

ASME B18.24-2023

(Revision of ASME B18.24-2020)

Part Identifying Number (PIN) Code System Standard for B18 Fastener Products

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AN AMERICAN NATIONAL STANDARD



**The American Society of
Mechanical Engineers**

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**The American Society of
Mechanical Engineers**

Two Park Avenue • New York, NY • 10016 USA

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FOREWORD

A joint government and American Society of Mechanical Engineers (ASME) B18 meeting was held November 4, 1977 at Defense Industrial Supply Center in Philadelphia, Pennsylvania. A planning group was established to eliminate road blocks to the government acceptance and use of national voluntary standards. Designated the Ad Hoc Fastener Planning Group, the Group's first meeting was held February 2, 1978 at American Society for Testing and Materials (ASTM) Headquarters in Philadelphia. At the meeting, government appendices to ASME B18 metric product standards were endorsed. In addition, an American National Standards Institute (ANSI) metric log was established to prevent duplicate efforts and provide the latest status of B18 metric fastener projects. The U.S. Army Armament Research Development and Engineering Center was tasked to provide government appendices for metric fastener standards on an as-needed basis.

At the ASME B18 Standards Committee meeting on December 5, 1991, based on a B18 Subcommittee 24 suggestion, the B18 Standards Committee unanimously approved a motion that Subcommittee 24 Industry/Government Liaison be reactivated and tasked by the B18 Standards Committee to address the issue of how to best handle needed changes to the various government appendices.

At the Subcommittee 24 meeting held May 12, 1993 at ASME Headquarters in New York City, the part identifying number (PIN) code system concept for B18 product standards was agreed to. The need was expressed that a PIN code system be made available for all users, not just limited to government users. This was based on the recognition that twenty-eight B18 metric and one B18 inch (ANSI B18.2.1) standards contained government appendices for Department of Defense (DOD) PIN acquisition usage that were not considered part of the ASME B18 Standard. Again, the premise based on the aforementioned proposal was to provide a B18 code system for all users without exception.

Based on the B18 Standards Committee mandate, a Subcommittee 24 Task Group was formed to develop ASME B18.24.1 (externally threaded fasteners) first, then proceed with ASME B18.24.2 (internally threaded B18 fasteners) and ASME B18.24.3 (nonthreaded fasteners) standards.

During the April 2003 B18 Subcommittee 24 and B18 Standards Committee meetings, it was agreed to draft a new standard, ASME B18.24, Part Identifying Number (PIN) Code System Standard for B18 Fastener Products, to replace the existing ASME B18.24.1, ASME B18.24.2, and ASME B18.24.3 standards. This was based on users' expressed need to reduce the 21-digit PIN code to a code with 18 digits, to accommodate the 18-digit maximum file name length constraint inherent with widely used computer aided design (CAD) software platforms. ASME B18.24-2004 was approved by the ANSI on April 16, 2004.

Following approval by the ASME B18 Standards Committee and after public review, ASME B18.24a-2006 was approved by the ANSI on December 7, 2006. The title of Table 1-1 was revised along with the column head under "Feature." Material was added under ASME B18.2.6 and ASME B18.9. "ASME B18.16M" was revised to read "ASME B18.16.3M." "ASME B18.27.6" was revised to read "ASME B27.6." "ASME B18.27.7M" was revised to read "ASME B27.7." "ASME B18.27.8M" was revised to read "ASME B27.8." Various changes were made throughout the document to incorporate required changes.

In 2013, Subcommittee 24 of the B18 Standards Committee created a Task Group to review the ASME B18.24 document against new standards published since 2004 and revisions to existing standards. Quite a few changes were integrated into the new version including the addition of several commonly used International Organization for Standardization (ISO) callouts for material and plating and several metric standards that had not previously existed. Several ASTM documents for material and plating were added to the ASME B18.24 PIN system to make it more useful.

The 2015 edition was approved by ANSI as an American National Standard on June 1, 2015.

In the 2020 edition, Note (1) of Table 6-2 was deleted and Table 6-3 was revised to include MIL-PRF-32647. The 2020 edition was approved by ANSI as an American National Standard on July 6, 2020.

ASME B18.24-2023 was approved by ANSI on July 21, 2023.

ASME B18 COMMITTEE

Standardization of Bolts, Nuts, Rivets, Screws, Washers, and Similar Fasteners

(The following is the roster of the committee at the time of approval of this Standard.)

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D. Korneffel, *Contributing Member*, CADENAS PARTsolutions
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R. D. Strong, *Contributing Member*, Lear Corp.
C. G. Vertullo, *Contributing Member*, Carver Engineering and Manufacturing

B18 SUBCOMMITTEE 24 — PIN CODE SYSTEM FOR B18 FASTENERS

D. Korneffel, *Chair*, CADENAS PARTsolutions
J. P. Fragnoli, General Fasteners Co.
B. Hasiuk, Defense Supply Center Philadelphia

J. C. Jennings, Naval Surface Warfare Center Philadelphia Division
M. Keller, CADENAS PARTsolutions

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Revisions and Errata. The committee processes revisions to this Standard on a periodic basis to incorporate changes that appear necessary or desirable as demonstrated by the experience gained from the application of the Standard. Approved revisions will be published in the next edition of the Standard.

In addition, the committee may post errata on the committee web page. Errata become effective on the date posted. Users can register on the committee web page to receive e-mail notifications of posted errata.

This Standard is always open for comment, and the committee welcomes proposals for revisions. Such proposals should be as specific as possible, citing the paragraph number(s), the proposed wording, and a detailed description of the reasons for the proposal, including any pertinent background information and supporting documentation.

Cases

(a) The most common applications for cases are

(1) to permit early implementation of a revision based on an urgent need

(2) to provide alternative requirements

(3) to allow users to gain experience with alternative or potential additional requirements prior to incorporation directly into the Standard

(4) to permit the use of a new material or process

(b) Users are cautioned that not all jurisdictions or owners automatically accept cases. Cases are not to be considered as approving, recommending, certifying, or endorsing any proprietary or specific design, or as limiting in any way the freedom of manufacturers, constructors, or owners to choose any method of design or any form of construction that conforms to the Standard.

(c) A proposed case shall be written as a question and reply in the same format as existing cases. The proposal shall also include the following information:

(1) a statement of need and background information

(2) the urgency of the case (e.g., the case concerns a project that is underway or imminent)

(3) the Standard and the paragraph, figure, or table number(s)

(4) the edition(s) of the Standard to which the proposed case applies

(d) A case is effective for use when the public review process has been completed and it is approved by the cognizant supervisory board. Approved cases are posted on the committee web page.

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Committee Meetings. The B18 Standards Committee regularly holds meetings that are open to the public. Persons wishing to attend any meeting should contact the secretary of the committee. Information on future committee meetings can be found on the committee web page at <https://go.asme.org/B18committee>.

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ASME B18.24-2023

SUMMARY OF CHANGES

Following approval by the ASME B18 Committee and ASME, and after public review, ASME B18.24-2023 was approved by the American National Standards Institute on July 21, 2023.

ASME B18.24-2023 includes the following changes identified by a margin note, **(23)**.

<i>Page</i>	<i>Location</i>	<i>Change</i>
5	Table 1-1	Revised in its entirety
33	Table 2-1	Thread types “UNRC-3” and “UNRF-3” added
81	Table 5-2	Duplicate “GE7” material code revised to “GE8”
93	Table 5-9	Revised
93	Table 5-10	Revised
93	Table 5-11	Added
109	Nonmandatory Appendix A	Revised in its entirety

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PART IDENTIFYING NUMBER (PIN) CODE SYSTEM STANDARD FOR B18 FASTENER PRODUCTS

1 INTRODUCTORY NOTES

1.1 Scope

1.1.1 This Standard is intended to provide all users (manufacturers, distributors, design and configuration, parts control, inventory control, test and maintenance functions) with the capability to identify externally threaded, internally threaded, and nonthreaded fastener products by a preselected order of coding as specified herein.

1.1.2 The B18 PIN is a self-contained code, with distinct identification linkage to individual ASME B18 fastener product standards. The PIN code concept provides for direct traceability back to the applicable ASME B18 product standard. In case of conflict with this document and the ASME B18 product standard, the ASME B18 product standard shall take precedence.

1.1.3 This Standard is not intended for use as a substitute for the correct usage of the ASME B18 standards for fastener selection and specification. The PIN code is intended as an alternative to the plain text product callout as prescribed in the “Designation” or “Ordering” section of the source B18 product standard. The existence of a PIN code for B18 fastener description is not intended to imply that all products described are available.

1.1.4 A few B18 fasteners cannot be thoroughly identified using the 18-digit system defined in this Standard. If the user does not find the PIN needed in the body of this Standard, consult [Nonmandatory Appendices A and B](#) where special PIN systems have been created to specifically identify those items. If the sought-after PIN for the desired B18 fastener is not in the [Nonmandatory Appendix B](#), notice should be sent to the secretary of the B18 committee so that the item can be addressed in the next revision of this Standard.

2 GENERAL GUIDANCE

2.1 Optional Coverage

Each individual ASME B18 fastener product standard provides for optional B18 PIN coverage under “Designation” or “Ordering” data.

2.2 Alpha “I” and “O”

Alpha “I,” “O,” and “-” are not used in PIN field coding configuration.

2.3 Characteristics

The B18 PIN code shall identify only those characteristics specified in the ASME B18 product standards.

2.4 Succession of ASME B18.24.1, ASME B18.24.2, and ASME B18.24.3 21-Character PIN Codes

[Nonmandatory Appendices A and B](#) of this document provide instructions and resources for determining the superseding ASME B18.24.4 18-character PIN code for any cancelled ASME B18.24.1, ASME B18.24.2, and ASME B18.24.3 21-character PIN code.

2.5 Identification of Part Numbering System on Drawings

On drawings or parts lists where a column exists for identifying the manufacturer or its Commercial and Government Entity (CAGE) Code, indicate the CAGE Code “05047/B18.24” or “ASME B18.24.” If no column exists or there is space only for the five-digit CAGE Code, then a note must indicate that the part numbers are defined in ASME B18.24.

2.6 Guidance for Using ASME B18.24

This Standard defines an 18-digit alphanumeric system for describing most ASME B18 fasteners. Those using this Standard shall refer to the specific ASME B18 standard for product details first, and only then use the appropriate descriptive number defined in this Standard for placing inquiries and orders.

This Standard can be used to describe fasteners that are not readily available from suppliers, or to create numbers in conflict with the B18 product requirements, such as selecting inappropriate or nonrecommended finishes. This is why it is critical for users to review the applicable ASME B18 standard before using ASME B18.24 to describe a desired fastener. The product requirements cited in individual ASME B18 Standards take precedence over conflicting numbers that might be created using ASME B18.24.

3 PIN CODE STRUCTURE

3.1 PIN Structure Overview

B18 Fastener PIN Example

	Base PIN	Thread Configuration and Size			Material/Finish		Additional Features
AEB02C250A50AP1A11	AEB02	C	250	A50	AP1	A1	1
18 characters	Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7

General data for 18-digit B18 PINs

Field	Field Name	Field Length	Table References
1	Base PIN [Note (1)]	Characters 1–5	Table 1-1 [Note (1)]
2	Fastener Thread Configuration	Character 6	Tables 2-1 and 2-2
3	Fastener Size	Characters 7–9	Tables 3-1 through 3-29
4	Length/Other Dimensions	Characters 10–12	Tables 4-1 through 4-6
5	Material and Treatment	Characters 13–15	Tables 5-1 through 5-9
6	Plating, Coating, and Passivation	Characters 16–17	Tables 6-1 through 6-5
7	Additional Features	Character 18	Tables 7-1 through 7-14

NOTE: (1) Base PINs are provided in the five-character Field 1 of Table 1-1 starting with AE for ASME, followed by one character for the Fastener Family and two characters for the specific type fastener in the Fastener Family (e.g., AEB02).

3.2 PIN Usage Guidance

Both the B18 PIN creation and lookup tasks are 2-step processes.

Step 1. Specify or identify the specific B18 Fastener Family and Type/Base PIN from Table 1-1. This shall be the first five (5) digits, beginning with the AE prefix.

Step 2. Specify or identify the specific applicable B18 fastener attributes from the lookup table references in Table 1-1 field columns.

EXAMPLE: AEB02C250A50AP1A11 — Bolt, Hex from ASME B18.2.1

To begin, the user would refer to Table 1-1 which is organized and sorted as follows:

(a) alphabetically by Base PIN to accommodate lookup queries

(b) hierarchically as follows for Fastener Family and Type/Base PIN selection:

Fastener Family PIN (Field 1, 3rd character)

→ B18 Standard Number

→ Specific Fastener Type (Field 1, 4th and 5th characters)

The following is excerpted from Table 1-1:

**Sample Table 1-1
Fastener Family and Type/Base PIN**

			Applicable Table References						
			Thread	Size	Lg/ Other	Material	Finish	Feature	
Bolt									
B18.2.1 Square and Hex Bolts and Screws (Inch Series)			② Field	2	3	4	5	6	7
① Field 1 Base PIN	{	AEB01 Bolts, Square	④	2-1	3-1	4-1	5-*	6-*	7-1
		AEB02 Bolts, Hex		2-1	3-1	4-1	5-*	6-*	7-1
		AEB03 Bolts, Hex, Heavy		2-1	3-1	4-1	5-*	6-*	7-1
		AEB04 Bolts, Askew Head		2-1	3-1	4-1	5-*	6-*	7-1
B18.2.3.5M Metric Hex Bolts			Field	2	3	4	5	6	7
	AEB05	Bolts, Hex		2-1	3-3	4-2	5-*	6-*	7-2
B18.2.3.6M Metric Heavy Hex Bolts			Field	2	3	4	5	6	7
	AEB06	Bolts, Hex, Heavy		2-1	3-3	4-2	5-*	6-*	7-2
B18.9 Plow Bolts (Inch Series)			Field	2	3	4	5	6	7
	AEB24	Bolts, Plow No. 3 Regular Head (Round, Countersunk, Square Neck)		2-1	3-1	4-1	5-*	6-*	7-1
	AEB25	Bolts, Plow No. 3 Repair Head (Round, Countersunk, Square Neck)		2-1	3-1	4-1	5-*	6-*	7-1
	AEB26	Bolts, Plow No. 7 Regular Head (Round, Countersunk, Reverse Key)		2-1	3-1	4-1	5-*	6-*	7-1
			③ Field Length =	1,	3,	3,	3,	2,	1

In our example, the Base PIN is **AEB02** and the unique B18 Fastener PIN is **AEB02C250A50AP1A11**. ① denotes the **emboldened Base PIN column of Table 1-1**. The **Base PIN identifies an individual, top-level fastener type from a B18 standard. The Base PIN is comprised of characters 1 through 5.** ② and ③ denote field number and field length, respectively, for subsequent PIN fields. By traversing from left to right from the beginning of Field 2 (character 6), the user can specify or look up the fastener attributes for any unique Base PIN/top-level fastener type.

④ denotes the attribute table number references for fields 2-7 as → 2-1 3-1 4-1 5-* 6-* 7-1. It is from these attribute fields that a unique fastener is described. Having located the appropriate lookup tables for Base PIN = AEB02, the user would interpret the remainder of the PIN as follows:

Look up the:

1-character value for Field 2 in [Table 2-1](#)

3-character value for Field 3 in [Table 3-1](#)

3-character value for Field 4 in [Table 4-1](#)

3-character value for Field 5 in [Tables 5-1](#) through [5-9](#)

2-character value for Field 6 in [Tables 6-1](#) through [6-5](#)

1-character value for Field 7 in [Table 7-1](#)

The following is an example for this specific B18 fastener PIN:

Field #	Field Length	Character Range	Field Value	Table Ref(s)	Attributes Fastener Parameter	Attribute Values Parameter Value
1	5	1-5	AEB02	1-1	→ PIN Spec	ASME B18.24
				1-1	→ PIN Spec Title	PIN Code System Standard for B18 Fastener Products
				1-1	→ Source Document	ASME B18.2.1
				1-1	→ Source Document Title	Square and Hex Bolts and Screws (Inch Series)
				1-1	→ Unit System	Inch
				1-1	→ Fastener Type	Bolt, Hex
2	1	6	C	2-1	→ Thread Configuration	UNC-2
3	3	7-9	250	3-1	→ Size	.250
4	3	10-12	A50	4-1	→ Length/Other Dim.	1.500
5	3	13-15	AP1	5-1	→ Material	Stainless Steel
				5-1	→ Material Spec	ASTM A194/A194M, Grade 8MLCuNA
6	2	16-17	A1	6-1	→ Finish	Plain, no finish
				6-1	→ Finish Spec	N/A
7	1	18	1	7-1	→ Features	Plain, no additional features

Please note that [Tables 4-1](#) and [4-2](#) include coverage of Field 4 externally threaded fastener lengths for fasteners with a reduced body diameter (RBD).

ASME B18 Prefix

PIN	Description
AE	ASME B18 PIN

All 18-digit ASME B18 Fastener PINs shall begin with an “AE” prefix. “AE” combined with the next 3 digits shall comprise the Fastener Family and Type/Base PIN. Refer to [Table 1-1](#) to specify/look up the appropriate top-level B18 Fastener Family and Type/Base PIN.

B18 Fastener Family

PIN	Description
B	Bolts
E	Inserts
K	Keys and Keyways
M	Screw and Washer Assemblies — SEMs
N	Nuts
P	Pins
R	Retaining Rings
S	Screws
T	Studs (Includes Lifting Eyes and Eyebolts)
V	Rivets
W	Washers

The B18 Fastener Family table describes digit 3 of Field 1, which is a total of 5 digits in length. As such, the field values of B18 Fastener Family are included within the [Table 1-1](#) PIN values. This table is presented solely to demonstrate how the user can quickly identify what type of fastener a given PIN describes simply by identifying the third digit in a B18 PIN.

Table 1-1
Fastener Family and Type/Base PIN

(23)

Type/Base PIN	Fastener Family	Applicable Table References					
		Thread	Size	Lg/ Other	Material	Finish	Feature
Bolts							
ASME B18.2.1	Square, Hex, Heavy Hex, and Askew Head Bolts and Hex, Heavy Hex, Hex Flange, Lobed Head, and Lag Screws (Inch Series)	Field 2	3	4	5	6	7
AEB01	Bolts, Square	2-1	3-1	4-1	5-*	6-*	7-2
AEB02	Bolts, Hex	2-1	3-1	4-1	5-*	6-*	7-2
AEB03	Bolts, Hex, Heavy	2-1	3-1	4-1	5-*	6-*	7-2
AEB04	Bolts, Askew Head	2-1	3-1	4-1	5-*	6-*	7-2
ASME B18.2.3.5M	Metric Hex Bolts	Field 2	3	4	5	6	7
AEB05	Bolts, Hex	2-1	3-3	4-2	5-*	6-*	7-2
ASME B18.2.3.6M	Metric Heavy Hex Bolt	Field 2	3	4	5	6	7
AEB06	Bolts, Hex, Heavy	2-1	3-3	4-2	5-*	6-*	7-2
ASME B18.2.3.7M	Metric Heavy Hex Structural Bolt	Field 2	3	4	5	6	7
AEB07	Bolts, Hex, Heavy Structural	2-1	3-3	4-2	5-*	6-*	7-2
ASME B18.2.3.10M	Metric Square Head Bolts	Field 2	3	4	5	6	7
AEB08	Bolts, Square	2-1	3-3	4-2	5-*	6-*	7-2
ASME B18.2.6	Fasteners for Use in Structural Applications (Inch Series)	Field 2	3	4	5	6	7
AEB09	Bolts, Hex, Heavy Structural	2-1	3-1	4-1	5-*	6-*	7-2
AEB34	Bolts, Hex, Heavy, Tension Control Structural	2-1	3-1	4-1	5-*	6-*	7-2
AEB35	Bolts, Round Head, Tension Control Structural	2-1	3-1	4-1	5-*	6-*	7-2
ASME B18.2.6M	Metric Fasteners for Use in Structural Applications	Field 2	3	4	5	6	7
AEB07	Bolts, Hex, Heavy Structural	2-1	3-3	4-2	5-*	6-*	7-2
ASME B18.5	Round Head Bolts (Inch Series)	Field 2	3	4	5	6	7
AEB10	Bolts, Round Head, (Button Head Bolts)	2-1	3-1	4-1	5-*	6-*	7-2
AEB11	Bolts, Round, Square Neck (Square Neck Carriage Bolts)	2-1	3-1	4-1	5-*	6-*	7-2
AEB12	Bolts, Round, Short Square Neck	2-1	3-1	4-1	5-*	6-*	7-2
AEB13	Bolts, Round, Ribbed Neck (Ribbed Neck Carriage Bolts)	2-1	3-1	4-1	5-*	6-*	7-2
AEB14	Bolts, Round, Fin Neck (Fin Neck Carriage Bolts)	2-1	3-1	4-1	5-*	6-*	7-2
AEB15	Bolts, Round, Step	2-1	3-1	4-1	5-*	6-*	7-2
AEB16	Bolts, Round, Countersunk, Unslotted	2-1	3-1	4-1	5-*	6-*	7-2
AEB17	Bolts, Round, Countersunk, Slotted	2-1	3-1	4-1	5-*	6-*	7-2
AEB18	Bolts, Round, 114 deg, Countersunk, Square Neck (Countersunk Carriage Bolts)	2-1	3-1	4-1	5-*	6-*	7-2
AEB19	Bolts, Round, Elevator, Flat Head, Countersunk	2-1	3-1	4-1	5-*	6-*	7-2
AEB20	Bolts, Round, T Head	2-1	3-1	4-1	5-*	6-*	7-2
ASME B18.5.2.1M	Metric Round Head Short Square Neck Bolts	Field 2	3	4	5	6	7
AEB21	Bolts, Round, Short Square Neck	2-1	3-3	4-2	5-*	6-*	7-2

**Table 1-1
Fastener Family and Type/Base PIN (Cont'd)**

		Applicable Table References					
Type/Base PIN	Fastener Family	Thread	Size	Lg/ Other	Material	Finish	Feature
Bolts (Cont'd)							
ASME B18.5.2.2M	Metric Round Head Square Neck Bolts	Field 2	3	4	5	6	7
AEB22	Bolts, Round, Square Neck	2-1	3-3	4-2	5-*	6-*	7-2
ASME B18.5.2.3M	Metric Round Head Square Neck Bolts With Large Head	Field 2	3	4	5	6	7
AEB23	Bolts, Round, Square Neck, Large Head	2-1	3-3	4-2	5-*	6-*	7-2
ASME B18.9	Plow Bolts (Inch Series)	Field 2	3	4	5	6	7
AEB24	Bolts, Plow No. 3 Regular Head (Round, Countersunk, Square Neck)	2-1	3-1	4-1	5-*	6-*	7-2
AEB25	Bolts, Plow No. 3 Repair Head (Round, Countersunk, Square Neck)	2-1	3-1	4-1	5-*	6-*	7-2
AEB26	Bolts, Plow No. 7 Regular Head (Round, Countersunk, Reverse Key)	2-1	3-1	4-1	5-*	6-*	7-2
AEB27	Bolts, Plow No. 7 Repair Head (Round, Countersunk, Reverse Key)	2-1	3-1	4-1	5-*	6-*	7-2
AEB28	Bolts, Plow, Square, No. 4 Repair Head (Square Head, Countersunk)	2-1	3-1	4-1	5-*	6-*	7-2
AEB29	Bolts, Plow No. 6 Repair Head (Round, Countersunk, Heavy Key)	2-1	3-1	4-1	5-*	6-*	7-2
AEB30	Bolts, Plow, Square, No. 4 Regular Head (Square Head, Countersunk)	2-1	3-1	4-1	5-*	6-*	7-2
AEB31	Bolts, Plow No. 6 Regular Head (Round, Countersunk, Heavy Key)	2-1	3-1	4-1	5-*	6-*	7-2
AEB38	Bolts, Plow Clipped Head	2-1	3-1	4-1	5-*	6-*	7-2
AEB39	Bolts, Plow Elliptical Head	2-1	3-1	4-1	5-*	6-*	7-2
ASME B18.10	Track Bolts and Nuts (Inch Series)	Field 2	3	4	5	6	7
AEB32	Bolts, Track, Round, Oval Neck (Mushroom Head)	2-1	3-1	4-1	5-*	6-*	7-13
AEB33	Bolts, Track, Round, Elliptic Neck (Mushroom Head)	2-1	3-1	4-1	5-*	6-*	7-13
Inserts							
ASME B18.29.1	Helical Coil Screws Thread Inserts — Free Running and Screw Locking (Inch Series)	Field 2	3	4	5	6	7
AEE01	Inserts, Helical Coil Screw Thread (Free Running)	2-1	3-1	4-4	5-*	6-*	7-1
AEE02	Inserts, Helical Coil Screw Thread (Screw Locking)	2-1	3-1	4-4	5-*	6-*	7-1
ASME B18.29.2M	Metric Helical Coil Screws Thread Inserts — Free Running and Screw Locking	Field 2	3	4	5	6	7
AEE03	Inserts, Helical Coil Screw Thread (Free Running)	2-1	3-3	4-4	5-*	6-*	7-1
AEE04	Inserts, Helical Coil Screw Thread (Screw Locking)	2-1	3-3	4-4	5-*	6-*	7-1
ASME B18.29.3	Tangless Helical Coil Screws Thread Inserts — Free Running and Screw Locking (Inch Series)	Field 2	3	4	5	6	7
AEE05	Inserts, Tangless Helical Coil Screw Thread (Free Running)	2-1	3-1	4-4	5-*	6-*	7-1
AEE06	Inserts, Tangless Helical Coil Screw Thread (Screw Locking)	2-1	3-1	4-4	5-*	6-*	7-1

**Table 1-1
Fastener Family and Type/Base PIN (Cont'd)**

		Applicable Table References					
Type/Base PIN	Fastener Family	Thread	Size	Lg/ Other	Material	Finish	Feature
Keys and Keyways							
ASME B18.25.1M	Metric Square and Rectangular Keys and Keyways	Field 2	3	4	5	6	7
AEK01	Keys, Square Style A	2-1	3-28	4-2	5-*	6-*	7-1
AEK02	Keys, Square Style B	2-1	3-28	4-2	5-*	6-*	7-1
AEK03	Keys, Square Style C	2-1	3-28	4-2	5-*	6-*	7-1
AEK04	Keys, Square Style A, Hardened	2-1	3-28	4-2	5-*	6-*	7-1
AEK05	Keys, Square Style B, Hardened	2-1	3-28	4-2	5-*	6-*	7-1
AEK06	Keys, Square Style C, Hardened	2-1	3-28	4-2	5-*	6-*	7-1
AEK07	Keys, Rectangular Style A	2-1	3-28	4-2	5-*	6-*	7-1
AEK08	Keys, Rectangular Style B	2-1	3-28	4-2	5-*	6-*	7-1
AEK09	Keys, Rectangular Style C	2-1	3-28	4-2	5-*	6-*	7-1
AEK10	Keys, Rectangular Style A, Hardened	2-1	3-28	4-2	5-*	6-*	7-1
AEK11	Keys, Rectangular Style B, Hardened	2-1	3-28	4-2	5-*	6-*	7-1
AEK12	Keys, Rectangular Style C, Hardened	2-1	3-28	4-2	5-*	6-*	7-1
ASME B18.25.2M	Metric Woodruff Keys and Keyways	Field 2	3	4	5	6	7
AEK13	Keys, Woodruff, Normal Form	2-1	3-29	4-2	5-*	6-*	7-1
AEK14	Keys, Woodruff, Whitney Form	2-1	3-29	4-2	5-*	6-*	7-1
Screw and Washer Assemblies — Screw Component							
ASME B18.13	Screw and Washer Assemblies (Inch Series)	Field 2	3	4	5	6	7
AEM01	SEMs, Hex Cap Screw	2-1	3-1	4-1	5-*	6-*	7-9
AEM14	SEMs, Hex Socket Head Cap Screw	2-1	3-1	4-1	5-*	6-*	7-9
AEMC0	SEMs, Flat Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9
AEMC1	SEMs, Flat Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMC2	SEMs, Flat Head Machine Screw, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMC3	SEMs, Flat Head Machine Screw, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMC4	SEMs, Flat Head Machine Screw, Type III Square Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMC5	SEMs, 100 deg Flat Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9
AEMC6	SEMs, 100 deg Flat Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMC7	SEMs, 100 deg Flat Head Machine Screw, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMC8	SEMs, 100 deg Flat Head Machine Screw, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMC9	SEMs, 100 deg Close Tolerance Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9
AEMD0	SEMs, 100 deg Close Tolerance Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMD1	SEMs, 100 deg Close Tolerance Machine Screw, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMD2	SEMs, 100 deg Close Tolerance Machine Screw, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMD3	SEMs, Oval Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9
AEMD4	SEMs, Oval Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMD5	SEMs, Oval Head Machine Screw, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMD6	SEMs, Oval Head Machine Screw, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMD7	SEMs, Oval Head Machine Screw, Type III Square Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMD8	SEMs, Undercut Flat Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9

**Table 1-1
Fastener Family and Type/Base PIN (Cont'd)**

Type/Base PIN		Fastener Family	Applicable Table References				
			Thread	Size	Lg/ Other	Material	Finish
Screw and Washer Assemblies — Screw Component (Cont'd)							
ASME B18.13 (Cont'd)							
AEMD9	SEMs, Undercut Flat Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEME0	SEMs, Undercut Flat Head Machine Screw, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEME1	SEMs, Undercut Flat Head Machine Screw, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEME2	SEMs, Undercut Flat Head Machine Screw, Type III Square Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEME3	SEMs, Oval Undercut Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9
AEME4	SEMs, Oval Undercut Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEME5	SEMs, Oval Undercut Head Machine Screw, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEME6	SEMs, Oval Undercut Head Machine Screw, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEME7	SEMs, Oval Undercut Head Machine Screw, Type III Square Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEME8	SEMs, Flat Trim Head Machine Screw, Type I Cross Recess	2-1	3-11	4-1	5-*	6-*	7-9
AEME9	SEMs, Flat Trim Head Machine Screw, Type IA Cross Recess	2-1	3-11	4-1	5-*	6-*	7-9
AEMF0	SEMs, Flat Trim Head Machine Screw, Type II Cross Recess	2-1	3-11	4-1	5-*	6-*	7-9
AEMF1	SEMs, Oval Trim Head Machine Screw, Type I Cross Recess	2-1	3-11	4-1	5-*	6-*	7-9
AEMF2	SEMs, Oval Trim Head Machine Screw, Type IA Cross Recess	2-1	3-11	4-1	5-*	6-*	7-9
AEMF3	SEMs, Oval Trim Head Machine Screw, Type II Cross Recess	2-1	3-11	4-1	5-*	6-*	7-9
AEMF4	SEMs, Pan Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9
AEMF5	SEMs, Pan Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMF6	SEMs, Pan Head Machine Screw, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMF7	SEMs, Pan Head Machine Screw, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMF8	SEMs, Pan Head Machine Screw, Type III Square Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMF9	SEMs, Pan Head Machine Screw, Type I Cross Recess With Slot	2-1	3-1	4-1	5-*	6-*	7-9
AEMG0	SEMs, Pan Head Machine Screw, Type IA Cross Recess With Slot	2-1	3-1	4-1	5-*	6-*	7-9
AEMG1	SEMs, Pan Head Machine Screw, Type III Square Recess With Slot	2-1	3-1	4-1	5-*	6-*	7-9
AEMG2	SEMs, Fillister Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9
AEMG3	SEMs, Fillister Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMG4	SEMs, Fillister Head Machine Screw, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMG5	SEMs, Fillister Head Machine Screw, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMG6	SEMs, Fillister Head Machine Screw, Type III Square Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMG7	SEMs, Fillister Head Machine Screw, Slotted and Drilled	2-1	3-1	4-1	5-*	6-*	7-9

**Table 1-1
Fastener Family and Type/Base PIN (Cont'd)**

		Applicable Table References					
Type/Base PIN	Fastener Family	Thread	Size	Lg/ Other	Material	Finish	Feature
Screw and Washer Assemblies — Screw Component (Cont'd)							
ASME B18.13 (Cont'd)							
AEMG8	SEMs, Truss Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9
AEMG9	SEMs, Truss Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMH0	SEMs, Truss Head Machine Screw, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMH1	SEMs, Truss Head Machine Screw, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMH2	SEMs, Truss Head Machine Screw, Type III Square Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMH3	SEMs, Truss Head Machine Screw, Type I Cross Recess With Slot	2-1	3-1	4-1	5-*	6-*	7-9
AEMH4	SEMs, Truss Head Machine Screw, Type III Square Recess With Slot	2-1	3-1	4-1	5-*	6-*	7-9
AEMH5	SEMs, Binding Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9
AEMH6	SEMs, Binding Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMH7	SEMs, Binding Head Machine Screw, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMH8	SEMs, Binding Head Machine Screw, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMH9	SEMs, Binding Head Machine Screw, Type III Square Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMJ0	SEMs, Indented Regular Hex Head Machine Screw, Unslotted	2-1	3-1	4-1	5-*	6-*	7-9
AEMJ1	SEMs, Indented Regular Hex Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9
AEMJ2	SEMs, Trimmed Regular Hex Head Machine Screw, Unslotted	2-1	3-1	4-1	5-*	6-*	7-9
AEMJ3	SEMs, Trimmed Regular Hex Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9
AEMJ4	SEMs, Fully Upset Regular Hex Head Machine Screw, Unslotted	2-1	3-1	4-1	5-*	6-*	7-9
AEMJ5	SEMs, Fully Upset Regular Hex Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9
AEMJ6	SEMs, Indented Large Hex Head Machine Screw, Unslotted	2-1	3-1	4-1	5-*	6-*	7-9
AEMJ7	SEMs, Indented Large Hex Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9
AEMJ8	SEMs, Trimmed Large Hex Head Machine Screw, Unslotted	2-1	3-1	4-1	5-*	6-*	7-9
AEMJ9	SEMs, Trimmed Large Hex Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9
AEMK0	SEMs, Fully Upset Large Hex Head Machine Screw, Unslotted	2-1	3-1	4-1	5-*	6-*	7-9
AEMK1	SEMs, Fully Upset Large Hex Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9
AEMK2	SEMs, Indented Regular Hex Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMK3	SEMs, Trimmed Regular Hex Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMK4	SEMs, Fully Upset Regular Hex Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMK5	SEMs, Indented Large Hex Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9

**Table 1-1
Fastener Family and Type/Base PIN (Cont'd)**

		Applicable Table References					
Type/Base PIN	Fastener Family	Thread	Size	Lg/ Other	Material	Finish	Feature
Screw and Washer Assemblies — Screw Component (Cont'd)							
ASME B18.13 (Cont'd)							
AEMK6	SEMs, Trimmed Large Hex Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMK7	SEMs, Fully Upset Large Hex Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEMK8	SEMs, Indented Hex Washer Head Machine Screw, Unslotted	2-1	3-1	4-1	5-*	6-*	7-9
AEMK9	SEMs, Indented Hex Washer Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9
AEML0	SEMs, Indented Hex Washer Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEML1	SEMs, Indented Hex Washer Head Machine Screw, Type I Cross Recess With Slot	2-1	3-1	4-1	5-*	6-*	7-9
AEML2	SEMs, Round Washer Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9
AEML3	SEMs, Round Washer Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEML4	SEMs, Round Head Machine Screw, Slotted	2-1	3-1	4-1	5-*	6-*	7-9
AEML5	SEMs, Round Head Machine Screw, Type I Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEML6	SEMs, Round Head Machine Screw, Type IA Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEML7	SEMs, Round Head Machine Screw, Type II Cross Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEML8	SEMs, Round Head Machine Screw, Type III Square Recess	2-1	3-1	4-1	5-*	6-*	7-9
AEML9	SEMs, Round Head Machine Screw, Type I Cross Recess With Slot	2-1	3-1	4-1	5-*	6-*	7-9
AEMM0	SEMs, Round Head Machine Screw, Type IA Cross Recess With Slot	2-1	3-1	4-1	5-*	6-*	7-9
AEMM1	SEMs, Flat Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9
AEMM2	SEMs, Flat Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMM3	SEMs, Flat Head Tapping Screw, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMM4	SEMs, Flat Head Tapping Screw, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMM6	SEMs, 100 Deg. Flat Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9
AEMM7	SEMs, 100 Deg. Flat Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMM8	SEMs, 100 Deg. Flat Head Tapping Screw, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMM9	SEMs, 100 Deg. Flat Head Tapping Screw, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMN0	SEMs, Oval Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9
AEMN1	SEMs, Oval Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMN2	SEMs, Oval Head Tapping Screw, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMN3	SEMs, Oval Head Tapping Screw, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMN5	SEMs, Undercut Flat Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9
AEMN6	SEMs, Undercut Flat Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMN7	SEMs, Undercut Flat Head Tapping Screw, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMN8	SEMs, Undercut Flat Head Tapping Screw, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9

**Table 1-1
Fastener Family and Type/Base PIN (Cont'd)**

		Applicable Table References					
Type/Base PIN	Fastener Family	Thread	Size	Lg/ Other	Material	Finish	Feature
Screw and Washer Assemblies — Screw Component (Cont'd)							
ASME B18.13 (Cont'd)							
AEMP0	SEMs, Undercut Oval Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9
AEMP1	SEMs, Undercut Oval Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMP2	SEMs, Undercut Oval Head Tapping Screw, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMP3	SEMs, Undercut Oval Head Tapping Screw, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMP5	SEMs, Flat Trim Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMP6	SEMs, Flat Trim Head Tapping Screw, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMP7	SEMs, Flat Trim Head Tapping Screw, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMP8	SEMs, Oval Trim Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMP9	SEMs, Oval Trim Head Tapping Screw, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMQ0	SEMs, Oval Trim Head Tapping Screw, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMQ1	SEMs, Pan Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9
AEMQ2	SEMs, Pan Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMQ3	SEMs, Pan Head Tapping Screw, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMQ4	SEMs, Pan Head Tapping Screw, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMQ5	SEMs, Pan Head Tapping Screw, Type III Square Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMQ9	SEMs, Fillister Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9
AEMR0	SEMs, Fillister Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMR1	SEMs, Fillister Head Tapping Screw, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMR2	SEMs, Fillister Head Tapping Screw, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMR4	SEMs, Truss Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9
AEMR5	SEMs, Truss Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMR6	SEMs, Truss Head Tapping Screw, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMR7	SEMs, Truss Head Tapping Screw, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMS1	SEMs, Indented Regular Hex Head Tapping Screw, Unslotted	2-2	3-6	4-1	5-*	6-*	7-9
AEMS2	SEMs, Indented Regular Hex Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9
AEMS3	SEMs, Trimmed Regular Hex Head Tapping Screw, Unslotted	2-2	3-6	4-1	5-*	6-*	7-9
AEMS4	SEMs, Trimmed Regular Hex Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9
AEMS5	SEMs, Fully Upset Regular Hex Head Tapping Screw, Unslotted	2-2	3-6	4-1	5-*	6-*	7-9
AEMS6	SEMs, Fully Upset Regular Hex Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9
AEMS7	SEMs, Indented Large Hex Head Tapping Screw, Unslotted	2-2	3-6	4-1	5-*	6-*	7-9

**Table 1-1
Fastener Family and Type/Base PIN (Cont'd)**

		Applicable Table References					
Type/Base PIN	Fastener Family	Thread	Size	Lg/ Other	Material	Finish	Feature
Screw and Washer Assemblies — Screw Component (Cont'd)							
ASME B18.13 (Cont'd)							
AEMS8	SEMs, Indented Large Hex Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9
AEMS9	SEMs, Trimmed Large Hex Head Tapping Screw, Unslotted	2-2	3-6	4-1	5-*	6-*	7-9
AEMT0	SEMs, Trimmed Large Hex Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9
AEMT1	SEMs, Fully Upset Large Hex Head Tapping Screw, Unslotted	2-2	3-6	4-1	5-*	6-*	7-9
AEMT2	SEMs, Fully Upset Large Hex Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9
AEMT3	SEMs, Indented Regular Hex Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMT4	SEMs, Trimmed Regular Hex Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMT5	SEMs, Fully Upset Regular Hex Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMT6	SEMs, Indented Large Hex Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMT7	SEMs, Trimmed Large Hex Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMT8	SEMs, Fully Upset Large Hex Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMT9	SEMs, Indented Hex Washer Head Tapping Screw, Unslotted	2-2	3-6	4-1	5-*	6-*	7-9
AEMU0	SEMs, Indented Hex Washer Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9
AEMU1	SEMs, Indented Hex Washer Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMU3	SEMs, Round Washer Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9
AEMU4	SEMs, Round Washer Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMU5	SEMs, Round Head Tapping Screw, Slotted	2-2	3-6	4-1	5-*	6-*	7-9
AEMU6	SEMs, Round Head Tapping Screw, Type I Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMU7	SEMs, Round Head Tapping Screw, Type IA Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMU8	SEMs, Round Head Tapping Screw, Type II Cross Recess	2-2	3-6	4-1	5-*	6-*	7-9
AEMV2	SEMs, Round Head Tapping Screw, Unslotted	2-2	3-6	4-1	5-*	6-*	7-9
ASME B18.13.1M Metric Screw and Washer Assemblies		Field 2	3	4	5	6	7
AEM07	SEMs, Hex Cap Screw	2-1	3-3	4-2	5-*	6-*	7-9
AEM43	SEMs, Hex Socket Head Cap Screw	2-1	3-3	4-2	5-*	6-*	7-9
AEMV3	SEMs, Flat Head Tapping Screw, Slotted	2-2	3-7	4-2	5-*	6-*	7-9
AEMV4	SEMs, Style A Flat Head Tapping Screw, Type I Cross Recess	2-2	3-7	4-2	5-*	6-*	7-9
AEMV5	SEMs, Style A Flat Head Tapping Screw, Type IA Cross Recess	2-2	3-7	4-2	5-*	6-*	7-9
AEMV6	SEMs, Style A Flat Head Tapping Screw, Type III Cross Recess	2-2	3-7	4-2	5-*	6-*	7-9
AEMV7	SEMs, Style B Flat Head Tapping Screw, Type I Cross Recess	2-2	3-7	4-2	5-*	6-*	7-9

**Table 1-1
Fastener Family and Type/Base PIN (Cont'd)**

		Applicable Table References					
Type/Base PIN	Fastener Family	Thread	Size	Lg/ Other	Material	Finish	Feature
Screw and Washer Assemblies — Screw Component (Cont'd)							
ASME B18.13.1M (Cont'd)							
AEMV8	SEMs, Style B Flat Head Tapping Screw, Type IA Cross Recess	2-2	3-7	4-2	5-*	6-*	7-9
AEMV9	SEMs, Style B Flat Head Tapping Screw, Type III Cross Recess	2-2	3-7	4-2	5-*	6-*	7-9
AEMW0	SEMs, Oval Head Tapping Screw, Slotted	2-2	3-7	4-2	5-*	6-*	7-9
AEMW1	SEMs, Oval Head Tapping Screw, Type I Cross Recess	2-2	3-7	4-2	5-*	6-*	7-9
AEMW2	SEMs, Oval Head Tapping Screw, Type IA Cross Recess	2-2	3-7	4-2	5-*	6-*	7-9
AEMW3	SEMs, Oval Head Tapping Screw, Type III Cross Recess	2-2	3-7	4-2	5-*	6-*	7-9
AEMW4	SEMs, Pan Head Tapping Screw, Slotted	2-2	3-7	4-2	5-*	6-*	7-9
AEMW5	SEMs, Pan Head Tapping Screw, Type I Cross Recess	2-2	3-7	4-2	5-*	6-*	7-9
AEMW6	SEMs, Pan Head Tapping Screw, Type IA Cross Recess	2-2	3-7	4-2	5-*	6-*	7-9
AEMW7	SEMs, Pan Head Tapping Screw, Type III Cross Recess	2-2	3-7	4-2	5-*	6-*	7-9
AEMX1	SEMs, Indented Hex Head Tapping Screw, Unslotted	2-2	3-7	4-2	5-*	6-*	7-9
AEMX3	SEMs, Trimmed Hex Head Tapping Screw, Unslotted	2-2	3-7	4-2	5-*	6-*	7-9
AEMX5	SEMs, Fully Upset Hex Head Tapping Screw, Unslotted	2-2	3-7	4-2	5-*	6-*	7-9
AEMX7	SEMs, Hex Flange Head Tapping Screw, Unslotted	2-2	3-7	4-2	5-*	6-*	7-9
AEMY0	SEMs, Flat Head Machine Screw, Slotted	2-1	3-3	4-2	5-*	6-*	7-9
AEMY1	SEMs, Style A Flat Head Machine Screw, Type I Cross Recess	2-1	3-3	4-2	5-*	6-*	7-9
AEMY2	SEMs, Style A Flat Head Machine Screw, Type IA Cross Recess	2-1	3-3	4-2	5-*	6-*	7-9
AEMY3	SEMs, Style A Flat Head Machine Screw, Type III Cross Recess	2-1	3-3	4-2	5-*	6-*	7-9
AEMY4	SEMs, Style B Flat Head Machine Screw, Type I Cross Recess	2-1	3-3	4-2	5-*	6-*	7-9
AEMY5	SEMs, Style B Flat Head Machine Screw, Type IA Cross Recess	2-1	3-3	4-2	5-*	6-*	7-9
AEMY6	SEMs, Style B Flat Head Machine Screw, Type III Cross Recess	2-1	3-3	4-2	5-*	6-*	7-9
AEMY7	SEMs, Oval Head Machine Screw, Slotted	2-1	3-3	4-2	5-*	6-*	7-9
AEMY8	SEMs, Oval Head Machine Screw, Type I Cross Recess	2-1	3-3	4-2	5-*	6-*	7-9
AEMY9	SEMs, Oval Head Machine Screw, Type IA Cross Recess	2-1	3-3	4-2	5-*	6-*	7-9
AEMZ0	SEMs, Oval Head Machine Screw, Type III Cross Recess	2-1	3-3	4-2	5-*	6-*	7-9
AEMZ1	SEMs, Pan Head Machine Screw, Slotted	2-1	3-3	4-2	5-*	6-*	7-9
AEMZ2	SEMs, Pan Head Machine Screw, Type I Cross Recess	2-1	3-3	4-2	5-*	6-*	7-9
AEMZ3	SEMs, Pan Head Machine Screw, Type IA Cross Recess	2-1	3-3	4-2	5-*	6-*	7-9
AEMZ4	SEMs, Pan Head Machine Screw, Type III Cross Recess	2-1	3-3	4-2	5-*	6-*	7-9
AEMZ8	SEMs, Indented Hex Head Machine Screw, Unslotted	2-1	3-3	4-2	5-*	6-*	7-9
AEMZ9	SEMs, Indented Hex Head Machine Screw, Slotted	2-1	3-3	4-2	5-*	6-*	7-9
AEMZA	SEMs, Trimmed Hex Head Machine Screw, Unslotted	2-1	3-3	4-2	5-*	6-*	7-9
AEMZB	SEMs, Trimmed Hex Head Machine Screw, Slotted	2-1	3-3	4-2	5-*	6-*	7-9
AEMZC	SEMs, Fully Upset Hex Head Machine Screw, Unslotted	2-1	3-3	4-2	5-*	6-*	7-9
AEMZD	SEMs, Fully Upset Hex Head Machine Screw, Slotted	2-1	3-3	4-2	5-*	6-*	7-9
AEMZE	SEMs, Hex Flange Head Machine Screw, Slotted	2-1	3-3	4-2	5-*	6-*	7-9
AEMZF	SEMs, Hex Flange Head Machine Screw, Unslotted	2-1	3-3	4-2	5-*	6-*	7-9

**Table 1-1
Fastener Family and Type/Base PIN (Cont'd)**

		Applicable Table References					
Type/Base PIN	Fastener Family	Thread	Size	Lg/ Other	Material	Finish	Feature
Nuts							
ASME B18.2.2	Nuts for General Applications: Machine Screw Nuts, Hex, Square, Hex Flange, and Coupling Nuts (Inch Series)	Field 2	3	4	5	6	7
AEN01	Nuts, Square	2-1	3-1	4-1	5-*	6-*	7-1
AEN02	Nuts, Hex Flat	2-1	3-1	4-1	5-*	6-*	7-1
AEN03	Nuts, Hex Flat Jam	2-1	3-1	4-1	5-*	6-*	7-1
AEN04	Nuts, Hex	2-1	3-1	4-1	5-*	6-*	7-1
AEN05	Nuts, Hex Jam	2-1	3-1	4-1	5-*	6-*	7-1
AEN06	Nuts, Hex Slotted	2-1	3-1	4-1	5-*	6-*	7-1
AEN07	Nuts, Hex Thick	2-1	3-1	4-1	5-*	6-*	7-1
AEN08	Nuts, Hex Thick Slotted	2-1	3-1	4-1	5-*	6-*	7-1
AEN09	Nuts, Heavy Square	2-1	3-1	4-1	5-*	6-*	7-1
AEN10	Nuts, Heavy Hex Flat	2-1	3-1	4-1	5-*	6-*	7-1
AEN11	Nuts, Heavy Hex Flat Jam	2-1	3-1	4-1	5-*	6-*	7-1
AEN12	Nuts, Heavy Hex	2-1	3-1	4-1	5-*	6-*	7-1
AEN13	Nuts, Heavy Hex Jam	2-1	3-1	4-1	5-*	6-*	7-1
AEN14	Nuts, Heavy Hex Slotted	2-1	3-1	4-1	5-*	6-*	7-1
AEN35	Nuts, Hex Machine, Small Pattern	2-1	3-1	4-1	5-*	6-*	7-1
AEN36	Nuts, Hex Flange	2-1	3-1	4-1	5-*	6-*	7-1
AEN37	Nuts, Hex Flange, Large	2-1	3-1	4-1	5-*	6-*	7-1
AEN38	Nuts, Hex Coupling	2-1	3-1	4-1	5-*	6-*	7-1
AEN22	Nuts, Machine, Square	2-1	3-1	4-1	5-*	6-*	7-1
AEN23	Nuts, Machine, Hex	2-1	3-1	4-1	5-*	6-*	7-1
ASME B18.2.4.1M	Metric Hex Nuts, Style 1	Field 2	3	4	5	6	7
AEN15	Nuts, Hex, Style 1	2-1	3-3	4-2	5-*	6-*	7-1
ASME B18.2.4.2M	Metric Hex Nuts, Style 2	Field 2	3	4	5	6	7
AEN16	Nuts, Hex, Style 2	2-1	3-3	4-2	5-*	6-*	7-1
ASME B18.2.4.3M	Metric Slotted Hex Nuts	Field 2	3	4	5	6	7
AEN17	Nuts, Hex, Slotted	2-1	3-3	4-2	5-*	6-*	7-1
ASME B18.2.4.4M	Metric Hex Flange Nuts	Field 2	3	4	5	6	7
AEN18	Nuts, Hex, Flange	2-1	3-3	4-2	5-*	6-*	7-1
ASME B18.2.4.5M	Metric Hex Jam Nuts	Field 2	3	4	5	6	7
AEN19	Nuts, Hex, Jam	2-1	3-3	4-2	5-*	6-*	7-1
ASME B18.2.4.6M	Metric Hex Hex Nuts	Field 2	3	4	5	6	7
AEN20	Nuts, Heavy Hex	2-1	3-3	4-2	5-*	6-*	7-1
ASME B18.2.6	Fasteners for Use in Structural Applications (Inch Series)	Field 2	3	4	5	6	7
AEN21	Nuts, Heavy Hex (for use with Structural Bolts)	2-1	3-1	4-1	5-*	6-*	7-1

**Table 1-1
Fastener Family and Type/Base PIN (Cont'd)**

		Applicable Table References					
Type/Base PIN	Fastener Family	Thread	Size	Lg/ Other	Material	Finish	Feature
Nuts (Cont'd)							
ASME B18.2.6M	Metric Fasteners for Use in Structural Applications	Field 2	3	4	5	6	7
AEN20	Nuts, Heavy Hex (for use with Metric Structural Bolts)	2-1	3-3	4-2	5-*	6-*	7-1
ASME B18.6.3	Machine Screws and Machine Screw Nuts (Inch Series)	Field 2	3	4	5	6	7
AEN22	Nuts, Machine, Square	2-1	3-1	4-1	5-*	6-*	7-1
AEN23	Nuts, Machine, Hex	2-1	3-1	4-1	5-*	6-*	7-1
ASME B18.16.6	Nylon Insert Locknuts (Inch Series)	Field 2	3	4	5	6	7
AEN48	Nuts, Nylon Insert Locknut	2-1	3-1	4-1	5-9	6-*	7-1
ASME B18.6.9	Wing Nuts (Inch Series)	Field 2	3	4	5	6	7
AEN39	Wing Nut, Type A	2-1	3-1	4-1	5-*	6-*	7-1
AEN40	Wing Nut, Type B, Style 1	2-1	3-1	4-1	5-*	6-*	7-1
AEN41	Wing Nut, Type B, Style 2	2-1	3-1	4-1	5-*	6-*	7-1
AEN42	Wing Nut, Type C, Style 1	2-1	3-1	4-1	5-*	6-*	7-1
AEN43	Wing Nut, Type C, Style 2	2-1	3-1	4-1	5-*	6-*	7-1
AEN44	Wing Nut, Type C, Style 3	2-1	3-1	4-1	5-*	6-*	7-1
AEN45	Wing Nut, Type D, Style 1	2-1	3-1	4-1	5-*	6-*	7-1
AEN46	Wing Nut, Type D, Style 2 (Low Wing)	2-1	3-1	4-1	5-*	6-*	7-1
AEN47	Wing Nut, Type D, Style 3 (Large Base)	2-1	3-1	4-1	5-*	6-*	7-1
ASME B18.10	Track Bolts and Nuts (Inch Series)	Field 2	3	4	5	6	7
AEN24	Nuts, Track Bolt (Low Carbon)	2-1	3-1	4-1	5-*	6-*	7-13
AEN25	Nuts, Track Bolt (Medium Carbon)	2-1	3-1	4-1	5-*	6-*	7-13
ASME B18.16M	Metric Prevailing-Torque Type Steel Hex Nuts and Hex Flange Nuts	Field 2	3	4	5	6	7
AEN26	Nuts, Hex, Prevailing-Torque Type (All Metal)	2-1	3-3	4-2	5-8	6-*	7-1
AEN27	Nuts, Hex, Prevailing-Torque Type (Nonmetallic Prevailing Torque Element in Thread)	2-1	3-3	4-2	5-8	6-*	7-1
AEN28	Nuts, Hex, Prevailing-Torque Type (Top Insert)	2-1	3-3	4-2	5-8	6-*	7-1
AEN29	Nuts, Hex Flange, Prevailing-Torque Type (All Metal)	2-1	3-3	4-2	5-8	6-*	7-1
AEN30	Nuts, Hex Flange, Prevailing-Torque Type (Nonmetallic Prevailing Torque Element in Threads)	2-1	3-3	4-2	5-8	6-*	7-1
AEN31	Nuts, Hex Flange, Prevailing-Torque Type (Top Insert)	2-1	3-3	4-2	5-8	6-*	7-1
AEN32	Nuts, Hex, Prevailing Torque Type (All Metal), Class 9	2-1	3-3	4-2	5-*	6-*	7-1
AEN33	Nuts, Hex, Prevailing Torque Type (Nonmetallic Prevailing Torque Element in Threads), Class 5 and 10	2-1	3-3	4-2	5-*	6-*	7-1
AEN34	Nuts, Hex, Prevailing Torque Type (Top Insert), Class 9	2-1	3-3	4-2	5-*	6-*	7-1
ASME B18.16.4	Serrated Hex Flange Locknuts 90,000 psi (Inch Series)	Field 2	3	4	5	6	7
AEN49	Regular Serrated Hex Flange Locknuts	2-1	3-1	4-1	5-*	6-*	7-1
AEN50	Large Serrated Hex Flange Locknuts	2-1	3-1	4-1	5-*	6-*	7-1

**Table 1-1
Fastener Family and Type/Base PIN (Cont'd)**

Type/Base PIN	Fastener Family	Applicable Table References					
		Thread	Size	Lg/ Other	Material	Finish	Feature
Nuts (Cont'd)							
ASME B18.16.3M	Metric Prevailing Torque Type Steel Hex Nuts and Hex Flange Nuts	Field 2	3	4	5	6	7
AEN26	Nuts, Hex, Prevailing Torque Type (All Metal), Class 5 and 10	2-1	3-3	4-2	5-8	6*	7-1
AEN27	Nuts, Hex, Prevailing Torque Type (Nonmetallic Prevailing Torque Element in Thread), Class 5 and 10	2-1	3-3	4-2	5-8	6*	7-1
AEN28	Nuts, Hex, Prevailing Torque Type (Top Insert), Class 5 and 10	2-1	3-3	4-2	5-8	6*	7-1
AEN29	Nuts, Hex Flange, Prevailing Torque Type (All Metal)	2-1	3-3	4-2	5-8	6*	7-1
AEN30	Nuts, Hex Flange, Prevailing Torque Type (Nonmetallic Prevailing Torque Element in Threads)	2-1	3-3	4-2	5-8	6*	7-1
AEN31	Nuts, Hex Flange, Prevailing Torque Type (Top Insert)	2-1	3-3	4-2	5-8	6*	7-1
AEN32	Nuts, Hex, Prevailing Torque Type (All Metal), Class 9	2-1	3-3	4-2	5*	6*	7-1
AEN33	Nuts, Hex, Prevailing Torque Type (Nonmetallic Prevailing Torque Element in Threads), Class 5 and 10	2-1	3-3	4-2	5*	6*	7-1
AEN34	Nuts, Hex, Prevailing Torque Type (Top Insert), Class 9	2-1	3-3	4-2	5*	6*	7-1
ASME B18.16.4	Serrated Hex Flange Locknuts 90,000 psi (Inch Series)	Field 2	3	4	5	6	7
AEN49	Regular Serrated Hex Flange Locknuts	2-1	3-1	4-1	5-*	6-*	7-1
AEN50	Large Serrated Hex Flange Locknuts	2-1	3-1	4-1	5-*	6-*	7-1
ASME B18.16.3M	Metric Prevailing Torque Type Steel Hex Nuts and Hex Flange Nuts	Field 2	3	4	5	6	7
AEN26	Nuts, Hex, Prevailing Torque Type (All Metal), Class 5 and 10	2-1	3-3	4-2	5-8	6*	7-1
AEN27	Nuts, Hex, Prevailing Torque Type (Nonmetallic Prevailing Torque Element in Thread), Class 5 and 10	2-1	3-3	4-2	5-8	6*	7-1
AEN28	Nuts, Hex, Prevailing Torque Type (Top Insert), Class 5 and 10	2-1	3-3	4-2	5-8	6*	7-1
AEN29	Nuts, Hex Flange, Prevailing Torque Type (All Metal)	2-1	3-3	4-2	5-8	6*	7-1
AEN30	Nuts, Hex Flange, Prevailing Torque Type (Nonmetallic Prevailing Torque Element in Threads)	2-1	3-3	4-2	5-8	6*	7-1
AEN31	Nuts, Hex Flange, Prevailing Torque Type (Top Insert)	2-1	3-3	4-2	5-8	6*	7-1
AEN32	Nuts, Hex, Prevailing Torque Type (All Metal), Class 9	2-1	3-3	4-2	5*	6*	7-1
AEN33	Nuts, Hex, Prevailing Torque Type (Nonmetallic Prevailing Torque Element in Threads), Class 5 and 10	2-1	3-3	4-2	5*	6*	7-1
AEN34	Nuts, Hex, Prevailing Torque Type (Top Insert), Class 9	2-1	3-3	4-2	5*	6*	7-1
Pins							
ASME B18.8.1	Clevis Pins and Cotter Pins (Inch Series)	Field 2	3	4	5	6	7
AEP01	Pins, Clevis	2-1	3-2	4-5	5-*	6-*	7-1
AEP02	Pins, Cotter	2-1	3-2	4-1	5-*	6-*	7-7
ASME B18.8.2	Taper Pins, Dowel Pins, Straight Pins, Grooved Pins, and Spring Pins (Inch Series)	Field 2	3	4	5	6	7
AEP03	Pins, Taper, Commercial Class	2-1	3-19	4-1	5-*	6-*	7-1
AEP04	Pins, Taper, Precision Class	2-1	3-19	4-1	5-*	6-*	7-1
AEP05	Pins, Dowel, Hardened Ground Machine, Standard Series	2-1	3-2	4-1	5-*	6-*	7-1

**Table 1-1
Fastener Family and Type/Base PIN (Cont'd)**

		Applicable Table References					
Type/Base PIN	Fastener Family	Thread	Size	Lg/ Other	Material	Finish	Feature
Pins (Cont'd)							
ASME B18.8.2 (Cont'd)							
AEP06	Pins, Dowel, Hardened Ground Machine, Oversize Series	2-1	3-2	4-1	5-*	6-*	7-1
AEP07	Pins, Dowel, Hardened Ground Production	2-1	3-2	4-1	5-*	6-*	7-1
AEP08	Pins, Dowel, Unhardened Ground	2-1	3-2	4-1	5-*	6-*	7-1
AEP09	Pins, Straight, Chamfered and Square End	2-1	3-2	4-1	5-*	6-*	7-8
AEP10	Pins, Grooved, Low Carbon or Alloy Steel, Type A	2-1	3-2	4-1	5-*	6-*	7-1
AEP11	Pins, Grooved, Corrosion Resistant Steel and Monel, Type A	2-1	3-2	4-1	5-*	6-*	7-1
AEP12	Pins, Grooved, Low Carbon or Alloy Steel, Type E	2-1	3-2	4-1	5-*	6-*	7-1
AEP13	Pins, Grooved, Corrosion Resistant Steel and Monel, Type E	2-1	3-2	4-1	5-*	6-*	7-1
AEP14	Pins, Grooved, Low Carbon or Alloy Steel, Type F	2-1	3-2	4-1	5-*	6-*	7-1
AEP15	Pins, Grooved, Corrosion Resistant Steel and Monel, Type F	2-1	3-2	4-1	5-*	6-*	7-1
AEP16	Pins, Grooved, Low Carbon or Alloy Steel, Type G	2-1	3-2	4-1	5-*	6-*	7-1
AEP17	Pins, Grooved, Corrosion Resistant Steel and Monel, Type G	2-1	3-2	4-1	5-*	6-*	7-1
AEP18	Pins, Grooved, Low Carbon or Alloy Steel, Type H	2-1	3-2	4-1	5-*	6-*	7-1
AEP19	Pins, Grooved, Corrosion-Resistant Steel and Monel, Type H	2-1	3-2	4-1	5-*	6-*	7-1
AEP20	Pins, Round Head Grooved Drive Stud	2-1	3-18	4-1	5-*	6-*	7-1
AEP21	Pins, Grooved, T-Head Cotter	2-1	3-2	4-1	5-*	6-*	7-1
AEP22	Pins, Spring, Slotted Type	2-1	3-2	4-1	5-*	6-*	7-1
AEP23	Pins, Spring, Coiled Type, Standard Duty	2-1	3-2	4-1	5-*	6-*	7-1
AEP24	Pins, Spring, Coiled Type, Heavy Duty	2-1	3-2	4-1	5-*	6-*	7-1
AEP25	Pins, Spring, Coiled Type, Light Duty	2-1	3-2	4-1	5-*	6-*	7-1
ASME B18.8.100M	Spring Pins: Coiled Type, Spring Pins: Slotted, Machine Dowel Pins: Hardened Ground and Grooved Pins (Metric Series)	Field 2	3	4	5	6	7
AEP26	Pins, Spring, Coiled Type, Standard Duty	2-1	3-4	4-2	5-*	6-*	7-1
AEP27	Pins, Spring, Coiled Type, Heavy Duty	2-1	3-4	4-2	5-*	6-*	7-1
AEP28	Pins, Spring, Coiled Type, Light Duty	2-1	3-4	4-2	5-*	6-*	7-1
ASME B18.8.4M	Metric Spring Pins — Slotted	Field 2	3	4	5	6	7
AEP29	Pins, Spring, Slotted Type A	2-1	3-4	4-2	5-*	6-*	7-1
AEP30	Pins, Spring, Slotted Type B	2-1	3-4	4-2	5-*	6-*	7-1
ASME B18.8.5M	Metric Dowel Pins — Hardened Ground	Field 2	3	4	5	6	7
AEP31	Pins, Dowel, Machine, Hardened Ground, Standard Series	2-1	3-4	4-2	5-*	6-*	7-1
AEP32	Pins, Dowel, Machine, Hardened Ground, Oversize Series	2-1	3-4	4-2	5-*	6-*	7-1
AEP42	Pins, Grooved, Type 39	2-1	3-4	4-2	5-*	6-*	7-1
AEP43	Pins, Grooved, Type 40	2-1	3-4	4-2	5-*	6-*	7-1
AEP44	Pins, Grooved, Type 42	2-1	3-4	4-2	5-*	6-*	7-1
AEP45	Pins, Grooved, Type 43	2-1	3-4	4-2	5-*	6-*	7-1

**Table 1-1
Fastener Family and Type/Base PIN (Cont'd)**

		Applicable Table References					
Type/Base PIN	Fastener Family	Thread	Size	Lg/ Other	Material	Finish	Feature
Pins (Cont'd)							
ASME B18.8.5M	(Cont'd)						
AEP46	Pins, Grooved, Type 43-1	2-1	3-4	4-2	5-*	6-*	7-1
AEP47	Pins, Grooved, Type 43-2	2-1	3-4	4-2	5-*	6-*	7-1
AEP48	Pins, Grooved, Type 44	2-1	3-4	4-2	5-*	6-*	7-1
AEP49	Pins, Grooved, Type 45	2-1	3-4	4-2	5-*	6-*	7-1
AEP50	Pins, Grooved, Type 46-1	2-1	3-4	4-2	5-*	6-*	7-1
AEP51	Pins, Grooved, Type 46-2	2-1	3-4	4-2	5-*	6-*	7-1
AEP52	Pins, Grooved, Type 47-1	2-1	3-4	4-2	5-*	6-*	7-1
AEP53	Pins, Grooved, Type 47-2	2-1	3-4	4-2	5-*	6-*	7-1
ASME B18.8.200M	Cotter Pins, Headless Clevis Pins and Headed Clevis Pins (Metric Series)	Field 2	3	4	5	6	7
AEP33	Pins, Cotter	2-1	3-4	4-2	5-*	6-*	7-7
ASME B18.8.7M	Metric Headless Clevis Pins	Field 2	3	4	5	6	7
AEP34	Pins, Clevis, Headless, Type A Unhardened	2-1	3-4	4-2	5-*	6-*	7-1
AEP35	Pins, Clevis, Headless, Type A Hardened	2-1	3-4	4-2	5-*	6-*	7-1
AEP36	Pins, Clevis, Headless, Type B Unhardened	2-1	3-4	4-2	5-*	6-*	7-1
AEP37	Pins, Clevis, Headless, Type B Hardened	2-1	3-4	4-2	5-*	6-*	7-1
ASME B18.8.8M	Metric Headless Clevis Pins	Field 2	3	4	5	6	7
AEP38	Pins, Clevis, Headed, Type A Unhardened	2-1	3-4	4-2	5-*	6-*	7-1
AEP39	Pins, Clevis, Headed, Type A Hardened	2-1	3-4	4-2	5-*	6-*	7-1
AEP40	Pins, Clevis, Headed, Type B Unhardened	2-1	3-4	4-2	5-*	6-*	7-1
AEP41	Pins, Clevis, Headed, Type B Hardened	2-1	3-4	4-2	5-*	6-*	7-1
ASME B18.8.9M	Metric Grooved Pins	Field 2	3	4	5	6	7
AEP42	Pins, Grooved, Type 39	2-1	3-4	4-2	5-*	6-*	7-1
AEP43	Pins, Grooved, Type 40	2-1	3-4	4-2	5-*	6-*	7-1
AEP44	Pins, Grooved, Type 42	2-1	3-4	4-2	5-*	6-*	7-1
AEP45	Pins, Grooved, Type 43	2-1	3-4	4-2	5-*	6-*	7-1
AEP46	Pins, Grooved, Type 43-1	2-1	3-4	4-2	5-*	6-*	7-1
AEP47	Pins, Grooved, Type 43-2	2-1	3-4	4-2	5-*	6-*	7-1
AEP48	Pins, Grooved, Type 44	2-1	3-4	4-2	5-*	6-*	7-1
AEP49	Pins, Grooved, Type 45	2-1	3-4	4-2	5-*	6-*	7-1
AEP50	Pins, Grooved, Type 46-1	2-1	3-4	4-2	5-*	6-*	7-1
AEP51	Pins, Grooved, Type 46-2	2-1	3-4	4-2	5-*	6-*	7-1
AEP52	Pins, Grooved, Type 47-1	2-1	3-4	4-2	5-*	6-*	7-1
AEP53	Pins, Grooved, Type 47-2	2-1	3-4	4-2	5-*	6-*	7-1
Retaining Rings							
ASME B18.27	Tapered and Reduced Cross Section Retaining Rings (Inch Series)	Field 2	3	4	5	6	7
AER01	Retaining Rings, External Type NA1	2-1	3-20	4-1	5-*	6-*	7-1
AER02	Retaining Rings, Internal Type NA2	2-1	3-20	4-1	5-*	6-*	7-1
AER03	Retaining Rings, E-Ring Type NA3	2-1	3-20	4-1	5-*	6-*	7-1

**Table 1-1
Fastener Family and Type/Base PIN (Cont'd)**

		Applicable Table References					
Type/Base PIN	Fastener Family	Thread	Size	Lg/ Other	Material	Finish	Feature
Retaining Rings (Cont'd)							
ASME B18.27.2	Tapered and Reduced Cross Section Retaining Rings (Inch Series)	Field 2	3	4	5	6	7
AER04	Retaining Rings, Heavy Duty External Type NA4	2-1	3-20	4-1	5-*	6-*	7-1
AER05	Retaining Rings, Reinforced E-Rings Type NA5	2-1	3-20	4-1	5-*	6-*	7-1
AER06	Retaining Rings, C-Type NA6	2-1	3-20	4-1	5-*	6-*	7-1
ASME B18.27.3	Tapered and Reduced Cross Section Retaining Rings (Inch Series)	Field 2	3	4	5	6	7
AER07	Retaining Rings, Bowed External Rings NA7	2-1	3-20	4-1	5-*	6-*	7-1
AER08	Retaining Rings, Bowed Internal Rings NA8	2-1	3-20	4-1	5-*	6-*	7-1
AER09	Retaining Rings, Bowed External E-Rings NA9	2-1	3-20	4-1	5-*	6-*	7-1
ASME B18.27.4	Tapered and Reduced Cross Section Retaining Rings (Inch Series)	Field 2	3	4	5	6	7
AER10	Retaining Rings, Inverted External NA10	2-1	3-20	4-1	5-*	6-*	7-1
AER11	Retaining Rings, Inverted Internal NA11	2-1	3-20	4-1	5-*	6-*	7-1
AER12	Retaining Rings, Beveled External NA12	2-1	3-20	4-1	5-*	6-*	7-1
AER13	Retaining Rings, Beveled Internal NA13	2-1	3-20	4-1	5-*	6-*	7-1
ASME B18.27.5	Tapered and Reduced Cross Section Retaining Rings (Inch Series)	Field 2	3	4	5	6	7
AER14	Retaining Rings, External Self-Locking Rings Type NA14	2-1	3-20	4-1	5-*	6-*	7-1
AER15	Retaining Rings, External Interlocking Rings Type NA15	2-1	3-20	4-1	5-*	6-*	7-1
AER16	Retaining Rings, External Bowed Locking Prongs Rings Type NA16	2-1	3-20	4-1	5-*	6-*	7-1
ASME B27.6	General Purpose Uniform Cross Section Spiral Retaining Rings (Inch Series)	Field 2	3	4	5	6	7
AER17	Retaining Rings, GP Uniform Cross Section Spiral, Light Duty External Type	2-1	3-21	4-1	5-*	6-*	7-1
AER18	Retaining Rings, GP Uniform Cross Section Spiral, Heavy Duty External Type	2-1	3-21	4-1	5-*	6-*	7-1
AER19	Retaining Rings, GP Uniform Cross Section Spiral, Light Duty Internal Type	2-1	3-21	4-1	5-*	6-*	7-1
AER20	Retaining Rings, GP Uniform Cross Section Spiral, Heavy Duty Internal Type	2-1	3-21	4-1	5-*	6-*	7-1
ASME B27.7	Metric Tapered and Reduced Cross Section Retaining Rings	Field 2	3	4	5	6	7
AER21	Retaining Rings, GP Tapered and Reduced Cross Section, Basic External Series Type 3AM1	2-1	3-20	4-2	5-*	6-*	7-1
AER22	Retaining Rings, GP Tapered and Reduced Cross Section, Basic Internal Series Type 3BM1	2-1	3-20	4-2	5-*	6-*	7-1
AER23	Retaining Rings, GP Tapered and Reduced Cross Section, E-Ring External Series Type 3CM1	2-1	3-20	4-2	5-*	6-*	7-1

**Table 1-1
Fastener Family and Type/Base PIN (Cont'd)**

		Applicable Table References					
Type/Base PIN	Fastener Family	Thread	Size	Lg/ Other	Material	Finish	Feature
Retaining Rings (Cont'd)							
ASME B27.8	Metric Tapered and Reduced Cross Section Retaining Rings	Field 2	3	4	5	6	7
AER24	Retaining Rings, GP Tapered and Reduced Cross Section, Heavy Duty 1 Ring External Series Type 3DM1	2-1	3-20	4-2	5-*	6-*	7-1
AER25	Retaining Rings, GP Tapered and Reduced Cross Section, Reinforced 1 E-Ring External Series Type 3EM1	2-1	3-20	4-2	5-*	6-*	7-1
AER26	Retaining Rings, GP Tapered and Reduced Cross Section, C-Ring External Series Type 3FM1	2-1	3-20	4-2	5-*	6-*	7-1
Screws							
ASME B18.2.1	Square and Hex Bolts and Screws (Inch Series)	Field 2	3	4	5	6	7
AES01	Screws, Cap, Hex (Finished Hex Bolt)	2-1	3-1	4-1	5-*	6-*	7-2
AES02	Screws, Hex, Heavy	2-1	3-1	4-1	5-*	6-*	7-2
AESA0	Screws, Hex Flange	2-1	3-1	4-1	5-*	6-*	7-2
AESA1	Screws, Lobed Head	2-1	3-1	4-1	5-*	6-*	7-2
AES03	Screws, Lag, Square Head, Gimlet Point	2-1	3-13	4-1	5-*	6-*	7-1
AES04	Screws, Lag, Square Head, Cone Point	2-1	3-13	4-1	5-*	6-*	7-1
AES05	Screws, Lag, Hex Head, Gimlet Point	2-1	3-13	4-1	5-*	6-*	7-1
AES06	Screws, Lag, Hex Head, Cone Point	2-1	3-13	4-1	5-*	6-*	7-1
ASME B18.2.3.1M	Metric Hex Cap Screws	Field 2	3	4	5	6	7
AES07	Screws, Cap, Hex	2-1	3-3	4-2	5-*	6-*	7-2
ASME B18.2.3.2M	Metric Formed Hex Screws	Field 2	3	4	5	6	7
AES08	Screws, Hex, Formed	2-1	3-3	4-2	5-*	6-*	7-2
ASME B18.2.3.3M	Metric Heavy Hex Screws	Field 2	3	4	5	6	7
AES09	Screws, Hex, Heavy	2-1	3-3	4-2	5-*	6-*	7-2
ASME B18.2.3.4M	Metric Hex Flange Screws	Field 2	3	4	5	6	7
AES10	Screws, Hex, Flange 2-1	2-1	3-3	4-2	5-*	6-*	7-4
ASME B18.2.3.8M	Metric Hex Lag Screws	Field 2	3	4	5	6	7
AES11	Screws, Lag, Hex Head, Gimlet Point	2-1	3-4	4-2	5-*	6-*	7-1
ASME B18.2.3.9M	Metric Heavy Hex Flange Screws	Field 2	3	4	5	6	7
AES12	Screws, Heavy Hex, Flange	2-1	3-3	4-2	5-*	6-*	7-4
ASME B18.2.5M	Metric 12-Point Flange Screws	Field 2	3	4	5	6	7
AESA2	Screws, 12-Point, Flange	2-1	3-3	4-2	5-*	6-*	7-4
ASME B18.2.7.1M	Metric 12-Spline Flange Screws	Field 2	3	4	5	6	7
AES13	Screws, 12-Spline, Flange	2-1	3-3	4-2	5-*	6-*	7-5

**Table 1-1
Fastener Family and Type/Base PIN (Cont'd)**

		Applicable Table References					
Type/Base PIN	Fastener Family	Thread	Size	Lg/ Other	Material	Finish	Feature
Screws (Cont'd)							
ASME B18.3	Socket Cap, Shoulder, and Set Screws, Hex and Spline Keys (Inch Series)	Field 2	3	4	5	6	7
AES14	Screws, Cap, Hex Socket Head	2-1	3-1	4-1	5-*	6-*	7-11
AES15	Screws, Cap, Spline Socket Head	2-1	3-1	4-1	5-*	6-*	7-2
AESA4	Screws, Cap, Hex Socket Low Head	2-1	3-1	4-1	5-*	6-*	7-2
AES16	Screws, Cap, Hex Socket, Flat Countersunk Head	2-1	3-1	4-1	5-*	6-*	7-2
AES17	Screws, Cap, Spline Socket, Flat Countersunk Head	2-1	3-1	4-1	5-*	6-*	7-2
AES18	Screws, Cap, Hex Socket, Button Head	2-1	3-1	4-1	5-*	6-*	7-2
AES19	Screws, Cap, Spline Socket, Button Head	2-1	3-1	4-1	5-*	6-*	7-2
AES20	Screws, Shoulder, Hex Socket Head	2-1	3-8	4-1	5-*	6-*	7-2
AES21	Screws, Set, Spline Socket, Cup Point Type, A	2-1	3-10	4-1	5-*	6-*	7-12
AES22	Screws, Set, Spline Socket, Small Cup Point, Type B	2-1	3-10	4-1	5-*	6-*	7-12
AES23	Screws, Set, Spline Socket, Knurled Cup Point, Type C	2-1	3-10	4-1	5-*	6-*	7-12
AES24	Screws, Set, Spline Socket, Hexagon Cup Point, Type D	2-1	3-10	4-1	5-*	6-*	7-12
AES25	Screws, Set, Spline Socket, W Cup Point, Type E	2-1	3-10	4-1	5-*	6-*	7-12
AES26	Screws, Set, Spline Socket, Nu-Cup Point, Type F	2-1	3-10	4-1	5-*	6-*	7-12
AES27	Screws, Set, Spline Socket, Nu-Cup Point, Type G	2-1	3-10	4-1	5-*	6-*	7-12
AES28	Screws, Set, Spline Socket, Cone Point	2-1	3-10	4-1	5-*	6-*	7-12
AES29	Screws, Set, Spline Socket, Flat Point	2-1	3-10	4-1	5-*	6-*	7-12
AES30	Screws, Set, Spline Socket, Half Dog Point	2-1	3-10	4-1	5-*	6-*	7-12
AES31	Screws, Set, Spline Socket, Oval Point	2-1	3-10	4-1	5-*	6-*	7-12
AES32	Screws, Set, Hex Socket, Cup Point, Type A	2-1	3-1	4-1	5-*	6-*	7-12
AES33	Screws, Set, Hex Socket, Small Cup Point, Type B	2-1	3-1	4-1	5-*	6-*	7-12
AES34	Screws, Set, Hex Socket, Knurled Cup Point, Type C	2-1	3-1	4-1	5-*	6-*	7-12
AES35	Screws, Set, Hex Socket, Hexagon Cup Point, Type D	2-1	3-1	4-1	5-*	6-*	7-12
AES36	Screws, Set, Hex Socket, W Cup Point, Type E	2-1	3-1	4-1	5-*	6-*	7-12
AES37	Screws, Set, Hex Socket, Nu-Cup Point, Type F	2-1	3-1	4-1	5-*	6-*	7-12
AES38	Screws, Set, Hex Socket, Nu-Cup Point, Type G	2-1	3-1	4-1	5-*	6-*	7-12
AES39	Screws, Set, Hex Socket, Cone Point	2-1	3-1	4-1	5-*	6-*	7-12
AES40	Screws, Set, Hex Socket, Flat Point	2-1	3-1	4-1	5-*	6-*	7-12
AES41	Screws, Set, Hex Socket, Half Dog Point	2-1	3-1	4-1	5-*	6-*	7-12
AES42	Screws, Set, Hex Socket, Oval Point	2-1	3-1	4-1	5-*	6-*	7-12
ASME B18.3.1M	Metric Socket Head Cap Screws	Field 2	3	4	5	6	7
AES43	Screws, Cap, Hex Socket Head	2-1	3-3	4-2	5-*	6-*	7-11
AES44	Screws, Cap, Spline Socket Head	2-1	3-3	4-2	5-*	6-*	7-2
ASME B18.3.3M	Metric Hexagon Socket Head Shoulder Screws	Field 2	3	4	5	6	7
AES45	Screws, Shoulder, Hex Socket	2-1	3-9	4-2	5-*	6-*	7-2
ASME B18.3.4M	Metric Socket Button Head Cap Screws	Field 2	3	4	5	6	7
AES46	Screws, Cap, Hex Socket, Button Head	2-1	3-3	4-2	5-*	6-*	7-2

**Table 1-1
Fastener Family and Type/Base PIN (Cont'd)**

		Applicable Table References					
Type/Base PIN	Fastener Family	Thread	Size	Lg/ Other	Material	Finish	Feature
Screws (Cont'd)							
ASME B18.3.5M	Metric Hexagon Socket Flat Countersunk Head Cap Screws	Field 2	3	4	5	6	7
AES47	Screws, Cap, Hex Socket Flat Countersunk Head	2-1	3-3	4-2	5-*	6-*	7-2
ASME B18.3.6M	Metric Socket Set Screws	Field 2	3	4	5	6	7
AES48	Screws, Set, Spline Socket, Cup Point, Type I	2-1	3-3	4-2	5-*	6-*	7-12
AES49	Screws, Set, Spline Socket, Cup Point, Type II	2-1	3-3	4-2	5-*	6-*	7-12
AES50	Screws, Set, Spline Socket, Cup Point, Type III	2-1	3-3	4-2	5-*	6-*	7-12
AES51	Screws, Set, Spline Socket, Cup Point, Type IV	2-1	3-3	4-2	5-*	6-*	7-12
AES52	Screws, Set, Spline Socket, Cup Point, Type V	2-1	3-3	4-2	5-*	6-*	7-12
AES53	Screws, Set, Spline Socket, Cone Point	2-1	3-3	4-2	5-*	6-*	7-12
AES54	Screws, Set, Spline Socket, Flat Point	2-1	3-3	4-2	5-*	6-*	7-12
AES55	Screws, Set, Spline Socket, Half Dog Point	2-1	3-3	4-2	5-*	6-*	7-12
AES56	Screws, Set, Spline Socket, Oval Point	2-1	3-3	4-2	5-*	6-*	7-12
AES57	Screws, Set, Hex Socket, Cup Point, Type I	2-1	3-3	4-2	5-*	6-*	7-12
AES58	Screws, Set, Hex Socket, Cup Point, Type II	2-1	3-3	4-2	5-*	6-*	7-12
AES59	Screws, Set, Hex Socket, Cup Point, Type III	2-1	3-3	4-2	5-*	6-*	7-12
AES60	Screws, Set, Hex Socket, Cup Point, Type IV	2-1	3-3	4-2	5-*	6-*	7-12
AES61	Screws, Set, Hex Socket, Cup Point, Type V	2-1	3-3	4-2	5-*	6-*	7-12
AES62	Screws, Set, Hex Socket, Cone Point	2-1	3-3	4-2	5-*	6-*	7-12
AES63	Screws, Set, Hex Socket, Flat Point	2-1	3-3	4-2	5-*	6-*	7-12
AES64	Screws, Set, Hex Socket, Half Dog Point	2-1	3-3	4-2	5-*	6-*	7-12
AES65	Screws, Set, Hex Socket, Oval Point	2-1	3-3	4-2	5-*	6-*	7-12
ASME B18.6.1	Wood Screws (Inch Series)	Field 2	3	4	5	6	7
AES66	Screws, Wood, Flat Head, Slotted	2-1	3-12	4-1	5-*	6-*	7-10
AES67	Screws, Wood, Flat Head, Type I Cross Recess	2-1	3-12	4-1	5-*	6-*	7-10
AES68	Screws, Wood, Flat Head, Type IA Cross Recess	2-1	3-12	4-1	5-*	6-*	7-10
AES69	Screws, Wood, Flat Head, Type II Cross Recess	2-1	3-12	4-1	5-*	6-*	7-10
AES70	Screws, Wood, Oval Head, Slotted	2-1	3-12	4-1	5-*	6-*	7-10
AES71	Screws, Wood, Oval Head, Type I Cross Recess	2-1	3-12	4-1	5-*	6-*	7-10
AES72	Screws, Wood, Oval Head, Type IA Cross Recess	2-1	3-12	4-1	5-*	6-*	7-10
AES73	Screws, Wood, Oval Head, Type II Cross Recess	2-1	3-12	4-1	5-*	6-*	7-10
AES74	Screws, Wood, Pan Head, Slotted	2-1	3-12	4-1	5-*	6-*	7-10
AES75	Screws, Wood, Pan Head, Type I Cross Recess	2-1	3-12	4-1	5-*	6-*	7-10
AES76	Screws, Wood, Pan Head, Type IA Cross Recess	2-1	3-12	4-1	5-*	6-*	7-10
AES77	Screws, Wood, Pan Head, Type II Cross Recess	2-1	3-12	4-1	5-*	6-*	7-10
ASME B18.6.2	Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws (Inch Series)	Field 2	3	4	5	6	7
AES78	Screws, Cap, Flat Countersunk Head, Slotted	2-1	3-1	4-1	5-*	6-*	7-2
AES79	Screws, Cap, Round Head, Slotted	2-1	3-1	4-1	5-*	6-*	7-2
AES80	Screws, Cap, Fillister Head, Slotted	2-1	3-1	4-1	5-*	6-*	7-2
AES81	Screws, Set, Square Head, Cup Point	2-1	3-1	4-1	5-*	6-*	7-12
AES82	Screws, Set, Square Head, Cone Point	2-1	3-1	4-1	5-*	6-*	7-12
AES83	Screws, Set, Square Head, Flat Point	2-1	3-1	4-1	5-*	6-*	7-12

**Table 1-1
Fastener Family and Type/Base PIN (Cont'd)**

		Applicable Table References					
Type/Base PIN	Fastener Family	Thread	Size	Lg/ Other	Material	Finish	Feature
Screws (Cont'd)							
ASME B18.6.2 (Cont'd)							
AES84	Screws, Set, Square Head, Half Dog Point	2-1	3-1	4-1	5-*	6-*	7-12
AES85	Screws, Set, Square Head, Full Dog Point	2-1	3-1	4-1	5-*	6-*	7-12
AES86	Screws, Set, Square Head, Oval Point	2-1	3-1	4-1	5-*	6-*	7-12
AES87	Screws, Set, Square Head, Optional Relieved Neck, Cup Point	2-1	3-1	4-1	5-*	6-*	7-12
AES88	Screws, Set, Square Head, Optional Relieved Neck, Cone Point	2-1	3-1	4-1	5-*	6-*	7-12
AES89	Screws, Set, Square Head, Optional Relieved Neck, Flat Point	2-1	3-1	4-1	5-*	6-*	7-12
AES90	Screws, Set, Square Head, Optional Relieved Neck, Half Dog Point	2-1	3-1	4-1	5-*	6-*	7-12
AES91	Screws, Set, Square Head, Optional Relieved Neck, Full Dog Point	2-1	3-1	4-1	5-*	6-*	7-12
AES92	Screws, Set, Square Head, Optional Relieved Neck, Oval Point	2-1	3-1	4-1	5-*	6-*	7-12
AES93	Screws, Set, Slotted Headless, Cup Point	2-1	3-1	4-1	5-*	6-*	7-12
AES94	Screws, Set, Slotted Headless, Cone Point	2-1	3-1	4-1	5-*	6-*	7-12
AES95	Screws, Set, Slotted Headless, Flat Point	2-1	3-1	4-1	5-*	6-*	7-12
AES96	Screws, Set, Slotted Headless, Half Dog Point	2-1	3-1	4-1	5-*	6-*	7-12
AES97	Screws, Set, Slotted Headless, Full Dog Point	2-1	3-1	4-1	5-*	6-*	7-12
AES98	Screws, Set, Slotted Headless, Oval Point	2-1	3-1	4-1	5-*	6-*	7-12
ASME B18.6.3	Machine Screws, Tapping Screws and Metallic Drive Screws (Inch Series)	Field 2	3	4	5	6	7
AESC0	Screws, Machine, Flat Head, Slotted	2-1	3-1	4-1	5-10	6-*	7-2
AESC1	Screws, Machine, Flat Head, Type I Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESC2	Screws, Machine, Flat Head, Type IA Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESC3	Screws, Machine, Flat Head, Type II Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESC4	Screws, Machine, Flat Head, Type III Square Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESB1	Screws, Machine, Flat Head, Type VI Six-Lobe Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESC5	Screws, Machine, Flat Head, 100 deg, Slotted	2-1	3-1	4-1	5-10	6-*	7-2
AESC6	Screws, Machine, Flat Head, 100 deg, Type I Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESC7	Screws, Machine, Flat Head, 100 deg, Type IA Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESC8	Screws, Machine, Flat Head, 100 deg, Type II Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESC9	Screws, Machine, Flat Head, Close Tolerance, 100 deg, Slotted	2-1	3-1	4-1	5-10	6-*	7-2
AESD0	Screws, Machine, Flat Head, Close Tolerance, 100 deg, Type I Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESD1	Screws, Machine, Flat Head, Close Tolerance, 100 deg, Type IA Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESD2	Screws, Machine, Flat Head, Close Tolerance, 100 deg, Type II Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESD3	Screws, Machine, Oval Head, Slotted	2-1	3-1	4-1	5-10	6-*	7-2
AESD4	Screws, Machine, Oval Head, Type I Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESD5	Screws, Machine, Oval Head, Type IA Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2

**Table 1-1
Fastener Family and Type/Base PIN (Cont'd)**

Type/Base PIN	Fastener Family	Applicable Table References					
		Thread	Size	Lg/ Other	Material	Finish	Feature
Screws (Cont'd)							
ASME B18.6.3 (Cont'd)							
AESD6	Screws, Machine, Oval Head, Type II Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESD7	Screws, Machine, Oval Head, Type III Square Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESB2	Screws, Machine, Oval Head, Type VI Six-Lobe Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESD8	Screws, Machine, Flat Head, Undercut, Slotted	2-1	3-1	4-1	5-10	6-*	7-2
AESD9	Screws, Machine, Flat Head, Undercut, Type I Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESE0	Screws, Machine, Flat Head, Undercut, Type IA Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESE1	Screws, Machine, Flat Head, Undercut, Type II Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESE2	Screws, Machine, Flat Head, Undercut, Type III Square Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESE3	Screws, Machine, Oval Undercut Head, Slotted	2-1	3-1	4-1	5-10	6-*	7-2
AESE4	Screws, Machine, Oval Undercut Head, Type I Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESE5	Screws, Machine, Oval Undercut Head, Type IA Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESE6	Screws, Machine, Oval Undercut Head, Type II Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESE7	Screws, Machine, Oval Undercut Head, Type III Square Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESE8	Screws, Machine, Flat Trim Head, Type I Cross Recess	2-1	3-11	4-1	5-10	6-*	7-2
AESE9	Screws, Machine, Flat Trim Head, Type IA Cross Recess	2-1	3-11	4-1	5-10	6-*	7-2
AESF0	Screws, Machine, Flat Trim Head, Type II Cross Recess	2-1	3-11	4-1	5-10	6-*	7-2
AESF1	Screws, Machine, Oval Trim Head, Type I Cross Recess	2-1	3-11	4-1	5-10	6-*	7-2
AESF2	Screws, Machine, Oval Trim Head, Type IA Cross Recess	2-1	3-11	4-1	5-10	6-*	7-2
AESF3	Screws, Machine, Oval Trim Head, Type II Cross Recess	2-1	3-11	4-1	5-10	6-*	7-2
AESF4	Screws, Machine, Pan Head, Slotted	2-1	3-1	4-1	5-10	6-*	7-2
AESF5	Screws, Machine, Pan Head, Type I Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESF6	Screws, Machine, Pan Head, Type IA Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESF7	Screws, Machine, Pan Head, Type II Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESF8	Screws, Machine, Pan Head, Type III Square Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESB3	Screws, Machine, Pan Head, Type VI Six-Lobe Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESF9	Screws, Machine, Pan Head, Type I Cross Recess With Slot	2-1	3-1	4-1	5-10	6-*	7-2
AESG0	Screws, Machine, Pan Head, Type IA Cross Recess With Slot	2-1	3-1	4-1	5-10	6-*	7-2
AESG1	Screws, Machine, Pan Head, Type III Square Recess With Slot	2-1	3-1	4-1	5-10*	6-*	7-2
AESG2	Screws, Machine, Fillister Head, Slotted	2-1	3-1	4-1	5-10	6-*	7-2
AESG3	Screws, Machine, Fillister Head, Type I Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESG4	Screws, Machine, Fillister Head, Type IA Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESG5	Screws, Machine, Fillister Head, Type II Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESG6	Screws, Machine, Fillister Head, Type III Square Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESB4	Screws, Machine, Fillister Head, Type VI Six-Lobe Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESG7	Screws, Machine, Fillister Head, Slotted and Drilled	2-1	3-1	4-1	5-10	6-*	7-2

**Table 1-1
Fastener Family and Type/Base PIN (Cont'd)**

Type/Base PIN	Fastener Family	Applicable Table References					
		Thread	Size	Lg/ Other	Material	Finish	Feature
Screws (Cont'd)							
ASME B18.6.3 (Cont'd)							
AESG8	Screws, Machine, Truss Head, Slotted	2-1	3-1	4-1	5-10	6-*	7-2
AESG9	Screws, Machine, Truss Head, Type I Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESH0	Screws, Machine, Truss Head, Type IA Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESH1	Screws, Machine, Truss Head, Type II Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESH2	Screws, Machine, Truss Head, Type III Square Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESB5	Screws, Machine, Truss Head, Type VI Six-Lobe Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESH3	Screws, Machine, Truss Head, Type I Cross Recess With Slot	2-1	3-1	4-1	5-10	6-*	7-2
AESH4	Screws, Machine, Truss Head, Type III Square Recess With Slot	2-1	3-1	4-1	5-10	6-*	7-2
AESH5	Screws, Machine, Binding Head, Slotted	2-1	3-1	4-1	5-10	6-*	7-2
AESH6	Screws, Machine, Binding Head, Type I Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESH7	Screws, Machine, Binding Head, Type IA Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESH8	Screws, Machine, Binding Head, Type II Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESH9	Screws, Machine, Binding Head, Type III Square Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESJ0	Screws, Machine, Regular Hex Head, Indented, Unslotted	2-1	3-1	4-1	5-10	6-*	7-2
AESJ1	Screws, Machine, Regular Hex Head, Indented, Slotted	2-1	3-1	4-1	5-10	6-*	7-2
AESJ2	Screws, Machine, Regular Hex Head, Trimmed, Unslotted	2-1	3-1	4-1	5-10	6-*	7-2
AESJ3	Screws, Machine, Regular Hex Head, Trimmed, Slotted	2-1	3-1	4-1	5-10	6-*	7-2
AESJ4	Screws, Machine, Regular Hex Head, Fully Upset, Unslotted	2-1	3-1	4-1	5-10	6-*	7-2
AESJ5	Screws, Machine, Regular Hex Head, Fully Upset, Slotted	2-1	3-1	4-1	5-10	6-*	7-2
AESJ6	Screws, Machine, Large Hex Head, Indented, Unslotted	2-1	3-1	4-1	5-10	6-*	7-2
AESJ7	Screws, Machine, Large Hex Head, Indented, Slotted	2-1	3-1	4-1	5-10	6-*	7-2
AESJ8	Screws, Machine, Large Hex Head, Trimmed, Unslotted	2-1	3-1	4-1	5-10	6-*	7-2
AESJ9	Screws, Machine, Large Hex Head, Trimmed, Slotted	2-1	3-1	4-1	5-10	6-*	7-2
AESK0	Screws, Machine, Large Hex Head, Fully Upset, Unslotted	2-1	3-1	4-1	5-10	6-*	7-2
AESK1	Screws, Machine, Large Hex Head, Fully Upset, Slotted	2-1	3-1	4-1	5-10	6-*	7-2
AESK2	Screws, Machine, Regular Hex Head, Indented, Type I Recess	2-1	3-1	4-1	5-10	6-*	7-2
AES1B	Screws, Machine, Regular Hex Head, Indented, Type VI Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESK3	Screws, Machine, Regular Hex Head, Trimmed, Type I Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESK4	Screws, Machine, Regular Hex Head, Fully Upset, Type I Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESK5	Screws, Machine, Large Hex Head, Indented, Type I Recess	2-1	3-1	4-1	5-10	6-*	7-2
AES1C	Screws, Machine, Large Hex Head, Indented, Type VI Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESK6	Screws, Machine, Large Hex Head, Trimmed, Type I Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESK7	Screws, Machine, Large Hex Head, Fully Upset, Type I Recess	2-1	3-1	4-1	5-10	6-*	7-2

**Table 1-1
Fastener Family and Type/Base PIN (Cont'd)**

		Applicable Table References					
Type/Base PIN	Fastener Family	Thread	Size	Lg/ Other	Material	Finish	Feature
Screws (Cont'd)							
ASME B18.6.3 (Cont'd)							
AESK8	Screws, Machine, Hex Washer Head, Indented, Unslotted	2-1	3-1	4-1	5-10	6-*	7-2
AESK9	Screws, Machine, Hex Washer Head, Indented, Slotted	2-1	3-1	4-1	5-10	6-*	7-2
AESL0	Screws, Machine, Hex Washer Head, Indented, Type I Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESL1	Screws, Machine, Hex Washer Head, Indented, Type I Cross Recess With Slot	2-1	3-1	4-1	5-10	6-*	7-2
AES1D	Screws, Machine, Hex Washer Head, Indented, Type VI Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESL2	Screws, Machine, Round Washer Head, Slotted	2-1	3-1	4-1	5-10	6-*	7-2
AESL3	Screws, Machine, Round Washer Head, Type I Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESB6	Screws, Machine, Round Washer Head, Type VI Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESL4	Screws, Machine, Round Head, Slotted	2-1	3-1	4-1	5-10	6-*	7-2
AESL5	Screws, Machine, Round Head, Type I Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESL6	Screws, Machine, Round Head, Type IA Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESL7	Screws, Machine, Round Head, Type II Cross Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESL8	Screws, Machine, Round Head, Type III Square Recess	2-1	3-1	4-1	5-10	6-*	7-2
AESL9	Screws, Machine, Round Head, Type I Cross Recess With Slot	2-1	3-1	4-1	5-10	6-*	7-2
AESM0	Screws, Machine, Round Head, Type IA Cross Recess With Slot	2-1	3-1	4-1	5-10	6-*	7-2
ASME B18.6.4 Thread Forming and Thread-Cutting Tapping Screws and Metallic Drive Screws (Inch Series)		Field 2	3	4	5	6	7
AESM1	Screws, Tapping, Flat Head, Slotted	2-2	3-6	4-1	5-10	6-*	7-1
AESM2	Screws, Tapping, Flat Head, Type I Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESM3	Screws, Tapping, Flat Head, Type IA Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESM4	Screws, Tapping, Flat Head, Type II Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESM6	Screws, Tapping, 100 deg, Flat Head, Slotted	2-2	3-6	4-1	5-10	6-*	7-1
AESM7	Screws, Tapping, 100 deg, Flat Head, Type I Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESM8	Screws, Tapping, 100 deg, Flat Head, Type IA Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESM9	Screws, Tapping, 100 deg, Flat Head, Type II Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESB7	Screws, Tapping, Flat Head, Type VI Six-Lobe Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESN0	Screws, Tapping, Oval Head, Slotted	2-2	3-6	4-1	5-10	6-*	7-1
AESN1	Screws, Tapping, Oval Head, Type I Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESN2	Screws, Tapping, Oval Head, Type IA Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESN3	Screws, Tapping, Oval Head, Type II Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESN5	Screws, Tapping, Flat Head, Undercut, Slotted	2-2	3-6	4-1	5-10	6-*	7-1
AESN6	Screws, Tapping, Flat Head, Undercut, Type I Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESN7	Screws, Tapping, Flat Head, Undercut, Type IA Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESN8	Screws, Tapping, Flat Head, Undercut, Type II Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESP0	Screws, Tapping, Oval Undercut Head, Slotted	2-2	3-6	4-1	5-10	6-*	7-1

**Table 1-1
Fastener Family and Type/Base PIN (Cont'd)**

		Applicable Table References					
Type/Base PIN	Fastener Family	Thread	Size	Lg/ Other	Material	Finish	Feature
Screws (Cont'd)							
ASME B18.6.4	(Cont'd)						
AESP1	Screws, Tapping, Oval Undercut Head, Type I Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESP2	Screws, Tapping, Oval Undercut Head, Type IA Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESB8	Screws, Tapping, Oval Head, Type VI Six-Lobe Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESP3	Screws, Tapping, Oval Undercut Head, Type II Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESP5	Screws, Tapping, Flat Trim Head, Type I Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESP6	Screws, Tapping, Flat Trim Head, Type IA Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESP7	Screws, Tapping, Flat Trim Head, Type II Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESP8	Screws, Tapping, Oval Trim Head, Type I Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESP9	Screws, Tapping, Oval Trim Head, Type IA Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESQ0	Screws, Tapping, Oval Trim Head, Type II Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESQ1	Screws, Tapping, Pan Head, Slotted	2-2	3-6	4-1	5-10	6-*	7-1
AESQ2	Screws, Tapping, Pan Head, Type I Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESQ3	Screws, Tapping, Pan Head, Type IA Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESQ4	Screws, Tapping, Pan Head, Type II Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESB9	Screws, Tapping, Pan Head, Type VI Six-Lobe Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESQ9	Screws, Tapping, Fillister Head, Slotted	2-2	3-6	4-1	5-10	6-*	7-1
AESR0	Screws, Tapping, Fillister Head, Type I Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESR1	Screws, Tapping, Fillister Head, Type IA Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESR2	Screws, Tapping, Fillister Head, Type II Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AES1A	Screws, Tapping, Fillister Head, Type VI Six-Lobe Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESR4	Screws, Tapping, Truss Head, Slotted	2-2	3-6	4-1	5-10	6-*	7-1
AESR5	Screws, Tapping, Truss Head, Type I Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESR6	Screws, Tapping, Truss Head, Type IA Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESR7	Screws, Tapping, Truss Head, Type II Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AES2K	Screws, Tapping, Truss Head, Type VI Six-Lobe Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESS1	Screws, Tapping, Regular Hex Head, Indented, Unslotted	2-2	3-6	4-1	5-10	6-*	7-1
AESS2	Screws, Tapping, Regular Hex Head, Indented, Slotted	2-2	3-6	4-1	5-10	6-*	7-1
AESS3	Screws, Tapping, Regular Hex Head, Trimmed, Unslotted	2-2	3-6	4-1	5-10	6-*	7-1
AESS4	Screws, Tapping, Regular Hex Head, Trimmed, Slotted	2-2	3-6	4-1	5-10	6-*	7-1
AESS5	Screws, Tapping, Regular Hex Head, Fully Upset, Unslotted	2-2	3-6	4-1	5-10	6-*	7-1
AESS6	Screws, Tapping, Regular Hex Head, Fully Upset, Slotted	2-2	3-6	4-1	5-10	6-*	7-1
AESS7	Screws, Tapping, Large Hex Head, Indented, Unslotted	2-2	3-6	4-1	5-10	6-*	7-1
AESS8	Screws, Tapping, Large Hex Head, Indented, Slotted	2-2	3-6	4-1	5-10	6-*	7-1
AESS9	Screws, Tapping, Large Hex Head, Trimmed, Unslotted	2-2	3-6	4-1	5-10	6-*	7-1
AEST0	Screws, Tapping, Large Hex Head, Trimmed, Slotted	2-2	3-6	4-1	5-10	6-*	7-1
AEST1	Screws, Tapping, Large Hex Head, Fully Upset, Unslotted	2-2	3-6	4-1	5-10	6-*	7-1
AEST2	Screws, Tapping, Large Hex Head, Fully Upset, Slotted	2-2	3-6	4-1	5-10	6-*	7-1
AEST3	Screws, Tapping, Regular Hex Head, Indented, Type I Recess	2-2	3-6	4-1	5-10	6-*	7-1

Table 1-1
Fastener Family and Type/Base PIN (Cont'd)

		Applicable Table References					
Type/Base PIN	Fastener Family	Thread	Size	Lg/ Other	Material	Finish	Feature
Screws (Cont'd)							
ASME B18.6.4	(Cont'd)						
AES1E	Screws, Tapping, Regular Hex Head, Indented, Type VI Recess	2-2	3-6	4-1	5-10	6-*	7-1
AEST4	Screws, Tapping, Regular Hex Head, Trimmed, Type I Recess	2-2	3-6	4-1	5-10	6-*	7-1
AEST5	Screws, Tapping, Regular Hex Head, Fully Upset, Type I Recess	2-2	3-6	4-1	5-10	6-*	7-1
AEST6	Screws, Tapping, Large Hex Head, Indented, Type I Recess	2-2	3-6	4-1	5-10	6-*	7-1
AES1F	Screws, Tapping, Large Hex Head, Indented, Type VI Recess	2-2	3-6	4-1	5-10	6-*	7-1
AEST7	Screws, Tapping, Large Hex Head, Trimmed, Type I Recess	2-2	3-6	4-1	5-10	6-*	7-1
AEST8	Screws, Tapping, Large Hex Head, Fully Upset, Type I Recess	2-2	3-6	4-1	5-10	6-*	7-1
AEST9	Screws, Tapping, Hex Washer Head, Indented, Unslotted	2-2	3-6	4-1	5-10	6-*	7-1
AESU0	Screws, Tapping, Hex Washer Head, Indented, Slotted	2-2	3-6	4-1	5-10	6-*	7-1
AESU1	Screws, Tapping, Hex Washer Head, Indented, Type I Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AES1G	Screws, Tapping, Hex Washer Head, Indented, Type VI Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESU3	Screws, Tapping, Round Washer Head, Slotted	2-2	3-6	4-1	5-10	6-*	7-1
AESU4	Screws, Tapping, Round Washer Head, Type I Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESA3	Screws, Tapping, Round Washer Head, Type VI Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESU5	Screws, Tapping, Round Head, Slotted	2-2	3-6	4-1	5-10	6-*	7-1
AESU6	Screws, Tapping, Round Head, Type I Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESU7	Screws, Tapping, Round Head, Type IA Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESU8	Screws, Tapping, Round Head, Type II Cross Recess	2-2	3-6	4-1	5-10	6-*	7-1
AESV2	Screws, Tapping, Round Head Type U Metallic Drive	2-2	3-2	4-1	5-10	6-*	7-1
ASME B18.6.5M	Metric Thread-Forming and Thread-Cutting Tapping Screws	Field 2	3	4	5	6	7
AESV3	Screws, Tapping, Flat Head, Slotted	2-2	3-7	4-2	5-*	6-*	7-1
AESV4	Screws, Tapping, Flat Head, Type A, Type I Cross Recess	2-2	3-7	4-2	5-*	6-*	7-1
AESV5	Screws, Tapping, Flat Head, Type A, Type IA Cross Recess	2-2	3-7	4-2	5-*	6-*	7-1
AESV6	Screws, Tapping, Flat Head, Type A, Type III Square Recess	2-2	3-7	4-2	5-*	6-*	7-1
AESV7	Screws, Tapping, Flat Head, Type B, Type I Cross Recess	2-2	3-7	4-2	5-*	6-*	7-1
AESV8	Screws, Tapping, Flat Head, Type B, Type IA Cross Recess	2-2	3-7	4-2	5-*	6-*	7-1
AESV9	Screws, Tapping, Flat Head, Type B, Type III Square Recess	2-2	3-7	4-2	5-*	6-*	7-1
AESW0	Screws, Tapping, Oval Head, Slotted	2-2	3-7	4-2	5-*	6-*	7-1
AESW1	Screws, Tapping, Oval Head, Type I Cross Recess	2-2	3-7	4-2	5-*	6-*	7-1
AESW2	Screws, Tapping, Oval Head, Type IA Cross Recess	2-2	3-7	4-2	5-*	6-*	7-1
AESW3	Screws, Tapping, Oval Head, Type III Square Recess	2-2	3-7	4-2	5-*	6-*	7-1

**Table 1-1
Fastener Family and Type/Base PIN (Cont'd)**

		Applicable Table References					
Type/Base PIN	Fastener Family	Thread	Size	Lg/ Other	Material	Finish	Feature
Screws (Cont'd)							
ASME B18.6.5M (Cont'd)							
AESW4	Screws, Tapping, Pan Head, Slotted	2-2	3-7	4-2	5-*	6-*	7-1
AESW5	Screws, Tapping, Pan Head, Type I Cross Recess	2-2	3-7	4-2	5-*	6-*	7-1
AESW6	Screws, Tapping, Pan Head, Type IA Cross Recess	2-2	3-7	4-2	5-*	6-*	7-1
AESW7	Screws, Tapping, Pan Head, Type III Square Recess	2-2	3-7	4-2	5-*	6-*	7-1
AESX1	Screws, Tapping, Hex Head, Indented, Unslotted	2-2	3-7	4-2	5-*	6-*	7-1
AESX2	Screws, Tapping, Hex Head, Indented, Slotted	2-2	3-7	4-2	5-*	6-*	7-1
AESX3	Screws, Tapping, Hex Head, Trimmed, Unslotted	2-2	3-7	4-2	5-*	6-*	7-1
AESX4	Screws, Tapping, Hex Head, Trimmed, Slotted	2-2	3-7	4-2	5-*	6-*	7-1
AESX5	Screws, Tapping, Hex Head, Fully Upset, Unslotted	2-2	3-7	4-2	5-*	6-*	7-1
AESX6	Screws, Tapping, Hex Head, Fully Upset, Slotted	2-2	3-7	4-2	5-*	6-*	7-1
AESX7	Screws, Tapping, Hex Flange Head, Unslotted	2-2	3-7	4-2	5-*	6-*	7-1
AESX8	Screws, Tapping, Hex Flange Head, Slotted	2-2	3-7	4-2	5-*	6-*	7-1
ASME B18.6.7M	Metric Machine Screws	Field 2	3	4	5	6	7
AESY0	Screws, Machine, Flat Head, Slotted	2-1	3-3	4-2	5-*	6-*	7-2
AESY1	Screws, Machine, Flat Head, Type A, Type I Cross Recess	2-1	3-3	4-2	5-*	6-*	7-2
AESY2	Screws, Machine, Flat Head, Type A, Type IA Cross Recess	2-1	3-3	4-2	5-*	6-*	7-2
AESY3	Screws, Machine, Flat Head, Type A, Type III Square Recess	2-1	3-3	4-2	5-*	6-*	7-2
AESY4	Screws, Machine, Flat Head, Type B, Type I Cross Recess	2-1	3-3	4-2	5-*	6-*	7-2
AESY5	Screws, Machine, Flat Head, Type B, Type IA Cross Recess	2-1	3-3	4-2	5-*	6-*	7-2
AESY6	Screws, Machine, Flat Head, Type B, Type III Square Recess	2-1	3-3	4-2	5-*	6-*	7-2
AESY7	Screws, Machine, Oval Head, Slotted	2-1	3-3	4-2	5-*	6-*	7-2
AESY8	Screws, Machine, Oval Head, Type I Cross Recess	2-1	3-3	4-2	5-*	6-*	7-2
AESY9	Screws, Machine, Oval Head, Type IA Cross Recess	2-1	3-3	4-2	5-*	6-*	7-2
AESZ0	Screws, Machine, Oval Head, Type III Square Recess	2-1	3-3	4-2	5-*	6-*	7-2
AESZ1	Screws, Machine, Pan Head, Slotted	2-1	3-3	4-2	5-*	6-*	7-2
AESZ2	Screws, Machine, Pan Head, Type I Cross Recess	2-1	3-3	4-2	5-*	6-*	7-2
AESZ3	Screws, Machine, Pan Head, Type IA Cross Recess	2-1	3-3	4-2	5-*	6-*	7-2
AESZ4	Screws, Machine, Pan Head, Type III Square Recess	2-1	3-3	4-2	5-*	6-*	7-2
AESZ8	Screws, Machine, Hex Head, Indented, Unslotted	2-1	3-3	4-2	5-*	6-*	7-2
AESZ9	Screws, Machine, Hex Head, Indented, Slotted	2-1	3-3	4-2	5-*	6-*	7-2
AESZA	Screws, Machine, Hex Head, Trimmed, Unslotted	2-1	3-3	4-2	5-*	6-*	7-2
AESZB	Screws, Machine, Hex Head, Trimmed, Slotted	2-1	3-3	4-2	5-*	6-*	7-2
AESZC	Screws, Machine, Hex Head, Fully Upset, Unslotted	2-1	3-3	4-2	5-*	6-*	7-2
AESZD	Screws, Machine, Hex Head, Fully Upset, Slotted	2-1	3-3	4-2	5-*	6-*	7-2
AESZE	Screws, Machine, Hex Flange Head, Slotted	2-1	3-3	4-2	5-*	6-*	7-2
AESZF	Screws, Machine, Hex Flange Head, Unslotted	2-1	3-3	4-2	5-*	6-*	7-2
ASME B18.6.8	Thumb Screws and Wing Screws (Inch Series)	Field 2	3	4	5	6	7
AES2A	Type A, Regular Thumb Screws	2-1	3-1	4-1	5-*	6-*	7-14
AES2B	Type A, Heavy Thumb Screws	2-1	3-1	4-1	5-*	6-*	7-14
AES2C	Type B, Regular Thumb Screws	2-1	3-1	4-1	5-*	6-*	7-14

**Table 1-1
Fastener Family and Type/Base PIN (Cont'd)**

		Applicable Table References					
Type/Base PIN	Fastener Family	Thread	Size	Lg/ Other	Material	Finish	Feature
Screws (Cont'd)							
ASME B18.6.8 (Cont'd)							
AES2D	Type B, Heavy Thumb Screws	2-1	3-1	4-1	5-*	6-*	7-14
AES2E	Type A, Wing Screws	2-1	3-1	4-1	5-*	6-*	7-14
AES2F	Type B, Style 1 Wing Screws	2-1	3-1	4-1	5-*	6-*	7-14
AES2G	Type B, Style 2 Wing Screws	2-1	3-1	4-1	5-*	6-*	7-14
AES2H	Type C, Style 1 Wing Screws	2-1	3-1	4-1	5-*	6-*	7-14
AES2I	Type C, Style 2 Wing Screws	2-1	3-1	4-1	5-*	6-*	7-14
AES2J	Type D, Wing Screws	2-1	3-1	4-1	5-*	6-*	7-14
ASME B18.11	Miniature Screws (Inch Series)	Field 2	3	4	5	6	7
AESZG	Screws, Miniature, Fillister Head	2-1	3-5	4-3	5-*	6-*	7-1
AESZH	Screws, Miniature, Pan Head	2-1	3-5	4-3	5-*	6-*	7-1
AESZJ	Screws, Miniature, 100 deg Flat Head	2-1	3-5	4-3	5-*	6-*	7-1
AESZK	Screws, Miniature, Binding Head	2-1	3-5	4-3	5-*	6-*	7-1
Studs For Continuous and Double End Stud part numbers reference SAE J2271 — Ship Systems and Equipment — Part Standard for Studs — Continuous and Double End (Inch Series)							
ASMEB18.15	Forged Eyebolts (Inch Series)	Field 2	3	4	5	6	7
AET01	Bolts, Eye, Straight Shank, Type 1, Plain Pattern Style A	2-1	3-1	4-6	5-*	6-*	7-1
AET02	Bolts, Eye, Straight Shank, Type 1, Plain Pattern Style B	2-1	3-1	4-6	5-*	6-*	7-1
AET03	Bolts, Eye, Shoulder Pattern, Type 2, Style A	2-1	3-1	4-6	5-*	6-*	7-1
AET04	Bolts, Eye, Shoulder Pattern, Type 2, Style B	2-1	3-1	4-6	5-*	6-*	7-1
ASME B18.15M	Metric Lifting Eyes	Field 2	3	4	5	6	7
AET05	Lifting Eye, Forged	2-1	3-3	4-2	5-*	6-*	7-1
ASME B18.15.2M	Metric Straight Shank Lifting Eyes	Field 2	3	4	5	6	7
AET06	Lifting Eye, Straight Shank	2-1	3-3	4-2	5-*	6-*	7-1
ASME B18.31.1M	Metric Continuous and Double-Ended Studs	Field 2	3	4	5	6	7
AET07	Studs, Continuous Thread	2-1	3-3	4-2	5-*	6-*	7-2
AET08	Studs, Double End (Clamping Type)	2-1	3-3	4-2	5-*	6-*	7-2
AET09	Studs, Double End (Tap End Type)	2-1	3-3	4-2	5-*	6-*	7-2
Rivets							
ASME B18.1.1	Small Solid Rivets (Inch Series)	Field 2	3	4	5	6	7
AEV01	Rivets, Small, Solid, Flat Head	2-1	3-2	4-1	5-*	6-*	7-3
AEV02	Rivets, Small, Solid, Flat Countersunk Head	2-1	3-2	4-1	5-*	6-*	7-3
AEV03	Rivets, Small, Solid, Button Head	2-1	3-2	4-1	5-*	6-*	7-3
AEV04	Rivets, Small, Solid, Pan Head	2-1	3-2	4-1	5-*	6-*	7-3
AEV05	Rivets, Small, Solid, Truss Head	2-1	3-2	4-1	5-*	6-*	7-3
AEV06	Rivets, Small, Solid, Tinnners	2-1	3-14	4-1	5-*	6-*	7-3
AEV07	Rivets, Small, Solid, Coopers	2-1	3-14	4-1	5-*	6-*	7-3
AEV08	Rivets, Small, Solid, Belt	2-1	3-15	4-1	5-*	6-*	7-3
AEV09	Rivets, Small, Solid, 60 deg, Flat Countersunk Head	2-1	3-15	4-1	5-*	6-*	7-3

**Table 1-1
Fastener Family and Type/Base PIN (Cont'd)**

		Applicable Table References					
Type/Base PIN	Fastener Family	Thread	Size	Lg/ Other	Material	Finish	Feature
Rivets (Cont'd)							
ASME B18.1.2	Large Rivets (Inch Series)	Field 2	3	4	5	6	7
AEV10	Rivets, Large, Button Head	2-1	3-2	4-1	5-*	6-*	7-6
AEV11	Rivets, Large, High Button (Acorn) Head	2-1	3-2	4-1	5-*	6-*	7-6
AEV12	Rivets, Large, Cone Head	2-1	3-2	4-1	5-*	6-*	7-6
AEV13	Rivets, Large, Flat Countersunk Head	2-1	3-2	4-1	5-*	6-*	7-6
AEV14	Rivets, Large, Oval Countersunk Head	2-1	3-2	4-1	5-*	6-*	7-6
AEV15	Rivets, Large, Pan Head	2-1	3-2	4-1	5-*	6-*	7-6
ASME B18.1.3M	Metric Small Solid Rivets	Field 2	3	4	5	6	7
AEV16	Rivets, Small, Solid, Flat Head	2-1	3-4	4-2	5-*	6-*	7-3
AEV17	Rivets, Small, Solid, Round Head	2-1	3-4	4-2	5-*	6-*	7-3
AEV18	Rivets, Small, Solid, Flat Countersunk Head	2-1	3-4	4-2	5-*	6-*	7-3
ASME B18.7	General Purpose Semi-Tubular Rivets, Full Tubular Rivets, Split Rivets, and Rivet Caps (Inch Series)	Field 2	3	4	5	6	7
AEV19	Rivets, General Purpose, Oval Head Semi-Tubular, Type T	2-1	3-16	4-1	5-*	6-*	7-1
AEV20	Rivets, General Purpose, Oval Head Semi-Tubular, Type S	2-1	3-16	4-1	5-*	6-*	7-1
AEV21	Rivets, General Purpose, Truss Head Semi-Tubular, Type T	2-1	3-16	4-1	5-*	6-*	7-1
AEV22	Rivets, General Purpose, Truss Head Semi-Tubular, Type S	2-1	3-16	4-1	5-*	6-*	7-1
AEV23	Rivets, General Purpose, 150 deg Flat C sunk Head Semi-Tubular	2-1	3-16	4-1	5-*	6-*	7-1
AEV24	Rivets, General Purpose, 150 deg Large Flat C sunk Head Semi-Tubular	2-1	3-16	4-1	5-*	6-*	7-1
AEV25	Rivets, General Purpose, 120 deg Flat C sunk Head Semi-Tubular Type T	2-1	3-16	4-1	5-*	6-*	7-1
AEV26	Rivets, General Purpose, 120 deg Flat C sunk Head Semi-Tubular Type S	2-1	3-16	4-1	5-*	6-*	7-1
AEV27	Rivets, General Purpose, Full Tubular Oval	2-1	3-16	4-1	5-*	6-*	7-1
AEV28	Rivets, General Purpose, Full Tubular Truss	2-1	3-16	4-1	5-*	6-*	7-1
AEV29	Rivets, General Purpose, Full Tubular Flat Countersunk	2-1	3-16	4-1	5-*	6-*	7-1
AEV30	Rivets, General Purpose, Oval Head Split	2-1	3-16	4-1	5-*	6-*	7-1
AEV31	Rivets, General Purpose, Flat Countersunk Head Split	2-1	3-16	4-1	5-*	6-*	7-1
AEV32	Rivets, General Purpose, Cap Style 1	2-1	3-17	4-1	5-*	6-*	7-1
AEV33	Rivets, General Purpose, Cap Style 2	2-1	3-17	4-1	5-*	6-*	7-1
ASME B18.7.1M	Metric General Purpose Semi-Tubular Rivets	Field 2	3	4	5	6	7
AEV34	Rivets, General Purpose, Oval Head Semi-Tubular	2-1	3-4	4-2	5-*	6-*	7-1
Washers							
ASME B18.2.6	Fasteners for Use in Structural Applications (Inch Series)	Field 2	3	4	5	6	7
AEW01	Washers, Structural, Hardened Steel Circular	2-1	3-2	4-1	5-*	6-*	7-1
AEW02	Washers, Structural, Hardened Steel Circular Clipped	2-1	3-2	4-1	5-*	6-*	7-1
AEW03	Washers, Structural, Hardened Square Beveled	2-1	3-2	4-1	5-*	6-*	7-1

**Table 1-1
Fastener Family and Type/Base PIN (Cont'd)**

		Applicable Table References					
Type/Base PIN	Fastener Family	Thread	Size	Lg/ Other	Material	Finish	Feature
Washers (Cont'd)							
ASME B18.2.6 (Cont'd)							
AEW04	Washers, Structural, Hardened Clipped Square Beveled	2-1	3-2	4-1	5-*	6-*	7-1
AEW05	Washers, Structural, Compressible, Type Direct Tension Indicators (ASTM A490)	2-1	3-2	4-1	5-*	6-*	7-1
AEW06	Washers, Structural, Compressible, Type Direct Tension Indicators (ASTM A325)	2-1	3-2	4-1	5-*	6-*	7-1
ASME B18.2.6M	Metric Fasteners for Use in Structural Applications	Field 2	3	4	5	5	7
AEW27	Metric Hardened Steel Circular	2-1	3-2	4-1	5-*	6-*	7-1
AEW28	Metric Hardened Steel Circular Clipped	2-1	3-2	4-1	5-*	6-*	7-1
AEW29	Metric Compressible Washer-Type Direct Tension Indicator With Curved Protrusion	2-1	3-2	4-1	5-*	6-*	7-1
AEW30	Metric Compressible Washer-Type Direct Tension Indicator With Straight Protrusion	2-1	3-2	4-1	5-*	6-*	7-1
ASME B18.21.1	Helical, Spring-Lock, Tooth Lock and Plain Washers (Inch Series)	Field 2	3	4	5	6	7
AEW07	Washers, Lock, Regular Helical Spring	2-1	3-1	4-1	5-*	6-*	7-1
AEW08	Washers, Lock, Heavy Helical Spring	2-1	3-1	4-1	5-*	6-*	7-1
AEW09	Washers, Lock, Extra Duty Helical Spring	2-1	3-1	4-1	5-*	6-*	7-1
AEW10	Washers, Lock, Hi-Collar Helical Spring	2-1	3-1	4-1	5-*	6-*	7-1
AEW11	Washers, Lock, Internal Tooth	2-1	3-1	4-1	5-*	6-*	7-1
AEW12	Washers, Lock, Heavy Internal Tooth	2-1	3-1	4-1	5-*	6-*	7-1
AEW13	Washers, Lock, External Tooth	2-1	3-1	4-1	5-*	6-*	7-1
AEW14	Washers, Lock, Countersunk External Tooth	2-1	3-1	4-1	5-*	6-*	7-1
AEW15	Washers, Lock, Internal-External Tooth	2-1	3-25	4-1	5-*	6-*	7-1
AEW24	Washers, Type A Plain Washer	2-1	3-22	4-1	5-*	6-*	7-1
AEW26	Washers, Type B Plain Washer	2-1	3-24	4-1	5-*	6-*	7-1
AEW31	Washers, Fender	2-1	3-1	4-1	5-*	6-*	7-1
ASME B18.21.2M	Metric Lock Washers	Field 2	3	4	5	6	7
AEW16	Washers, Lock, Regular Helical Spring	2-1	3-4	4-2	5-*	6-*	7-1
AEW17	Washers, Lock, Heavy Helical Spring	2-1	3-4	4-2	5-*	6-*	7-1
AEW18	Washers, Lock, Internal Tooth	2-1	3-4	4-2	5-*	6-*	7-1
AEW19	Washers, Lock, Heavy Internal Tooth	2-1	3-4	4-2	5-*	6-*	7-1
AEW20	Washers, Lock, External Tooth	2-1	3-4	4-2	5-*	6-*	7-1
AEW21	Washers, Lock, Countersunk External Tooth	2-1	3-4	4-2	5-*	6-*	7-1
AEW22	Washers, Lock, External-Internal Tooth	2-1	3-27	4-2	5-*	6-*	7-1
ASME B18.22M	Metric Plain Washers	Field 2	3	4	5	6	7
AEW23	Washers, Plain	2-1	3-26	4-2	5-*	6-*	7-1
ASME B18.22.1	Plain Washers (Inch Series)	Field 2	3	4	5	6	7
AEW24	Washers, Type A Plain Washer	2-1	3-22	4-1	5-*	6-*	7-1
AEW26	Washers, Type B Plain Washer	2-1	3-23	4-1	5-*	6-*	7-1
AEW25	Washers, Plain, Type A Selected Sizes	2-1	3-23	4-1	5-*	6-*	7-1

**Table 1-1
Fastener Family and Type/Base PIN (Cont'd)**

GENERAL NOTES:

- (a) Strike-through text denotes obsolete fasteners or characteristics but are left in this document for reference and for use in deciphering older PIN codes.
- (b) *Italic text* denotes information that remains the same as in the previous version of the Standard but has been moved within this document for consolidation or clarity.

(23) **Table 2-1
Thread Type**

PIN	Thread Series
C [Note (1)]	UNC-2
U [Note (1)]	UNC-3
F [Note (1)]	UNF-2
K [Note (1)]	UNF-3
R [Note (1)]	UNRC-2
P [Note (1)]	UNRC-3
Q [Note (1)]	UNRF-2
T [Note (1)]	UNRF-3
E [Note (1)]	UNEF-2
N	UNM
S [Note (1)]	1-14 UNS-2 and small machine screw NS threads
D	6UN
G	8UN
H	8UNR
B	12UN
L	Lag Screw Thread
W	Wood Screw Thread
M [Note (2)]	Metric
X	Nonthreaded Fastener

NOTES:

- (1) -2 or -3 refers to -2A and -2B or -3A and -3B, respectively, as applicable.
- (2) Metric, except where PINs "L," "W," or "X" are applicable.

**Table 2-2
Thread and Point Options for Tapping Screws**

PIN	Description
A	Type AB Thread-Forming Tapping Screw
H	Type ABR Thread-Forming Tapping Screw
B	Type B Thread-Forming Tapping Screw
L	Type BF Thread-Cutting Tapping Screw
P	Type BP Thread-Forming Tapping Screw
R	Type BT Thread-Cutting Tapping Screw
C	Type C Thread-Forming Tapping Screw
D	Type D Thread-Cutting Tapping Screw
F	Type F Thread-Cutting Tapping Screw
G	Type G Thread-Cutting Tapping Screw
T	Type T Thread-Cutting Tapping Screw
E	Type TRS Thread TT Tapping Screw
K	Type TRS Thread RL Tapping Screw
M	Type TRS Thread TR-3 Tapping Screw
S	Type TRS Thread SF Tapping Screw
W	Type TRS Thread SW Tapping Screw
Z	Type A Thread-Forming Tapping Screw
U	Type U Metallic Drive Screw

Table 3-1
Inch Thread

PIN	Size	Diameter, in.	PIN	Size	Diameter, in.	PIN	Size	Diameter, in.	PIN	Size	Diameter, in.
021	0000	.021-160 NS only	250	$\frac{1}{4}$	.250	A06	$1\frac{1}{16}$	1.0625	B75	$2\frac{3}{4}$	2.750
034	000	.034-120 NS only	268	14	.268	A12	$1\frac{1}{8}$	1.125	C00	3	3.000
04A	00	.047-90 NS-2 only	312	$\frac{5}{16}$	.3125	A18	$1\frac{3}{16}$	1.1875	C25	$3\frac{1}{4}$	3.250
04B	00	.047-96 NS-2 only	375	$\frac{3}{8}$	.375	A25	$1\frac{1}{4}$	1.250	C50	$3\frac{1}{2}$	3.500
060	0	.060	438	$\frac{7}{16}$	.4375	A31	...	1.3125	C75	$3\frac{3}{4}$	3.750
073	1	.073	500	$\frac{1}{2}$	.500	A37	$1\frac{3}{8}$	1.375	D00	4	4.000
086	2	.086	562	$\frac{9}{16}$	.5625	A43	...	1.4375	D25	$4\frac{1}{4}$	4.250
099	3	.099	625	$\frac{5}{8}$	.625	A50	$1\frac{1}{2}$	1.500	D50	$4\frac{1}{2}$	4.500
112	4	.112	688	...	.6875	A62	$1\frac{5}{8}$	1.625	D75	$4\frac{3}{4}$	4.750
125	5	.125	750	$\frac{3}{4}$	.750	A75	$1\frac{3}{4}$	1.750	E00	5	5.000
138	6	.138	812	$1\frac{3}{16}$	.8125	A87	$1\frac{7}{8}$	1.875	E25	$5\frac{1}{4}$	5.250
164	8	.164	875	$\frac{7}{8}$	.875	B00	2	2.000	E50	$5\frac{1}{2}$	5.500
190	10	.190	938	$1\frac{5}{16}$	.9375	B25	$2\frac{1}{4}$	2.250	E75	$5\frac{3}{4}$	5.750
216	12	.216	A00	1	1.000	B50	$2\frac{1}{2}$	2.500	F00	6	6.000

Table 3-2
Inch Size

PIN	Size	Size/Length, in.	PIN	Size	Size/Length, in.	PIN	Size	Size/Length, in.	PIN	Size	Size/Length, in.
031	$\frac{1}{32}$	0.031	406	$\frac{13}{32}$	0.406	C75	$3\frac{3}{4}$	3.750	G75	$7\frac{3}{4}$	7.750
039	...	0.039	438	$\frac{7}{16}$	0.438	C87	$3\frac{7}{8}$	3.875	G87	$7\frac{7}{8}$	7.875
047	$\frac{3}{64}$	0.047	500	$\frac{1}{2}$	0.500	D00	4	4.000	H00	8	8.000
052	...	0.052	562	$\frac{9}{16}$	0.562	D12	$4\frac{1}{8}$	4.125	H12	$8\frac{1}{8}$	8.125
060	...	0.060	625	$\frac{5}{8}$	0.625	D25	$4\frac{1}{4}$	4.250	H25	$8\frac{1}{4}$	8.250
062	$\frac{1}{16}$	0.062	688	$\frac{11}{16}$	0.688	D37	$4\frac{3}{8}$	4.375	H37	$8\frac{3}{8}$	8.375
075	...	0.075	750	$\frac{3}{4}$	0.750	D50	$4\frac{1}{2}$	4.500	H50	$8\frac{1}{2}$	8.500
078	$\frac{5}{64}$	0.078	812	$\frac{13}{16}$	0.812	D62	$4\frac{5}{8}$	4.625	H75	$8\frac{3}{4}$	8.750
093	$\frac{3}{32}$	0.093	875	$\frac{7}{8}$	0.875	D75	$4\frac{3}{4}$	4.750	J00	9	9.000
100	...	0.100	938	$\frac{15}{16}$	0.938	D87	$4\frac{7}{8}$	4.875	J25	$9\frac{1}{4}$	9.250
109	$\frac{7}{64}$	0.109	A00	1	1.000	E00	5	5.000	J50	$9\frac{1}{2}$	9.500
116	...	0.116	A12	$1\frac{1}{8}$	1.125	E12	$5\frac{1}{8}$	5.125	J75	$9\frac{3}{4}$	9.750
125	$\frac{1}{8}$	0.125	A25	$1\frac{1}{4}$	1.250	E25	$5\frac{1}{4}$	5.250	K00	10	10.000
140	...	0.140	A37	$1\frac{3}{8}$	1.375	E37	$5\frac{3}{8}$	5.375	K02	$10\frac{1}{4}$	10.250
141	$\frac{9}{64}$	0.141	A50	$1\frac{1}{2}$	1.500	E50	$5\frac{1}{2}$	5.500	K05	$10\frac{1}{2}$	10.500
154	...	0.154	A62	$1\frac{5}{8}$	1.625	E62	$5\frac{5}{8}$	5.625	K07	$10\frac{3}{4}$	10.750
156	$\frac{5}{32}$	0.156	A75	$1\frac{3}{4}$	1.750	E75	$5\frac{3}{4}$	5.750	K10	11	11.000
167	...	0.167	A87	$1\frac{7}{8}$	1.875	E87	$5\frac{7}{8}$	5.875	K12	$11\frac{1}{4}$	11.250
182	...	0.182	B00	2	2.000	F00	6	6.000	K15	$11\frac{1}{2}$	11.500
187	...	0.187	B12	$2\frac{1}{8}$	2.125	F12	$6\frac{1}{8}$	6.125	K17	$11\frac{3}{4}$	11.750
188	$\frac{3}{16}$	0.188	B25	$2\frac{1}{4}$	2.250	F25	$6\frac{1}{4}$	6.250	K20	12	12.000
212	...	0.212	B37	$2\frac{3}{8}$	2.375	F37	$6\frac{3}{8}$	6.375	K22	$12\frac{1}{4}$	12.250
219	$\frac{7}{32}$	0.219	B50	$2\frac{1}{2}$	2.500	F50	$6\frac{1}{2}$	6.500	K25	$12\frac{1}{2}$	12.500
242	...	0.242	B62	$2\frac{5}{8}$	2.625	F62	$6\frac{5}{8}$	6.625	K27	$12\frac{3}{4}$	12.750
250	$\frac{1}{4}$	0.250	B75	$2\frac{3}{4}$	2.750	F75	$6\frac{3}{4}$	6.750	K30	13	13.000
281	$\frac{9}{32}$	0.281	B87	$2\frac{7}{8}$	2.875	F87	$6\frac{7}{8}$	6.875	K40	14	14.000
312	$\frac{5}{16}$	0.312	C00	3	3.000	G00	7	7.000	K50	15	15.000
315	...	0.315	C12	$3\frac{1}{8}$	3.125	G12	$7\frac{1}{8}$	7.125	K60	16	16.000
344	$\frac{11}{32}$	0.344	C25	$3\frac{1}{4}$	3.250	G25	$7\frac{1}{4}$	7.250	K70	17	17.000
359	$\frac{23}{64}$	0.359	C37	$3\frac{3}{8}$	3.375	G37	$7\frac{3}{8}$	7.375	K80	18	18.000
375	$\frac{3}{8}$	0.375	C50	$3\frac{1}{2}$	3.500	G50	$7\frac{1}{2}$	7.500	K90	19	19.000
378	...	0.378	C62	$3\frac{5}{8}$	3.625	G62	$7\frac{5}{8}$	7.625	L00	20	20.000

Table 3-3
Metric Thread

PIN	Diameter, mm/Pitch	PIN	Diameter, mm/Pitch	PIN	Diameter, mm/Pitch	PIN	Diameter, mm/Pitch
163	M1.6 × 0.35	12C	M12 × 1.5	22F	M22 × 2.5	39E	M39 × 2
204	M2 × 0.4	12B	M12 × 1.25	22C	M22 × 1.5	39G	M39 × 3
254	M2.5 × 0.45	12A	M12 × 1	24G	M24 × 3	40C	M40 × 1.5
305	M3 × 0.5	14E	M14 × 2	24E	M24 × 2	42K	M42 × 4.5
356	M3.5 × 0.6	14C	M14 × 1.5	25C	M25 × 1.5	42E	M42 × 2
407	M4 × 0.7	15A	M15 × 1	27G	M27 × 3	45C	M45 × 1.5
508	M5 × 0.8	16E	M16 × 2	27E	M27 × 2	48L	M48 × 5
06A	M6 × 1	07B	M7 × 1	30H	M30 × 3.5	48E	M48 × 2
07B	M7 × 1	16C	M16 × 1.5	30E	M30 × 2	50C	M50 × 1.5
08B	M8 × 1.25	17A	M17 × 1	30C	M30 × 1.5	56M	M56 × 5.5
08A	M8 × 1	18C	M18 × 1.5	30G	M30 × 3	64N	M64 × 6
10Z	M10 × 1.5 (15 mm WAF)	18E	M18 × 2	33E	M33 × 2	72N	M72 × 6
10C	M10 × 1.5	18F	M18 × 2.5	33G	M33 × 3	80N	M80 × 6
10B	M10 × 1.25	20F	M20 × 2.5	35C	M35 × 1.5	90N	M90 × 6
10A	M10 × 1	20C	M20 × 1.5	36J	M36 × 4	C0N	M100 × 6
107	M10 × 0.75	20E	M20 × 2	36E	M36 × 2		
12D	M12 × 1.75	20A	M20 × 1	36G	M36 × 3		

Table 3-4
Metric Size

PIN	Size/Length, mm	PIN	Size/Length, mm	PIN	Size/Length, mm	PIN	Size/Length, mm
06M	0.6	014	14	050	50	120	120
08M	0.8	015	15	052	52	125	125
10M	1.0	016	16	055	55	130	130
12M	1.2	017	17	056	56	135	135
14M	1.4	018	18	057	57	140	140
15M	1.5	019	19	058	58	145	145
16M	1.6	020	20	060	60	150	150
20M	2.0	021	21	062	62	155	155
22M	2.2	022	22	063	63	160	160
25M	2.5	023	23	065	65	165	165
29M	2.9	024	24	068	68	175	175
30M	3.0	025	25	070	70	180	180
32M	3.2	026	26	072	72	185	185
35M	3.5	027	27	075	75	190	190
40M	4.0	028	28	078	78	200	200
42M	4.2	030	30	080	80	210	210
48M	4.8	032	32	082	82	220	220
50M	5.0	033	33	085	85	230	230
55M	5.5	034	34	088	88	240	240
60M	6.0	035	35	090	90	250	250
63M	6.3	036	36	092	92	260	260
70M	7.0	037	37	095	95	280	280
80M	8.0	038	38	098	98	300	300
90M	9.0	040	40	100	100	320	320
95M	9.5	042	42	102	102	360	360
010	10	045	45	105	105	400	400
011	11	046	46	108	108		
012	12	047	47	110	110		
013	13	048	48	115	115		

Table 3-5
Miniature Screw Thread

PIN	Thread	Size, mm (in.)
030	0.30 UNM	0.30 (0.0118)
035	0.35 UNM	0.35 (0.0138)
040	0.40 UNM	0.40 (0.0157)
045	0.45 UNM	0.45 (0.0177)
050	0.50 UNM	0.50 (0.0197)
055	0.55 UNM	0.55 (0.0217)
060	0.60 UNM	0.60 (0.0236)
070	0.70 UNM	0.70 (0.0276)
080	0.80 UNM	0.80 (0.0315)
090	0.90 UNM	0.90 (0.0354)
100	1.00 UNM	1.00 (0.0394)
110	1.10 UNM	1.10 (0.0433)
120	1.20 UNM	1.20 (0.0472)
140	1.40 UNM	1.40 (0.0551)

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Table 3-6
Inch Tapping Screw Thread

PIN	Description	PIN	Description
060	.060-48 Types AB, ABR, B, BP, BF, BT	19F	.190-32 Types D, F, G, T, C, TRS
06A	.060-40 Type A	19C	.190-24 Types D, F, G, T, C, TRS
073	.073-42 Types AB, ABR, B, BP, BF, BT	216	.216-14 Types AB, ABR, B, BP, BF, BT
07A	.073-32 Type A	21A	.216-11 Type A
086	.086-32 Types AB, ABR, B, BP, BF, BT	21C	.216-24 Type D, F, G, T, C, TRS
08A	.086-32 Type A	21F	.216-28 Type D, F, G, T, C
08F	.086-64 Types D, F, G, T, C	21R	.216 Trim Head Size 8 Types AB, A, B, C Coarse
08C	.086-56 Types D, F, G, T, C, TRS	21S	.216 Trim Head Size 10 Types AB, A, B, C Coarse
099	.099-28 Types AB, ABR, B, BP, BF, BT	21T	.216 Trim Head Size 8 Type C Fine
09A	.099-28 Type A	21U	.216 Trim Head Size 10 Type C Fine
09F	.099-56 Types D, F, G, T, C	24A	.242-10 Type A
09C	.099-48 Types D, F, G, T, C, TRS	24R	.242 Trim Head Size 10
112	.112-24 Types AB, ABR, B, BP, BF, BT	24S	.242 Trim Head Size 12
11A	.112-24 Type A	250	.250-14 Types AB, ABR, B, BP, BF, BT
11F	.112-48 Types D, F, G, T, C	25F	.250-28 Types D, F, G, T, C
11C	.112-40 Types D, F, G, T, C, TRS	25C	.250-20 Types D, F, G, T, C, TRS
125	.125-20 Types AB, ABR, B, BP, BF, BT	25R	.250 Trim Head Size 10 Types AB, A, B, C Coarse
12A	.125-20 Type A	25S	.250 Trim Head Size 12 Types AB, A, B, C Coarse
12F	.125-44 Types D, F, G, T, C	25T	.250 Trim Head Size 10 Type C Fine
12C	.125-40 Types D, F, G, T, C, TRS	25U	.250 Trim Head Size 12 Type C Fine
138	.138-20 Types AB, ABR, B, BP, BF, BT	26A	.268-10 Type A
13A	.138-18 Type A	29A	.294-9 Type A
13F	.138-40 Types D, F, G, T, C	312	.3125-12 Types AB, ABR, B, BP, BF, BT
13C	.138-32 Types D, F, G, T, C, TRS	31F	.3125-24 Types D, F, G, T, C
13R	.138 Trim Head Size 4 Types AB, A, B, C Coarse	31C	.3125-18 Types D, F, G, T, C, TRS
13S	.138 Trim Head Size 5 Types AB, A, B, C Coarse	31R	.3125 Trim Head Size 12 Types AB, A, B, C Coarse
13T	.138 Trim Head Size 4 Type C Fine	31S	.3125 Trim Head Size 1\4 Types AB, A, B, C Coarse
13U	.138 Trim Head Size 5 Type C Fine	31T	.3125 Trim Head Size 12 Type C Fine
151	.151-19 Types AB, ABR, B, BP, BF, BT	31U	.3125 Trim Head Size 1\4 Type C Fine
15A	.151-16 Type A	32A	.320-9 Type A
164	.164-18 Types AB, ABR, B, BP, BF, BT	375	.375-12 Types AB, ABR, B, BP, BF, BT
16A	.164-15 Type A	37A	.372-9 Type A
16F	.164-36 Types D, F, G, T, C	37F	.375-24 Types D, F, G, T, C
16C	.164-32 Types D, F, G, T, C, TRS	37C	.375-16 Types D, F, G, T, C, TRS
16R	.164 Trim Head Size 5 Types AB, A, B, C Coarse	438	.4375-10 Types AB, ABR, B, BP, BF, BT
16S	.164 Trim Head Size 6 Types AB, A, B, C Coarse	43F	.4375-20 Types D, F, G, T, C
16T	.164 Trim Head Size 5 Type C Fine	43C	.4375-14 Types D, F, G, T, C, TRS
16U	.164 Trim Head Size 6 Type C Fine	500	.500-5 Types AB, ABR, B, BP, BF, BT
190	.190-16 Types AB, ABR, B, BP, BF, BT	50F	.500-20 Types D, F, G, T, C, TRS
19A	.190-12 Type A	50C	.500-13 Types D, F, G, T, C

Table 3-7
Metric Tapping Screw Thread

PIN	Description
204	2 × 0.4
228	2.2 × 0.8
254	2.5 × 0.45
291	2.9 × 1.1
305	3 × 0.5
356	3.5 × 0.6
351	3.5 × 1.3
407	4 × 0.7
421	4.2 × 1.4
481	4.8 × 1.6
508	5 × 0.8
551	5.5 × 1.8
06A	6 × 1
631	6.3 × 1.8
08B	8 × 1.25
802	8 × 2.1
952	9.5 × 2.1
95Y	9.5 × 2.1 (15 mm width across flats)
10C	10 × 1.5
10Z	10 × 1.5 (15 mm width across flats)

Table 3-10
Inch Spline Socket Set Screw Thread

PIN	Size	Diameter, in.	No. of Splines
060	0	0.060	4
073	1	0.073	4
08A	2	0.086	4
08B	2	0.086	4
09A	3	0.099	4
09B	3	0.099	4
112	4	0.112	4
12A	5	0.125	4
12B	5	0.125	.060 4 Splines
13A	4	0.138	4
13B	6	0.138	4
164	8	0.164	4
190	10	0.190	4
250	$\frac{1}{4}$	0.250	4
312	$\frac{5}{16}$	0.3125	4
375	$\frac{3}{8}$	0.375	4
438	$\frac{7}{16}$	0.4375	4
500	$\frac{1}{2}$	0.500	4
625	$\frac{5}{8}$	0.625	4
750	$\frac{3}{4}$	0.750	4
875	$\frac{7}{8}$	0.875	4

Table 3-8
Inch Hex Socket Head Shoulder Screw Size

PIN	Shoulder Diameter, in.
250	0.250
312	0.312
375	0.375
500	0.500
625	0.625
750	0.750
A00	1.000
A25	1.250
A50	1.500
A75	1.750
B00	2.000

Table 3-11
Inch Trim Head Machine Screw Size

PIN	Description
112	.112-3 Head Size
125	.125-4 Head Size
13A	.138-4 Head Size
13B	.138-5 Head Size
16A	.164-5 Head Size
16B	.164-6 Head Size
190	.190-8 Head Size
21A	.216-8 Head Size
21B	.216-10 Head Size
25A	.250-10 Head Size
25B	.250-12 Head Size
31A	.3125-12 Head Size
31B	.3125-4 Head Size
375	.375- $\frac{5}{16}$ Head Size

Table 3-9
Metric Hex Socket Head Shoulder Screw Size

PIN	Shoulder Diameter, mm
65M	6.5
80M	8
010	10
013	13
016	16
020	20
025	25

Table 3-12
Inch Wood Screw Thread

PIN	Size	Diameter, in./Pitch
060	0	0.060-32
073	1	0.073-28
086	2	0.086-26
099	3	0.099-24
112	4	0.112-22
125	5	0.125-20
138	6	0.138-18
151	7	0.151-16
164	8	0.164-15
177	9	0.177-14
190	10	0.190-13
216	12	0.216-11
242	14	0.242-10
268	16	0.268-9
294	18	0.294-8
320	20	0.320-8
372	24	0.372-7

Table 3-13
Inch Lag Screw Thread

PIN	Diameter, in./Pitch
190	0.190-11
250	0.250-10
312	0.3125-9
375	0.375-7
438	0.4375-7
500	0.500-6
625	0.625-5
750	0.750-4.5
875	0.875-4
A00	1.000-3.5
A12	1.125-3.25
A25	1.250-3.25

Table 3-14
Inch Rivet Size Weight

PIN	Size Designation	PIN	Size Designation
06Z	6 oz	040	4 lb
08Z	8 oz	050	5 lb
10Z	10 oz	060	6 lb
12Z	12 oz	070	7 lb
14Z	14 oz	080	8 lb
010	1 lb	090	9 lb
012	1 $\frac{1}{4}$ lb	100	10 lb
015	1 $\frac{1}{2}$ lb	120	11 lb
017	1 $\frac{3}{4}$ lb	140	12 lb
020	2 lb	160	13 lb
025	2 $\frac{1}{2}$ lb	180	14 lb
030	3 lb	200	15 lb
035	3 $\frac{1}{2}$ lb	375	$\frac{3}{8}$ in.

Table 3-15
Inch Rivet Size Number

PIN	Size Number
140	14
130	13
120	12
110	10
090	9
080	8
070	7
060	6
055	5 $\frac{1}{2}$
050	5
040	4

Table 3-16
Inch Rivet Size 1

PIN	Diameter
061	0.061
062	0.062
089	0.089
099	0.099
123	0.123
125	0.125
146	0.146
152	0.152
15L	0.152 [Note 1]
188	0.188
190	0.190
217	0.217
252	0.252
310	0.310

NOTE: (1) Large Flat Countersunk Head

Table 3-17
Inch Rivet Size/Length

PIN	Length or O.D., in.	PIN	Length or O.D., in.
092	0.092	546	0.546
078	0.078	562	0.562
093	0.093	578	0.578
109	0.109	593	0.593
125	0.125	609	0.609
140	0.140	625	0.625
156	0.156	640	0.640
171	0.171	656	0.656
187	0.187	671	0.671
203	0.203	687	0.687
218	0.218	703	0.703
234	0.234	718	0.718
250	0.250	734	0.734
265	0.265	750	0.750
281	0.281	765	0.765
296	0.296	781	0.781
312	0.312	796	0.796
328	0.328	812	0.812
343	0.343	828	0.828
359	0.359	843	0.843
375	0.375	859	0.859
390	0.390	875	0.875
406	0.406	890	0.890
421	0.421	906	0.906
437	0.437	921	0.921
453	0.453	937	0.937
468	0.468	953	0.953
484	0.484	968	0.968
500	0.500	984	0.984
515	0.515	A00	1.000
531	0.531		

Table 3-18
Inch PIN Size 1

PIN	Size	Diameter, in.
067	0	0.067
086	2	0.086
104	4	0.104
120	6	0.120
136	7	0.136
144	8	0.144
161	10	0.161
196	12	0.196
221	14	0.221
250	16	0.250

Table 3-19
Inch PIN Size 2

PIN	Size	Diameter, in.
062	7/0	0.062
078	6/0	0.078
094	5/0	0.094
109	4/0	0.109
125	3/0	0.125
141	2/0	0.141
156	0	0.156
172	1	0.172
193	2	0.193
219	3	0.219
250	4	0.250
289	5	0.289
341	6	0.341
409	7	0.409
492	8	0.492
591	9	0.591
709	10	0.706
860	11	0.860
A03	12	1.032
A24	13	1.241
A52	14	1.523

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Table 3-20
Retaining Ring Size Number

PIN	Size Designation	PIN	Size Designation	PIN	Size Designation	PIN	Size Designation
001	1	038	38	108	108	256	256
002	2	039	39	110	110	262	262
003	3	040	40	112	112	268	268
004	4	042	42	115	115	275	275
005	5	043	43	118	118	281	281
006	6	S43	S43	SA1	S118	287	287
0S6	S6	045	45	120	120	293	293
0Y6	Y6	046	46	125	125	295	295
007	7	047	47	130	130	300	300
008	8	048	48	131	131	306	306
009	9	050	50	135	135	312	312
0S9	S9	051	51	137	137	315	315
010	10	052	52	SA3	S137	325	325
011	11	054	54	140	140	334	334
S11	S11	055	55	143	143	343	343
012	12	056	56	145	145	347	347
S12	S12	057	57	150	150	350	350
013	13	058	58	155	155	354	354
014	14	059	59	156	156	362	362
S14	S14	060	60	160	160	368	368
Y14	Y14	062	62	162	162	375	375
015	15	063	63	165	165	387	387
S15	S15	065	65	168	168	393	393
016	16	066	66	170	170	400	400
017	17	068	68	175	175	412	412
S17	S17	070	70	177	177	425	425
018	18	072	72	180	180	433	433
S18	S18	S74	S74	181	181	437	437
Y18	Y18	075	75	185	185	450	450
019	19	077	77	187	187	462	462
020	20	078	78	190	190	475	475
021	21	080	80	193	193	500	500
S21	S21	081	81	196	196	525	525
022	22	082	82	200	200	537	537
023	23	084	84	206	206	550	550
024	24	085	85	210	210	575	575
025	25	086	86	212	212	600	600
026	26	087	87	215	215	625	625
027	27	088	88	218	218	650	650
028	28	090	90	220	220	662	662
030	30	092	92	225	225	675	675
031	31	093	93	230	230	700	700
Y31	Y31	095	95	231	231	725	725
032	32	098	98	237	237	750	750
034	34	S98	S98	240	240	775	775
035	35	100	100	243	243	800	800
036	36	102	102	244	244	825	825
037	37	105	105	250	250	850	850
S37	S37	106	106	255	255	875	875

Table 3-20
Retaining Ring Size Number (Cont'd)

PIN	Size Designation	PIN	Size Designation	PIN	Size Designation	PIN	Size Designation
900	900	950	950	M00	1000		
925	925	975	975				

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Table 3-21
Inch Retaining Ring Size

PIN	Diameter, in.	PIN	Diameter, in.	PIN	Diameter, in.	PIN	Diameter, in.
469	0.469	A57	1.574	C31	3.312	E87	5.875
500	0.500	A57	1.575	C34	3.343	E90	5.905
512	0.512	A62	1.625	C34	3.344	F00	6.000
531	0.531	A65	1.653	C34	3.346	F12	6.125
551	0.551	A67	1.687	C37	3.375	F25	6.250
562	0.562	A68	1.688	C43	3.437	F29	6.299
594	0.594	A75	1.750	C46	3.469	F37	6.375
625	0.625	A77	1.771	C50	3.500	F50	6.500
656	0.656	A81	1.812	C54	3.543	F62	6.625
669	0.669	A81	1.813	C56	3.562	F69	6.692
687	0.687	A85	1.850	C62	3.625	F75	6.750
688	0.688	A87	1.875	C68	3.687	F87	6.875
718	0.718	A93	1.938	C74	3.740	GF0	7.000
750	0.750	A96	1.969	C75	3.750	G08	7.086
777	0.777	B00	2.000	C81	3.812	G12	7.125
781	0.781	B04	2.047	C87	3.875	G25	7.250
812	0.812	B06	2.062	C93	3.938	G37	7.375
843	0.843	B12	2.125	D00	4.000	G48	7.480
866	0.866	B15	2.156	D06	4.063	G50	7.500
875	0.875	B16	2.165	D12	4.125	G62	7.625
901	0.901	B18	2.188	D13	4.134	G75	7.750
906	0.906	B25	2.250	D18	4.188	G87	7.875
937	0.937	B31	2.312	D25	4.250	H00	8.000
938	0.938	B36	2.362	D31	4.312	H25	8.250
968	0.968	B37	2.375	D33	4.330	H26	8.267
984	0.984	B43	2.437	D33	4.331	H46	8.464
987	0.987	B44	2.440	D37	4.375	H50	8.500
A00	1.000	B50	2.500	D43	4.437	H75	8.750
A02	1.023	B53	2.531	D50	4.500	H85	8.858
A03	1.031	B55	2.559	D52	4.527	J00	9.000
A06	1.062	B56	2.562	D56	4.562	J05	9.055
A09	1.093	B62	2.625	D62	4.625	J25	9.250
A12	1.125	B67	2.677	D68	4.687	J44	9.448
A15	1.156	B68	2.687	D72	4.724	J50	9.500
A18	1.188	B68	2.688	D75	4.750	J75	9.750
A21	1.218	B75	2.750	D81	4.812	K00	10.000
A25	1.250	B81	2.813	D87	4.875	K02	10.250
A28	1.281	B83	2.834	D92	4.921	K05	10.500
A31	1.312	B87	2.875	D93	4.937	K07	10.750
A34	1.343	B93	2.937	E00	5.000	K10	11.000
A37	1.375	B95	2.952	E11	5.118	K12	11.250
A40	1.406	C00	3.000	E12	5.125	K15	11.500
A43	1.437	C06	3.062	E25	5.250	K17	11.750
A43	1.438	C12	3.125	E37	5.375	K20	12.000
A43	1.439	C14	3.149	E50	5.500	K22	12.250
A45	1.456	C15	3.156	E51	5.511	K25	12.500
A46	1.468	C15	3.157	E62	5.625	K27	12.750
A50	1.500	C18	3.187	E70	5.708	K30	13.000
A56	1.562	C25	3.250	E75	5.750	K32	13.250

Table 3-21
Inch Retaining Ring Size (Cont'd)

PIN	Diameter, in.	PIN	Diameter, in.	PIN	Diameter, in.	PIN	Diameter, in.
K35	13.500	K40	14.000	K45	14.500	K50	15.000
K37	13.750	K42	14.250	K47	14.750		

Table 3-22
Inch Washer Size 1

PIN	Size	Diameter, in.	PIN	Size	Diameter, in.	PIN	Size	Diameter, in.	PIN	Size	Diameter, in.
078	...	0.078	31W	$\frac{5}{16}$	0.312 Wide	75N	$\frac{3}{4}$	0.750 Narrow	A3W	$1\frac{1}{3}$	1.375 Wide
094	...	0.094	37N	$\frac{3}{8}$	0.375 Narrow	75W	$\frac{3}{4}$	0.750 Wide	A5N	$1\frac{1}{2}$	1.500 Narrow
125	...	0.125	37W	$\frac{3}{8}$	0.375 Wide	87N	$\frac{7}{8}$	0.875 Narrow	A5W	$1\frac{1}{2}$	1.500 Wide
138	No. 6	0.138	43N	$\frac{7}{16}$	0.438 Narrow	87W	$\frac{7}{8}$	0.875 Wide	A62	-	1.625
164	No. 8	0.164	43W	$\frac{7}{16}$	0.438 Wide	A0N	1	1.000 Narrow	A75	$1\frac{3}{4}$	1.750
188	$\frac{3}{16}$	0.188	50N	$\frac{1}{2}$	0.500 Narrow	A0W	1	1.000 Wide	A87	$1\frac{3}{4}$	1.875
190	No. 10	0.190	50W	$\frac{1}{2}$	0.500 Wide	A1N	$1\frac{1}{8}$	1.125 Narrow	B00	2	2.000
216	No. 12	0.216	56N	$\frac{9}{16}$	0.562 Narrow	A1W	$1\frac{1}{8}$	1.125 Wide	B25	$2\frac{1}{4}$	2.250
25N	$\frac{1}{4}$	0.250 Narrow	56W	$\frac{9}{16}$	0.562 Wide	A2N	$1\frac{1}{4}$	1.250 Narrow	B50	$2\frac{1}{2}$	2.500
25W	$\frac{1}{4}$	0.250 Wide	62N	$\frac{5}{8}$	0.625 Narrow	A2W	$1\frac{1}{4}$	1.250 Wide	B75	$2\frac{3}{4}$	2.750
31N	$\frac{5}{16}$	0.312 Narrow	62W	$\frac{5}{8}$	0.625 Wide	A3N	$1\frac{1}{3}$	1.375 Narrow	C00	3	3.000

Table 3-23
Inch Washer Size 2

PIN	Diameter/Outside Diameter, in.	PIN	Diameter/Outside Diameter, in.	PIN	Diameter/Outside Diameter, in.	PIN	Diameter/Outside Diameter, in.
094	0.094	312	0.312	62B	0.625/2.125	A37	1.375
125	0.125	37A	0.375/0.734	68A	0.688/1.469	A50	1.500
156	0.156	37B	0.375/1.125	68B	0.688/2.375	A62	1.625
172	0.172	43A	0.438/0.875	81A	0.812/1.750	A68	1.688
188	0.188	43B	0.438/1.375	81B	0.812/2.875	A81	1.812
203	0.203	50A	0.500/1.125	93A	0.938/2.000	A93	1.938
219	0.219	50B	0.500/1.625	93B	0.938/3.375	B06	2.062
234	0.234	56A	0.562/1.25	A0A	1.062/2.250		
250	0.250	56B	0.562/1.875	A0B	1.062/3.875		
266	0.266	62A	0.625/1.375	A25	1.250		

Table 3-24
Inch Washer Size 3

PIN	Size	Diameter and Type, in.	PIN	Size	Diameter and Type, in.	PIN	Size	Diameter and Type, in.	PIN	Size	Diameter and Type, in.
06N	No. 0	0.060 Narrow	19R	No. 10	0.190 Regular	62R	$\frac{5}{8}$	0.625 Regular	A6R	$1\frac{5}{8}$	1.625 Regular
06R	No. 0	0.060 Regular	19W	No. 10	0.190 Wide	62W	$\frac{5}{8}$	0.625 Wide	A6W	$1\frac{5}{8}$	1.625 Wide
06W	No. 0	0.060 Wide	21N	No. 12	0.216 Narrow	75N	$\frac{3}{4}$	0.750 Narrow	A7N	$1\frac{3}{4}$	1.750 Narrow
07N	No. 1	0.073 Narrow	21R	No. 12	0.216 Regular	75R	$\frac{3}{4}$	0.750 Regular	A7R	$1\frac{3}{4}$	1.750 Regular
07R	No. 1	0.073 Regular	21W	No. 12	0.216 Wide	75W	$\frac{3}{4}$	0.750 Wide	A7W	$1\frac{3}{4}$	1.750 Wide
07W	No. 1	0.073 Wide	25N	$\frac{1}{4}$	0.250 Narrow	87N	$\frac{7}{8}$	0.875 Narrow	A8N	$1\frac{7}{8}$	1.875 Narrow
08N	No. 2	0.086 Narrow	25R	$\frac{1}{4}$	0.250 Regular	87R	$\frac{7}{8}$	0.875 Regular	A8R	$1\frac{7}{8}$	1.875 Regular
08R	No. 2	0.086 Regular	25W	$\frac{1}{4}$	0.250 Wide	87W	$\frac{7}{8}$	0.875 Wide	A8W	$1\frac{7}{8}$	1.875 Wide
08W	No. 2	0.086 Wide	31N	$\frac{5}{16}$	0.312 Narrow	A0N	1	1.000 Narrow	B0N	2	2.000 Narrow
09N	No. 3	0.099 Narrow	31R	$\frac{5}{16}$	0.312 Regular	A0R	1	1.000 Regular	B0R	2	2.000 Regular
09R	No. 3	0.099 Regular	31W	$\frac{5}{16}$	0.312 Wide	A0W	1	1.000 Wide	B0W	2	2.000 Wide
09W	No. 3	0.099 Wide	37N	$\frac{3}{8}$	0.375 Narrow	A1N	$1\frac{1}{8}$	1.125 Narrow	B2N	$2\frac{1}{4}$	2.250 Narrow
11N	No. 4	0.112 Narrow	37R	$\frac{3}{8}$	0.375 Regular	A1R	$1\frac{1}{8}$	1.125 Regular	B2R	$2\frac{1}{4}$	2.250 Regular
11R	No. 4	0.112 Regular	37W	$\frac{3}{8}$	0.375 Wide	A1W	$1\frac{1}{8}$	1.125 Wide	B2W	$2\frac{1}{4}$	2.250 Wide
11W	No. 4	0.112 Wide	43N	$\frac{7}{16}$	0.438 Narrow	A2N	$1\frac{1}{4}$	1.250 Narrow	B5N	$2\frac{1}{2}$	2.500 Narrow
12N	No. 5	0.125 Narrow	43R	$\frac{7}{16}$	0.438 Regular	A2R	$1\frac{1}{4}$	1.250 Regular	B5R	$2\frac{1}{2}$	2.500 Regular
12R	No. 5	0.125 Regular	43W	$\frac{7}{16}$	0.438 Wide	A2W	$1\frac{1}{4}$	1.250 Wide	B5W	$2\frac{1}{2}$	2.500 Wide
12W	No. 5	0.125 Wide	50N	$\frac{1}{2}$	0.500 Narrow	A3N	$1\frac{3}{8}$	1.375 Narrow	B7N	$2\frac{3}{4}$	2.750 Narrow
13R	No. 6	0.138 Regular	50R	$\frac{1}{2}$	0.500 Regular	A3R	$1\frac{3}{8}$	1.375 Regular	B7R	$2\frac{3}{4}$	2.750 Regular
13W	No. 6	0.138 Wide	50W	$\frac{1}{2}$	0.500 Wide	A3W	$1\frac{3}{8}$	1.375 Wide	B7W	$2\frac{3}{4}$	2.750 Wide
16N	No. 8	0.164 Narrow	56N	$\frac{9}{16}$	0.562 Narrow	A5N	$1\frac{1}{2}$	1.500 Narrow	C0N	3	3.000 Narrow
16R	No. 8	0.164 Regular	56R	$\frac{9}{16}$	0.562 Regular	A5R	$1\frac{1}{2}$	1.500 Regular	C0R	3	3.000 Regular
16W	No. 8	0.164 Wide	56W	$\frac{9}{16}$	0.562 Wide	A5W	$1\frac{1}{2}$	1.500 Wide	C0W	3	3.000 Wide
19N	No. 10	0.190 Narrow	62N	$\frac{5}{8}$	0.625 Narrow	A6N	$1\frac{5}{8}$	1.625 Narrow			

Table 3-25
Inch Washer Size 4

PIN	Size	Outside Diameter, in.	PIN	Size	Outside Diameter, in.	PIN	Size	Outside Diameter, in.	PIN	Size	Outside Diameter, in.
11A	.112	0.475	19D	.190	0.900	31D	.312	1.155	50D	.500	1.620
11B	.112	0.510	21A	.216	0.690	37A	.375	0.985	56A	.562	1.315
11C	.112	0.610	21B	.216	0.760	37B	.375	1.070	56B	.562	1.430
13A	.138	0.510	21C	.216	0.900	37C	.375	1.155	56C	.562	1.620
13B	.138	0.610	21D	.216	0.985	37D	.375	1.260	56D	.562	1.830
13C	.138	0.690	25A	.250	0.760	43A	.438	1.070	62A	.625	1.410
16A	.164	0.610	25B	.250	0.900	43B	.438	1.155	62B	.625	1.620
16B	.164	0.690	25C	.250	0.985	43C	.438	1.260	62C	.625	1.830
16C	.164	0.760	25D	.250	1.070	43D	.438	1.315	62D	.625	1.975
19A	.190	0.610	31A	.312	0.900	50A	.500	1.260			
19B	.190	0.690	31B	.312	0.985	50B	.500	1.315			
19C	.190	0.760	31C	.312	1.070	50C	.500	1.410			

Table 3-26
Metric Washer Size 1

PIN	Diameter and Type, mm	PIN	Diameter and Type, mm	PIN	Diameter and Type, mm	PIN	Diameter and Type, mm
01N	1.6 Narrow	3CR	3.5 Regular	08W	8 Wide	20N	20 Narrow
01R	1.6 Regular	3CW	3.5 Wide	10N	10 Narrow	20R	20 Regular
01W	1.6 Wide	04N	4 Narrow	10R	10 Regular	20W	20 Wide
02N	2 Narrow	04R	4 Regular	10W	10 Wide	24N	24 Narrow
02R	2 Regular	04W	4 Wide	12N	12 Narrow	24R	24 Regular
02W	2 Wide	05N	5 Narrow	12R	12 Regular	24W	24 Wide
2BN	2.5 Narrow	05R	5 Regular	12W	12 Wide	30N	30 Narrow
2BR	2.5 Regular	05W	5 Wide	14N	14 Narrow	30R	30 Regular
2BW	2.5 Wide	06N	6 Narrow	14R	14 Regular	30W	30 Wide
03N	3 Narrow	06R	6 Regular	14W	14 Wide	36N	36 Narrow
03R	3 Regular	06W	6 Wide	16N	16 Narrow	36R	36 Regular
03W	3 Wide	08N	8 Narrow	16R	16 Regular	36W	36 Wide
3CN	3.5 Narrow	08R	8 Regular	16W	16 Wide		

Table 3-27
Metric Washer Size 2

Description			Description			Description			Description		
PIN	Inside Diameter, mm	Outside Diameter, mm	PIN	Inside Diameter, mm	Outside Diameter, mm	PIN	Inside Diameter, mm	Outside Diameter, mm	PIN	Inside Diameter, mm	Outside Diameter, mm
29A	2.9	12.10	48A	4.8	15.25	60D	6	27.20	A0C	10	29.35
29B	2.9	13.00	48B	4.8	17.75	63A	6.3	19.30	A0D	10	32.00
29C	2.9	15.50	48C	4.8	19.30	63B	6.3	22.90	A2A	12	32.00
30A	3	12.10	48D	4.8	22.90	63C	6.3	25.00	A2B	12	33.50
30B	3	13.00	50A	5	15.25	63D	6.3	27.20	A2C	12	36.00
30C	3	15.50	50B	5	17.75	80A	8	22.90	A2D	12	41.35
35A	3.5	12.90	50C	5	19.30	80B	8	25.00	A4A	14	33.50
35B	3.5	15.50	50D	5	22.90	80C	8	27.20	A4B	14	36.00
35C	3.5	17.55	55A	5.5	17.75	80D	8	29.35	A4C	14	41.35
40A	4	15.25	55B	5.5	19.30	95A	9.5	25.00	A4D	14	46.50
40B	4	17.70	55C	5.5	22.90	95B	9.5	27.20	A6A	16	36.00
40C	4	19.30	55D	5.5	25.00	95C	9.5	29.35	A6B	16	41.35
42A	4.2	15.25	60A	6	19.30	95D	9.5	32.00	A6C	16	46.50
42B	4.2	17.70	60B	6	22.90	A0A	10	25.00	A6D	16	50.20
42C	4.2	19.30	60C	6	25.00	A0B	10	27.20			

Table 3-28
Metric Key Size 1

PIN	Key Size	PIN	Key Size	PIN	Key Size	PIN	Key Size
022	$\frac{2}{2}$	10B	$\frac{10}{8}$	20B	$\frac{20}{12}$	36B	$\frac{36}{20}$
033	$\frac{3}{3}$	12A	$\frac{12}{6}$	22A	$\frac{22}{6}$	40A	$\frac{40}{20}$
044	$\frac{4}{4}$	12B	$\frac{12}{8}$	22B	$\frac{22}{14}$	45A	$\frac{45}{25}$
055	$\frac{5}{5}$	14A	$\frac{14}{6}$	25A	$\frac{25}{9}$	50A	$\frac{50}{28}$
066	$\frac{6}{6}$	14B	$\frac{14}{9}$	25B	$\frac{25}{14}$	56A	$\frac{56}{32}$
053	$\frac{5}{3}$	16A	$\frac{16}{7}$	28A	$\frac{28}{10}$	63A	$\frac{63}{32}$
064	$\frac{6}{4}$	16B	$\frac{16}{10}$	28B	$\frac{28}{16}$	70A	$\frac{70}{36}$
085	$\frac{8}{5}$	18A	$\frac{18}{7}$	32A	$\frac{32}{11}$	80A	$\frac{80}{40}$
087	$\frac{8}{7}$	18B	$\frac{18}{11}$	32B	$\frac{32}{18}$	90A	$\frac{90}{45}$
10A	$\frac{10}{6}$	20A	$\frac{20}{8}$	36A	$\frac{36}{12}$	100	$\frac{100}{50}$

Table 3-29
Metric Key Size 2

PIN	Key Size
101	1 × 1.4 × 4
152	1.5 × 2.6 × 7
202	2 × 2.6 × 7
203	2 × 3.7 × 10
253	2.5 × 3.7 × 10
305	3 × 5 × 13
306	3 × 6.5 × 16
406	4 × 6.5 × 16
407	4 × 7.5 × 19
506	5 × 6.5 × 16
507	5 × 7.5 × 19
509	5 × 9 × 22
609	6 × 9 × 22
60K	6 × 10 × 25
80L	8 × 11 × 28
K0P	10 × 13 × 32

Table 4-1
Inch Length/Other

PIN	Size	Dia./ Length, in.	PIN	Size	Dia./ Length, in.	PIN	Size	Dia./ Length, in.	PIN	Size	Dia./ Length, in.
000	n/a	No Entry	625	$\frac{5}{8}$	0.625	F12	$6\frac{1}{8}$	6.125	K90	19	19.000
031	$\frac{1}{32}$	0.031	688	$1\frac{1}{16}$	0.688	F25	$6\frac{1}{4}$	6.250	K95	$19\frac{1}{2}$	19.500
039	0.039	0.039	750	$\frac{3}{4}$	0.750	F37	$6\frac{3}{8}$	6.375	L00	20	20.000
047	$\frac{3}{64}$	0.047	812	$1\frac{3}{16}$	0.812	F50	$6\frac{1}{2}$	6.500	01R	$\frac{1}{16}$	0.062 RBD
052	0.052	0.052	875	$\frac{7}{8}$	0.875	F62	$6\frac{5}{8}$	6.625	02R	$\frac{1}{8}$	0.125 RBD
062	$\frac{1}{16}$	0.062	938	$1\frac{5}{16}$	0.938	F75	$6\frac{3}{4}$	6.750	03R	$\frac{3}{16}$	0.188 RBD
075	0.075	0.075	A00	1	1.000	F87	$6\frac{7}{8}$	6.875	04R	$\frac{1}{4}$	0.250 RBD
078	$\frac{5}{64}$	0.078	A12	$1\frac{1}{8}$	1.125	G00	7	7.000	05R	$\frac{5}{16}$	0.312 RBD
093	$\frac{3}{32}$	0.093	A25	$1\frac{1}{4}$	1.250	G12	$7\frac{1}{8}$	7.125	06R	$\frac{3}{8}$	0.375 RBD
094	0.094	0.094	A37	$1\frac{3}{8}$	1.375	G25	$7\frac{1}{4}$	7.250	07R	$\frac{7}{16}$	0.438 RBD
010	0.100	0.100	A50	$1\frac{1}{2}$	1.500	G37	$7\frac{3}{8}$	7.375	08R	$\frac{1}{2}$	0.500 RBD
109	$\frac{7}{64}$	0.109	A62	$1\frac{5}{8}$	1.625	G50	$7\frac{1}{2}$	7.500	09R	$\frac{9}{16}$	0.562 RBD
116	0.116	0.116	A75	$1\frac{3}{4}$	1.750	G62	$7\frac{5}{8}$	7.625	10R	$\frac{5}{8}$	0.625 RBD
125	$\frac{1}{8}$	0.125	A87	$1\frac{7}{8}$	1.875	G75	$7\frac{3}{4}$	7.750	11R	$1\frac{1}{16}$	0.688 RBD
140	0.140	0.140	B00	2	2.000	G87	$7\frac{7}{8}$	7.875	12R	$\frac{3}{4}$	0.750 RBD
141	$\frac{9}{64}$	0.141	B12	$2\frac{1}{8}$	2.125	H00	8	8.000	13R	$1\frac{3}{16}$	0.812 RBD
154	0.154	0.154	B25	$2\frac{1}{4}$	2.250	H25	$8\frac{1}{4}$	8.250	14R	$\frac{7}{8}$	0.875 RBD
156	$\frac{5}{32}$	0.156	B37	$2\frac{3}{8}$	2.375	H50	$8\frac{1}{2}$	8.500	15R	$1\frac{5}{16}$	0.938 RBD
167	0.167	0.167	B50	$2\frac{1}{2}$	2.500	H75	$8\frac{3}{4}$	8.750	16R	1	1.000 RBD
172	0.172	0.172	B62	$2\frac{5}{8}$	2.625	J00	9	9.000	18R	$1\frac{1}{8}$	1.125 RBD
182	0.182	0.182	B75	$2\frac{3}{4}$	2.750	J25	$9\frac{1}{4}$	9.250	20R	$1\frac{1}{4}$	1.250 RBD
188	$\frac{3}{16}$	0.188	B87	$2\frac{7}{8}$	2.875	J50	$9\frac{1}{2}$	9.500	22R	$1\frac{3}{8}$	1.375 RBD
203	0.203	0.203	C00	3	3.000	J75	$9\frac{3}{4}$	9.750	24R	$1\frac{1}{2}$	1.500 RBD
212	0.212	0.212	C12	$3\frac{1}{8}$	3.125	K00	10	10.000	26R	$1\frac{5}{8}$	1.625 RBD
219	$\frac{7}{32}$	0.219	C25	$3\frac{1}{4}$	3.250	K02	$10\frac{1}{4}$	10.250	28R	$1\frac{3}{4}$	1.750 RBD
234	0.234	0.234	C37	$3\frac{3}{8}$	3.375	K05	$10\frac{1}{2}$	10.500	30R	$1\frac{7}{8}$	1.875 RBD
242	0.242	0.242	C50	$3\frac{1}{2}$	3.500	K07	$10\frac{3}{4}$	10.750	32R	2	2.000 RBD
250	$\frac{1}{4}$	0.250	C62	$3\frac{5}{8}$	3.625	K10	11	11.000	34R	$2\frac{1}{8}$	2.125 RBD
266	0.266	0.266	C75	$3\frac{3}{4}$	3.750	K12	$11\frac{1}{4}$	11.250	36R	$2\frac{1}{4}$	2.250 RBD
281	$\frac{9}{32}$	0.281	C87	$3\frac{7}{8}$	3.875	K15	$11\frac{1}{2}$	11.500	38R	$2\frac{3}{8}$	2.375 RBD
297	0.297	0.297	D00	4	4.000	K17	$11\frac{3}{4}$	11.750	40R	$2\frac{1}{2}$	2.500 RBD
312	$\frac{5}{16}$	0.312	D12	$4\frac{1}{8}$	4.125	K20	12	12.000	42R	$2\frac{5}{8}$	2.625 RBD
315	0.315	0.315	D25	$4\frac{1}{4}$	4.250	K22	12.250	12.250	44R	$2\frac{3}{8}$	2.750 RBD
328	0.328	0.328	D37	$4\frac{3}{8}$	4.375	K25	$12\frac{1}{2}$	12.500	46R	$2\frac{7}{8}$	2.875 RBD
344	$\frac{11}{32}$	0.344	D50	$4\frac{1}{2}$	4.500	K27	12.750	12.750	48R	3	3.000 RBD
359	$\frac{23}{64}$	0.359	D62	$4\frac{5}{8}$	4.625	K30	13	13.000	52R	$3\frac{1}{4}$	3.250 RBD
375	$\frac{3}{8}$	0.375	D75	$4\frac{3}{4}$	4.750	K35	$13\frac{1}{2}$	13.500	56R	$3\frac{1}{2}$	3.500 RBD
378	0.378	0.378	D87	$4\frac{7}{8}$	4.875	K40	14	14.000	60R	$3\frac{3}{4}$	3.750 RBD
390	0.390	0.390	E00	5	5.000	K45	$14\frac{1}{2}$	14.500	64R	4	4.000 RBD
406	$\frac{13}{32}$	0.406	E12	$5\frac{1}{8}$	5.125	K50	15	15.000	68R	$4\frac{1}{4}$	4.250 RBD
422	0.422	0.422	E25	$5\frac{1}{4}$	5.250	K55	$15\frac{1}{2}$	15.500	72R	$4\frac{1}{2}$	4.500 RBD
438	$\frac{7}{16}$	0.438	E37	$5\frac{3}{8}$	5.375	K60	16	16.000	76R	$4\frac{3}{4}$	4.750 RBD
453	0.453	0.453	E50	$5\frac{1}{2}$	5.500	K65	$16\frac{1}{2}$	16.500	80R	5	5.000 RBD
469	0.469	0.469	E62	$5\frac{5}{8}$	5.625	K70	17	17.000	84R	$5\frac{1}{4}$	5.250 RBD
484	0.484	0.484	E75	$5\frac{3}{4}$	5.750	K75	$17\frac{1}{2}$	17.500	88R	$5\frac{1}{2}$	5.500 RBD
500	$\frac{1}{2}$	0.500	E87	$5\frac{7}{8}$	5.875	K80	18	18.000	92R	$5\frac{3}{4}$	5.750 RBD
562	$\frac{9}{16}$	0.562	F00	6	6.000	K85	$18\frac{1}{2}$	18.500	96R	6	6.000 RBD

Table 4-1
Inch Length/Other (Cont'd)

PIN	Size	Dia./ Length, in.	PIN	Size	Dia./ Length, in.	PIN	Size	Dia./ Length, in.	PIN	Size	Dia./ Length, in.
F2R	6 $\frac{1}{4}$	6.250 RBD	H7R	8 $\frac{3}{4}$	8.750 RBD	L2R	11 $\frac{1}{4}$	11.25 RBD	Q5R	15 $\frac{1}{2}$	15.50 RBD
F5R	6 $\frac{1}{2}$	6.500 RBD	J0R	9	9.000 RBD	L5R	11 $\frac{1}{2}$	11.50 RBD	S0R	16	16.00 RBD
F7R	6 $\frac{3}{4}$	6.750 RBD	J2R	9 $\frac{1}{4}$	9.250 RBD	L7R	11 $\frac{3}{4}$	11.75 RBD	S5R	16 $\frac{1}{2}$	16.50 RBD
G0R	7	7.000 RBD	J5R	9 $\frac{1}{2}$	9.500 RBD	M0R	12	12.00 RBD	T0R	17	17.00 RBD
G2R	7 $\frac{1}{4}$	7.250 RBD	J7R	9 $\frac{3}{4}$	9.750 RBD	M5R	12 $\frac{1}{2}$	12.50 RBD	T5R	17 $\frac{1}{2}$	17.50 RBD
G5R	7 $\frac{1}{2}$	7.500 RBD	K0R	10	10.00 RBD	N0R	13	13.00 RBD	U0R	18	18.00 RBD
G7R	7 $\frac{3}{4}$	7.750 RBD	K2R	10 $\frac{1}{4}$	10.25 RBD	N5R	13 $\frac{1}{2}$	13.50 RBD	U5R	18 $\frac{1}{2}$	18.50 RBD
H0R	8	8.000 RBD	K5R	10 $\frac{1}{2}$	10.50 RBD	P0R	14	14.00 RBD	V0R	19	19.00 RBD
H2R	8 $\frac{1}{4}$	8.250 RBD	K7R	10 $\frac{3}{4}$	10.75 RBD	P5R	14 $\frac{1}{2}$	14.50 RBD	V5R	19 $\frac{1}{2}$	19.50 RBD
H5R	8 $\frac{1}{2}$	8.500 RBD	L0R	11	11.00 RBD	Q0R	15	15.00 RBD	W0R	20	20.00 RBD

GENERAL NOTE: RBD = Reduced Body Diameter.

Table 4-2
Metric Length/Other

PIN	Size/Length, mm	PIN	Size/Length, mm	PIN	Size/Length, mm	PIN	Size/Length, mm
000	No Entry	035	35	170	170	980	980
06M	0.6	036	36	175	175	K00	1000
08M	0.8	037	37	180	180	0CR	2.5 RBD
10M	1.0	038	38	185	185	03R	3.0 RBD
12M	1.2	040	40	190	190	0DR	3.5 RBD
14M	1.4	042	42	200	200	04R	4.0 RBD
15M	1.5	045	45	210	210	05R	5.0 RBD
16M	1.6	046	46	220	220	06R	6.0 RBD
20M	2.0	047	47	230	230	07R	7.0 RBD
22M	2.2	048	48	240	240	08R	8.0 RBD
25M	2.5	050	50	250	250	09R	9.0 RBD
29M	2.9	052	52	260	260	10R	10 RBD
30M	3.0	055	55	270	270	12R	12 RBD
32M	3.2	056	56	280	280	13R	13 RBD
35M	3.5	057	57	290	290	14R	14 RBD
40M	4.0	058	58	300	300	16R	16 RBD
42M	4.2	060	60	320	320	17R	17 RBD
48M	4.8	062	62	340	340	18R	18 RBD
50M	5.0	063	63	360	360	19R	19 RBD
55M	5.5	065	65	380	380	20R	20 RBD
60M	6.0	068	68	400	400	22R	22 RBD
63M	6.3	070	70	420	420	25R	25 RBD
70M	7.0	072	72	440	440	30R	30 RBD
80M	8.0	075	75	460	460	35R	35 RBD
90M	9.0	078	78	480	480	40R	40 RBD
95M	9.5	080	80	500	500	45R	45 RBD
010	10	082	82	520	520	50R	50 RBD
011	11	085	85	540	540	55R	55 RBD
012	12	088	88	560	560	60R	60 RBD
013	13	090	90	580	580	65R	65 RBD
014	14	092	92	600	600	70R	70 RBD
015	15	095	95	620	620	75R	75 RBD
016	16	098	98	640	640	80R	80 RBD
017	17	100	100	660	660	85R	85 RBD
018	18	102	102	680	680	90R	90 RBD
019	19	105	105	700	700	A0R	100 RBD
020	20	108	108	720	720	A1R	110 RBD
021	21	110	110	740	740	A2R	120 RBD
022	22	115	115	760	760	A3R	130 RBD
023	23	120	120	780	780	A4R	140 RBD
024	24	125	125	800	800	A5R	150 RBD
025	25	130	130	820	820	A6R	160 RBD
026	26	135	135	840	840	A7R	170 RBD
027	27	140	140	860	860	A8R	180 RBD
028	28	145	145	880	880	A9R	190 RBD
030	30	150	150	900	900	B0R	200 RBD
032	32	155	155	920	920	B2R	220 RBD
033	33	160	160	940	940	B4R	240 RBD
034	34	165	165	960	960	B6R	260 RBD

Table 4-2
Metric Length/Other (Cont'd)

PIN	Size/Length, mm	PIN	Size/Length, mm	PIN	Size/Length, mm	PIN	Size/Length, mm
B8R	280 RBD	D8R	480 RBD	F8R	680 RBD	H8R	880 RBD
C0R	300 RBD	E0R	500 RBD	G0R	700 RBD	J0R	900 RBD
C2R	320 RBD	E2R	520 RBD	G2R	720 RBD	J2R	920 RBD
C4R	340 RBD	E4R	540 RBD	G4R	740 RBD	J4R	940 RBD
C6R	360 RBD	E6R	560 RBD	G6R	760 RBD	J6R	960 RBD
C8R	380 RBD	E8R	580 RBD	G8R	780 RBD	J8R	980 RBD
D0R	400 RBD	F0R	600 RBD	H0R	800 RBD	K0R	1000 RBD
D2R	420 RBD	F2R	620 RBD	H2R	820 RBD		
D4R	440 RBD	F4R	640 RBD	H4R	840 RBD		
D6R	460 RBD	F6R	660 RBD	H6R	860 RBD		

GENERAL NOTE: RBD = Reduced Body Diameter.

Table 4-3
Inch Miniature Screw Length

PIN	Length, in.
020	00.020
025	0.025
032	0.032
040	0.040
050	0.050
060	0.060
080	0.080
100	0.100
120	0.120
160	0.160
200	0.200
250	0.250
320	0.320
400	0.400
500	0.500
600	0.600

Table 4-5
Inch PIN Length

PIN	Length, in.
250	0.250
312	0.312
375	0.375
580	0.58
770	0.77
940	0.94
A00	1.000
A06	1.06
A12	1.125
A19	1.19
A36	1.36
A61	1.61
A91	1.91
B16	2.16
B24	2.41
J50	9.50
J75	9.75
K00	10.00

Table 4-4
Insert Length

PIN	Length
10X	1.0 × nominal diameter
15X	1.5 × nominal diameter
20X	2.0 × nominal diameter
25X	2.5 × nominal diameter
30X	3.0 × nominal diameter

Table 4-6
Inch Eyebolt Full Thread Length

PIN	Length, in.	PIN	Length, in.	PIN	Length, in.	PIN	Length, in.
750	0.75	B38	2.38	C78	3.78	F88	6.88
810	0.81	B44	2.44	C81	3.81	G06	7.06
840	0.84	B50	2.50	C88	3.88	G31	7.31
880	0.88	B53	2.53	D12	4.12	G69	7.69
940	0.94	B62	2.62	D19	4.19	G75	7.75
A00	1.00	B66	2.66	D25	4.25	H44	8.44
A12	1.12	B75	2.75	D56	4.56	H56	8.56
A13	1.13	B81	2.81	D69	4.69	H94	8.94
A25	1.25	B97	2.97	D94	4.94	J22	9.22
A31	1.31	C00	3.00	E06	5.06	J50	9.50
A38	1.38	C06	3.06	E31	5.31	J72	9.72
A50	1.50	C09	3.09	E50	5.50	K01	10.12
A62	1.62	C19	3.19	E69	5.69	K05	10.50
A69	1.69	C38	3.38	E75	5.75	K12	11.20
A81	1.81	C41	3.41	E94	5.94	K14	11.44
A88	1.88	C44	3.44	F19	6.19	K15	11.53
B22	2.22	C47	3.47	F31	6.31	K22	12.22
B25	2.25	C50	3.50	F44	6.44	K31	13.19
B31	2.31	C75	3.75	F69	6.69	K40	14.06

Table 5-1
Material and Treatment: ASTM Material Specifications

PIN	Material Spec	Material	UNS #
ASTM A31 — Boiler Rivet Steel			
EP6	ASTM A31, Grade A	Carbon Steel	...
EP7	ASTM A31, Grade B	Carbon Steel	...
ASTM A183 — Carbon Steel Track Bolts and Nuts			
AA1	ASTM A183, Grade 1	Alloy Steel	...
AA2	ASTM A183, Grade 2	Alloy Steel	...
ASTM A193/A193M — Alloy Steel and Stainless Steel Bolting Materials for High-Temperature Service			
AA3	ASTM A193/A193M, Grade B5	Stainless Steel	S50100
AA4	ASTM A193/A193M, Grade B6	Stainless Steel	S41000
AA5	ASTM A193/A193M, Grade B6X	Stainless Steel	S41000
AA6	ASTM A193/A193M, Grade B7	Alloy Steel	G41400
AA7	ASTM A193/A193M, Grade B7M	Alloy Steel	G41400
AA8	ASTM A193/A193M, Grade B16	Alloy Steel	K14072
AA9	ASTM A193/A193M, Grade B8, Class 1	Stainless Steel	S30400
AB0	ASTM A193/A193M, Grade B8C, Class 1	Stainless Steel	S34700
AB1	ASTM A193/A193M, Grade B8M, Class 1	Stainless Steel	S31600
AB2	ASTM A193/A193M, Grade B8P, Class 1	Stainless Steel	S30500
AB3	ASTM A193/A193M, Grade B8T, Class 1	Stainless Steel	S32100
AB4	ASTM A193/A193M, Grade B8LN, Class 1	Stainless Steel	S30453
AB5	ASTM A193/A193M, Grade B8MLN, Class 1	Stainless Steel	S31653
AB6	ASTM A193/A193M, Grade B8A, Class 1A	Stainless Steel	S30400
AB7	ASTM A193/A193M, Grade B8CA, Class 1A	Stainless Steel	S34700
AB8	ASTM A193/A193M, Grade B8MA, Class 1A	Stainless Steel	S31600
AB9	ASTM A193/A193M, Grade B8PA, Class 1A	Stainless Steel	S30500
AC0	ASTM A193/A193M, Grade B8TA, Class 1A	Stainless Steel	S32100
AC1	ASTM A193/A193M, Grade B8LNA, Class 1A	Stainless Steel	S30453
AC2	ASTM A193/A193M, Grade B8MLNA, Class 1A	Stainless Steel	S31653
AC3	ASTM A193/A193M, Grade B8NA, Class 1A	Stainless Steel	S30451
AC4	ASTM A193/A193M, Grade B8MNA, Class 1A	Stainless Steel	S31651
AC5	ASTM A193/A193M, Grade B8MLCuNA, Class 1A	Stainless Steel	S31254
AC6	ASTM A193/A193M, Grade B8N, Class 1B	Stainless Steel	S30451
AC7	ASTM A193/A193M, Grade B8MN, Class 1B	Stainless Steel	S31651
AC8	ASTM A193/A193M, Grade B8MLCuN, Class 1B	Stainless Steel	S31254
AC9	ASTM A193/A193M, Grade B8R, Class 1C	Stainless Steel	S20910
AD0	ASTM A193/A193M, Grade B8RA, Class 1C	Stainless Steel	S20910
AD1	ASTM A193/A193M, Grade B8S, Class 1C	Stainless Steel	S21800
AD2	ASTM A193/A193M, Grade B8SA, Class 1C	Stainless Steel	S21800
AD3	ASTM A193/A193M, Grade B8, Class 1D	Stainless Steel	S30400
AD4	ASTM A193/A193M, Grade B8M, Class 1D	Stainless Steel	S31600
AD5	ASTM A193/A193M, Grade B8P, Class 1D	Stainless Steel	S30500
AD6	ASTM A193/A193M, Grade B8LN, Class 1D	Stainless Steel	S30453
AD7	ASTM A193/A193M, Grade B8MLN, Class 1D	Stainless Steel	S31653
AD8	ASTM A193/A193M, Grade B8N, Class 1D	Stainless Steel	S30451
AD9	ASTM A193/A193M, Grade B8MN, Class 1D	Stainless Steel	S31651
AE0	ASTM A193/A193M, Grade B8R, Class 1D	Stainless Steel	S20910
AE1	ASTM A193/A193M, Grade B8S, Class 1D	Stainless Steel	S21800
AE2	ASTM A193/A193M, Grade B8, Class 2	Stainless Steel	S30400
AE3	ASTM A193/A193M, Grade B8C, Class 2	Stainless Steel	S34700
AE4	ASTM A193/A193M, Grade B8P, Class 2	Stainless Steel	S30500

Table 5-1
Material and Treatment: ASTM Material Specifications (Cont'd)

PIN	Material Spec	Material	UNS #
ASTM A193/A193M — Alloy Steel and Stainless Steel Bolting Materials for High-Temperature Service (Cont'd)			
AE5	ASTM A193/A193M, Grade B8T, Class 2	Stainless Steel	S32100
AE6	ASTM A193/A193M, Grade B8N, Class 2	Stainless Steel	S30451
AE7	ASTM A193/A193M, Grade B8M, Class 2	Stainless Steel	S31600
AE8	ASTM A193/A193M Grade B8MN, Class 2	Stainless Steel	S31651
AE9	ASTM A193/A193M, Grade B8MLCuN, Class 2	Stainless Steel	S31254
AF0	ASTM A193/A193M, Grade B8M2, Class 2B	Stainless Steel	S31600
AF1	ASTM A193/A193M, Grade B8, Class 2B	Stainless Steel	S30400
AF2	ASTM A193/A193M, Grade B8M3, Class 2C	Stainless Steel	S31600
ASTM A194/A194M — Carbon and Alloy Steel Nuts for Bolts for High-Pressure or High-Temperature Service			
AF3	ASTM A194/A194M, Grade 1	Carbon Steel	K01503
AF4	ASTM A194/A194M, Grade 1, Scale Free Bright Finish Required	Carbon Steel	K01503
AF5	ASTM A194/A194M, Grade 2	Carbon Steel	K04002
AF6	ASTM A194/A194M, Grade 2, Scale Free Bright Finish Required	Carbon Steel	K04002
AF7	ASTM A194/A194M, Grade 2H	Carbon Steel	K04002
AF8	ASTM A194/A194M Grade 2H, Scale Free Bright Finish Required	Carbon Steel	K04002
AF9	ASTM A194/A194M, Grade 2HM	Carbon Steel	K04002
AG0	ASTM A194/A194M, Grade 2HM, Scale Free Bright Finish Required	Carbon Steel	K04002
AG1	ASTM A194/A194M, Grade 3	Stainless Steel	S50100
AG2	ASTM A194/A194M, Grade 3, Scale Free Bright Finish Required	Stainless Steel	S50100
AG3	ASTM A194/A194M, Grade 4	Alloy Steel	K14510
AG4	ASTM A194/A194M, Grade 4, Scale Free Bright Finish Required	Alloy Steel	K14510
AG5	ASTM A194/A194M, Grade 4L	Alloy Steel	K14510
AG6	ASTM A194/A194M, Grade 4L, Scale Free Bright Finish Required	Alloy Steel	K14510
AG7	ASTM A194/A194M, Grade 6	Stainless Steel	S41000
AG8	ASTM A194/A194M, Grade 6, Scale Free Bright Finish Required	Stainless Steel	S41000
AG9	ASTM A194/A194M, Grade 6F	Stainless Steel	S41600
AH0	ASTM A194/A194M, Grade 6F, Scale Free Bright Finish Required	Stainless Steel	S41600
AH1	ASTM A194/A194M, Grade 7	Alloy Steel	G41400
AH2	ASTM A194/A194M, Grade 7, Scale Free Bright Finish Required	Alloy Steel	G41400
AH3	ASTM A194/A194M, Grade 7L	Alloy Steel	G41400
AH4	ASTM A194/A194M, Grade 7L, Scale Free Bright Finish Required	Alloy Steel	G41400
AH5	ASTM A194/A194M, Grade 7M	Alloy Steel	G41400
AH6	ASTM A194/A194M, Grade 7M, Scale Free Bright Finish Required	Alloy Steel	G41400
AH7	ASTM A194/A194M, Grade 16	Stainless Steel	K14072
AH8	ASTM A194/A194M, Grade 16, Scale Free Bright Finish Required	Stainless Steel	K14072
AH9	ASTM A194/A194M, Grade 8	Stainless Steel	S30400
AJ0	ASTM A194/A194M, Grade 8, Scale Free Bright Finish Required	Stainless Steel	S30400
AJ1	ASTM A194/A194M, Grade 8C	Stainless Steel	S34700
AJ2	ASTM A194/A194M, Grade 8C, Scale Free Bright Finish Required	Stainless Steel	S34700
AJ3	ASTM A194/A194M, Grade 8M	Stainless Steel	S31600
AJ4	ASTM A194/A194M, Grade 8M, Scale Free Bright Finish Required	Stainless Steel	S31600
AJ5	ASTM A194/A194M, Grade 8T	Stainless Steel	S32100
AJ6	ASTM A194/A194M, Grade 8T, Scale Free Bright Finish Required	Stainless Steel	S32100
AJ7	ASTM A194/A194M, Grade 8F	Stainless Steel	S30323
AJ8	ASTM A194/A194M, Grade 8F, Scale Free Bright Finish Required	Stainless Steel	S30323
AJ9	ASTM A194/A194M, Grade 8P	Stainless Steel	S30500
AK0	ASTM A194/A194M, Grade 8P, Scale Free Bright Finish Required	Stainless Steel	S30500
AK1	ASTM A194/A194M, Grade 8N	Stainless Steel	S30451

Table 5-1
Material and Treatment: ASTM Material Specifications (Cont'd)

PIN	Material Spec	Material	UNS #
ASTM A194/A194M — Carbon and Alloy Steel Nuts for Bolts for High-Pressure or High-Temperature Service (Cont'd)			
AK2	ASTM A194/A194M, Grade 8N, Scale Free Bright Finish Required	Stainless Steel	S30451
AK3	ASTM A194/A194M, Grade 8MN	Stainless Steel	S31651
AK4	ASTM A194/A194M, Grade 8MN, Scale Free Bright Finish Required	Stainless Steel	S31651
AK5	ASTM A194/A194M, Grade 8R	Stainless Steel	S20910
AK6	ASTM A194/A194M, Grade 8R, Scale Free Bright Finish Required	Stainless Steel	S20910
AK7	ASTM A194/A194M Grade 8S	Stainless Steel	S21800
AK8	ASTM A194/A194M, Grade 8S, Scale Free Bright Finish Required	Stainless Steel	S21800
AK9	ASTM A194/A194M, Grade 8LN	Stainless Steel	S30453
AL0	ASTM A194/A194M, Grade 8LN, Scale Free Bright Finish Required	Stainless Steel	S30453
AL1	ASTM A194/A194M, Grade 8MLN	Stainless Steel	S31653
AL2	ASTM A194/A194M, Grade 8MLN, Scale Free Bright Finish Required	Stainless Steel	S31653
AL3	ASTM A194/A194M, Grade 8MLCuN	Stainless Steel	S31653
AL4	ASTM A194/A194M, Grade 8MLCuN, Scale Free Bright Finish Required	Stainless Steel	S31653
AL5	ASTM A194/A194M, Grade 9C	Stainless Steel	N08367
AL6	ASTM A194/A194M, Grade 9C, Scale Free Bright Finish Required	Stainless Steel	N08367
AL7	ASTM A194/A194M, Grade 8A	Stainless Steel	S30400
AL8	ASTM A194/A194M, Grade 8A, Scale Free Bright Finish Required	Stainless Steel	S30400
AL9	ASTM A194/A194M, Grade 8CA	Stainless Steel	S34700
AM0	ASTM A194/A194M, Grade 8CA, Scale Free Bright Finish Required	Stainless Steel	S34700
AM1	ASTM A194/A194M, Grade 8MA	Stainless Steel	S31600
AM2	ASTM A194/A194M, Grade 8MA, Scale Free Bright Finish Required	Stainless Steel	S31600
AM3	ASTM A194/A194M, Grade 8TA	Stainless Steel	S32100
AM4	ASTM A194/A194M, Grade 8TA, Scale Free Bright Finish Required	Stainless Steel	S32100
AM5	ASTM A194/A194M, Grade 8FA	Stainless Steel	S30323
AM6	ASTM A194/A194M, Grade 8FA, Scale Free Bright Finish Required	Stainless Steel	S30323
AM7	ASTM A194/A194M, Grade 8PA	Stainless Steel	S30500
AM8	ASTM A194/A194M, Grade 8PA, Scale Free Bright Finish Required	Stainless Steel	S30500
AM9	ASTM A194/A194M, Grade 8NA	Stainless Steel	S30451
AN0	ASTM A194/A194M, Grade 8NA, Scale Free Bright Finish Required	Stainless Steel	S30451
AN1	ASTM A194/A194M, Grade 8MNA	Stainless Steel	S31651
AN2	ASTM A194/A194M, Grade 8MNA, Scale Free Bright Finish Required	Stainless Steel	S31651
AN3	ASTM A194/A194M Grade 8RA	Stainless Steel	S20910
AN4	ASTM A194/A194M, Grade 8RA, Scale Free Bright Finish Required	Stainless Steel	S20910
AN5	ASTM A194/A194M, Grade 8SA	Stainless Steel	S21800
AN6	ASTM A194/A194M, Grade 8SA, Scale Free Bright Finish Required	Stainless Steel	S21800
AN7	ASTM A194/A194M, Grade 8LNA	Stainless Steel	S30453
AN8	ASTM A194/A194M, Grade 8LNA, Scale Free Bright Finish Required	Stainless Steel	S30453
AN9	ASTM A194/A194M, Grade 8MLNA	Stainless Steel	S31653
AP0	ASTM A194/A194M, Grade 8MLNA, Scale Free Bright Finish Required	Stainless Steel	S31653
AP1	ASTM A194/A194M, Grade 8MLCuNA	Stainless Steel	S31653
AP2	ASTM A194/A194M, Grade 8MLCuNA, Scale Free Bright Finish Required	Stainless Steel	S31653
AP3	ASTM A194/A194M, Grade 9CA	Stainless Steel	N08367
AP4	ASTM A194/A194M, Grade 9CA, Scale Free Bright Finish Required	Stainless Steel	N08368
ASTM A307 — Carbon Steel Bolts and Studs, 60 000 PSI Tensile Strength			
AP5	ASTM A307, Grade A	Carbon Steel	...
AP6	ASTM A307, Grade B	Carbon Steel	...
AP7	ASTM A307, Grade C	Carbon Steel	...

Table 5-1
Material and Treatment: ASTM Material Specifications (Cont'd)

PIN	Material Spec	Material	UNS #
ASTM A320/A320M — Alloy-Steel Bolting Materials for Low-Temperature Service			
AP8	ASTM A320/A320M, Grade L7	Alloy Steel	G41400
AP9	ASTM A320/A320M, Grade L7, Scale Free Bright Finish Required	Alloy Steel	G41400
AQ0	ASTM A320/A320M, Grade L7A	Alloy Steel	G40370
AQ1	ASTM A320/A320M, Grade L7A, Scale Free Bright Finish Required	Alloy Steel	G40370
AQ2	ASTM A320/A320M, Grade L7B	Alloy Steel	G41370
AQ3	ASTM A320/A320M, Grade L7B, Scale Free Bright Finish Required	Alloy Steel	G41370
AQ4	ASTM A320/A320M, Grade L7C	Alloy Steel	G87400
AQ5	ASTM A320/A320M, Grade L7C, Scale Free Bright Finish Required	Alloy Steel	G87400
AQ6	ASTM A320/A320M, Grade L70	Alloy Steel	...
AQ7	ASTM A320/A320M, Grade L70, Scale Free Bright Finish Required	Alloy Steel	...
AQ8	ASTM A320/A320M, Grade L71	Alloy Steel	G40370
AQ9	ASTM A320/A320M, Grade L71, Scale Free Bright Finish Required	Alloy Steel	G40370
AR0	ASTM A320/A320M, Grade L72	Alloy Steel	...
AR1	ASTM A320/A320M, Grade L72, Scale Free Bright Finish Required	Alloy Steel	...
AR2	ASTM A320/A320M, Grade L73	Alloy Steel	...
AR3	ASTM A320/A320M, Grade L73, Scale Free Bright Finish Required	Alloy Steel	...
AR4	ASTM A320/A320M, Grade L43	Alloy Steel	G43400
AR5	ASTM A320/A320M, Grade L43, Scale Free Bright Finish Required	Alloy Steel	G43400
AR6	ASTM A320/A320M, Grade L7M	Alloy Steel	G41400
AR7	ASTM A320/A320M, Grade L7M, Scale Free Bright Finish Required	Alloy Steel	G41400
AR8	ASTM A320/A320M, Grade L1	Alloy Steel	...
AR9	ASTM A320/A320M, Grade L1, Scale Free Bright Finish Required	Alloy Steel	...
AS0	ASTM A320/A320M, Grade B8, Class 1	Stainless Steel	S30400
AS1	ASTM A320/A320M, Grade B8, Class 1, Scale Free Bright Finish Required	Stainless Steel	S30400
AS2	ASTM A320/A320M, Grade B8C, Class 1	Stainless Steel	S34700
AS3	ASTM A320/A320M, Grade B8C, Class 1, Scale Free Bright Finish Required	Stainless Steel	S34700
AS4	ASTM A320/A320M, Grade B8M, Class 1	Stainless Steel	S31600
AS5	ASTM A320/A320M, Grade B8M, Class 1, Scale Free Bright Finish Required	Stainless Steel	S31600
AS6	ASTM A320/A320M, Grade B8P, Class 1	Stainless Steel	S30500
AS7	ASTM A320/A320M, Grade B8P, Class 1, Scale Free Bright Finish Required	Stainless Steel	S30500
AS8	ASTM A320/A320M, Grade B8F, Class 1	Stainless Steel	S30323
AS9	ASTM A320/A320M, Grade B8F, Class 1, Scale Free Bright Finish Required	Stainless Steel	S30323
AT0	ASTM A320/A320M, Grade B8T, Class 1	Stainless Steel	S32100
AT1	ASTM A320/A320M, Grade B8T, Class 1, Scale Free Bright Finish Required	Stainless Steel	S32100
AT2	ASTM A320/A320M, Grade B8LN, Class 1	Stainless Steel	S30453
AT3	ASTM A320/A320M, Grade B8LN, Class 1, Scale Free Bright Finish Required	Stainless Steel	S30453
AT4	ASTM A320/A320M, Grade B8MLN, Class 1	Stainless Steel	S31653
AT5	ASTM A320/A320M, Grade B8MLN, Class 1, Scale Free Bright Finish Required	Stainless Steel	S31653
AT6	ASTM A320/A320M, Grade B8A, Class 1A	Stainless Steel	...
AT7	ASTM A320/A320M, Grade B8A, Class 1A, Scale Free Bright Finish Required	Stainless Steel	...
AT8	ASTM A320/A320M, Grade B8CA, Class 1A	Stainless Steel	...
AT9	ASTM A320/A320M, Grade B8CA, Class 1A, Scale Free Bright Finish Required	Stainless Steel	...
AU0	ASTM A320/A320M, Grade B8MA, Class 1A	Stainless Steel	...
AU1	ASTM A320/A320M, Grade B8MA, Class 1A, Scale Free Bright Finish Required	Stainless Steel	...
AU2	ASTM A320/A320M, Grade B8PA, Class 1A	Stainless Steel	...
AU3	ASTM A320/A320M, Grade B8PA, Class 1A, Scale Free Bright Finish Required	Stainless Steel	...
AU4	ASTM A320/A320M, Grade B8FA, Class 1A	Stainless Steel	...
AU5	ASTM A320/A320M, Grade B8FA, Class 1A, Scale Free Bright Finish Required	Stainless Steel	...

Table 5-1
Material and Treatment: ASTM Material Specifications (Cont'd)

PIN	Material Spec	Material	UNS #
ASTM A320/A320M — Alloy-Steel Bolting Materials for Low-Temperature Service (Cont'd)			
AU6	ASTM A320/A320M, Grade B8TA, Class 1A	Stainless Steel	...
AU7	ASTM A320/A320M, Grade B8TA, Class 1A, Scale Free Bright Finish Required	Stainless Steel	...
AU8	ASTM A320/A320M, Grade B8LNA, Class 1A	Stainless Steel	...
AU9	ASTM A320/A320M, Grade B8LNA, Class 1A, Scale Free Bright Finish Required	Stainless Steel	...
AV0	ASTM A320/A320M, Grade B8MLNA, Class 1A	Stainless Steel	...
AV1	ASTM A320/A320M, Grade B8MLNA, Class 1A, Scale Free Bright Finish Required	Stainless Steel	...
AV2	ASTM A320/A320M, Grade B8, Class 2	Stainless Steel	S30400
AV3	ASTM A320/A320M, Grade B8, Class 2, Scale Free Bright Finish Required	Stainless Steel	S30400
AV4	ASTM A320/A320M, Grade B8C, Class 2	Stainless Steel	S34700
AV5	ASTM A320/A320M, Grade B8C, Class 2, Scale Free Bright Finish Required	Stainless Steel	S34700
AV6	ASTM A320/A320M, Grade B8P, Class 2	Stainless Steel	S30500
AV7	ASTM A320/A320M, Grade B8P, Class 2, Scale Free Bright Finish Required	Stainless Steel	S30500
AV8	ASTM A320/A320M, Grade B8F, Class 2	Stainless Steel	S30323
AV9	ASTM A320/A320M, Grade B8F, Class 2, Scale Free Bright Finish Required	Stainless Steel	S30323
AW0	ASTM A320/A320M, Grade B8M, Class 2	Stainless Steel	S31600
AW1	ASTM A320/A320M, Grade B8M, Class 2, Scale Free Bright Finish Required	Stainless Steel	S31600
AW2	ASTM A320/A320M, Grade B8T, Class 2	Stainless Steel	S32100
AW3	ASTM A320/A320M, Grade B8T, Class 2, Scale Free Bright Finish Required	Stainless Steel	S32100
ASTM A325 — Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength			
AW4	ASTM A325, Grade Type 1	Carbon Steel	K02706
AW5	ASTM A325, Grade Type 3	Carbon Steel	K11510
ASTM A325M — Structural Bolts, Steel Heat Treated 830 MPa Minimum Tensile Strength (Metric)			
AW6	ASTM A325M, Grade Type 1	Carbon Steel	...
AW7	ASTM A325M, Grade Type 3	Carbon Steel	...
ASTM A354 — Quenched and Tempered Alloy Steel Bolts, Studs, and Other Externally Threaded Fasteners			
AW8	ASTM A354, Grade BC	Alloy Steel	K04100
AW9	ASTM A354, Grade BD	Alloy Steel	K04100
ASTM A394 — Steel Transmission Tower Bolts, Zinc-Coated and Bare			
AX0	ASTM A394, Grade Type 0	Carbon Steel	...
AX1	ASTM A394, Grade Type 1	Carbon Steel	...
AX2	ASTM A394, Grade Type 2	Carbon Steel	...
AX3	ASTM A394, Grade Type 3	Stainless Steel	...
ASTM A449 — Quenched and Tempered Steel Bolts and Studs			
AX4	ASTM A449, Grade Type 1	Carbon Steel	K04200
AX5	ASTM A449, Grade Type 2	Carbon Steel	K04200
AX6	ASTM A449, Grade Type 1 or 2	Carbon Steel	K04200
ASTM A453/A453M — Quenched and Tempered Steel Bolts and Studs			
AX7	ASTM A453/A453M, Grade 660, Class A (130 ksi)	Stainless Steel	S66286
AX8	ASTM A453/A453M, Grade 660, Class B (130 ksi)	Stainless Steel	S66286
AX9	ASTM A453/A453M, Grade 660, Class C (130 ksi)	Stainless Steel	S66286
AY0	ASTM A453/A453M, Grade 651, Class A (100 ksi)	Stainless Steel	S63198
AY1	ASTM A453/A453M, Grade 651, Class B (95 ksi)	Stainless Steel	S63198
AY2	ASTM A453/A453M, Grade 662, Class A (130 ksi)	Stainless Steel	S66220
AY3	ASTM A453/A453M, Grade 662, Class B (125 ksi)	Stainless Steel	S66220
AY4	ASTM A453/A453M, Grade 665, Class A (170 ksi)	Stainless Steel	S66545
AY5	ASTM A453/A453M, Grade 665, Class B (155 ksi)	Stainless Steel	S66545

Table 5-1
Material and Treatment: ASTM Material Specifications (Cont'd)

PIN	Material Spec	Material	UNS #
ASTM A489— Carbon Steel Lifting Eyes			
AY6	ASTM A489, Type 1, Style A	Carbon Steel	K04800
AY7	ASTM A489, Type 1, Style B	Carbon Steel	K04800
AY8	ASTM A489, Type 2, Style A	Carbon Steel	K04800
AY9	ASTM A489, Type 2, Style B	Carbon Steel	K04800
ASTM A490 — Structural Bolts, Alloy Steel, Heat Treated, 150 ksi Minimum Tensile Strength			
AZ0	ASTM A490, Type 1	Alloy Steel	K03900
AZ1	ASTM A490, Type 3	Alloy Steel	K03900
ASTM A490M — High-Strength Steel Bolts, Classes 10.9 and 10.9.3, for Structural Steel Joints (Metric)			
AZ2	ASTM A490M, Type 1	Alloy Steel	K03900
AZ3	ASTM A490M, Type 3	Alloy Steel	K03900
ASTM A563 — Carbon and Alloy Steel Nuts			
AZ4	ASTM A563, Grade A	Carbon Steel	K05802
AZ5	ASTM A563, Grade B	Carbon Steel	K05802
AZ6	ASTM A563, Grade D	Carbon Steel	K05801
AZ7	ASTM A563, Grade DH	Carbon Steel	K03800
AZ8	ASTM A563, Grade DH3	Alloy Steel	K13650
AZ9	ASTM A563, Grade C	Carbon Steel	K05802
BA0	ASTM A563, Grade C3	Alloy Steel	...
BA1	ASTM A563, Grade O	Carbon Steel	K05802
ASTM A563M — Carbon and Alloy Steel Nuts (Metric)			
BA2	ASTM A563M, Property Class 5	Carbon/Alloy Steel	...
BA3	ASTM A563M, Property Class 5 Overtapped	Carbon/Alloy Steel	...
BA4	ASTM A563M, Property Class 8S	Carbon/Alloy Steel	...
BA5	ASTM A563M, Property Class 8S3	Carbon/Alloy Steel	...
BA6	ASTM A563M, Property Class 9	Carbon/Alloy Steel	...
BA7	ASTM A563M, Property Class 10	Carbon/Alloy Steel	...
BA8	ASTM A563M, Property Class 10S3	Carbon/Alloy Steel	...
BA9	ASTM A563M, Property Class 10S Overtapped	Carbon/Alloy Steel	...
BB0	ASTM A563M, Property Class 10S	Carbon/Alloy Steel	...
BB1	ASTM A563M, Property Class 12	Carbon/Alloy Steel	...
BB2	ASTM A563M, Property Class 12 Overtapped	Carbon/Alloy Steel	...
ASTM A574 — Alloy Steel Socket-Head Cap Screws			
BB3	ASTM A574, Alloy Steel	Alloy Steel	...
BB4	ASTM A574, Grade 4037	Alloy Steel	G40370
BB5	ASTM A574, Grade 4042	Alloy Steel	G40420
BB6	ASTM A574, Grade 4137	Alloy Steel	G41370
BB7	ASTM A574, Grade 4140	Alloy Steel	G41400
BB8	ASTM A574, Grade 4142	Alloy Steel	G41420
BB9	ASTM A574, Grade 4145	Alloy Steel	G41450
BC0	ASTM A574, Grade 4340	Alloy Steel	G43400
BC1	ASTM A574, Grade 8740	Alloy Steel	G87400
BC2	ASTM A574, Grade 5137M	Alloy Steel	K13745
BC3	ASTM A574, Grade 513B7M	Alloy Steel	K13647
ASTM A574M — Alloy Steel Socket-Head Cap Screws (Metric)			
BC4	ASTM A574M, Alloy Steel	Alloy Steel	...
BC5	ASTM A574M, Grade 4037	Alloy Steel	G40370
BC6	ASTM A574M, Grade 4042	Alloy Steel	G40420

Table 5-1
Material and Treatment: ASTM Material Specifications (Cont'd)

PIN	Material Spec	Material	UNS #
ASTM A574M — Alloy Steel Socket-Head Cap Screws (Metric) (Cont'd)			
BC7	ASTM A574M, Grade 4137	Alloy Steel	G41370
BC8	ASTM A574M, Grade 4140	Alloy Steel	G41400
BC9	ASTM A574M, Grade 4142	Alloy Steel	G41420
BD0	ASTM A574M, Grade 4145	Alloy Steel	G41450
BD1	ASTM A574M, Grade 4340	Alloy Steel	G43400
BD2	ASTM A574M, Grade 8740	Alloy Steel	G87400
BD3	ASTM A574M, Grade 5137M	Alloy Steel	K13745
BD4	ASTM A574M, Grade 513B7M	Alloy Steel	K13647
ASTM A687 — High-Strength Nonheaded Steel Bolts and Studs (Withdrawn 1999)			
BD5	ASTM A687	Carbon Steel	...
ASTM B99 — Copper-Silicon Alloy Wire			
FA1	ASTM B99, Copper Alloy No. 651	Silicon Bronze	C65100
FA2	ASTM B99, Copper Alloy No. 655	Silicon Bronze	C65500
ASTM B159 — Phosphor Bronze Wire			
FB1	ASTM B159, Copper Alloy No. 510	Phosphor Bronze	C51000
ASTM B211 — Aluminum and Aluminum Alloy			
FC1	ASTM B211, Alloy 7075	Aluminum	A97075
ASTM F436 — Hardened Steel Washers			
BD6	ASTM F436, Type 1 - Carbon Steel	Carbon Steel	...
BD7	ASTM F436, Type 3 - Weathering Steel	Stainless Steel	...
ASTM F436M — Hardened Steel Washers (Metric)			
BD8	ASTM F436M, Type 1 - Carbon Steel	Carbon Steel	...
BD9	ASTM F436M, Type 3 - Weathering Steel	Stainless Steel	...
ASTM F467 — Nonferrous Nuts for General Use			
BE0	ASTM F467, Alloy 110	ETP Copper	C11000
BE1	ASTM F467, Alloy 110, Stress Relieved	ETP Copper	C11000
BE2	ASTM F467, Alloy 270	Brass	C27000
BE3	ASTM F467, Alloy 270, Stress Relieved	Brass	C27000
BE4	ASTM F467, Alloy 462	Naval Brass	C46200
BE5	ASTM F467, Alloy 462, Stress Relieved	Naval Brass	C46200
BE6	ASTM F467, Alloy 464	Naval Brass	C46400
BE7	ASTM F467, Alloy 464, Stress Relieved	Naval Brass	C46400
BE8	ASTM F467, Alloy 510	Phosphor Bronze	C51000
BE9	ASTM F467, Alloy 510, Stress Relieved	Phosphor Bronze	C51000
BF0	ASTM F467, Alloy 613	Aluminum Bronze	C61300
BF1	ASTM F467, Alloy 613, Stress Relieved	Aluminum Bronze	C61300
BF2	ASTM F467, Alloy 614	Aluminum Bronze	C61400
BF3	ASTM F467, Alloy 614, Stress Relieved	Aluminum Bronze	C61400
BF4	ASTM F467, Alloy 630	Aluminum Bronze	C63000
BF5	ASTM F467, Alloy 630, Stress Relieved	Aluminum Bronze	C63000
BF6	ASTM F467, Alloy 642	Aluminum Silicon Bronze	C64200
BF7	ASTM F467, Alloy 642, Stress Relieved	Aluminum Silicon Bronze	C64201
BF8	ASTM F467, Alloy 651	Silicon Bronze	C65100
BF9	ASTM F467, Alloy 651, Stress Relieved	Silicon Bronze	C65100
BG0	ASTM F467, Alloy 655	Silicon Bronze	C65500
BG1	ASTM F467, Alloy 655, Stress Relieved	Silicon Bronze	C65500
BG2	ASTM F467, Alloy 661	Silicon Bronze	C66100

Table 5-1
Material and Treatment: ASTM Material Specifications (Cont'd)

PIN	Material Spec	Material	UNS #
ASTM F467 — Nonferrous Nuts for General Use (Cont'd)			
BG3	ASTM F467, Alloy 661, Stress Relieved	Silicon Bronze	C66100
BG4	ASTM F467, Alloy 675	Manganese Bronze	C67500
BG5	ASTM F467, Alloy 675, Stress Relieved	Manganese Bronze	C67500
BG6	ASTM F467, Alloy 710	Cupro-Nickel	C71000
BG7	ASTM F467, Alloy 710, Stress Relieved	Cupro-Nickel	C71000
BG8	ASTM F467, Alloy 715	Cupro-Nickel	C71500
BG9	ASTM F467, Alloy 715, Stress Relieved	Cupro-Nickel	C71500
BH0	ASTM F467, Alloy 335	Ni-Mo	N10001
BH1	ASTM F467, Alloy 335, Stress Relieved	Ni-Mo	N10001
BH2	ASTM F467, Alloy 276	Ni-Mo-Cr	N10276
BH3	ASTM F467, Alloy 276, Stress Relieved	Ni-Mo-Cr	N10276
BH4	ASTM F467, Alloy 400	Ni-Cu Class A	N04400
BH5	ASTM F467, Alloy 400, Stress Relieved	Ni-Cu Class A	N04400
BH6	ASTM F467, Alloy 405	Ni-Cu Class B	N04405
BH7	ASTM F467, Alloy 405, Stress Relieved	Ni-Cu Class B	N04405
BH8	ASTM F467, Alloy 500	Ni-Cu-Al	N05500
BH9	ASTM F467, Alloy 500, Stress Relieved	Ni-Cu-Al	N05500
BJ0	ASTM F467, Alloy 686	Ni-Cr-Mo-W	N06686
BJ1	ASTM F467, Alloy 686, Stress Relieved	Ni-Cr-Mo-W	N06686
BJ2	ASTM F467, Alloy 2024	Aluminum 2024	A92024
BJ3	ASTM F467, Alloy 2024, Stress Relieved	Aluminum 2024	A92024
BJ4	ASTM F467, Alloy 6061	Aluminum 6061	A96061
BJ5	ASTM F467, Alloy 6061, Stress Relieved	Aluminum 6061	A96061
BJ6	ASTM F467, Alloy 6262	Aluminum 6262	A96262
BJ7	ASTM F467, Alloy 6262, Stress Relieved	Aluminum 6262	A96262
BJ8	ASTM F467, Alloy 1	Titanium Gr 1	R50250
BJ9	ASTM F467, Alloy 1, Stress Relieved	Titanium Gr 1	R50250
BK0	ASTM F467, Alloy 2	Titanium Gr 2	R50400
BK1	ASTM F467, Alloy 2, Stress Relieved	Titanium Gr 2	R50400
BK2	ASTM F467, Alloy 4	Titanium Gr 4	R50700
BK3	ASTM F467, Alloy 4, Stress Relieved	Titanium Gr 4	R50700
BK4	ASTM F467, Alloy 5	Titanium Gr 5	R56400
BK5	ASTM F467, Alloy 5, Stress Relieved	Titanium Gr 5	R56400
BK6	ASTM F467, Alloy 23	Titanium Ti-6Al-4V	R56401
BK7	ASTM F467, Alloy 23, Stress Relieved	Titanium Ti-6Al-4V	R56401
BK8	ASTM F467, Alloy 7	Titanium Gr 7	R52400
BK9	ASTM F467, Alloy 7, Stress Relieved	Titanium Gr 7	R52400
BL0	ASTM F467, Alloy 19	Titanium Ti-38-6-44	R58640
BL1	ASTM F467, Alloy 19, Stress Relieved	Titanium Ti-38-6-44	R58640
BL2	ASTM F467, Alloy 32	Titanium Ti-5-1-1-1	R55111
BL3	ASTM F467, Alloy 32, Stress Relieved	Titanium Ti-5-1-1-1	R55111
ASTM F467M — Nonferrous Nuts for General Use (Metric)			
BL4	ASTM F467M, Alloy 110	ETP Copper	C11000
BL5	ASTM F467M, Alloy 110, Stress Relieved	ETP Copper	C11000
BL6	ASTM F467M, Alloy 270	Brass	C27000
BL7	ASTM F467M, Alloy 270, Stress Relieved	Brass	C27000
BL8	ASTM F467M, Alloy 462	Naval Brass	C46200
BL9	ASTM F467M, Alloy 462, Stress Relieved	Naval Brass	C46200

Table 5-1
Material and Treatment: ASTM Material Specifications (Cont'd)

PIN	Material Spec	Material	UNS #
ASTM F467M — Nonferrous Nuts for General Use (Metric) (Cont'd)			
BM0	ASTM F467M, Alloy 464	Naval Brass	C46400
BM1	ASTM F467M, Alloy 464, Stress Relieved	Naval Brass	C46400
BM2	ASTM F467M, Alloy 510	Phosphor Bronze	C51000
BM3	ASTM F467M, Alloy 510, Stress Relieved	Phosphor Bronze	C51000
BM4	ASTM F467M, Alloy 614	Aluminum Bronze	C61400
BM5	ASTM F467M, Alloy 614, Stress Relieved	Aluminum Bronze	C61400
BM6	ASTM F467M, Alloy 630	Aluminum Bronze	C63000
BM7	ASTM F467M, Alloy 630, Stress Relieved	Aluminum Bronze	C63000
BM8	ASTM F467M, Alloy 642	Aluminum Silicon Bronze	C64200
BM9	ASTM F467M, Alloy 642, Stress Relieved	Aluminum Silicon Bronze	C64201
BN0	ASTM F467M, Alloy 651	Silicon Bronze	C65100
BN1	ASTM F467M, Alloy 651, Stress Relieved	Silicon Bronze	C65100
BN2	ASTM F467M, Alloy 655	Silicon Bronze	C65500
BN3	ASTM F467M, Alloy 655, Stress Relieved	Silicon Bronze	C65500
BN4	ASTM F467M, Alloy 661	Silicon Bronze	C66100
BN5	ASTM F467M, Alloy 661, Stress Relieved	Silicon Bronze	C66100
BN6	ASTM F467M, Alloy 675	Manganese Bronze	C67500
BN7	ASTM F467M, Alloy 675, Stress Relieved	Manganese Bronze	C67500
BN8	ASTM F467M, Alloy 710	Cupro-Nickel	C71000
BN9	ASTM F467M, Alloy 710, Stress Relieved	Cupro-Nickel	C71000
BP0	ASTM F467M, Alloy 715	Cupro-Nickel	C71500
BP1	ASTM F467M, Alloy 715, Stress Relieved	Cupro-Nickel	C71500
BP2	ASTM F467M, Alloy 335	Ni-Mo	N10001
BP3	ASTM F467M, Alloy 335, Stress Relieved	Ni-Mo	N10001
BP4	ASTM F467M, Alloy 276	Ni-Mo-Cr	N10276
BP5	ASTM F467M, Alloy 276, Stress Relieved	Ni-Mo-Cr	N10276
BP6	ASTM F467M, Alloy 400	Ni-Cu Class A	N04400
BP7	ASTM F467M, Alloy 400, Stress Relieved	Ni-Cu Class A	N04400
BP8	ASTM F467M, Alloy 405	Ni-Cu Class B	N04405
BP9	ASTM F467M, Alloy 405, Stress Relieved	Ni-Cu Class B	N04405
BQ0	ASTM F467M, Alloy 500	Ni-Cu-Al	N05500
BQ1	ASTM F467M, Alloy 500, Stress Relieved	Ni-Cu-Al	N05500
BQ2	ASTM F467M, Alloy 686	Ni-Cr-Mo-W	N06686
BQ3	ASTM F467M, Alloy 686, Stress Relieved	Ni-Cr-Mo-W	N06686
BQ4	ASTM F467M, Alloy 2024	Aluminum 2024	A92024
BQ5	ASTM F467M, Alloy 2024, Stress Relieved	Aluminum 2024	A92024
BQ6	ASTM F467M, Alloy 6061	Aluminum 6061	A96061
BQ7	ASTM F467M, Alloy 6061, Stress Relieved	Aluminum 6061	A96061
BQ8	ASTM F467M, Alloy 6262	Aluminum 6262	A96262
BQ9	ASTM F467M, Alloy 6262, Stress Relieved	Aluminum 6262	A96262
BR0	ASTM F467M, Alloy 1	Titanium Gr 1	R50250
BR1	ASTM F467M, Alloy 1, Stress Relieved	Titanium Gr 1	R50250
BR2	ASTM F467M, Alloy 2	Titanium Gr 2	R50400
BR3	ASTM F467M, Alloy 2, Stress Relieved	Titanium Gr 2	R50400
BR4	ASTM F467M, Alloy 4	Titanium Gr 4	R50700
BR5	ASTM F467M, Alloy 4, Stress Relieved	Titanium Gr 4	R50700
BR6	ASTM F467M, Alloy 5	Titanium Gr 5	R56400
BR7	ASTM F467M, Alloy 5, Stress Relieved	Titanium Gr 5	R56400

Table 5-1
Material and Treatment: ASTM Material Specifications (Cont'd)

PIN	Material Spec	Material	UNS #
ASTM F467M — Nonferrous Nuts for General Use (Metric) (Cont'd)			
BR8	ASTM F467M, Alloy 23	Titanium Ti-6Al-4V	R56401
BR9	ASTM F467M, Alloy 23, Stress Relieved	Titanium Ti-6Al-4V	R56401
BS0	ASTM F467M, Alloy 7	Titanium Gr 7	R52400
BS1	ASTM F467M, Alloy 7, Stress Relieved	Titanium Gr 7	R52400
BS2	ASTM F467M, Alloy 19	Titanium Ti-38-6-44	R58640
BS3	ASTM F467M, Alloy 19, Stress Relieved	Titanium Ti-38-6-44	R58640
BS4	ASTM F467M, Alloy 32	Titanium Ti-5-1-1-1	R55111
BS5	ASTM F467M, Alloy 32, Stress Relieved	Titanium Ti-5-1-1-1	R55111
ASTM F468 — Nonferrous Bolts, Hex Cap Screws, and Studs for General Use			
BS6	ASTM F468, Alloy 110	ETP Copper	C11000
BS7	ASTM F468, Alloy 110, Stress Relieved	ETP Copper	C11000
BS8	ASTM F468, Alloy 270	Brass	C27000
BS9	ASTM F468, Alloy 270, Stress Relieved	Brass	C27000
BT0	ASTM F468, Alloy 462	Naval Brass	C46200
BT1	ASTM F468, Alloy 462, Stress Relieved	Naval Brass	C46200
BT2	ASTM F468, Alloy 464	Naval Brass	C46400
BT3	ASTM F468, Alloy 464, Stress Relieved	Naval Brass	C46400
BT4	ASTM F468, Alloy 510	Phosphor Bronze	C51000
BT5	ASTM F468, Alloy 510, Stress Relieved	Phosphor Bronze	C51000
BT6	ASTM F468, Alloy 613	Aluminum Bronze	C61300
BT7	ASTM F468, Alloy 613, Stress Relieved	Aluminum Bronze	C61300
BT8	ASTM F468, Alloy 614	Aluminum Bronze	C61400
BT9	ASTM F468, Alloy 614, Stress Relieved	Aluminum Bronze	C61400
BU0	ASTM F468, Alloy 630	Aluminum Bronze	C63000
BU1	ASTM F468, Alloy 630, Stress Relieved	Aluminum Bronze	C63000
BU2	ASTM F468, Alloy 642	Aluminum Silicon Bronze	C64200
BU3	ASTM F468, Alloy 642, Stress Relieved	Aluminum Silicon Bronze	C64201
BU4	ASTM F468, Alloy 651	Silicon Bronze	C65100
BU5	ASTM F468, Alloy 651, Stress Relieved	Silicon Bronze	C65100
BU6	ASTM F468, Alloy 655	Silicon Bronze	C65500
BU7	ASTM F468, Alloy 655, Stress Relieved	Silicon Bronze	C65500
BU8	ASTM F468, Alloy 661	Silicon Bronze	C66100
BU9	ASTM F468, Alloy 661, Stress Relieved	Silicon Bronze	C66100
BV0	ASTM F468, Alloy 675	Manganese Bronze	C67500
BV1	ASTM F468, Alloy 675, Stress Relieved	Manganese Bronze	C67500
BV2	ASTM F468, Alloy 710	Cupro-Nickel	C71000
BV3	ASTM F468, Alloy 710, Stress Relieved	Cupro-Nickel	C71000
BV4	ASTM F468, Alloy 715	Cupro-Nickel	C71500
BV5	ASTM F468, Alloy 715, Stress Relieved	Cupro-Nickel	C71500
BV6	ASTM F468, Alloy 335	Ni-Mo	N10001
BV7	ASTM F468, Alloy 335, Stress Relieved	Ni-Mo	N10001
BV8	ASTM F468, Alloy 276	Ni-Mo-Cr	N10276
BV9	ASTM F468, Alloy 276, Stress Relieved	Ni-Mo-Cr	N10276
BW0	ASTM F468, Alloy 400	Ni-Cu Class A	N04400
BW1	ASTM F468, Alloy 400, Stress Relieved	Ni-Cu Class A	N04400
BW2	ASTM F468, Alloy 405	Ni-Cu Class B	N04405
BW3	ASTM F468, Alloy 405, Stress Relieved	Ni-Cu Class B	N04405
BW4	ASTM F468, Alloy 500	Ni-Cu-Al	N05500

Table 5-1
Material and Treatment: ASTM Material Specifications (Cont'd)

PIN	Material Spec	Material	UNS #
ASTM F468 — Nonferrous Bolts, Hex Cap Screws, and Studs for General Use (Cont'd)			
BW5	ASTM F468, Alloy 500, Stress Relieved	Ni-Cu-Al	N05500
BW6	ASTM F468, Alloy 686	Ni-Cr-Mo-W	N06686
BW7	ASTM F468, Alloy 686, Stress Relieved	Ni-Cr-Mo-W	N06686
BW8	ASTM F468, Alloy 2024	Aluminum 2024	A92024
BW9	ASTM F468, Alloy 2024, Stress Relieved	Aluminum 2024	A92024
BX0	ASTM F468, Alloy 6061	Aluminum 6061	A96061
BX1	ASTM F468, Alloy 6061, Stress Relieved	Aluminum 6061	A96061
BX2	ASTM F468, Alloy 7075	Aluminum 7075	A97075
BX3	ASTM F468, Alloy 7075, Stress Relieved	Aluminum 7075	A97075
BX4	ASTM F468, Alloy 1	Titanium Gr 1	R50250
BX5	ASTM F468, Alloy 1, Stress Relieved	Titanium Gr 1	R50250
BX6	ASTM F468, Alloy 2	Titanium Gr 2	R50400
BX7	ASTM F468, Alloy 2, Stress Relieved	Titanium Gr 2	R50400
BX8	ASTM F468, Alloy 4	Titanium Gr 4	R50700
BX9	ASTM F468, Alloy 4, Stress Relieved	Titanium Gr 4	R50700
BY0	ASTM F468, Alloy 5A	Titanium Gr 5	R56400
BY1	ASTM F468, Alloy 5A, Stress Relieved	Titanium Gr 5	R56400
BY2	ASTM F468, Alloy 5B	Titanium Gr 5	R56400
BY3	ASTM F468, Alloy 5B, Stress Relieved	Titanium Gr 5	R56400
BY4	ASTM F468, Alloy 23	Titanium Ti-6Al-4V	R56401
BY5	ASTM F468, Alloy 23, Stress Relieved	Titanium Ti-6Al-4V	R56401
BY6	ASTM F468, Alloy 7	Titanium Gr 7	R52400
BY7	ASTM F468, Alloy 7, Stress Relieved	Titanium Gr 7	R52400
BY8	ASTM F468, Alloy 19	Titanium Ti-38-6-44	R58640
BY9	ASTM F468, Alloy 19, Stress Relieved	Titanium Ti-38-6-44	R58640
BZ0	ASTM F468, Alloy 32	Titanium Ti-5-1-1-1	R55111
BZ1	ASTM F468, Alloy 32, Stress Relieved	Titanium Ti-5-1-1-1	R55111
ASTM F468M — Nonferrous Bolts, Hex Cap Screws, and Studs for General Use (Metric)			
BZ2	ASTM F468M, Alloy 110	ETP Copper	C11000
BZ3	ASTM F468M, Alloy 110, Stress Relieved	ETP Copper	C11000
BZ4	ASTM F468M, Alloy 270	Brass	C27000
BZ5	ASTM F468M, Alloy 270, Stress Relieved	Brass	C27000
BZ6	ASTM F468M, Alloy 462	Naval Brass	C46200
BZ7	ASTM F468M, Alloy 462, Stress Relieved	Naval Brass	C46200
BZ8	ASTM F468M, Alloy 464	Naval Brass	C46400
BZ9	ASTM F468M, Alloy 464, Stress Relieved	Naval Brass	C46400
CA0	ASTM F468M, Alloy 510	Phosphor Bronze	C51000
CA1	ASTM F468M, Alloy 510, Stress Relieved	Phosphor Bronze	C51000
CA2	ASTM F468M, Alloy 613	Aluminum Bronze	C61300
CA3	ASTM F468M, Alloy 613, Stress Relieved	Aluminum Bronze	C61300
CA4	ASTM F468M, Alloy 614	Aluminum Bronze	C61400
CA5	ASTM F468M, Alloy 614, Stress Relieved	Aluminum Bronze	C61400
CA6	ASTM F468M, Alloy 630	Aluminum Bronze	C63000
CA7	ASTM F468M, Alloy 630, Stress Relieved	Aluminum Bronze	C63000
CA8	ASTM F468M, Alloy 642	Aluminum Silicon Bronze	C64200
CA9	ASTM F468M, Alloy 642, Stress Relieved	Aluminum Silicon Bronze	C64201
CB0	ASTM F468M, Alloy 651	Silicon Bronze	C65100
CB1	ASTM F468M, Alloy 651, Stress Relieved	Silicon Bronze	C65100

Table 5-1
Material and Treatment: ASTM Material Specifications (Cont'd)

PIN	Material Spec	Material	UNS #
ASTM F468M — Nonferrous Bolts, Hex Cap Screws, and Studs for General Use (Metric) (Cont'd)			
CB2	ASTM F468M, Alloy 655	Silicon Bronze	C65500
CB3	ASTM F468M, Alloy 655, Stress Relieved	Silicon Bronze	C65500
CB4	ASTM F468M, Alloy 661	Silicon Bronze	C66100
CB5	ASTM F468M, Alloy 661, Stress Relieved	Silicon Bronze	C66100
CB6	ASTM F468M, Alloy 675	Manganese Bronze	C67500
CB7	ASTM F468M, Alloy 675, Stress Relieved	Manganese Bronze	C67500
CB8	ASTM F468M, Alloy 710	Cupro-Nickel	C71000
CB9	ASTM F468M, Alloy 710, Stress Relieved	Cupro-Nickel	C71000
CC0	ASTM F468M, Alloy 715	Cupro-Nickel	C71500
CC1	ASTM F468M, Alloy 715, Stress Relieved	Cupro-Nickel	C71500
CC2	ASTM F468M, Alloy 335	Ni-Mo	N10001
CC3	ASTM F468M, Alloy 335, Stress Relieved	Ni-Mo	N10001
CC4	ASTM F468M, Alloy 276	Ni-Mo-Cr	N10276
CC5	ASTM F468M, Alloy 276, Stress Relieved	Ni-Mo-Cr	N10276
CC6	ASTM F468M, Alloy 400	Ni-Cu Class A	N04400
CC7	ASTM F468M, Alloy 400, Stress Relieved	Ni-Cu Class A	N04400
CC8	ASTM F468M, Alloy 405	Ni-Cu Class B	N04405
CC9	ASTM F468M, Alloy 405, Stress Relieved	Ni-Cu Class B	N04405
CD0	ASTM F468M, Alloy 500	Ni-Cu-Al	N05500
CD1	ASTM F468M, Alloy 500, Stress Relieved	Ni-Cu-Al	N05500
CD2	ASTM F468M, Alloy 686	Ni-Cr-Mo-W	N06686
CD3	ASTM F468M, Alloy 686, Stress Relieved	Ni-Cr-Mo-W	N06686
CD4	ASTM F468M, Alloy 2024	Aluminum 2024	A92024
CD5	ASTM F468M, Alloy 2024, Stress Relieved	Aluminum 2024	A92024
CD6	ASTM F468M, Alloy 6061	Aluminum 6061	A96061
CD7	ASTM F468M, Alloy 6061, Stress Relieved	Aluminum 6061	A96061
CD8	ASTM F468M, Alloy 7075	Aluminum 7075	A97075
CD9	ASTM F468M, Alloy 7075, Stress Relieved	Aluminum 7075	A97075
CE0	ASTM F468M, Alloy 1	Titanium Gr 1	R50250
CE1	ASTM F468M, Alloy 1, Stress Relieved	Titanium Gr 1	R50250
CE2	ASTM F468M, Alloy 2	Titanium Gr 2	R50400
CE3	ASTM F468M, Alloy 2, Stress Relieved	Titanium Gr 2	R50400
CE4	ASTM F468M, Alloy 4	Titanium Gr 4	R50700
CE5	ASTM F468M, Alloy 4, Stress Relieved	Titanium Gr 4	R50700
CE6	ASTM F468M, Alloy 5A	Titanium Gr 5	R56400
CE7	ASTM F468M, Alloy 5A, Stress Relieved	Titanium Gr 5	R56400
CE8	ASTM F468M, Alloy 23	Titanium Ti-6Al-4V	R56401
CE9	ASTM F468M, Alloy 23, Stress Relieved	Titanium Ti-6Al-4V	R56401
CF0	ASTM F468M, Alloy 7	Titanium Gr 7	R52400
CF1	ASTM F468M, Alloy 7, Stress Relieved	Titanium Gr 7	R52400
CF2	ASTM F468M, Alloy 19	Titanium Ti-38-6-44	R58640
CF3	ASTM F468M, Alloy 19, Stress Relieved	Titanium Ti-38-6-44	R58640
CF4	ASTM F468M, Alloy 5B	Titanium Gr 5	R56400
CF5	ASTM F468M, Alloy 5B, Stress Relieved	Titanium Gr 5	R56400
CF6	ASTM F468M, Alloy 32	Titanium Ti-5-1-1-1	R55111
CF7	ASTM F468M, Alloy 32, Stress Relieved	Titanium Ti-5-1-1-1	R55111
ASTM A502 — Specifications for Steel Structural Rivets			
EP8	ASTM A502, Grade 1	Carbon Steel	...

Table 5-1
Material and Treatment: ASTM Material Specifications (Cont'd)

PIN	Material Spec	Material	UNS #
ASTM A502 — Specifications for Steel Structural Rivets (Cont'd)			
EP9	ASTM A502, Grade 2	Carbon Steel	...
EQ0	ASTM A502, Grade 3	Carbon Steel	...
ASTM F541 — Alloy Steel Eyebolts			
CF8	ASTM F541, Alloy Steel	Alloy Steel	...
ASTM F568M — Carbon and Alloy Steel Externally Threaded Metric Fasteners (Metric) [Note (1)]			
CF9	ASTM F568M, Grade 4.6 Low or Medium Carbon Steel	Carbon Steel	...
CG0	ASTM F568M, Grade 4.8 Low or Medium Carbon Steel, Annealed	Carbon Steel	...
CG1	ASTM F568M, Grade 5.8 Low or Medium Carbon Steel, Cold Worked	Carbon Steel	...
CG2	ASTM F568M, Grade 8.8 Medium Carbon Steel, Quenched and Tempered	Carbon Steel	...
CG3	ASTM F568M, Grade 8.8 Low Carbon Martensitic Steel, Quenched and Tempered	Carbon Steel	...
CG4	ASTM F568M, Grade 8.8.3 Corrosion Resistant Steel, Quenched and Tempered	Carbon Steel	...
CG5	ASTM F568M, Grade 9.8 Medium Carbon Steel, Quenched and Tempered	Carbon Steel	...
CG6	ASTM F568M, Grade 9.8 Low Carbon Martensitic Steel, Quenched and Tempered	Carbon Steel	...
CG7	ASTM F568M, Grade 10.9 Medium Carbon Steel, Quenched and Tempered	Carbon Steel	...
CG8	ASTM F568M, Grade 10.9 Medium Carbon Alloy Steel, Quenched and Tempered	Alloy Steel	...
CG9	ASTM F568M, Grade 10.9 Low Carbon Steel	Carbon Steel	...
CH0	ASTM F568M, Grade 10.9.3 Corrosion Resistant Steel, Quenched and Tempered	Carbon Steel	...
CH1	ASTM F568M, Grade 12.9 Alloy Steel, Quenched and Tempered	Alloy Steel	...
ASTM F593 — Stainless Steel Bolts, Hex Cap Screws, and Studs			
CH2	ASTM F593, Alloy Group 1, Default Condition CW	Stainless Steel	...
CH3	ASTM F593, Alloy Group 1, Condition AF	Stainless Steel	...
CH4	ASTM F593, Alloy Group 1, Condition A	Stainless Steel	...
CH5	ASTM F593, Alloy Group 1, Condition SH	Stainless Steel	...
CH6	ASTM F593, Alloy Group 2, Default Condition CW	Stainless Steel	...
CH7	ASTM F593, Alloy Group 2, Condition AF	Stainless Steel	...
CH8	ASTM F593, Alloy Group 2, Condition A	Stainless Steel	...
CH9	ASTM F593, Alloy Group 2, Condition SH	Stainless Steel	...
CJ0	ASTM F593, Alloy Group 3, Default Condition CW	Stainless Steel	...
CJ1	ASTM F593, Alloy Group 3, Condition AF	Stainless Steel	...
CJ2	ASTM F593, Alloy Group 3, Condition A	Stainless Steel	...
CJ3	ASTM F593, Alloy Group 3, Condition SH	Stainless Steel	...
CJ4	ASTM F593, Alloy Group 4, Default Condition CW	Stainless Steel	S43000
CJ5	ASTM F593, Alloy Group 4, Condition A	Stainless Steel	S43000
CJ6	ASTM F593, Alloy Group 5, Default Condition H	Stainless Steel	S41000
CJ7	ASTM F593, Alloy Group 5, Condition HT	Stainless Steel	S41000
CJ8	ASTM F593, Alloy Group 6, Default Condition H	Stainless Steel	S43100
CJ9	ASTM F593, Alloy Group 6, Condition HT	Stainless Steel	S43100
CK0	ASTM F593, Alloy Group 7, Default Condition AH	Stainless Steel	S17400
CK1	ASTM F593, Alloy Group 7, Condition NONE	Stainless Steel	S17400
CK2	ASTM F593, Alloy 303 only, Default Condition CW	Stainless Steel	S30300
CK3	ASTM F593, Alloy 303 only, Condition AF	Stainless Steel	S30300
CK4	ASTM F593, Alloy 303 only, Condition A	Stainless Steel	S30300
CK5	ASTM F593, Alloy 303 only, Condition SH	Stainless Steel	S30300
CK6	ASTM F593, Alloy 303 Se only, Default Condition CW	Stainless Steel	S30323
CK7	ASTM F593, Alloy 303 Se only, Condition AF	Stainless Steel	S30323
CK8	ASTM F593, Alloy 303 Se only, Condition A	Stainless Steel	S30323
CK9	ASTM F593, Alloy 303 Se only, Condition SH	Stainless Steel	S30323
CL0	ASTM F593, Alloy 304 only, Default Condition CW	Stainless Steel	S30400

Table 5-1
Material and Treatment: ASTM Material Specifications (Cont'd)

PIN	Material Spec	Material	UNS #
ASTM F593 — Stainless Steel Bolts, Hex Cap Screws, and Studs (Cont'd)			
CL1	ASTM F593, Alloy 304 only, Condition AF	Stainless Steel	S30400
CL2	ASTM F593, Alloy 304 only, Condition A	Stainless Steel	S30400
CL3	ASTM F593, Alloy 304 only, Condition SH	Stainless Steel	S30400
CL4	ASTM F593, Alloy 304L only, Default Condition CW	Stainless Steel	S30403
CL5	ASTM F593, Alloy 384 L only, Condition AF	Stainless Steel	S30403
CL6	ASTM F593, Alloy 384 L only, Condition A	Stainless Steel	S30403
CL7	ASTM F593, Alloy 384 L only, Condition SH	Stainless Steel	S30403
CL8	ASTM F593, Alloy 305 only, Default Condition CW	Stainless Steel	S30500
CL9	ASTM F593 Alloy 305 only, Condition AF	Stainless Steel	S30500
CM0	ASTM F593, Alloy 305 only, Condition A	Stainless Steel	S30500
CM1	ASTM F593, Alloy 305 only, Condition SH	Stainless Steel	S30500
CM2	ASTM F593, Alloy 384 only, Default Condition CW	Stainless Steel	S38400
CM3	ASTM F593, Alloy 384 only, Condition AF	Stainless Steel	S38400
CM4	ASTM F593, Alloy 384 only, Condition A	Stainless Steel	S38400
CM5	ASTM F593, Alloy 384 only, Condition SH	Stainless Steel	S38400
CM6	ASTM F593, Alloy XM1 only, Default Condition CW	Stainless Steel	S20300
CM7	ASTM F593, Alloy XM1 only, Condition AF	Stainless Steel	S20300
CM8	ASTM F593, Alloy XM1 only, Condition A	Stainless Steel	S20300
CM9	ASTM F593, Alloy XM1 only, Condition SH	Stainless Steel	S20300
CN0	ASTM F593, Alloy 18-9LW only, Default Condition CW	Stainless Steel	S30430
CN1	ASTM F593, Alloy 18-9LW only, Condition AF	Stainless Steel	S30430
CN2	ASTM F593, Alloy 18-9LW only, Condition A	Stainless Steel	S30430
CN3	ASTM F593, Alloy 18-9LW only, Condition SH	Stainless Steel	S30430
CN4	ASTM F593, Alloy 302HQ (XM7) only, Default Condition CW	Stainless Steel	S30433
CN5	ASTM F593, Alloy 302HQ (XM7) only, Condition AF	Stainless Steel	S30433
CN6	ASTM F593, Alloy 302HQ (XM7) only, Condition A	Stainless Steel	S30433
CN7	ASTM F593, Alloy 302HQ (XM7) only, Condition SH	Stainless Steel	S30433
CN8	ASTM F593, Alloy 316 only, Default Condition CW	Stainless Steel	S31600
CN9	ASTM F593, Alloy 316 only, Condition AF	Stainless Steel	S31600
CP0	ASTM F593, Alloy 316 only, Condition A	Stainless Steel	S31600
CP1	ASTM F593, Alloy 316 only, Condition SH	Stainless Steel	S31600
CP2	ASTM F593, Alloy 316L only, Default Condition CW	Stainless Steel	S31603
CP3	ASTM F593, Alloy 316L only, Condition AF	Stainless Steel	S31603
CP4	ASTM F593, Alloy 316L only, Condition A	Stainless Steel	S31603
CP5	ASTM F593, Alloy 316L only, Condition SH	Stainless Steel	S31603
CP6	ASTM F593, Alloy 321 only, Default Condition CW	Stainless Steel	S32100
CP7	ASTM F593, Alloy 321 only, Condition AF	Stainless Steel	S32100
CP8	ASTM F593, Alloy 321 only, Condition A	Stainless Steel	S32100
CP9	ASTM F593, Alloy 321 only, Condition SH	Stainless Steel	S32100
CQ0	ASTM F593, Alloy 347 only, Default Condition CW	Stainless Steel	S34700
CQ1	ASTM F593, Alloy 347 only, Condition AF	Stainless Steel	S34700
CQ2	ASTM F593, Alloy 347 only, Condition A	Stainless Steel	S34700
CQ3	ASTM F593, Alloy 347 only, Condition SH	Stainless Steel	S34700
CQ4	ASTM F593, Alloy 430 only, Default Condition CW	Stainless Steel	S43000
CQ5	ASTM F593, Alloy 430 only, Condition A	Stainless Steel	S43000
CQ6	ASTM F593, Alloy 430F only, Default Condition CW	Stainless Steel	S43020
CQ7	ASTM F593, Alloy 430F only, Condition A	Stainless Steel	S43020
CQ8	ASTM F593, Alloy 410 only, Default Condition H	Stainless Steel	S41000

Table 5-1
Material and Treatment: ASTM Material Specifications (Cont'd)

PIN	Material Spec	Material	UNS #
ASTM F593 — Stainless Steel Bolts, Hex Cap Screws, and Studs (Cont'd)			
CQ9	ASTM F593, Alloy 410 only, Condition HT	Stainless Steel	S41000
CR0	ASTM F593, Alloy 416 only, Default Condition H	Stainless Steel	S41600
CR1	ASTM F593, Alloy 416 only, Condition HT	Stainless Steel	S41600
CR2	ASTM F593, Alloy 416 Se only, Default Condition H	Stainless Steel	S41623
CR3	ASTM F593, Alloy 416 Se only, Condition HT	Stainless Steel	S41623
ASTM F594 — Stainless Steel Nuts			
CR4	ASTM F594, Alloy Group 1, Default Condition CW	Stainless Steel	...
CR5	ASTM F594, Alloy Group 1, Condition AF	Stainless Steel	...
CR6	ASTM F594, Alloy Group 1, Condition A	Stainless Steel	...
CR7	ASTM F594, Alloy Group 1, Condition SH	Stainless Steel	...
CR8	ASTM F594, Alloy Group 2, Default Condition CW	Stainless Steel	...
CR9	ASTM F594, Alloy Group 2, Condition AF	Stainless Steel	...
CS0	ASTM F594, Alloy Group 2, Condition A	Stainless Steel	...
CS1	ASTM F594, Alloy Group 2, Condition SH	Stainless Steel	...
CS2	ASTM F594, Alloy Group 3, Default Condition CW	Stainless Steel	...
CS3	ASTM F594, Alloy Group 3, Condition AF	Stainless Steel	...
CS4	ASTM F594, Alloy Group 3, Condition A	Stainless Steel	...
CS5	ASTM F594, Alloy Group 3, Condition SH	Stainless Steel	...
CS6	ASTM F594, Alloy Group 4, Default Condition CW	Stainless Steel	S43000
CS7	ASTM F594, Alloy Group 4, Condition A	Stainless Steel	S43000
CS8	ASTM F594, Alloy Group 5, Default Condition H	Stainless Steel	S41000
CS9	ASTM F594, Alloy Group 5, Condition HT	Stainless Steel	S41000
CT0	ASTM F594, Alloy Group 6, Default Condition H	Stainless Steel	S43100
CT1	ASTM F594, Alloy Group 6, Condition HT	Stainless Steel	S43100
CT2	ASTM F594, Alloy Group 7, Default Condition H	Stainless Steel	S17400
CT3	ASTM F594, Alloy Group 7, Condition NONE	Stainless Steel	S17400
CT4	ASTM F594, Alloy 303 only, Default Condition CW	Stainless Steel	S30300
CT5	ASTM F594, Alloy 303 only, Condition AF	Stainless Steel	S30300
CT6	ASTM F594, Alloy 303 only, Condition A	Stainless Steel	S30300
CT7	ASTM F594, Alloy 303 only, Condition SH	Stainless Steel	S30300
CT8	ASTM F594, Alloy 303 Se only, Default Condition CW	Stainless Steel	S30323
CT9	ASTM F594, Alloy 303 Se only, Condition AF	Stainless Steel	S30323
CU0	ASTM F594, Alloy 303 Se only, Condition A	Stainless Steel	S30323
CU1	ASTM F594, Alloy 303 Se only, Condition SH	Stainless Steel	S30323
CU2	ASTM F594, Alloy 304 only, Default Condition CW	Stainless Steel	S30400
CU3	ASTM F594, Alloy 304 only, Condition AF	Stainless Steel	S30400
CU4	ASTM F594, Alloy 304 only, Condition A	Stainless Steel	S30400
CU5	ASTM F594, Alloy 304 only, Condition SH	Stainless Steel	S30400
CU6	ASTM F594, Alloy 304L only, Default Condition CW	Stainless Steel	S30403
CU7	ASTM F594, Alloy 384 L only, Condition AF	Stainless Steel	S30403
CU8	ASTM F594, Alloy 384 L only, Condition A	Stainless Steel	S30403
CU9	ASTM F594, Alloy 384 L only, Condition SH	Stainless Steel	S30403
CV0	ASTM F594, Alloy 305 only, Default Condition CW	Stainless Steel	S30500
CV1	ASTM F594, Alloy 305 only, Condition AF	Stainless Steel	S30500
CV2	ASTM F594, Alloy 305 only, Condition A	Stainless Steel	S30500
CV3	ASTM F594, Alloy 305 only, Condition SH	Stainless Steel	S30500
CV4	ASTM F594, Alloy 384 only, Default Condition CW	Stainless Steel	S38400
CV5	ASTM F594, Alloy 384 only, Condition AF	Stainless Steel	S38400

Table 5-1
Material and Treatment: ASTM Material Specifications (Cont'd)

PIN	Material Spec	Material	UNS #
ASTM F594 — Stainless Steel Nuts (Cont'd)			
CV6	ASTM F594, Alloy 384 only, Condition A	Stainless Steel	S38400
CV7	ASTM F594, Alloy 384 only, Condition SH	Stainless Steel	S38400
CV8	ASTM F594, Alloy XM1 only, Default Condition CW	Stainless Steel	S20300
CV9	ASTM F594, Alloy XM1 only, Condition AF	Stainless Steel	S20300
CW0	ASTM F594, Alloy XM1 only, Condition A	Stainless Steel	S20300
CW1	ASTM F594, Alloy XM1 only, Condition SH	Stainless Steel	S20300
CW2	ASTM F594, Alloy 18-9LW only, Default Condition CW	Stainless Steel	S30430
CW3	ASTM F594, Alloy 18-9LW only, Condition AF	Stainless Steel	S30430
CW4	ASTM F594, Alloy 18-9LW only, Condition A	Stainless Steel	S30430
CW5	ASTM F594, Alloy 18-9LW only, Condition SH	Stainless Steel	S30430
CW6	ASTM F594, Alloy 302HQ (XM7) only, Default Condition CW	Stainless Steel	S30433
CW7	ASTM F594, Alloy 302HQ (XM7) only, Condition AF	Stainless Steel	S30433
CW8	ASTM F594, Alloy 302HQ (XM7) only, Condition A	Stainless Steel	S30433
CW9	ASTM F594, Alloy 302HQ (XM7) only, Condition SH	Stainless Steel	S30433
CX0	ASTM F594, Alloy 316 only, Default Condition CW	Stainless Steel	S31600
CX1	ASTM F594, Alloy 316 only, Condition AF	Stainless Steel	S31600
CX2	ASTM F594, Alloy 316 only, Condition A	Stainless Steel	S31600
CX3	ASTM F594, Alloy 316 only, Condition SH	Stainless Steel	S31600
CX4	ASTM F594, Alloy 316L only, Default Condition CW	Stainless Steel	S31603
CX5	ASTM F594, Alloy 316L only, Condition AF	Stainless Steel	S31603
CX6	ASTM F594, Alloy 316L only, Condition A	Stainless Steel	S31603
CX7	ASTM F594, Alloy 316L only, Condition SH	Stainless Steel	S31603
CX8	ASTM F594, Alloy 321 only, Default Condition CW	Stainless Steel	S32100
CX9	ASTM F594, Alloy 321 only, Condition AF	Stainless Steel	S32100
CY0	ASTM F594, Alloy 321 only, Condition A	Stainless Steel	S32100
CY1	ASTM F594, Alloy 321 only, Condition SH	Stainless Steel	S32100
CY2	ASTM F594, Alloy 347 only, Default Condition CW	Stainless Steel	S34700
CY3	ASTM F594, Alloy 347 only, Condition AF	Stainless Steel	S34700
CY4	ASTM F594, Alloy 347 only, Condition A	Stainless Steel	S34700
CY5	ASTM F594, Alloy 347 only, Condition SH	Stainless Steel	S34700
CY6	ASTM F594, Alloy 430 only, Default Condition CW	Stainless Steel	S43000
CY7	ASTM F594, Alloy 430 only, Condition A	Stainless Steel	S43000
CY8	ASTM F594, Alloy 430F only, Default Condition CW	Stainless Steel	S43020
CY9	ASTM F594, Alloy 430F only, Condition A	Stainless Steel	S43020
CZ0	ASTM F594, Alloy 410 only, Default Condition H	Stainless Steel	S41000
CZ1	ASTM F594, Alloy 410 only, Condition HT	Stainless Steel	S41000
CZ2	ASTM F594, Alloy 416 only, Default Condition H	Stainless Steel	S41600
CZ3	ASTM F594, Alloy 416 only, Condition HT	Stainless Steel	S41600
CZ4	ASTM F594, Alloy 416 Se only, Default Condition H	Stainless Steel	S41623
CZ5	ASTM F594, Alloy 416 Se only, Condition HT	Stainless Steel	S41623
ASTM F738M — Stainless Steel Metric Bolts, Screws, and Studs (Metric)			
CZ6	ASTM F738M, Class A1-50, Condition AF	Stainless Steel	...
CZ7	ASTM F738M, Class A1-70, Condition CW	Stainless Steel	...
CZ8	ASTM F738M, Class A1-80, Condition SH	Stainless Steel	...
CZ9	ASTM F738M, Class A2-50, Condition AF	Stainless Steel	...
DA0	ASTM F738M, Class A2-70, Condition CW	Stainless Steel	...
DA1	ASTM F738M, Class A2-80, Condition SH	Stainless Steel	...
DA2	ASTM F738M, Class A4-50, Condition AF	Stainless Steel	...

Table 5-1
Material and Treatment: ASTM Material Specifications (Cont'd)

PIN	Material Spec	Material	UNS #
ASTM F738M — Stainless Steel Metric Bolts, Screws, and Studs (Metric) (Cont'd)			
DA3	ASTM F738M, Class A4-70, Condition CW	Stainless Steel	...
DA4	ASTM F738M, Class A4-80, Condition SH	Stainless Steel	...
DA5	ASTM F738M, Class F1-45, Condition AF	Stainless Steel	S43000
DA6	ASTM F738M, Class F1-60, Condition CW	Stainless Steel	S43000
DA7	ASTM F738M, Class C1-50, Condition A	Stainless Steel	S41000
DA8	ASTM F738M, Class C1-70, Condition H	Stainless Steel	S41000
DA9	ASTM F738M, Class C1-110, Condition HT	Stainless Steel	S41000
DB0	ASTM F738M, Class C3-80, Condition H	Stainless Steel	S43100
DB1	ASTM F738M, Class C3-120, Condition HT	Stainless Steel	S43100
DB2	ASTM F738M, Class C4-50, Condition A	Stainless Steel	...
DB3	ASTM F738M, Class C4-70, Condition H	Stainless Steel	...
DB4	ASTM F738M, Class C4-110, Condition HT	Stainless Steel	...
DB5	ASTM F738M, Class P1-90, Condition AH	Stainless Steel	S17400
DB6	ASTM F738M, Class A1-50, Alloy 303 only, Condition AF	Stainless Steel	S30300
DB7	ASTM F738M, Class A1-50, Alloy 303Se only, Condition AF	Stainless Steel	S30323
DB8	ASTM F738M, Class A1-50, Alloy 304 only, Condition AF	Stainless Steel	S30400
DB9	ASTM F738M, Class A1-50, Alloy 304L only, Condition AF	Stainless Steel	S30403
DC0	ASTM F738M, Class A1-50, Alloy 305 only, Condition AF	Stainless Steel	S30500
DC1	ASTM F738M, Class A1-50, Alloy 384 only, Condition AF	Stainless Steel	S38400
DC2	ASTM F738M, Class A1-50, Alloy XM1 only, Condition AF	Stainless Steel	S20300
DC3	ASTM F738M, Class A1-50, Alloy 18-9LW only, Condition AF	Stainless Steel	S30430
DC4	ASTM F738M, Class A1-50, Alloy 302HQ (XM7) only, Condition AF	Stainless Steel	S30433
DC5	ASTM F738M, Class A1-70, Alloy 303 only, Condition CW	Stainless Steel	S30300
DC6	ASTM F738M, Class A1-70, Alloy 303Se only, Condition CW	Stainless Steel	S30323
DC7	ASTM F738M, Class A1-70, Alloy 304 only, Condition CW	Stainless Steel	S30400
DC8	ASTM F738M, Class A1-70, Alloy 304L only, Condition CW	Stainless Steel	S30403
DC9	ASTM F738M, Class A1-70, Alloy 305 only, Condition CW	Stainless Steel	S30500
DD0	ASTM F738M, Class A1-70, Alloy 384 only, Condition CW	Stainless Steel	S38400
DD1	ASTM F738M, Class A1-70, Alloy XM1 only, Condition CW	Stainless Steel	S20300
DD2	ASTM F738M, Class A1-70, Alloy 18-9LW only, Condition CW	Stainless Steel	S30430
DD3	ASTM F738M, Class A1-70, Alloy 302HQ (XM7) only, Condition CW	Stainless Steel	S30433
DD4	ASTM F738M, Class A1-80, Alloy 303 only, Condition SH	Stainless Steel	S30300
DD5	ASTM F738M, Class A1-80, Alloy 303Se only, Condition SH	Stainless Steel	S30323
DD6	ASTM F738M, Class A1-80, Alloy 304 only, Condition SH	Stainless Steel	S30400
DD7	ASTM F738M, Class A1-80, Alloy 304L only, Condition SH	Stainless Steel	S30403
DD8	ASTM F738M, Class A1-80, Alloy 305 only, Condition SH	Stainless Steel	S30500
DD9	ASTM F738M, Class A1-80, Alloy 384 only, Condition SH	Stainless Steel	S38400
DE0	ASTM F738M, Class A1-80, Alloy XM1 only, Condition SH	Stainless Steel	S20300
DE1	ASTM F738M, Class A1-80, Alloy 18-9LW only, Condition SH	Stainless Steel	S30430
DE2	ASTM F738M, Class A1-80, Alloy 302HQ (XM7) only, Condition SH	Stainless Steel	S30433
DE3	ASTM F738M, Class A2-50, Alloy 321 only, Condition AF	Stainless Steel	S30400
DE4	ASTM F738M, Class A2-50, Alloy 347 only, Condition AF	Stainless Steel	S30403
DE5	ASTM F738M, Class A2-70, Alloy 321 only, Condition AF	Stainless Steel	S30500
DE6	ASTM F738M, Class A2-70, Alloy 347 only, Condition AF	Stainless Steel	S38400
DE7	ASTM F738M, Class A2-80, Alloy 321 only, Condition SH	Stainless Steel	S20300
DE8	ASTM F738M, Class A2-80, Alloy 347 only, Condition SH	Stainless Steel	S30430
DE9	ASTM F738M, Class A4-50, Alloy 316 only, Condition AF	Stainless Steel	S31600
DF0	ASTM F738M, Class A4-50, Alloy 316L only, Condition AF	Stainless Steel	S31603

Table 5-1
Material and Treatment: ASTM Material Specifications (Cont'd)

PIN	Material Spec	Material	UNS #
ASTM F738M — Stainless Steel Metric Bolts, Screws, and Studs (Metric) (Cont'd)			
DF1	ASTM F738M, Class A4-70, Alloy 316 only, Condition CW	Stainless Steel	S31600
DF2	ASTM F738M, Class A4-70, Alloy 316L only, Condition CW	Stainless Steel	S31603
DF3	ASTM F738M, Class A4-80, Alloy 316 only, Condition SH	Stainless Steel	S31600
DF4	ASTM F738M, Class A4-80, Alloy 316L only, Condition SH	Stainless Steel	S31603
DF5	ASTM F738M, Class F1-45, Alloy 430 only, Condition AF	Stainless Steel	S43000
DF6	ASTM F738M, Class F1-45, Alloy 430F only, Condition AF	Stainless Steel	S43020
DF7	ASTM F738M, Class F1-60, Alloy 430 only, Condition CW	Stainless Steel	S43000
DF8	ASTM F738M, Class F1-60, Alloy 430F only, Condition CW	Stainless Steel	S43020
DF9	ASTM F738M, Class C4-50, Alloy 416 only, Condition A	Stainless Steel	S41600
DG0	ASTM F738M, Class C4-50, Alloy 416L only, Condition A	Stainless Steel	S41623
DG1	ASTM F738M, Class C4-70, Alloy 416 only, Condition H	Stainless Steel	S41600
DG2	ASTM F738M, Class C4-70, Alloy 416L only, Condition H	Stainless Steel	S41623
DG3	ASTM F738M, Class C4-110, Alloy 416 only, Condition HT	Stainless Steel	S41600
DG4	ASTM F738M, Class C4-110, Alloy 416L only, Condition HT	Stainless Steel	S41623
ASTM F835 — Alloy Steel Socket Button and Flat Countersunk Head Cap Screws			
DG5	ASTM F835, Quenched and Tempered Alloy Steel	Alloy Steel	...
ASTM F835M — Alloy Steel Socket Button and Flat Countersunk Head Cap Screws (Metric)			
DG6	ASTM F835M, Quenched and Tempered Alloy Steel	Alloy Steel	...
ASTM F836M — Stainless Steel Metric Bolts, Screws, and Studs (Metric)			
DG7	ASTM F836M, Class A1-50, Condition A	Stainless Steel	...
DG8	ASTM F836M, Class A1-50, Condition AF	Stainless Steel	...
DG9	ASTM F836M, Class A1-70, Condition CW	Stainless Steel	...
DH0	ASTM F836M, Class A1-80, Condition SH	Stainless Steel	...
DH1	ASTM F836M, Class A2-50, Condition A	Stainless Steel	...
DH2	ASTM F836M, Class A2-50, Condition AF	Stainless Steel	...
DH3	ASTM F836M, Class A2-70, Condition CW	Stainless Steel	...
DH4	ASTM F836M, Class A2-80, Condition SH	Stainless Steel	...
DH5	ASTM F836M, Class A4-50, Condition A	Stainless Steel	...
DH6	ASTM F836M, Class A4-50, Condition AF	Stainless Steel	...
DH7	ASTM F836M, Class A4-70, Condition CW	Stainless Steel	...
DH8	ASTM F836M, Class A4-80, Condition SH	Stainless Steel	...
DH9	ASTM F836M, Class F1-45, Condition A	Stainless Steel	...
DJ0	ASTM F836M, Class F1-45, Condition AF	Stainless Steel	...
DJ1	ASTM F836M, Class C1-70, Condition H	Stainless Steel	S41000
DJ2	ASTM F836M, Class C1-110, Condition HT	Stainless Steel	S41000
DJ3	ASTM F836M, Class C3-80, Condition H	Stainless Steel	S43100
DJ4	ASTM F836M, Class C3-120, Condition HT	Stainless Steel	S43100
DJ5	ASTM F836M, Class C4-70, Condition H	Stainless Steel	...
DJ6	ASTM F836M, Class C4-110, Condition HT	Stainless Steel	...
DJ7	ASTM F836M, Class P1-90, Condition AH	Stainless Steel	S17400
DJ8	ASTM F836M, Class A1-50, Alloy 303 only, Condition A	Stainless Steel	S30300
DJ9	ASTM F836M, Class A1-50, Alloy 303 only, Condition AF	Stainless Steel	S30300
DK0	ASTM F836M, Class A1-50, Alloy 303Se only, Condition A	Stainless Steel	S30323
DK1	ASTM F836M, Class A1-50, Alloy 303Se only, Condition AF	Stainless Steel	S30323
DK2	ASTM F836M, Class A1-50, Alloy 304 only, Condition A	Stainless Steel	S30400
DK3	ASTM F836M, Class A1-50, Alloy 304 only, Condition AF	Stainless Steel	S30400
DK4	ASTM F836M, Class A1-50, Alloy 304L only, Condition A	Stainless Steel	S30403
DK5	ASTM F836M, Class A1-50, Alloy 304L only, Condition AF	Stainless Steel	S30403

Table 5-1
Material and Treatment: ASTM Material Specifications (Cont'd)

PIN	Material Spec	Material	UNS #
ASTM F836M — Stainless Steel Metric Bolts, Screws, and Studs (Metric) (Cont'd)			
DK6	ASTM F836M, Class A1-50, Alloy 305 only, Condition A	Stainless Steel	S30500
DK7	ASTM F836M, Class A1-50, Alloy 305 only, Condition AF	Stainless Steel	S30500
DK8	ASTM F836M, Class A1-50, Alloy 384 only, Condition A	Stainless Steel	S38400
DK9	ASTM F836M, Class A1-50, Alloy 384 only, Condition AF	Stainless Steel	S38400
DL0	ASTM F836M, Class A1-50, Alloy XM1 only, Condition A	Stainless Steel	S20300
DL1	ASTM F836M, Class A1-50, Alloy XM1 only, Condition AF	Stainless Steel	S20300
DL2	ASTM F836M, Class A1-50, Alloy 302HQ (XM7) only, Condition A	Stainless Steel	S30433
DL3	ASTM F836M, Class A1-50, Alloy 302HQ (XM7) only, Condition AF	Stainless Steel	S30433
DL4	ASTM F836M, Class A1-50, Alloy 18-9LW only, Condition A	Stainless Steel	S30430
DL5	ASTM F836M, Class A1-50, Alloy 18-9LW only, Condition AF	Stainless Steel	S30430
DL6	ASTM F836M, Class A1-70, Alloy 303 only, Condition CW	Stainless Steel	S30300
DL7	ASTM F836M, Class A1-70, Alloy 303Se only, Condition CW	Stainless Steel	S30323
DL8	ASTM F836M, Class A1-70, Alloy 304 only, Condition CW	Stainless Steel	S30400
DL9	ASTM F836M, Class A1-70, Alloy 304L only, Condition CW	Stainless Steel	S30403
DM0	ASTM F836M, Class A1-70, Alloy 305 only, Condition CW	Stainless Steel	S30500
DM1	ASTM F836M, Class A1-70, Alloy 384 only, Condition CW	Stainless Steel	S38400
DM2	ASTM F836M, Class A1-70, Alloy XM1 only, Condition CW	Stainless Steel	S20300
DM3	ASTM F836M, Class A1-70, Alloy 18-9LW only, Condition CW	Stainless Steel	S30430
DM4	ASTM F836M, Class A1-70, Alloy 302HQ (XM7) only, Condition CW	Stainless Steel	S30433
DM5	ASTM F836M, Class A1-80, Alloy 303 only, Condition SH	Stainless Steel	S30300
DM6	ASTM F836M, Class A1-80, Alloy 303Se only, Condition SH	Stainless Steel	S30323
DM7	ASTM F836M, Class A1-80, Alloy 304 only, Condition SH	Stainless Steel	S30400
DM8	ASTM F836M, Class A1-80, Alloy 304L only, Condition SH	Stainless Steel	S30403
DM9	ASTM F836M, Class A1-80, Alloy 305 only, Condition SH	Stainless Steel	S30500
DN0	ASTM F836M, Class A1-80, Alloy 384 only, Condition SH	Stainless Steel	S38400
DN1	ASTM F836M, Class A1-80, Alloy XM1 only, Condition SH	Stainless Steel	S20300
DN2	ASTM F836M, Class A1-80, Alloy 302HQ (XM7) only, Condition SH	Stainless Steel	S30433
DN3	ASTM F836M, Class A1-80, Alloy 18-9LW only, Condition SH	Stainless Steel	S30430
DN4	ASTM F836M, Class A4-50, Alloy 316 only, Condition A	Stainless Steel	S31600
DN5	ASTM F836M, Class A4-50, Alloy 316 only, Condition AF	Stainless Steel	S31600
DN6	ASTM F836M, Class A4-50, Alloy 316L only, Condition A	Stainless Steel	S31603
DN7	ASTM F836M, Class A4-50, Alloy 316L only, Condition AF	Stainless Steel	S31603
DN8	ASTM F836M, Class A4-70, Alloy 316 only, Condition CW	Stainless Steel	S31600
DN9	ASTM F836M, Class A4-70, Alloy 316L only, Condition CW	Stainless Steel	S31603
DP0	ASTM F836M, Class A4-80, Alloy 316 only, Condition SH	Stainless Steel	S31600
DP1	ASTM F836M, Class A4-80, Alloy 316L only, Condition SH	Stainless Steel	S31603
DP2	ASTM F836M, Class A2-50, Alloy 321 only, Condition A	Stainless Steel	S30400
DP3	ASTM F836M, Class A2-50, Alloy 321 only, Condition AF	Stainless Steel	S30400
DP4	ASTM F836M, Class A2-50, Alloy 347 only, Condition A	Stainless Steel	S30403
DP5	ASTM F836M, Class A2-50, Alloy 347 only, Condition AF	Stainless Steel	S30403
DP6	ASTM F836M, Class A2-70, Alloy 321 only, Condition CW	Stainless Steel	S30500
DP7	ASTM F836M, Class A2-70, Alloy 347 only, Condition CW	Stainless Steel	S38400
DP8	ASTM F836M, Class A2-80, Alloy 321 only, Condition SH	Stainless Steel	S20300
DP9	ASTM F836M, Class A2-80, Alloy 347 only, Condition SH	Stainless Steel	S30430
DQ0	ASTM F836M, Class F1-45, Alloy 430 only, Condition A	Stainless Steel	S43000
DQ1	ASTM F836M, Class F1-45, Alloy 430 only, Condition AF	Stainless Steel	S43000
DQ2	ASTM F836M, Class F1-45, Alloy 430F only, Condition A	Stainless Steel	S43020
DQ3	ASTM F836M, Class F1-45, Alloy 430F only, Condition AF	Stainless Steel	S43020

Table 5-1
Material and Treatment: ASTM Material Specifications (Cont'd)

PIN	Material Spec	Material	UNS #
ASTM F836M — Stainless Steel Metric Bolts, Screws, and Studs (Metric) (Cont'd)			
DQ4	ASTM F836M, Class C4-70, Alloy 416 only, Condition A	Stainless Steel	S41600
DQ5	ASTM F836M, Class C4-70, Alloy 416 only, Condition H	Stainless Steel	S41600
DQ6	ASTM F836M, Class C4-70, Alloy 416L only, Condition A	Stainless Steel	S41623
DQ7	ASTM F836M, Class C4-70, Alloy 416L only, Condition H	Stainless Steel	S41623
DQ8	ASTM F836M, Class C4-110, Alloy 416 only, Condition HT	Stainless Steel	S41600
DQ9	ASTM F836M, Class C4-110, Alloy 416L only, Condition HT	Stainless Steel	S41623
ASTM F837 — Stainless Steel Socket Head Cap Screws			
DR0	ASTM F837, Alloy Group 1 AF	Stainless Steel	...
DR1	ASTM F837, Alloy Group 1 AF, apply Supplementary Reqt. S7	Stainless Steel	...
DR2	ASTM F837, Alloy Group 1 CW	Stainless Steel	...
DR3	ASTM F837, Alloy Group 1 CW, apply Supplementary Reqt. S7	Stainless Steel	...
DR4	ASTM F837, Alloy Group 1 CW1	Stainless Steel	...
DR5	ASTM F837, Alloy Group 1 CW1, apply Supplementary Reqt. S7	Stainless Steel	...
DR6	ASTM F837, Alloy Group 5 HT	Stainless Steel	S41000
DR7	ASTM F837, Alloy Group 5 HT, apply Supplementary Reqt. S7	Stainless Steel	S41000
DR8	ASTM F837, Alloy 303 only, Condition AF	Stainless Steel	S30300
DR9	ASTM F837, Alloy 303 only, Condition AF, apply Supplementary Reqt. S7	Stainless Steel	S30300
DS0	ASTM F837, Alloy 303 only, Condition CW	Stainless Steel	S30300
DS1	ASTM F837, Alloy 303 only, Condition CW, apply Supplementary Reqt. S7	Stainless Steel	S30300
DS2	ASTM F837, Alloy 303 only, Condition CW1	Stainless Steel	S30300
DS3	ASTM F837, Alloy 303 only, Condition CW1, apply Supplementary Reqt. S7	Stainless Steel	S30300
DS4	ASTM F837, Alloy 304 only, Condition AF	Stainless Steel	S30400
DS5	ASTM F837, Alloy 304 only, Condition AF, apply Supplementary Reqt. S7	Stainless Steel	S30400
DS6	ASTM F837, Alloy 304 only, Condition CW	Stainless Steel	S30400
DS7	ASTM F837, Alloy 304 only, Condition CW, apply Supplementary Reqt. S7	Stainless Steel	S30400
DS8	ASTM F837, Alloy 304 only, Condition CW1	Stainless Steel	S30400
DS9	ASTM F837, Alloy 304 only, Condition CW1, apply Supplementary Reqt. S7	Stainless Steel	S30400
DT0	ASTM F837, Alloy 304L only, Condition AF	Stainless Steel	S30403
DT1	ASTM F837, Alloy 304L only, Condition AF, apply Supplementary Reqt. S7	Stainless Steel	S30403
DT2	ASTM F837, Alloy 304L only, Condition CW	Stainless Steel	S30403
DT3	ASTM F837, Alloy 304L only, Condition CW, apply Supplementary Reqt. S7	Stainless Steel	S30403
DT4	ASTM F837, Alloy 304L only, Condition CW1	Stainless Steel	S30403
DT5	ASTM F837, Alloy 304L only, Condition CW1, apply Supplementary Reqt. S7	Stainless Steel	S30403
DT6	ASTM F837, Alloy 305 only, Condition AF	Stainless Steel	S30500
DT7	ASTM F837, Alloy 305 only, Condition AF, apply Supplementary Reqt. S7	Stainless Steel	S30500
DT8	ASTM F837, Alloy 305 only, Condition CW	Stainless Steel	S30500
DT9	ASTM F837, Alloy 305 only, Condition CW, apply Supplementary Reqt. S7	Stainless Steel	S30500
DU0	ASTM F837, Alloy 305 only, Condition CW1	Stainless Steel	S30500
DU1	ASTM F837, Alloy 305 only, Condition CW1, apply Supplementary Reqt. S7	Stainless Steel	S30500
DU2	ASTM F837, Alloy 384 only, Condition AF	Stainless Steel	S38400
DU3	ASTM F837, Alloy 384 only, Condition AF, apply Supplementary Reqt. S7	Stainless Steel	S38400
DU4	ASTM F837, Alloy 384 only, Condition CW	Stainless Steel	S38400
DU5	ASTM F837, Alloy 384 only, Condition CW, apply Supplementary Reqt. S7	Stainless Steel	S38400
DU6	ASTM F837, Alloy 384 only, Condition CW1	Stainless Steel	S38400
DU7	ASTM F837, Alloy 384 only, Condition CW1, apply Supplementary Reqt. S7	Stainless Steel	S38400
DU8	ASTM F837, Alloy XM1 only, Condition AF	Stainless Steel	S20300
DU9	ASTM F837, Alloy XM1 only, Condition AF, apply Supplementary Reqt. S7	Stainless Steel	S20300
DV0	ASTM F837, Alloy XM1 only, Condition CW	Stainless Steel	S20300

Table 5-1
Material and Treatment: ASTM Material Specifications (Cont'd)

PIN	Material Spec	Material	UNS #
ASTM F837 — Stainless Steel Socket Head Cap Screws (Cont'd)			
DV1	ASTM F837, Alloy XM1 only, Condition CW, apply Supplementary Reqt. S7	Stainless Steel	S20300
DV2	ASTM F837, Alloy XM1 only, Condition CW1	Stainless Steel	S20300
DV3	ASTM F837, Alloy XM1 only, Condition CW1, apply Supplementary Reqt. S7	Stainless Steel	S20300
DV4	ASTM F837, Alloy 18-9LW only, Condition AF	Stainless Steel	S30430
DV5	ASTM F837, Alloy 18-9LW only, Condition AF, apply Supplementary Reqt S7	Stainless Steel	S30430
DV6	ASTM F837, Alloy 18-9LW only, Condition CW	Stainless Steel	S30430
DV7	ASTM F837, Alloy 18-9LW only, Condition CW, apply Supplementary Reqt. S7	Stainless Steel	S30430
DV8	ASTM F837, Alloy 18-9LW only, Condition CW1	Stainless Steel	S30430
DV9	ASTM F837, Alloy 18-9LW only, Condition CW1, apply Supplementary Reqt. S7	Stainless Steel	S30430
DW0	ASTM F837, Alloy 302HQ (XM7) only, Condition AF	Stainless Steel	S30433
DW1	ASTM F837, Alloy 302HQ (XM7) only, Condition AF, apply Supplementary Reqt. S7	Stainless Steel	S30433
DW2	ASTM F837, Alloy 302HQ (XM7) only, Condition ACW	Stainless Steel	S30433
DW3	ASTM F837, Alloy 302HQ (XM7) only, Condition ACW, apply Supplementary Reqt. S7	Stainless Steel	S30434
DW4	ASTM F837, Alloy 302HQ (XM7) only, Condition ACW1	Stainless Steel	S30435
DW5	ASTM F837, Alloy 302HQ (XM7) only, Condition ACW1, apply Supplementary Reqt. S7	Stainless Steel	S30436
DW6	ASTM F837, Alloy 316 only, Condition AF	Stainless Steel	S31600
DW7	ASTM F837, Alloy 316 only, Condition AF, apply Supplementary Reqt. S7	Stainless Steel	S31600
DW8	ASTM F837, Alloy 316 only, Condition CW	Stainless Steel	S31600
DW9	ASTM F837, Alloy 316 only, Condition CW, apply Supplementary Reqt. S7	Stainless Steel	S31600
DX0	ASTM F837, Alloy 316 only, Condition CW1	Stainless Steel	S31600
DX1	ASTM F837, Alloy 316 only, Condition CW1, apply Supplementary Reqt. S7	Stainless Steel	S31600
DX2	ASTM F837, Alloy 316L only, Condition AF	Stainless Steel	S31603
DX3	ASTM F837, Alloy 316L only, Condition AF, apply Supplementary Reqt. S7	Stainless Steel	S31603
DX4	ASTM F837, Alloy 316L only, Condition CW	Stainless Steel	S31603
DX5	ASTM F837, Alloy 316L only, Condition CW, apply Supplementary Reqt. S7	Stainless Steel	S31603
DX6	ASTM F837, Alloy 316L only, Condition CW1	Stainless Steel	S31603
DX7	ASTM F837, Alloy 316L only, Condition CW1, apply Supplementary Reqt. S7	Stainless Steel	S31603
ASTM F837M — Stainless Steel Socket Head Cap Screws (Metric)			
DX8	ASTM F837M, Class A1-50, Annealed	Stainless Steel	...
DX9	ASTM F837M, Class A1-70, Cold Worked	Stainless Steel	...
DY0	ASTM F837M, Class C1-110	Stainless Steel	S41000
DY1	ASTM F837M, Class A1-50, Alloy 303 only, Annealed	Stainless Steel	S30300
DY2	ASTM F837M, Class A1-50, Alloy 304 only, Annealed	Stainless Steel	S30400
DY3	ASTM F837M, Class A1-50, Alloy 304L only, Annealed	Stainless Steel	S30403
DY4	ASTM F837M, Class A1-50, Alloy 305 only, Annealed	Stainless Steel	S30500
DY5	ASTM F837M, Class A1-50, Alloy 384 only, Annealed	Stainless Steel	S38400
DY6	ASTM F837M, Class A1-50, Alloy XM1 only, Annealed	Stainless Steel	S20300
DY7	ASTM F837M, Class A1-50, Alloy 18-9LW only, Annealed	Stainless Steel	S30430
DY8	ASTM F837M, Class A1-50, Alloy 302HQ (XM7) only, Annealed	Stainless Steel	S30433
DY9	ASTM F837M, Class A1-50, Alloy 316 only, Annealed	Stainless Steel	S31600
DZ0	ASTM F837M, Class A1-50, Alloy 316L only, Annealed	Stainless Steel	S31603
DZ1	ASTM F837M, Class A1-70, Alloy 303 only, Cold Worked	Stainless Steel	S30300
DZ2	ASTM F837M, Class A1-70, Alloy 304 only, Cold Worked	Stainless Steel	S30400
DZ3	ASTM F837M, Class A1-70, Alloy 304L only, Cold Worked	Stainless Steel	S30403
DZ4	ASTM F837M, Class A1-70, Alloy 305 only, Cold Worked	Stainless Steel	S30500
DZ5	ASTM F837M, Class A1-70, Alloy 384 only, Cold Worked	Stainless Steel	S38400
DZ6	ASTM F837M, Class A1-70, Alloy XM1 only, Cold Worked	Stainless Steel	S20300
DZ7	ASTM F837M, Class A1-70, Alloy 18-9LW only, Cold Worked	Stainless Steel	S30430

Table 5-1
Material and Treatment: ASTM Material Specifications (Cont'd)

PIN	Material Spec	Material	UNS #
ASTM F837M — Stainless Steel Socket Head Cap Screws (Metric) (Cont'd)			
DZ8	ASTM F837M, Class A1-70, Alloy 302HQ (XM7) only, Cold Worked	Stainless Steel	S30433
DZ9	ASTM F837M, Class A1-70, Alloy 316 only, Cold Worked	Stainless Steel	S31600
DA0	ASTM F837M, Class A1-70, Alloy 316L only, Cold Worked	Stainless Steel	S31603
ASTM F844 — Washers, Steel, Plain (Flat), Unhardened for General Use			
EA1	ASTM F844, Carbon Steel, UNS G10050, -060, -080, -090, 10100, -110, -120, -130, -150	Carbon Steel	...
ASTM F879 — Stainless Steel Socket Button and Flat Countersunk Head Cap Screws			
EA2	ASTM F879, Alloy Group 1, Condition AF	Stainless Steel	...
EA3	ASTM F879, Alloy Group 1, Condition CW	Stainless Steel	...
EA4	ASTM F879, Alloy 304 only, Condition AF	Stainless Steel	S30400
EA5	ASTM F879, Alloy 304 only, Condition CW	Stainless Steel	S30400
EA6	ASTM F879, Alloy 304L only, Condition AF	Stainless Steel	S30403
EA7	ASTM F879, Alloy 304L only, Condition CW	Stainless Steel	S30403
EA8	ASTM F879, Alloy 305 only, Condition AF	Stainless Steel	S30500
EA9	ASTM F879, Alloy 305 only, Condition CW	Stainless Steel	S30500
EB0	ASTM F879, Alloy 384 only, Condition AF	Stainless Steel	S38400
EB1	ASTM F879, Alloy 384 only, Condition CW	Stainless Steel	S38400
EB2	ASTM F879, Alloy 18-9LW only, Condition AF	Stainless Steel	S30430
EB3	ASTM F879, Alloy 18-9LW only, Condition CW	Stainless Steel	S30430
EB4	ASTM F879, Alloy 302HQ (XM7) only, Condition AF	Stainless Steel	S30433
EB5	ASTM F879, Alloy 302HQ (XM7) only, Condition CW	Stainless Steel	S30433
EB6	ASTM F879, Alloy 316 only, Condition AF	Stainless Steel	S31600
EB7	ASTM F879, Alloy 316 only, Condition CW	Stainless Steel	S31600
EB8	ASTM F879, Alloy 316L only, Condition AF	Stainless Steel	S31603
EB9	ASTM F879, Alloy 316L only, Condition CW	Stainless Steel	S31603
ASTM F879M — Stainless Steel Socket Button and Flat Countersunk Head Cap Screws (Metric)			
EC0	ASTM F879M, Class A1-50, Annealed	Stainless Steel	...
EC1	ASTM F879M, Class A1-70, Cold Worked	Stainless Steel	...
EC2	ASTM F879M, Class A1-50, Alloy 304 only, Annealed	Stainless Steel	S30400
EC3	ASTM F879M, Class A1-50, Alloy 304L only, Annealed	Stainless Steel	S30403
EC4	ASTM F879M, Class A1-50, Alloy 305 only, Annealed	Stainless Steel	S30500
EC5	ASTM F879M, Class A1-50, Alloy 384 only, Annealed	Stainless Steel	S38400
EC6	ASTM F879M, Class A1-50, Alloy 18-9LW only, Annealed	Stainless Steel	S30430
EC7	ASTM F879M, Class A1-50, Alloy 302HQ (XM7) only, Annealed	Stainless Steel	S30433
EC8	ASTM F879M, Class A1-50, Alloy 316 only, Annealed	Stainless Steel	S31600
EC9	ASTM F879M, Class A1-50, Alloy 316L only, Annealed	Stainless Steel	S31603
ED0	ASTM F879M, Class A1-70, Alloy 304 only, Cold Worked	Stainless Steel	S30400
ED1	ASTM F879M, Class A1-70, Alloy 304L only, Cold Worked	Stainless Steel	S30403
ED2	ASTM F879M, Class A1-70, Alloy 305 only, Cold Worked	Stainless Steel	S30500
ED3	ASTM F879M, Class A1-70, Alloy 384 only, Cold Worked	Stainless Steel	S38400
ED4	ASTM F879M, Class A1-70, Alloy 18-9LW only, Cold Worked	Stainless Steel	S30430
ED5	ASTM F879M, Class A1-70, Alloy 302HQ (XM7) only, Cold Worked	Stainless Steel	S30433
ED6	ASTM F879M, Class A1-70, Alloy 316 only, Cold Worked	Stainless Steel	S31600
ED7	ASTM F879M, Class A1-70, Alloy 316L only, Cold Worked	Stainless Steel	S31603
ASTM F880 — Stainless Steel Socket-Set Screws			
ED8	ASTM F880, Alloy Group 1, Condition AF	Stainless Steel	...
ED9	ASTM F880, Alloy Group 1, Condition CW	Stainless Steel	...
EE0	ASTM F880, Alloy 303 only, Condition AF	Stainless Steel	S30300
EE1	ASTM F880, Alloy 303 only, Condition CW	Stainless Steel	S30300

Table 5-1
Material and Treatment: ASTM Material Specifications (Cont'd)

PIN	Material Spec	Material	UNS #
ASTM F880 — Stainless Steel Socket-Set Screws (Cont'd)			
EE2	ASTM F880, Alloy 303Se only, Condition AF	Stainless Steel	S30323
EE3	ASTM F880, Alloy 303Se only, Condition CW	Stainless Steel	S30323
EE4	ASTM F880, Alloy 304 only, Condition AF	Stainless Steel	S30400
EE5	ASTM F880, Alloy 304 only, Condition CW	Stainless Steel	S30400
EE6	ASTM F880, Alloy 304L only, Condition AF	Stainless Steel	S30403
EE7	ASTM F880, Alloy 304L only, Condition CW	Stainless Steel	S30403
EE8	ASTM F880, Alloy 305 only, Condition AF	Stainless Steel	S30500
EE9	ASTM F880, Alloy 305 only, Condition CW	Stainless Steel	S30500
EF0	ASTM F880, Alloy 384 only, Condition AF	Stainless Steel	S38400
EF1	ASTM F880, Alloy 384 only, Condition CW	Stainless Steel	S38400
EF2	ASTM F880, Alloy XM1 only, Condition AF	Stainless Steel	S20300
EF3	ASTM F880, Alloy XM1 only, Condition CW	Stainless Steel	S20300
EF4	ASTM F880, Alloy 18-9LW only, Condition AF	Stainless Steel	S30430
EF5	ASTM F880, Alloy 18-9LW only, Condition CW	Stainless Steel	S30430
EF6	ASTM F880, Alloy 302HQ (XM7) only, Condition AF	Stainless Steel	S30433
EF7	ASTM F880, Alloy 302HQ (XM7) only, Condition CW	Stainless Steel	S30433
ASTM F880M — Stainless Steel Socket-Set Screws (Metric)			
EF8	ASTM F880M, Class A1-50	Stainless Steel	...
EF9	ASTM F880M, Class A1-70	Stainless Steel	...
EG0	ASTM F880M, Class A1-50, Alloy 303 only, Annealed	Stainless Steel	S30300
EG1	ASTM F880M, Class A1-50, Alloy 303Se only, Annealed	Stainless Steel	S30323
EG2	ASTM F880M, Class A1-50, Alloy 304 only, Annealed	Stainless Steel	S30400
EG3	ASTM F880M, Class A1-50, Alloy 304L only, Annealed	Stainless Steel	S30403
EG4	ASTM F880M, Class A1-50, Alloy 305 only, Annealed	Stainless Steel	S30500
EG5	ASTM F880M, Class A1-50, Alloy 384 only, Annealed	Stainless Steel	S38400
EG6	ASTM F880M, Class A1-50, Alloy XM1 only, Annealed	Stainless Steel	S20300
EG7	ASTM F880M, Class A1-50, Alloy 18-9LW only, Annealed	Stainless Steel	S30430
EG8	ASTM F880M, Class A1-50, Alloy 302HQ (XM7) only, Annealed	Stainless Steel	S30430
EG9	ASTM F880M, Class A1-70, Alloy 303 only, Cold Worked	Stainless Steel	S30300
EH0	ASTM F880M, Class A1-70, Alloy 303Se only, Cold Worked	Stainless Steel	S30323
EH1	ASTM F880M, Class A1-70, Alloy 304 only, Cold Worked	Stainless Steel	S30400
EH2	ASTM F880M, Class A1-70, Alloy 304L only, Cold Worked	Stainless Steel	S30403
EH3	ASTM F880M, Class A1-70, Alloy 305 only, Cold Worked	Stainless Steel	S30500
EH4	ASTM F880M, Class A1-70, Alloy 384 only, Cold Worked	Stainless Steel	S38400
EH5	ASTM F880M, Class A1-70, Alloy XM1 only, Cold Worked	Stainless Steel	S20300
EH6	ASTM F880M, Class A1-70, Alloy 18-9LW only, Cold Worked	Stainless Steel	S30430
EH7	ASTM F880M, Class A1-70, Alloy 302HQ (XM7) only, Cold Worked	Stainless Steel	S30430
ASTM F901 — Aluminum Transmission Tower Bolts and Nuts			
EH8	ASTM F901, Alloy 2024	Aluminum Alloy	...
EH9	ASTM F901, Alloy 6061	Aluminum Alloy	...
EJ0	ASTM F901, Alloy 6262	Aluminum Alloy	...
ASTM F912 — Alloy Steel Socket Set Screws			
EJ1	ASTM F912	Alloy Steel	...
ASTM F912M — Alloy Steel Socket Set Screws (Metric)			
EJ2	ASTM F912M	Alloy Steel	...
ASTM F959 — Compressible-Washer-Type Direct Tension Indicators for Use with Structural Fasteners			
EJ3	ASTM F959, Type 325	Carbon Steel	...
EJ4	ASTM F959, Type 490	Carbon Steel	...

Table 5-1
Material and Treatment: ASTM Material Specifications (Cont'd)

PIN	Material Spec	Material	UNS #
ASTM F959M — Compressible-Washer-Type Direct Tension Indicators for Use with Structural Fasteners (Metric)			
EJ5	ASTM F959M, Type 8.8	Carbon Steel	...
EJ6	ASTM F959M, Type 10.9	Carbon Steel	...
ASTM F1852 — Standard Specification for “Twist Off” Type Tension Control Structural Bolt/Nut/Washer Assemblies, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength			
EQ1	ASTM F1852, Type I, Plain Carbon, Carbon Boron or Alloy Steel	Steel	...
EQ2	ASTM F1852, Type 3, Weathering Steel	Steel	...
ASTM F2280 — Standard Specification for “Twist Off” Type Tension Control Structural Bolt/Nut/Washer Assemblies, Steel, Heat Treated, 150 ksi Minimum Tensile Strength			
EQ3	ASTM F2280, Type I, Alloy Steel	Alloy Steel	...
EQ4	ASTM F2280, Type 3, Weathering Steel	Steel	...
ASTM F2281 — Stainless Steel and Nickel Alloy Bolts, Hex Cap Screws, and Studs, for Heat Resistance and High Temperature Applications			
EJ7	ASTM F2281, Type I, Class A — Austenitic, Grade 304, Condition A	Stainless Steel	S30400
EJ8	ASTM F2281, Type I, Class A — Austenitic, Grade 304, Condition CWA	Stainless Steel	S30400
EJ9	ASTM F2281, Type I, Class A — Austenitic, Grade 304, Condition HWA	Stainless Steel	S30400
EK0	ASTM F2281, Type I, Class A — Austenitic, Grade 304L, Condition A	Stainless Steel	S30403
EK1	ASTM F2281, Type I, Class A — Austenitic, Grade 304L, Condition CWA	Stainless Steel	S30403
EK2	ASTM F2281, Type I, Class A — Austenitic, Grade 304L, Condition HWA	Stainless Steel	S30403
EK3	ASTM F2281, Type I, Class A — Austenitic, Grade 316, Condition A	Stainless Steel	S31600
EK4	ASTM F2281, Type I, Class A — Austenitic, Grade 316, Condition CWA	Stainless Steel	S31600
EK5	ASTM F2281, Type I, Class A — Austenitic, Grade 316, Condition HWA	Stainless Steel	S31600
EK6	ASTM F2281, Type I, Class A — Austenitic, Grade 316L, Condition A	Stainless Steel	S31603
EK7	ASTM F2281, Type I, Class A — Austenitic, Grade 316L, Condition CWA	Stainless Steel	S31603
EK8	ASTM F2281, Type I, Class A — Austenitic, Grade 316L, Condition HWA	Stainless Steel	S31603
EK9	ASTM F2281, Type I, Class B — Martensitic, Grade 410, Condition H	Stainless Steel	S41000
EL0	ASTM F2281, Type I, Class B — Martensitic, Grade 410, Condition HT	Stainless Steel	S41000
EL1	ASTM F2281, Type I, Class B — Martensitic, Grade 416, Condition H	Stainless Steel	S41600
EL2	ASTM F2281, Type I, Class B — Martensitic, Grade 416, Condition HT	Stainless Steel	S41600
EL3	ASTM F2281, Type I, Class B — Martensitic, Grade 431, Condition H	Stainless Steel	S43100
EL4	ASTM F2281, Type I, Class B — Martensitic, Grade 431, Condition HT	Stainless Steel	S43100
EL5	ASTM F2281, Type I, Class C — Ferritic, Grade 430, Condition A	Stainless Steel	S43000
EL6	ASTM F2281, Type I, Class C — Ferritic, Grade 430, Condition CWA	Stainless Steel	S43000
EL7	ASTM F2281, Type I, Class C — Ferritic, Grade 430, Condition HWA	Stainless Steel	S43000
EL8	ASTM F2281, Type I, Class C — Ferritic, Grade 430F, Condition A	Stainless Steel	S43020
EL9	ASTM F2281, Type I, Class C — Ferritic, Grade 430F, Condition CWA	Stainless Steel	S43020
EM0	ASTM F2281, Type I, Class C — Ferritic, Grade 430F, Condition HWA	Stainless Steel	S43020
EM1	ASTM F2281, Type II — Heat Resisting, Grade 309, Condition A	Heat Resisting Steel	S30900
EM2	ASTM F2281, Type II — Heat Resisting, Grade 309, Condition CWA	Heat Resisting Steel	S30900
EM3	ASTM F2281, Type II — Heat Resisting, Grade 309, Condition HWA	Heat Resisting Steel	S30900
EM4	ASTM F2281, Type II — Heat Resisting, Grade 310, Condition A	Heat Resisting Steel	S31000
EM5	ASTM F2281, Type II — Heat Resisting, Grade 310, Condition CWA	Heat Resisting Steel	S31000
EM6	ASTM F2281, Type II — Heat Resisting, Grade 310, Condition HWA	Heat Resisting Steel	S31000
EM7	ASTM F2281, Type II — Heat Resisting, Grade 321, Condition A	Stainless Steel	S32100
EM8	ASTM F2281, Type II — Heat Resisting, Grade 321, Condition CWA	Stainless Steel	S32100
EM9	ASTM F2281, Type II — Heat Resisting, Grade 321, Condition HWA	Stainless Steel	S32100
EN0	ASTM F2281, Type II — Heat Resisting, Grade 330, Condition A	Nickel Alloy	N08300
EN1	ASTM F2281, Type II — Heat Resisting, Grade 330, Condition CWA	Nickel Alloy	N08330
EN2	ASTM F2281, Type II — Heat Resisting, Grade 330, Condition HWA	Nickel Alloy	N08330

Table 5-1
Material and Treatment: ASTM Material Specifications (Cont'd)

PIN	Material Spec	Material	UNS #
ASTM F2281 — Stainless Steel and Nickel Alloy Bolts, Hex Cap Screws, and Studs, for Heat Resistance and High Temperature Applications (Cont'd)			
EN3	<i>ASTM F2281, Type II — Heat Resisting, Grade 347, Condition A</i>	<i>Stainless Steel</i>	<i>S34700</i>
EN4	<i>ASTM F2281, Type II — Heat Resisting, Grade 347, Condition CWA</i>	<i>Stainless Steel</i>	<i>S34700</i>
EN5	<i>ASTM F2281, Type II — Heat Resisting, Grade 347, Condition HWA</i>	<i>Stainless Steel</i>	<i>S34700</i>
EN6	<i>ASTM F2281, Type III, Class A — Nickel Based Alloy, Grade 600, Condition A</i>	<i>Nickel Alloy</i>	<i>N06600</i>
EN7	<i>ASTM F2281, Type III, Class A — Nickel Based Alloy, Grade 600, Condition CWA</i>	<i>Nickel Alloy</i>	<i>N06600</i>
EN8	<i>ASTM F2281, Type III, Class A — Nickel Based Alloy, Grade 600, Condition HWA</i>	<i>Nickel Alloy</i>	<i>N06600</i>
EN9	<i>ASTM F2281, Type III, Class A — Nickel Based Alloy, Grade 601, Condition A</i>	<i>Nickel Alloy</i>	<i>N06601</i>
EP0	<i>ASTM F2281, Type III, Class A — Nickel Based Alloy, Grade 601, Condition CWA</i>	<i>Nickel Alloy</i>	<i>N06601</i>
EP1	<i>ASTM F2281, Type III, Class A — Nickel Based Alloy, Grade 601, Condition HWA</i>	<i>Nickel Alloy</i>	<i>N06601</i>
EP2	<i>ASTM F2281, Type III, Class B — Precipitation Hardened, Grade 660, Condition AH1</i>	<i>Iron Base Superalloy (A286)</i>	<i>S66286</i>
EP3	<i>ASTM F2281, Type III, Class B — Precipitation Hardened, Grade 660, Condition AH2</i>	<i>Iron Base Superalloy (A286)</i>	<i>S66286</i>
EP4	<i>ASTM F2281, Type III, Class B — Precipitation Hardened, Grade 660, Condition AH3</i>	<i>Iron Base Superalloy (A286)</i>	<i>S66286</i>
EP5	<i>ASTM F2281, Type III, Class C — Precipitation Hardened, Grade 718, Condition AH4</i>	<i>Nickel Alloy</i>	<i>N07718</i>

GENERAL NOTE: Italic text denotes information that remains the same as in the previous version of the Standard, but has been moved within this document for consolidation or clarity.

NOTE: (1) This designation is cancelled and is not to be used for new design.

Table 5-2
Material and Treatment: UNS Carbon and Alloy Steels

(23)

PIN	Material Spec	Material
GA1	1005, G10050	Carbon Steel
GA2	1006, G10060	Carbon Steel
GA3	1008, G10080	Carbon Steel
GA4	1009, G10090	Carbon Steel
GA5	1010, G10100	Carbon Steel
GA6	1011, G10110	Carbon Steel
GA7	1012, G10120	Carbon Steel
GA8	1013, G10130	Carbon Steel
GA9	1015, G10140	Carbon Steel
GB0	1016, G10160	Carbon Steel
GB1	1017, G10170	Carbon Steel
GB2	1018, G10180	Carbon Steel
GB3	1019, G10190	Carbon Steel
GB4	1020, G10200	Carbon Steel
GB5	1021, G10210	Carbon Steel
GB6	1022, G10220	Carbon Steel
GB7	1023, G10230	Carbon Steel
GB8	1025, G10250	Carbon Steel
GB9	1026, G10260	Carbon Steel
GC0	1029, G10290	Carbon Steel
GC1	1030, G10300	Carbon Steel
GC2	1033, G10330	Carbon Steel
GC3	1034, G10340	Carbon Steel
GC4	1035, G10350	Carbon Steel
GC5	1037, G10370	Carbon Steel
GC6	1038, G10380	Carbon Steel
GC7	1039, G10390	Carbon Steel
GC8	1040, G10400	Carbon Steel
GC9	1042, G10420	Carbon Steel
GD0	1043, G10430	Carbon Steel
GD1	1044, G10440	Carbon Steel
GD2	1045, G10450	Carbon Steel
GD3	1046, G10460	Carbon Steel
GD4	1049, G10490	Carbon Steel
GD5	1050, G10500	Carbon Steel
GD6	1053, G10530	Carbon Steel
GD7	1055, G10555	Carbon Steel
GD8	1059, G10590	Carbon Steel
GD9	1060, G10600	Carbon Steel
GE0	1064, G10640	Carbon Steel
GE1	1065, G10650	Carbon Steel
GE2	1069, G10690	Carbon Steel
GE3	1070, G10700	Carbon Steel
GE4	1074, G10740	Carbon Steel
GE5	1075, G10750	Carbon Steel
GE6	1078, G10780	Carbon Steel
GE7	1080, G10800	Carbon Steel
GE7	1084, G10840	Carbon Steel
GE9	1085, G10850	Carbon Steel

Table 5-2
Material and Treatment: UNS Carbon and Alloy Steels (Cont'd)

PIN	Material Spec	Material
GF0	1086, G10860	Carbon Steel
GF1	1090, G10900	Carbon Steel
GF2	1095, G10950	Carbon Steel
GF3	UNS G10080, G10090, G10100, G10110, G10120, G10130, G10140, G10160, G10170, G10180, or G10190	Carbon Steel
GF4	UNS G10300, G10350, G10380, or G15410	Carbon Steel
GF5	UNS G10700, G10740, G10750, G10780, G10800, G10840, G10850, G10860, G10900, or G10950	Carbon Steel
GF6	UNS G10600, G10640, G10650, G10690, G10700, G10740, G10750, G10780, G10800, G10840, G10850, G10860, or G10900	Carbon Steel
GF7	1108, G11080	Resulfurized Carbon Steel
GF8	1109, G11090	Resulfurized Carbon Steel
GF9	1110, G11100	Resulfurized Carbon Steel
GG0	1113, G11160	Resulfurized Carbon Steel
GG1	1117, G11170	Resulfurized Carbon Steel
GG2	1118, G11180	Resulfurized Carbon Steel
GG3	1119, G11190	Resulfurized Carbon Steel
GG4	1123, G11230	Resulfurized Carbon Steel
GG5	1132, G11320	Resulfurized Carbon Steel
GG6	1137, G11370	Resulfurized Carbon Steel
GG7	11374, G11374	Steel, Free Machining
GG8	1139, G11390	Resulfurized Carbon Steel
GG9	1140, G11400	Resulfurized Carbon Steel
GH0	1141, G11410	Resulfurized Carbon Steel
GH1	1144, G11440	Resulfurized Carbon Steel
GH2	1145, G11450	Resulfurized Carbon Steel
GH3	1146, G11460	Resulfurized Carbon Steel
GH4	1151, G11510	Resulfurized Carbon Steel
GH5	1211, G12110	Rephosphorized and Resulfurized Carbon Steel
GH6	1212, G12120	Rephosphorized and Resulfurized Carbon Steel
GH7	1213, G12130	Rephosphorized and Resulfurized Carbon Steel
GH8	12L13, G12134	Rephosphorized, Resulfurized, and Lead Carbon Steel
GH9	12L14, G12144	Rephosphorized and Resulfurized Carbon Steel
GJ0	1215, G12150	Rephosphorized and Resulfurized Carbon Steel
GJ1	UNS G10140, G10200, G10220, G11170, or G11180	Carbon Steel
GJ2	UNS G10300, G10400, G10500, G10600, G10800, or G11440	Carbon Steel
GJ3	1513, G15130	Carbon Steel
GJ4	1518, G15180	Carbon Steel
GJ5	1522, G15220	Carbon Steel
GJ6	1524, G15240	Carbon Steel
GJ7	1525, G15250	Carbon Steel
GJ8	1526, G15260	Carbon Steel
GJ9	1527, G15270	Carbon Steel
GK0	1533, G15330	Carbon Steel
GK1	1534, G15340	Carbon Steel
GK2	1536, G15360	Carbon Steel
GK3	1541, G15410	Carbon Steel
GK4	1547, G15470	Carbon Steel

Table 5-2
Material and Treatment: UNS Carbon and Alloy Steels (Cont'd)

PIN	Material Spec	Material
GK5	1548, G15480	Carbon Steel
GK6	1551, G15510	Carbon Steel
GK7	1552, G15520	Carbon Steel
GK8	1553, G15530	Carbon Steel
GK9	1561, G15610	Carbon Steel
GL0	1566, G15660	Carbon Steel
GL1	1570, G15700	Carbon Steel
GL2	1572, G15720	Carbon Steel
GL3	1580, G15800	Carbon Steel
GL4	1590, G15900	Carbon Steel
GL5	UNS G10060, G10080, or G10100	Carbon Steel
GL6	UNS G10120, G10140, G10170, or G10200	Carbon Steel
GL7	UNS G10160, G10180, G10210, G10220, or G10260	Carbon Steel
GL8	UNS G10230 or G10250	Carbon Steel
GL9	UNS G10290, G10300, G10350, G10370, G10380, or G10390	Carbon Steel
GM0	UNS G10555, G10600, G10700, G10800, G10840, or G10850	Carbon Steel
GM1	UNS G10780 or G10950	Carbon Steel
GM2	UNS G12110, G12120, or G12130	Carbon Steel
GM3	UNS G11080 or G11090	Carbon Steel
GM4	UNS G11160, G11170, G11180, or G11190	Carbon Steel
GM5	UNS G11400, G11450, or G11460	Carbon Steel
GM6	UNS G11374, G11410, or G11440	Carbon Steel
GM7	Any UNS Carbon Steel	Carbon Steel
GN1	1330, G13300	Mn Alloy Steel
GN2	1335, G13350	Mn Alloy Steel
GN3	1340, G13400	Mn Alloy Steel
GN4	1345, G13450	Mn Alloy Steel
GN5	4012, G40120	Mo Alloy Steel
GN6	4023, G40230	Mo Alloy Steel
GN7	4024, G40240	Mo Alloy Steel
GN8	4027, G40270	Mo Alloy Steel
GN9	4028, G40280	Mo Alloy Steel
GP0	4032, G40320	Mo Alloy Steel
GP1	4037, G40370	Mo Alloy Steel
GP2	4042, G40420	Mo Alloy Steel
GP3	4047, G40470	Mo Alloy Steel
GP4	4113, G41180	Cr-Mo Alloy Steel
GP5	4130, G41300	Cr-Mo Alloy Steel
GP6	4135, G41350	Cr-Mo Alloy Steel
GP7	4137, G41370	Cr-Mo Alloy Steel
GP8	4140, G41400	Cr-Mo Alloy Steel
GP9	4142, G41420	Cr-Mo Alloy Steel
GQ0	4145, G41450	Cr-Mo Alloy Steel
GQ1	4147, G41470	Cr-Mo Alloy Steel
GQ2	4150, G41500	Cr-Mo Alloy Steel
GQ3	4161, G41610	Cr-Mo Alloy Steel
GQ4	4320, G43200	Ni-Cr-Mo Alloy Steel
GQ5	4340, G43400	Ni-Cr-Mo Alloy Steel
GQ6	E4340, G43406	Ni-Cr-Mo Alloy Steel

Table 5-2
Material and Treatment: UNS Carbon and Alloy Steels (Cont'd)

PIN	Material Spec	Material
GQ7	4419, G44190	Mo Alloy Steel
GQ8	4422, G44220	Mo Alloy Steel
GQ9	4427, G44270	Mo Alloy Steel
GR0	4615, G46150	Ni-Mo Alloy Steel
GR1	4617, G46170	Ni-Mo Alloy Steel
GR2	4620, G46200	Ni-Mo Alloy Steel
GR3	4621, G46210	Ni-Mo Alloy Steel
GR4	4626, G46260	Ni-Mo Alloy Steel
GR5	4718, G47180	Ni-Cr-Mo Alloy Steel
GR6	4720, G47200	Ni-Cr-Mo Alloy Steel
GR7	4815, G48150	Ni-Mo Alloy Steel
GR8	4817, G48170	Ni-Mo Alloy Steel
GR9	4820, G48200	Ni-Mo Alloy Steel
GS0	5015, G50150	Cr Alloy Steel
GS1	50B40, G50401	Cr-B Alloy Steel
GS2	50B44, G50441	Cr-B Alloy Steel
GS3	5046, G50460	Cr Alloy Steel
GS4	50B46, G50461	Cr-B Alloy Steel
GS5	50B50, G50501	Cr-B Alloy Steel
GS6	5060, G50600	Cr Alloy Steel
GS7	50B60, G50601	Cr-B Alloy Steel
GS8	5115, G51150	Cr Alloy Steel
GS9	5117, G51170	Cr Alloy Steel
GT0	5120, G51200	Cr Alloy Steel
GT1	5130, G51300	Cr Alloy Steel
GT2	5132, G51320	Cr Alloy Steel
GT3	5135, G51350	Cr Alloy Steel
GT4	5140, G51400	Cr Alloy Steel
GT5	5145, G51450	Cr Alloy Steel
GT6	5147, G51470	Cr Alloy Steel
GT7	5150, G51500	Cr Alloy Steel
GT8	5155, G51550	Cr Alloy Steel
GT9	5160, G51600	Cr Alloy Steel
GU0	51B60, G51601	Cr-B Alloy Steel
GU1	50100, G50986	Cr Alloy Steel
GU2	51100, G51986	Cr Alloy Steel
GU3	52100, G52986	Cr Alloy Steel
GU4	6118, G61180	Cr-V Alloy Steel
GU5	6150, G61500	Cr-V Alloy Steel
GU6	8115, G81150	Ni-Cr-Mo Alloy Steel
GU7	81B45, G81451	Ni-Cr-Mo-B Alloy Steel
GU8	8615, G86150	Ni-Cr-Mo Alloy Steel
GU9	8617, G86170	Ni-Cr-Mo Alloy Steel
GV0	8620, G86200	Ni-Cr-Mo Alloy Steel
GV1	8622, G86220	Ni-Cr-Mo Alloy Steel
GV2	8625, G86250	Ni-Cr-Mo Alloy Steel
GV3	8627, G86270	Ni-Cr-Mo Alloy Steel
GV4	8630, G86300	Ni-Cr-Mo Alloy Steel
GV5	8637, G86370	Ni-Cr-Mo Alloy Steel

Table 5-2
Material and Treatment: UNS Carbon and Alloy Steels (Cont'd)

PIN	Material Spec	Material
GV6	8640, G86400	Ni-Cr-Mo Alloy Steel
GV7	8642, G86420	Ni-Cr-Mo Alloy Steel
GV8	8645, G86450	Ni-Cr-Mo Alloy Steel
GV9	86B45, G86451	Ni-Cr-Mo-B Alloy Steel
GW0	8650, G86500	Ni-Cr-Mo Alloy Steel
GW1	8655, G86550	Ni-Cr-Mo Alloy Steel
GW2	8660, G86600	Ni-Cr-Mo Alloy Steel
GW3	8720, G87200	Ni-Cr-Mo Alloy Steel
GW4	8740, G87400	Ni-Cr-Mo Alloy Steel
GW5	8822, G88220	Ni-Cr-Mo Alloy Steel
GW6	9254, G92540	Cr-Si Alloy Steel
GW7	9255, G92550	Si-Mn Alloy Steel
GW8	9260, G92600	Si-Mn Alloy Steel
GW9	9310, G93106	Ni-Cr-Mo Alloy Steel
GX0	94B15, G94151	Ni-Cr-Mo-B Alloy Steel
GX1	94B17, G94171	Ni-Cr-Mo-B Alloy Steel
GX2	94830, G94301	Ni-Cr-Mo-B Alloy Steel
GX3	6150H, H61500	Cr-V H-Alloy Steel
GX4	UNS G41300, G41400, G43400	Alloy Steel
GX5	UNS G41300, G43400, G86370, G86400	Alloy Steel
GX6	UNS G41300, G43400, G86370, G86400, G87400	Alloy Steel
GX7	B21, K14073	Alloy Steel
GX8	B24, K24064	Alloy Steel
GX9	B24V, K24070	Alloy Steel
GY0	Any Alloy Steel	Alloy Steel

Table 5-3
Material and Treatment: UNS Heat and Corrosion Resisting Steels

PIN	Material Spec	Material
SA1	201, S20100, Annealed	Austenitic Cr-Mn-Ni Stainless Steel
SA2	201, S20100, Cold Worked	Austenitic Cr-Mn-Ni Stainless Steel
SA3	202, S20200, Annealed	Austenitic Cr-Mn-Ni Stainless Steel
SA4	202, S20200, Cold Worked	Austenitic Cr-Mn-Ni Stainless Steel
SA5	203, S20300, Annealed	Austenitic Cr-Mn-Ni-Cu Free Machining Stainless Steel (203 EZ)
SA6	203, S20300, Cold Worked	Austenitic Cr-Mn-Ni-Cu Free Machining Stainless Steel (203 EZ)
SA7	301, S30100, Annealed	Austenitic Cr-Ni Stainless Steel
SA8	301, S30100, Cold Worked	Austenitic Cr-Ni Stainless Steel
SA9	302, S30200, Annealed	Austenitic Cr-Ni Stainless Steel
SB0	302, S30200, Cold Worked	Austenitic Cr-Ni Stainless Steel
SB1	302B, S30215, Annealed	Austenitic Cr-Ni Stainless Steel
SB2	302B, S30215, Cold Worked	Austenitic Cr-Ni Stainless Steel
SB3	303, S30300, Annealed	Free Machining Austenitic Cr-Ni Stainless Steel
SB4	303, S30300, Cold Worked	Free Machining Austenitic Cr-Ni Stainless Steel
SB5	303Se, S30323, Annealed	Free Machining Austenitic Cr-Ni Stainless Steel (Se Bearing)
SB6	303Se, S30323, Cold Worked	Free Machining Austenitic Cr-Ni Stainless Steel (Se Bearing)
SB7	304, S30400, Annealed	Austenitic Cr-Ni Stainless Steel
SB8	304, S30400, Cold Worked	Austenitic Cr-Ni Stainless Steel
SB9	304H, S30409, Annealed	Austenitic Cr-Ni Stainless Steel, High Carbon (304 H)
SC0	304H, S30409, Cold Worked	Austenitic Cr-Ni Stainless Steel, High Carbon (304 H)
SC1	304L, S30403, Annealed	Austenitic Cr-Ni Stainless Steel (Low Carbon)
SC2	304L, S30403, Cold Worked	Austenitic Cr-Ni Stainless Steel (Low Carbon)
SC3	304LN, S30453, Annealed	Austenitic Nitrogen Bearing Cr-Ni Stainless Steel (304 LN)
SC4	304LN, S30453, Cold Worked	Austenitic Nitrogen Bearing Cr-Ni Stainless Steel (304 LN)
SC5	30430, S30430, Annealed	Austenitic Cr-Ni-Cu Low Work Hardening Stainless Steel (18-9-LW)
SC6	30430, S30430, Cold Worked	Austenitic Cr-Ni-Cu Low Work Hardening Stainless Steel (18-9-LW)
SC7	304N, S30451, Annealed	Austenitic Nitrogen Bearing Cr-Ni Stainless Steel (304 N)
SC8	304N, S30451, Cold Worked	Austenitic Nitrogen Bearing Cr-Ni Stainless Steel (304 N)
SC9	305, S30500, Annealed	Austenitic Nitrogen Bearing Cr-Ni Stainless Steel (Low Work Hardening)
SD0	305, S30500, Cold Worked	Austenitic Nitrogen Bearing Cr-Ni Stainless Steel (Low Work Hardening)
SD1	308, S30800, Annealed	Austenitic Cr-Ni Heat Resisting Steel
SD2	308, S30800, Cold Worked	Austenitic Cr-Ni Heat Resisting Steel
SD3	309, S30900, Annealed	Austenitic Cr-Ni Heat Resisting Steel
SD4	309, S30900, Cold Worked	Austenitic Cr-Ni Heat Resisting Steel
SD5	309S, S30908, Annealed	Austenitic Cr-Ni Heat Resisting Stainless Steel (309 S)
SD6	309S, S30908, Cold Worked	Austenitic Cr-Ni Heat Resisting Stainless Steel (309 S)
SD7	310, S31000, Annealed	Austenitic Cr-Ni Heat Resisting Steel
SD8	310, S31000, Cold Worked	Austenitic Cr-Ni Heat Resisting Steel
SD9	310S, S31008, Annealed	Austenitic Cr-Ni Heat Resisting Steel (310 S)
SE0	310S, S31008, Cold Worked	Austenitic Cr-Ni Heat Resisting Steel (310 S)

Table 5-3
Material and Treatment: UNS Heat and Corrosion Resisting Steels (Cont'd)

PIN	Material Spec	Material
SE1	314, S31400, Annealed	Austenitic Cr-Ni Heat Resisting Steel
SE2	314, S31400, Cold Worked	Austenitic Cr-Ni Heat Resisting Steel
SE3	316, S31600, Annealed	Austenitic Cr-Ni-Mo Stainless Steel
SE4	316, S31600, Cold Worked	Austenitic Cr-Ni-Mo Stainless Steel
SE5	316F, S31620, Annealed	Austenitic Cr-Ni-Mo Free Machining Stainless Steel
SE6	316F, S31620, Cold Worked	Austenitic Cr-Ni-Mo Free Machining Stainless Steel
SE7	316H, S31609, Annealed	Austenitic Cr-Ni-Mo Stainless Steel (High Carbon)
SE8	316H, S31609, Cold Worked	Austenitic Cr-Ni-Mo Stainless Steel (High Carbon)
SE9	316L, S31603, Annealed	Austenitic Cr-Ni-Mo Stainless Steel (Low Carbon)
SF0	316L, S31603, Cold Worked	Austenitic Cr-Ni-Mo Stainless Steel (Low Carbon)
SF1	316N, S31651, Annealed	Austenitic Nitrogen Bearing Cr-Ni-Mo Stainless Steel (316 N)
SF2	316N, S31651, Cold Worked	Austenitic Nitrogen Bearing Cr-Ni-Mo Stainless Steel (316 N)
SF3	316LN, S31653, Annealed	Austenitic Nitrogen Bearing Cr-Ni-Mo Stainless Steel (316LN)
SF4	316LN, S31653, Cold Worked	Austenitic Nitrogen Bearing Cr-Ni-Mo Stainless Steel (316LN)
SF5	317, S31700, Annealed	Austenitic Cr-Ni-Mo Stainless Steel
SF6	317, S31700, Cold Worked	Austenitic Cr-Ni-Mo Stainless Steel
SF7	317L, S31703, Annealed	Austenitic Cr-Ni-Mo Stainless Steel (Low Carbon)
SF8	317L, S31703, Cold Worked	Austenitic Cr-Ni-Mo Stainless Steel (Low Carbon)
SF9	321, S32100, Annealed	Austenitic Cr-Ni Stainless Steel (Titanium Stabilized)
SG0	321, S32100, Cold Worked	Austenitic Cr-Ni Stainless Steel (Titanium Stabilized)
SG1	321H, S32109, Annealed	Austenitic Cr-Ni Stainless Steel (Titanium Stabilized), High Carbon (321H)
SG2	321H, S32109, Cold Worked	Austenitic Cr-Ni Stainless Steel (Titanium Stabilized), High Carbon (321H)
SG3	329, S32900, Annealed	Ferritic-Austenitic Cr-Ni Stainless Steel
SG4	329, S32900, Cold Worked	Ferritic-Austenitic Cr-Ni Stainless Steel
SG5	347, S34700, Annealed	Austenitic Cr-Ni Stainless Steel (Columbium Stabilized)
SG6	347, S34700, Cold Worked	Austenitic Cr-Ni Stainless Steel (Columbium Stabilized)
SG7	347H, S34709, Annealed	Austenitic Cr-Ni Stainless Steel (Columbium Stabilized), High Carbon (347-H)
SG8	347H, S34709, Cold Worked	Austenitic Cr-Ni Stainless Steel (Columbium Stabilized), High Carbon (347-H)
SG9	348, S34800, Annealed	Austenitic Cr-Ni Stainless Steel (Columbium Stabilized) (Ta and Co Restricted)
SH0	348, S34800, Cold Worked	Austenitic Cr-Ni Stainless Steel (Columbium Stabilized) (Ta and Co Restricted)
SH1	348H, S34809, Annealed	Austenitic Cr-Ni Stainless Steel (Columbium Stabilized), High Carbon (Ta and Co Restricted) (348-H)
SH2	348H, S34809, Cold Worked	Austenitic Cr-Ni Stainless Steel (Columbium Stabilized), High Carbon (Ta and Co Restricted) (348-H)
SH3	384, S38400, Annealed	Austenitic Cr-Ni Stainless Steel (Low Work Hardening)
SH4	384, S38400, Cold Worked	Austenitic Cr-Ni Stainless Steel (Low Work Hardening)
SH5	UNS S20100, S20200, or S20500, Annealed	Stainless Steel

Table 5-3
Material and Treatment: UNS Heat and Corrosion Resisting Steels (Cont'd)

PIN	Material Spec	Material
SH6	UNS S20100, S20200, or S20500, Cold Worked	Stainless Steel
SH7	Any Austenitic Stainless Steel, Annealed	Stainless Steel
SH8	Any Austenitic Stainless Steel, Cold Worked	Stainless Steel
SH9	405, S40500, Annealed	Cr Stainless Steel (Not Hardenable by Heat Treatment)
SJ0	405, S40500, Cold Worked	Cr Stainless Steel (Not Hardenable by Heat Treatment)
SJ1	409, S40900, Annealed	Ferritic Cr Stainless Steel
SJ2	409, S40900, Cold Worked	Ferritic Cr Stainless Steel
SJ3	429, S42900, Annealed	Cr Stainless Steel
SJ4	429, S42900, Cold Worked	Cr Stainless Steel
SJ5	430, S43000, Annealed	Cr Stainless Steel
SJ6	430, S43000, Cold Worked	Cr Stainless Steel
SJ7	430F, S43020, Annealed	Free Machining Cr Stainless Steel (S Bearing)
SJ8	430F, S43020, Cold Worked	Free Machining Cr Stainless Steel (S Bearing)
SJ9	430Fse, S43023, Annealed	Free Machining Cr Stainless Steel (Se Bearing)
SK0	430Fse, S43023, Cold Worked	Free Machining Cr Stainless Steel (Se Bearing)
SK1	434, S43400, Annealed	Cr-Mo Stainless Steel
SK2	434, S43400, Cold Worked	Cr-Mo Stainless Steel
SK3	436, S43600, Annealed	Cr-Mo Stainless Steel
SK4	436, S43600, Cold Worked	Cr-Mo Stainless Steel
SK5	442, S44200, Annealed	Cr Heat Resisting Steel
SK6	442, S44200, Cold Worked	Cr Heat Resisting Steel
SK7	444, S44400, Annealed	Cr-Mo Stainless Steel (Stabilized Low-Interstitial Ferritic)
SK8	444, S44400, Cold Worked	Cr-Mo Stainless Steel (Stabilized Low-Interstitial Ferritic)
SK9	446, S44600, Annealed	Cr Heat Resisting Steel
SL0	446, S44600, Cold Worked	Cr Heat Resisting Steel
SL1	UNS S40500, S40900, S42900, S43000, S43020, S43023, S43400, S43600, S44200, S44400 (Ferritic S.S.), Annealed	Stainless Steel
SL2	UNS S40500, S40900, S42900, S43000, S43020, S43023, S43400, S43600, S44200, S44400 (Ferritic S.S.), Cold Worked	Stainless Steel
SL3	403, S40300, Annealed	Cr Stainless Steel (Hardenable by Heat Treatment)
SL4	403, S40300, Quenched and Tempered	Cr Stainless Steel (Hardenable by Heat Treatment)
SL5	410, S41000, Annealed	Cr Stainless Steel (Hardenable by Heat Treatment)
SL6	410, S41000, Quenched and Tempered	Cr Stainless Steel (Hardenable by Heat Treatment)
SL7	414, S41400, Annealed	Cr Stainless Steel With Low Nickel Content
SL8	414, S41400, Quenched and Tempered	Cr Stainless Steel With Low Nickel Content
SL9	416, S41600, Annealed	Cr Stainless Steel (Free Machining)
SM0	416, S41600, Quenched and Tempered	Cr Stainless Steel (Free Machining)
SM1	416Se, S41623, Annealed	Martensitic Cr Free Machining Stainless Steel (Se Bearing)
SM2	416Se, S41623, Quenched and Tempered	Martensitic Cr Free Machining Stainless Steel (Se Bearing)
SM3	420, S42000, Annealed	Hardenable Cr Stainless Steel
SM4	420, S42000, Quenched and Tempered	Hardenable Cr Stainless Steel
SM5	420F, S42020, Annealed	Hardenable Cr Free Machining Stainless Steel
SM6	420F, S42020, Quenched and Tempered	Hardenable Cr Free Machining Stainless Steel
SM7	422, S42200, Annealed	Martensitic Cr Stainless Steel
SM8	422, S42200, Quenched and Tempered	Martensitic Cr Stainless Steel
SM9	431, S43100, Annealed	Ni Bearing Hardenable Cr Stainless Steel

Table 5-3
Material and Treatment: UNS Heat and Corrosion Resisting Steels (Cont'd)

PIN	Material Spec	Material
SN0	431, S43100, Quenched and Tempered	Ni Bearing Hardenable Cr Stainless Steel
SN1	440A, S44002, Annealed	Hardenable Cr Stainless Steel (440 A)
SN2	440A, S44002, Quenched and Tempered	Hardenable Cr Stainless Steel (440 A)
SN3	440B, S44003, Annealed	Hardenable Cr Stainless Steel (440 B)
SN4	440B, S44003, Quenched and Tempered	Hardenable Cr Stainless Steel (440 B)
SN5	440C, S44004, Annealed	Hardenable Cr Stainless Steel (440 C)
SN6	440C, S44004, Quenched and Tempered	Hardenable Cr Stainless Steel (440 C)
SN7	501, S50100, Annealed	Cr Heat Resisting Steel
SN8	501, S50100, Quenched and Tempered	Cr Heat Resisting Steel
SP3	502, S50200, Annealed	Cr Heat Resisting Steel
SP4	502, S50200, Quenched and Tempered	Cr Heat Resisting Steel
SP5	503, S50300, Annealed	Cr Heat Resisting Steel
SP6	503, S50300, Quenched and Tempered	Cr Heat Resisting Steel
SP7	504, S50400, Annealed	Cr Heat Resisting Steel
SP8	504, S50400, Quenched and Tempered	Cr Heat Resisting Steel
SP9	UNS S40300, S41000, S41400, S41600, S41623, S42000, S42020, S42200, S43100, S44002, S44003, S44004 (Martensitic S.S.), Annealed	Stainless Steel
SQ0	UNS S40300, S41000, S41400, S41600, S41623, S42000, S42020, S42200, S43100, S44002, S44003, S44004 (Martensitic S.S.), Quenched and Tempered	Stainless Steel
SQ1	A286, S66286, Solution Treated and Aged, S15700	Iron Base Superalloy (A286)
SQ2	15-7PH, Annealed, UNS S15700	Precipitation Hardenable Cr-Ni-Mo-Al Stainless Steel (PH 15-7 Mo)
SQ3	15-7PH, Solution Treated and Aged, S15700	Precipitation Hardenable Cr-Ni-Mo-Al Stainless Steel (PH 15-7 Mo)
SQ4	14-8PH, Annealed, S14800	Precipitation Hardenable Cr-Ni-Mo-Al Stainless Steel (PH 14-8 Mo)
SQ5	14-8PH, Solution Treated and Aged, S14800	Precipitation Hardenable Cr-Ni-Mo-Al Stainless Steel (PH 14-8 Mo)
SQ6	PH-13-8MO, Annealed, S13800	Precipitation Hardenable Cr-Ni-Al-Mo Stainless Steel (PH 13-8 Mo)
SQ7	PH-13-8MO, Solution Treated and Aged, S13800	Precipitation Hardenable Cr-Ni-Al-Mo Stainless Steel (PH 13-8 Mo)
SQ8	15-5PH, Annealed, S15500	Precipitation Hardenable Cr-N-Cu Stainless Steel (15-5 PH)
SQ9	15-5PH, Solution Treated and Aged, S15500	Precipitation Hardenable Cr-Ni-Cu Stainless Steel (15-5 PH)
SR0	17-4PH, Annealed, S17400	Precipitation Hardenable Cr-Ni-Cu Stainless Steel (17-4 PH)
SR1	17-4PH, Solution Treated and Aged, S17400	Precipitation Hardenable Cr-Ni-Cu Stainless Steel (17-4 PH)
SR2	17-7PH, Annealed, S17700	Precipitation Hardenable Cr-Ni-Al Stainless Steel (17-7 PH)
SR3	17-7PH, Solution Treated and Aged, S17700	Precipitation Hardenable Cr-Ni-Al Stainless Steel (17-7 PH)
SR4	UNS S15700, S14800, S13800, S15500, S17400, S17700 (Precipitation Hardening), Annealed	Stainless Steel
SR5	UNS S15700, S14800, S13800, S15500, S17400, S17700 (Precipitation Hardening), Solution Treated and Aged	Stainless Steel

Table 5-4
Material and Treatment: UNS Nonferrous Materials

PIN	Material Spec	Material
UA1	462, C46200	Naval Brass, 63½%
UA3	2024, A92024	Wrought Aluminum Alloy, Heat Treatable
UA4	6061-T73, A96061	Wrought Aluminum Alloy, Heat Treatable
UA5	7075-T73, A97075	Wrought Aluminum Alloy, Heat Treatable
UA6	UNS A92024, A96061, or A97075	Wrought Aluminum Alloy, Heat Treatable
UA7	110, C11000	Copper, Electrolytic Tough Pitch Copper (ETP)
UA8	145, C14500	Phosphorous Deoxidized Copper
UA9	147, C14700	Sulfur Bearing Copper
UB0	UNS C11000, C14500, or C14700	Copper
UK5	172, C17200	Beryllium Copper
UB1	210, C21000	Gilding, 95% (Copper/Zinc)
UB2	220, C22000	Commercial Bronze, 90%
UB3	230, C23000	Red Brass, 85%
UB4	240, C24000	Low Brass, 80%
UB5	260, C26000	Cartridge Brass, 70%
UB6	268, C26800	Yellow Brass, 66%
UB7	270, C27000	Yellow Brass, 65%
UB8	272, C27200	Brass
UB9	274, C27400	Yellow Brass, 63%
UC0	UNS C21000, C22000, C23000, C24000, C26000, C26800, C27000, C27200, or C27400	Brass
UC1	335, C33500	Low Lead Brass
UC2	340, C34000	Medium Lead Brass, 64.5%
UC3	342, C34200	High Lead Brass, 64.5%
UC4	350, C35000	Medium Lead Brass, 62%
UC5	3534, C35340	Lead Brass
UC6	356, C35600	Lead Brass Alloy
UC7	UNS C33500, C34000, C34200, C35000, C35340, or C35600	Brass
UC8	360, C36000	Free Cutting Brass
UC9	365, C36500	Lead Muntz Metal, Uninhibited (Cu-Zn-Pb)
UD0	377, C37700	Forging Brass
UD2	464, C46400	Naval Brass, Uninhibited
UD4	482, C48200	Naval Brass, Medium Lead
UD5	485, C48500	Naval Brass, High Lead
UD6	510, C51000	Phosphor Bronze, 5% A
UD7	521, C52100	Phosphor Bronze, 8%
UD8	524, C52400	Phosphor Bronze, 10%
UD9	UNS C5100, C52100, or C52400	Phosphor Bronze
UE0	613, C61300	Aluminum Bronze
UE1	614, C61400	Aluminum Bronze D
UE2	619, C61900	Aluminum Bronze
UE3	623, C62300	Aluminum Bronze
UE4	630, C63000	Aluminum Bronze
UE5	630, C63000	Aluminum Bronze
UE6	632, C63200	Aluminum Bronze
UE7	642, C64200	Aluminum Bronze
UE9	6421, C64210	Aluminum Silicon Bronze
UF0	651, C65100	Low Silicon Bronze B
UF1	655, C65500	High Silicon Bronze A

Table 5-4
Material and Treatment: UNS Nonferrous Materials (Cont'd)

PIN	Material Spec	Material
UF2	661, C66100	Silicon Bronze
UF3	675, C67500	Manganese Bronze A
UF4	710, C71000	Copper-Nickel, 20%
UF5	UNS C11000, C27000, C36000, C46200, C46400, C48200, C51000, C61300, C61400, C63000, C63200, C64200, C65100, C65500, C66100, C67500, C71000	Brass/Bronze/Copper-Nickel Alloy
UF6	715, C71500	Copper-Nickel, 30%
UK6	729, C72900	Copper-Nickel Tin Spinodal Alloy
UF7	745, C74500	Nickel Silver, 65-10
UF8	752, C75200	Nickel Silver, 65-18
UF9	757, C75700	Nickel Silver, 65-12
UG0	764, C76400	Nickel Silver
UG1	770, C77000	Nickel Silver, 55-18
UG2	774, C77400	Nickel Silver
UG3	UNS C36500, C37700, C46400, C48200, C48500, C61900, C62300, C63000, C63200, C64200, C64210, C65500, or C77400	Brass/Bronze
UG4	792, C79200	Leaded Nickel Silver
UG5	UNS C71200, C71000, C74500, C75200, C75700, C76400, C77000, or C79200	Leaded Nickel Silver
UG6	Ni400HF, N04400	Ni-Cu Alloy Solid Solution Strengthened (Monel 400)
UG7	R405, N04405	Ni-Cu Alloy Solid Solution Strengthened (Monel R405)
UG8	K5000, N05500	Ni-Cu Alloy Precipitation Hardenable (Monel K500)
UG9	N10001	Ni-Mo Alloy Solid Solution Strengthened (Hastelloy C)
UH0	C276, N10276	Ni-Mo Alloy Solid Solution Strengthened (Hastelloy C276)
UH1	R50250	Titanium, Unalloyed
UH2	R50400	Titanium, Unalloyed
UH3	R50550	Titanium, Unalloyed
UH4	R50700	Titanium, Unalloyed
UH5	R52400	Titanium, Unalloyed
UH6	R54520	Titanium Alloy
UH7	R54521	Titanium Alloy
UH8	R54560	Titanium Alloy
UH9	R54620	Titanium Alloy
UJ0	R54810	Titanium Alloy
UJ1	R56080	Titanium Alloy
UJ2	R56210	Titanium Alloy
UJ3	R56260	Titanium Alloy
UJ4	R56320	Titanium Alloy
UJ5	R56400	Titanium Alloy
UJ6	R56401	Titanium Alloy 6Al-4V ELI
UJ7	R56402	Titanium Alloy Welding Filler Metal
UJ8	R56430	Titanium Alloy
UJ9	R56620	Titanium Alloy
UK0	R58010	Titanium Alloy
UK1	R58030	Titanium Alloy
UK2	R58640	Titanium Alloy Beta C (Grade 19)
UK3	R58820	Titanium Alloy

Table 5-4
Material and Treatment: UNS Nonferrous Materials (Cont'd)

PIN	Material Spec	Material
UK4	UNS R50250, R50400, R50550, R50700, R52400, R54520, R54521, R54560, R54620, R54810, R56080, R56210, R56260, R56320, R56400, R56401, R56402, R56430, R56620, R58010, R58030, R58640, R58820	Titanium Alloy

Table 5-5
Material and Treatment: SAE Material Specifications

PIN	Material Spec	Material
WJ1	SAE J403 1055-1065	Carbon Steel
WJ2	SAE J404 4037	Alloy Steel
WJ3	SAE J405 302-305	Stainless Steel
WJ4	SAE J405 316	Stainless Steel
WJ5	SAE J411 10B55-10B65	Boron Steel
WA1	SAE J429 — Grade 2	Carbon Steel
WA2	SAE J429 — Grade 5	Carbon Steel
WA3	SAE J429 — Grade 5.1	Carbon Steel
WA4	SAE J429 — Grade 5.2	Carbon Steel
WA5	SAE J429 — Grade 7	Carbon Steel
WA6	SAE J429 — Grade 8	Carbon Steel
WA7	SAE J429 — Grade 8.2	Carbon Steel
WF1	SAE J429 — Grade 1	Carbon Steel
WF2	SAE J429 — Grade 4	Carbon Steel
WF3	SAE J429 — Grade 8.1	Carbon Steel
WF4	SAE J430 — Grade 0	Carbon Steel
WF5	SAE J430 — Grade 1	Carbon Steel
WF6	SAE J430 — Grade 2	Carbon Steel
WF7	SAE J430 — Grade 3	Carbon Steel
WA8	SAE J995 — Grade 2	Carbon Steel
WA9	SAE J995 — Grade 5	Carbon Steel
WB0	SAE J995 — Grade 8	Carbon Steel
WB1	SAE J1199 Property Class 4.6	Carbon Steel
WB2	SAE J1199 Property Class 4.8	Carbon Steel
WB3	SAE J1199 Property Class 5.8	Carbon Steel
WB4	SAE J1199 Property Class 8.8	Carbon Steel
WB5	SAE J1199 Property Class 9	Carbon Steel
WB6	SAE J1199 Property Class 9.8	Carbon Steel
WB7	SAE J1199 Property Class 9.8	Carbon Steel
WB8	SAE J1199 Property Class 10	Carbon Steel
WB9	SAE J1199 Property Class 10.9	Carbon Steel
WC0	SAE J1199 Property Class 10.9	Carbon Steel

Table 5-6
Material and Treatment: ISO Material Specifications

PIN	Material Spec	Material
WC1	ISO 898-1 Property Class 8.8	Carbon Steel
WC2	ISO 898-1 Property Class 10.9	Carbon Steel
WC3	ISO 898-1 Property Class 12.9	Alloy Steel
WC4	ISO 898-1 Property Class 4.8	Carbon Steel
WF8	ISO 898-1 Property Class 4.6	Carbon Steel
WF9	ISO 898-1 Property Class 5.8	Carbon Steel
WC5	ISO 898-2 Property Class 4	Carbon Steel
WC6	ISO 898-2 Property Class 5	Carbon Steel
WC7	ISO 898-2 Property Class 8	Carbon Steel
WC8	ISO 898-2 Property Class 10	Carbon Steel
WC9	ISO 898-2 Property Class 12	Carbon Steel
WJ6	ISO 3506-1 Property Class A2-70	304 or Similar Stainless Steel
WJ7	ISO 3506-1 Property Class A4-70	316 Stainless Steel
WJ8	ISO 3506-2 Property Class A2-80	304 or Similar Stainless Steel
WJ9	ISO 3506-2 Property Class A4-80	316 Stainless Steel

Table 5-7
Material and Treatment: IFI Material Specifications

PIN	Material Spec	Material
WD1	IFI 140, Grade 1006	Carbon Steel
WD2	IFI 140, Grade 1008	Carbon Steel
WD3	IFI 140, Grade 1010	Carbon Steel
WD4	IFI 140, Grade 1018	Carbon Steel
WD5	IFI 140, Grade 1022/A	Carbon Steel
WD6	IFI 140, Grade 1022/B	Carbon Steel
WD7	IFI 140, Grade 1033	Carbon Steel
WD8	IFI 140, Grade 1035	Carbon Steel
WD9	IFI 140, Grade 1038	Carbon Steel
WE0	IFI 140, Grade 10B21	Carbon Steel
WE1	IFI 140, Grade 10B38	Carbon Steel
WE2	IFI 140, Grade 1335	Alloy Steel
WE3	IFI 140, Grade 1541/A	Carbon Steel
WE4	IFI 140, Grade 1541/B	Carbon Steel
WE5	IFI 140, Grade 4037	Alloy Steel
WE6	IFI 140, Grade 4042	Alloy Steel
WE7	IFI 140, Grade 4118	Alloy Steel
WE8	IFI 140, Grade 4140	Alloy Steel
WF0	IFI 140, Grade 8637	Alloy Steel
WF9	IFI 140, Grade 5140	Alloy Steel

Table 5-8
Material and Treatment: ASME B18.16.1M

PIN	Material Spec	Material
WG1	ANSI B18.16.1M Property Class 5	Carbon Steel
WG2	ANSI B18.16.1M Property Class 9	Carbon Steel
WG3	ANSI B18.16.1M Property Class 10	Carbon Steel

Table 5-9
Material and Treatment: ASME B18.16.6

(23)

PIN	Material Spec	Material
WK0	ASME B18.16.6 Property Grade NE2	Carbon Steel
WK1	ASME B18.16.6 Property Grade NE5	Carbon Steel
WK2	ASME B18.16.6 Property Grade NE8	Carbon Steel

Table 5-10
Material and Treatment: ASME B18.6.3

(23)

PIN	Material Spec	Material
WH1	ASME B18.6.3 Unhardened Machine Screw	Steel
WH2	ASME B18.6.3 Hardened Machine Screw	Steel
WH3	ASME B18.6.3 Tapping or Drive Screw	Steel

Table 5-11
Material and Treatment: ASME B18.16.4

(23)

PIN	Material Spec	Material
WH4	ASME B18.16.4 Serrated Hex Flange Locknuts 90,000 psi	Steel

Table 6-1
Plating, Coating, and Passivation: Plain, Unfinished

Plain, No Finish		
PIN	Finish Spec	Finish
A1	Plain, No Finish	None

Table 6-2
Plating, Coating, and Passivation: ASTM Finish Specifications

PIN	Finish Spec	Finish
ASTM A153 — Zinc Coating (Hot-Dip) on Iron and Steel Hardware		
A2	ASTM A153	Zinc Plate
ASTM A380 — Cleaning Descaling, and Passivation of Stainless Steel Parts		
A3	ASTM A380	Passivate
ASTM B633 — Electrodeposited Coatings of Zinc on Iron and Steel		
A4	ASTM B633, Type I, SC 1	Zinc Plate
A5	ASTM B633, Type I, SC 2	Zinc Plate
A6	ASTM B633, Type I, SC 3	Zinc Plate
A7	ASTM B633, Type I, SC 4	Zinc Plate
A8	ASTM B633, Type II, SC 1	Zinc Plate
A9	ASTM B633, Type II, SC 2	Zinc Plate
AA	ASTM B633, Type II, SC 3	Zinc Plate
AB	ASTM B633, Type II, SC 4	Zinc Plate
AC	ASTM B633, Type III, SC 1	Zinc Plate
AD	ASTM B633, Type III, SC 2	Zinc Plate
AE	ASTM B633, Type III, SC 3	Zinc Plate
AF	ASTM B633, Type III, SC 4	Zinc Plate
AG	ASTM B633, Type IV, SC 1	Zinc Plate
AH	ASTM B633, Type IV, SC 2	Zinc Plate
AJ	ASTM B633, Type IV, SC 3	Zinc Plate
AK	ASTM B633, Type IV, SC 4	Zinc Plate
MA	ASTM B633, Type V, SC 1	Zinc Plate
MB	ASTM B633, Type V, SC 2	Zinc Plate
MC	ASTM B633, Type V, SC 3	Zinc Plate
MD	ASTM B633, Type V, SC 4	Zinc Plate
ME	ASTM B633, Type VI, SC 1	Zinc Plate
MF	ASTM B633, Type VI, SC 2	Zinc Plate
MG	ASTM B633, Type VI, SC 3	Zinc Plate
MH	ASTM B633, Type VI, SC 4	Zinc Plate
ASTM B695 — Coatings of Zinc Mechanically Deposited on Iron and Steel		
AL	ASTM B695, Type I, Class 5	Zinc Plate
AM	ASTM B695, Type I, Class 8	Zinc Plate
AN	ASTM B695, Type I, Class 12	Zinc Plate
AP	ASTM B695, Type I, Class 25	Zinc Plate
AQ	ASTM B695, Type I, Class 40	Zinc Plate
AR	ASTM B695, Type I, Class 50	Zinc Plate
MI	ASTM B695, Type I, Class 55	Zinc Plate
AS	ASTM B695, Type II, Class 5	Zinc Plate
AT	ASTM B695, Type II, Class 8	Zinc Plate
AU	ASTM B695, Type II, Class 12	Zinc Plate
AV	ASTM B695, Type II, Class 25	Zinc Plate
AW	ASTM B695, Type II, Class 40	Zinc Plate
AX	ASTM B695, Type II, Class 50	Zinc Plate
MJ	ASTM B695, Type II, Class 55	Zinc Plate
ASTM B696 — Coatings of Cadmium Mechanically Deposited		
AY	ASTM B696, Type I, Class 5	Cadmium Plate
AZ	ASTM B696, Type I, Class 8	Cadmium Plate
B0	ASTM B696, Type I, Class 12	Cadmium Plate
B1	ASTM B696, Type II, Class 5	Cadmium Plate

Table 6-2
Plating, Coating, and Passivation: ASTM Finish Specifications (Cont'd)

PIN	Finish Spec	Finish
ASTM B696 — Coatings of Cadmium Mechanically Deposited (Cont'd)		
B2	ASTM B696, Type II, Class 8	Cadmium Plate
B3	ASTM B696, Type II, Class 12	Cadmium Plate
ASTM B766 — Electrodeposited Coatings of Cadmium		
B4	ASTM B766, Type I, Class 5	Cadmium Plate
B5	ASTM B766, Type I, Class 8	Cadmium Plate
B6	ASTM B766, Type I, Class 12	Cadmium Plate
B7	ASTM B766, Type I, Class 25	Cadmium Plate
B8	ASTM B766, Type II, Class 5	Cadmium Plate
B9	ASTM B766, Type II, Class 8	Cadmium Plate
BA	ASTM B766, Type II, Class 12	Cadmium Plate
BB	ASTM B766, Type II, Class 25	Cadmium Plate
BC	ASTM B766, Type III, Class 5	Cadmium Plate
BD	ASTM B766, Type III, Class 8	Cadmium Plate
BE	ASTM B766, Type III, Class 12	Cadmium Plate
BF	ASTM B766, Type III, Class 25	Cadmium Plate
ASTM F871 MN — Electrodeposited Coatings on Threaded Components (Metric)		
BG	ASTM F871M, A165 SC 1	Cadmium Plate
BH	ASTM F871 M, A165 SC 2	Zinc Plate
BJ	ASTM F871 M, A165 SC 3	Zinc Plate
BK	ASTM F871 M, N633 SC 0	Zinc Plate
BL	ASTM F871 M, N633 SC 1	Zinc Plate
BM	ASTM F871 M, N633 SC 2	Zinc Plate
BN	ASTM F871 M, N633 SC 3	Zinc Plate
BP	ASTM F871 M, N633 SC 4	Zinc Plate
BQ	ASTM F871 M, B456 SC 1	Zinc Plate
BR	ASTM F871 M, B456 SC 2	Zinc Plate
BS	ASTM F871 M, B456 SC 3	Zinc Plate
BT	ASTM F871 M, B456 SC 4	Zinc Plate
ASTM A967 — Chemical Passivation Treatments for Stainless Steel Parts		
BU	ASTM A967, Citric 1	Passivate
BV	ASTM A967, Citric 2	Passivate
BW	ASTM A967, Citric 3	Passivate
BX	ASTM A967, Citric 4	Passivate
BY	ASTM A967, Nitric 1	Passivate
BZ	ASTM A967, Nitric 2	Passivate
C0	ASTM A967, Nitric 3	Passivate
C1	ASTM A967, Nitric 4	Passivate
C2	ASTM A967, Nitric 5	Passivate
ASTM F1135 — Cadmium or Zinc Chromate Organic Corrosion Protective Coating for Fasteners		
C3	ASTM F1135, Grade 1, Code A	Zinc Plate
C4	ASTM F1135, Grade 1, Code B	Zinc Plate
C5	ASTM F1135, Grade 2, Code A	Zinc Plate
C6	ASTM F1135, Grade 2, Code B	Zinc Plate
C7	ASTM F1135, Grade 3, Code A	Zinc Plate
C8	ASTM F1135, Grade 3, Code B	Zinc Plate
C9	ASTM F1135, Grade 4, Code A	Zinc Plate
CA	ASTM F1135, Grade 4, Code B	Zinc Plate
CB	ASTM F1135, Grade 5, Code A	Cadmium Plate

Table 6-2
Plating, Coating, and Passivation: ASTM Finish Specifications (Cont'd)

PIN	Finish Spec	Finish
ASTM F1135 — Cadmium or Zinc Chromate Organic Corrosion Protective Coating for Fasteners (Cont'd)		
CC	ASTM F1135, Grade 5, Code B	Cadmium Plate
CD	ASTM F1135, Grade 6, Code A	Cadmium Plate
CE	ASTM F1135, Grade 6, Code B	Cadmium Plate
CF	ASTM F1135, Grade 7, Code A	Cadmium Plate
CG	ASTM F1135, Grade 7, Code B	Cadmium Plate
CH	ASTM F1135, Grade 8, Code A	Cadmium Plate
CJ	ASTM F1135, Grade 8, Code B	Cadmium Plate
ASTM F1136 — Chromium/Zinc Corrosion Protective Coatings for Fasteners		
CK	ASTM F1136, Grade 1	Chromium/Zinc Coating
CL	ASTM F1136, Grade 2	Chromium/Zinc Coating
CM	ASTM F1136, Grade 3	Chromium/Zinc Coating
1X	ASTM F1136, Grade 4	Zinc/Aluminum Coating
2X	ASTM F1136, Grade 5	Zinc/Aluminum Coating
2X	ASTM F1136, Grade 6	Zinc/Aluminum Coating
ASTM F1137 — Phosphate Oil/Oil and Phosphate/Organic Corrosive Protective Coatings for Fasteners		
CN	ASTM F1137, Grade I	Zinc Phosphate Coating
CP	ASTM F1137, Grade II	Zinc Phosphate Coating
CQ	ASTM F1137, Grade III	Zinc Phosphate Coating
CR	ASTM F1137, Grade A	Zinc Phosphate Coating
CS	ASTM F1137, Grade B	Zinc Phosphate Coating
CT	ASTM F1137, Grade C	Zinc Phosphate Coating
CU	ASTM F1137, Grade D	Zinc Phosphate Coating
ASTM F1428 — Aluminum Particle-Filled Basecoat/Organic or Inorganic Topcoat, Corrosion Protective Coatings for Fasteners		
CV	ASTM F1428, Grade 1A	Aluminum Coating
CW	ASTM F1428, Grade 1B	Aluminum Coating
ASTM F1428 — Aluminum Particle-Filled Basecoat/Organic or Inorganic Topcoat, Corrosion Protective Coatings for Fasteners		
CX	ASTM F1428, Grade 1C	Aluminum Coating
CY	ASTM F1428, Grade 2A	Aluminum Coating
CZ	ASTM F1428, Grade 2B	Aluminum Coating
D0	ASTM F1428, Grade 2C	Aluminum Coating
D1	ASTM F1428, Grade 3A	Aluminum Coating
D2	ASTM F1428, Grade 3B	Aluminum Coating
D3	ASTM F1428, Grade 4A	Aluminum Coating
D4	ASTM F1428, Grade 4B	Aluminum Coating
ASTM F1941 — Electrodeposited Coatings on Threaded Fasteners/Zinc Coating Fe/Zn		
D5	ASTM F1941, Zinc Coating Fe/Zn, Type 1A	Zinc Plate
D6	ASTM F1941, Zinc Coating Fe/Zn, Type 2A	Zinc Plate
D7	ASTM F1941, Zinc Coating Fe/Zn, Type 3A	Zinc Plate
D8	ASTM F1941, Zinc Coating Fe/Zn, Type 5A	Zinc Plate
1A	ASTM F1941, Zinc Coating Fe/Zn, Type 8A	Zinc Plate
2A	ASTM F1941, Zinc Coating Fe/Zn, Type 12A	Zinc Plate
D9	ASTM F1941, Zinc Coating Fe/Zn, Type 1B	Zinc Plate
DA	ASTM F1941, Zinc Coating Fe/Zn, Type 2B	Zinc Plate
DB	ASTM F1941, Zinc Coating Fe/Zn, Type 3B	Zinc Plate
DC	ASTM F1941, Zinc Coating Fe/Zn, Type 5B	Zinc Plate
3A	ASTM F1941, Zinc Coating Fe/Zn, Type 8B	Zinc Plate
4A	ASTM F1941, Zinc Coating Fe/Zn, Type 12B	Zinc Plate

Table 6-2
Plating, Coating, and Passivation: ASTM Finish Specifications (Cont'd)

PIN	Finish Spec	Finish
ASTM F1941 — Electrodeposited Coatings on Threaded Fasteners/Zinc Coating Fe/Zn (Cont'd)		
DD	ASTM F1941, Zinc Coating Fe/Zn, Type 1C	Zinc Plate
DE	ASTM F1941, Zinc Coating Fe/Zn, Type 2C	Zinc Plate
DF	ASTM F1941, Zinc Coating Fe/Zn, Type 3C	Zinc Plate
DG	ASTM F1941, Zinc Coating Fe/Zn, Type 5C	Zinc Plate
5A	ASTM F1941, Zinc Coating Fe/Zn, Type 8C	Zinc Plate
6A	ASTM F1941, Zinc Coating Fe/Zn, Type 12C	Zinc Plate
DH	ASTM F1941, Zinc Coating Fe/Zn, Type 1D	Zinc Plate
DJ	ASTM F1941, Zinc Coating Fe/Zn, Type 2D	Zinc Plate
DK	ASTM F1941, Zinc Coating Fe/Zn, Type 3D	Zinc Plate
DL	ASTM F1941, Zinc Coating Fe/Zn, Type 5D	Zinc Plate
7A	ASTM F1941, Zinc Coating Fe/Zn, Type 8D	Zinc Plate
8A	ASTM F1941, Zinc Coating Fe/Zn, Type 12D	Zinc Plate
DM	ASTM F1941, Zinc Coating Fe/Zn, Type 1E	Zinc Plate
DN	ASTM F1941, Zinc Coating Fe/Zn, Type 2E	Zinc Plate
DP	ASTM F1941, Zinc Coating Fe/Zn, Type 3E	Zinc Plate
DQ	ASTM F1941, Zinc Coating Fe/Zn, Type 5E	Zinc Plate
9A	ASTM F1941, Zinc Coating Fe/Zn, Type 8E	Zinc Plate
1B	ASTM F1941, Zinc Coating Fe/Zn, Type 12E	Zinc Plate
DR	ASTM F1941, Zinc Coating Fe/Zn, Type 1F	Zinc Plate
DS	ASTM F1941, Zinc Coating Fe/Zn, Type 2F	Zinc Plate
DT	ASTM F1941, Zinc Coating Fe/Zn, Type 3F	Zinc Plate
DU	ASTM F1941, Zinc Coating Fe/Zn, Type 5F	Zinc Plate
2B	ASTM F1941, Zinc Coating Fe/Zn, Type 8F	Zinc Plate
3B	ASTM F1941, Zinc Coating Fe/Zn, Type 12F	Zinc Plate
4B	ASTM F1941, Zinc Coating Fe/Zn, Trivalent Chromate, Type 3AT	Zinc Plate
5B	ASTM F1941, Zinc Coating Fe/Zn, Trivalent Chromate, Type 5AT	Zinc Plate
6B	ASTM F1941, Zinc Coating Fe/Zn, Trivalent Chromate, Type 8AT	Zinc Plate
7B	ASTM F1941, Zinc Coating Fe/Zn, Trivalent Chromate, Type 12AT	Zinc Plate
8B	ASTM F1941, Zinc Coating Fe/Zn, Trivalent Chromate, Type 3BT	Zinc Plate
9B	ASTM F1941, Zinc Coating Fe/Zn, Trivalent Chromate, Type 5BT	Zinc Plate
1C	ASTM F1941, Zinc Coating Fe/Zn, Trivalent Chromate, Type 8BT	Zinc Plate
2C	ASTM F1941, Zinc Coating Fe/Zn, Trivalent Chromate, Type 12BT	Zinc Plate
3C	ASTM F1941, Zinc Coating Fe/Zn, Trivalent Chromate, Type 3CT	Zinc Plate
4C	ASTM F1941, Zinc Coating Fe/Zn, Trivalent Chromate, Type 5CT	Zinc Plate
5C	ASTM F1941, Zinc Coating Fe/Zn, Trivalent Chromate, Type 8CT	Zinc Plate
6C	ASTM F1941, Zinc Coating Fe/Zn, Trivalent Chromate, Type 12CT	Zinc Plate
7C	ASTM F1941, Zinc Coating Fe/Zn, Trivalent Chromate, Type 3DT	Zinc Plate
8C	ASTM F1941, Zinc Coating Fe/Zn, Trivalent Chromate, Type 5DT	Zinc Plate
9C	ASTM F1941, Zinc Coating Fe/Zn, Trivalent Chromate, Type 8DT	Zinc Plate
1D	ASTM F1941, Zinc Coating Fe/Zn, Trivalent Chromate, Type 12DT	Zinc Plate
2D	ASTM F1941, Zinc Coating Fe/Zn, Trivalent Chromate, Type 3ET	Zinc Plate
3D	ASTM F1941, Zinc Coating Fe/Zn, Trivalent Chromate, Type 5ET	Zinc Plate
4D	ASTM F1941, Zinc Coating Fe/Zn, Trivalent Chromate, Type 8ET	Zinc Plate
5D	ASTM F1941, Zinc Coating Fe/Zn, Trivalent Chromate, Type 12ET	Zinc Plate
6D	ASTM F1941, Zinc Coating Fe/Zn, Trivalent Chromate, Type 3FT	Zinc Plate
7D	ASTM F1941, Zinc Coating Fe/Zn, Trivalent Chromate, Type 5FT	Zinc Plate
8D	ASTM F1941, Zinc Coating Fe/Zn, Trivalent Chromate, Type 8FT	Zinc Plate
9D	ASTM F1941, Zinc Coating Fe/Zn, Trivalent Chromate, Type 12FT	Zinc Plate

Table 6-2
Plating, Coating, and Passivation: ASTM Finish Specifications (Cont'd)

PIN	Finish Spec	Finish
ASTM F1941 — Electrodeposited Coatings on Threaded Fasteners/Cadmium Coating Fe/Cd		
DV	ASTM F1941, Cadmium Coating Fe/Cd, Type 1A	Cadmium Plate
DW	ASTM F1941, Cadmium Coating Fe/Cd, Type 2A	Cadmium Plate
DX	ASTM F1941, Cadmium Coating Fe/Cd, Type 3A	Cadmium Plate
DY	ASTM F1941, Cadmium Coating Fe/Cd, Type 5A	Cadmium Plate
1E	ASTM F1941, Cadmium Coating Fe/Cd, Type 8A	Cadmium Plate
2E	ASTM F1941, Cadmium Coating Fe/Cd, Type 12A	Cadmium Plate
DZ	ASTM F1941, Cadmium Coating Fe/Cd, Type 1B	Cadmium Plate
E0	ASTM F1941, Cadmium Coating Fe/Cd, Type 2B	Cadmium Plate
E1	ASTM F1941, Cadmium Coating Fe/Cd, Type 3B	Cadmium Plate
E2	ASTM F1941, Cadmium Coating Fe/Cd, Type 5B	Cadmium Plate
3E	ASTM F1941, Cadmium Coating Fe/Cd, Type 8B	Cadmium Plate
4E	ASTM F1941, Cadmium Coating Fe/Cd, Type 12B	Cadmium Plate
E3	ASTM F1941, Cadmium Coating Fe/Cd, Type 1C	Cadmium Plate
E4	ASTM F1941, Cadmium Coating Fe/Cd, Type 2C	Cadmium Plate
E5	ASTM F1941, Cadmium Coating Fe/Cd, Type 3C	Cadmium Plate
E6	ASTM F1941, Cadmium Coating Fe/Cd, Type 5C	Cadmium Plate
5E	ASTM F1941, Cadmium Coating Fe/Cd, Type 8C	Cadmium Plate
6E	ASTM F1941, Cadmium Coating Fe/Cd, Type 12C	Cadmium Plate
E7	ASTM F1941, Cadmium Coating Fe/Cd, Type 1D	Cadmium Plate
E8	ASTM F1941, Cadmium Coating Fe/Cd, Type 2D	Cadmium Plate
E9	ASTM F1941, Cadmium Coating Fe/Cd, Type 3D	Cadmium Plate
EA	ASTM F1941, Cadmium Coating Fe/Cd, Type 5D	Cadmium Plate
7E	ASTM F1941, Cadmium Coating Fe/Cd, Type 8D	Cadmium Plate
8E	ASTM F1941, Cadmium Coating Fe/Cd, Type 12D	Cadmium Plate
EB	ASTM F1941, Cadmium Coating Fe/Cd, Type 1E	Cadmium Plate
EC	ASTM F1941, Cadmium Coating Fe/Cd, Type 2E	Cadmium Plate
ED	ASTM F1941, Cadmium Coating Fe/Cd, Type 3E	Cadmium Plate
EE	ASTM F1941, Cadmium Coating Fe/Cd, Type 5E	Cadmium Plate
9E	ASTM F1941, Cadmium Coating Fe/Cd, Type 8E	Cadmium Plate
1F	ASTM F1941, Cadmium Coating Fe/Cd, Type 12E	Cadmium Plate
EF	ASTM F1941, Cadmium Coating Fe/Cd, Type 1F	Cadmium Plate
EG	ASTM F1941, Cadmium Coating Fe/Cd, Type 2F	Cadmium Plate
EH	ASTM F1941, Cadmium Coating Fe/Cd, Type 3F	Cadmium Plate
EJ	ASTM F1941, Cadmium Coating Fe/Cd, Type 5F	Cadmium Plate
2F	ASTM F1941, Cadmium Coating Fe/Cd, Type 8F	Cadmium Plate
3F	ASTM F1941, Cadmium Coating Fe/Cd, Type 12F	Cadmium Plate
4F	ASTM F1941, Cadmium Coating Fe/Cd, Trivalent Chromate, Type 3AT	Cadmium Plate
5F	ASTM F1941, Cadmium Coating Fe/Cd, Trivalent Chromate, Type 5AT	Cadmium Plate
6F	ASTM F1941, Cadmium Coating Fe/Cd, Trivalent Chromate, Type 8AT	Cadmium Plate
7F	ASTM F1941, Cadmium Coating Fe/Cd, Trivalent Chromate, Type 12AT	Cadmium Plate
8F	ASTM F1941, Cadmium Coating Fe/Cd, Trivalent Chromate, Type 3BT	Cadmium Plate
9F	ASTM F1941, Cadmium Coating Fe/Cd, Trivalent Chromate, Type 5BT	Cadmium Plate
1G	ASTM F1941, Cadmium Coating Fe/Cd, Trivalent Chromate, Type 8BT	Cadmium Plate
2G	ASTM F1941, Cadmium Coating Fe/Cd, Trivalent Chromate, Type 12BT	Cadmium Plate
3G	ASTM F1941, Cadmium Coating Fe/Cd, Trivalent Chromate, Type 3CT	Cadmium Plate
4G	ASTM F1941, Cadmium Coating Fe/Cd, Trivalent Chromate, Type 5CT	Cadmium Plate
5G	ASTM F1941, Cadmium Coating Fe/Cd, Trivalent Chromate, Type 8CT	Cadmium Plate
6G	ASTM F1941, Cadmium Coating Fe/Cd, Trivalent Chromate, Type 12CT	Cadmium Plate

Table 6-2
Plating, Coating, and Passivation: ASTM Finish Specifications (Cont'd)

PIN	Finish Spec	Finish
ASTM F1941 — Electrodeposited Coatings on Threaded Fasteners/Cadmium Coating Fe/Cd (Cont'd)		
7G	ASTM F1941, Cadmium Coating Fe/Cd, Trivalent Chromate, Type 3DT	Cadmium Plate
8G	ASTM F1941, Cadmium Coating Fe/Cd, Trivalent Chromate, Type 5DT	Cadmium Plate
9G	ASTM F1941, Cadmium Coating Fe/Cd, Trivalent Chromate, Type 8DT	Cadmium Plate
1H	ASTM F1941, Cadmium Coating Fe/Cd, Trivalent Chromate, Type 12DT	Cadmium Plate
2H	ASTM F1941, Cadmium Coating Fe/Cd, Trivalent Chromate, Type 3ET	Cadmium Plate
3H	ASTM F1941, Cadmium Coating Fe/Cd, Trivalent Chromate, Type 5ET	Cadmium Plate
4H	ASTM F1941, Cadmium Coating Fe/Cd, Trivalent Chromate, Type 8ET	Cadmium Plate
5H	ASTM F1941, Cadmium Coating Fe/Cd, Trivalent Chromate, Type 12ET	Cadmium Plate
6H	ASTM F1941, Cadmium Coating Fe/Cd, Trivalent Chromate, Type 3FT	Cadmium Plate
7H	ASTM F1941, Cadmium Coating Fe/Cd, Trivalent Chromate, Type 5FT	Cadmium Plate
8H	ASTM F1941, Cadmium Coating Fe/Cd, Trivalent Chromate, Type 8FT	Cadmium Plate
9H	ASTM F1941, Cadmium Coating Fe/Cd, Trivalent Chromate, Type 12FT	Cadmium Plate
ASTM F1941 — Electrodeposited Coatings on Threaded Fasteners/Zinc Cobalt Alloy Fe/Zn-Co		
EK	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 1A	Zinc Plate
EL	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 2A	Zinc Plate
EM	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 3A	Zinc Plate
EN	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 5A	Zinc Plate
1J	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 8A	Zinc Plate
2J	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 12A	Zinc Plate
EP	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 1B	Zinc Plate
EQ	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 2B	Zinc Plate
ER	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 3B	Zinc Plate
ES	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 5B	Zinc Plate
3J	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 8B	Zinc Plate
4J	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 12B	Zinc Plate
ET	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 1C	Zinc Plate
EU	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 2C	Zinc Plate
EV	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 3C	Zinc Plate
EW	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 5C	Zinc Plate
5J	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 8C	Zinc Plate
6J	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 12C	Zinc Plate
EX	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 1D	Zinc Plate
EY	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 2D	Zinc Plate
EZ	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 3D	Zinc Plate
F0	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 5D	Zinc Plate
7J	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 8D	Zinc Plate
8J	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 12D	Zinc Plate
F1	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 1E	Zinc Plate
F2	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 2E	Zinc Plate
F3	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 3E	Zinc Plate
F4	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 5E	Zinc Plate
9J	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 8E	Zinc Plate
1K	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 12E	Zinc Plate
F5	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 1F	Zinc Plate
F6	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 2F	Zinc Plate
F7	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 3F	Zinc Plate
F8	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 5F	Zinc Plate
2K	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 8F	Zinc Plate

Table 6-2
Plating, Coating, and Passivation: ASTM Finish Specifications (Cont'd)

PIN	Finish Spec	Finish
ASTM F1941 — Electrodeposited Coatings on Threaded Fasteners/Zinc Cobalt Alloy Fe/Zn-Co (Cont'd)		
3K	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Type 12F	Zinc Plate
4K	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Trivalent Chromate, Type 3AT	Zinc Plate
5K	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Trivalent Chromate, Type 5AT	Zinc Plate
6K	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Trivalent Chromate, Type 8AT	Zinc Plate
7K	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Trivalent Chromate, Type 12AT	Zinc Plate
8K	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Trivalent Chromate, Type 3BT	Zinc Plate
9K	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Trivalent Chromate, Type 5BT	Zinc Plate
1L	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Trivalent Chromate, Type 8BT	Zinc Plate
2L	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Trivalent Chromate, Type 12BT	Zinc Plate
3L	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Trivalent Chromate, Type 3CT	Zinc Plate
4L	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Trivalent Chromate, Type 5CT	Zinc Plate
5L	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Trivalent Chromate, Type 8CT	Zinc Plate
6L	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Trivalent Chromate, Type 12CT	Zinc Plate
7L	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Trivalent Chromate, Type 3DT	Zinc Plate
8L	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Trivalent Chromate, Type 5DT	Zinc Plate
9L	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Trivalent Chromate, Type 8DT	Zinc Plate
1M	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Trivalent Chromate, Type 12DT	Zinc Plate
2M	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Trivalent Chromate, Type 3ET	Zinc Plate
3M	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Trivalent Chromate, Type 5ET	Zinc Plate
4M	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Trivalent Chromate, Type 8ET	Zinc Plate
5M	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Trivalent Chromate, Type 12ET	Zinc Plate
6M	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Trivalent Chromate, Type 3FT	Zinc Plate
7M	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Trivalent Chromate, Type 5FT	Zinc Plate
8M	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Trivalent Chromate, Type 8FT	Zinc Plate
9M	ASTM F1941, Zinc Cobalt Alloy Fe/Zn-Co, Trivalent Chromate, Type 12FT	Zinc Plate
ASTM F1941 — Electrodeposited Coatings on Threaded Fasteners/Zinc Nickel Alloy Fe/Zn-Ni		
FA	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 1A	Zinc Plate
FA	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 2A	Zinc Plate
FB	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 3A	Zinc Plate
FC	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 5A	Zinc Plate
1N	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 8A	Zinc Plate
2N	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 12A	Zinc Plate
FD	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 1B	Zinc Plate
FE	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 2B	Zinc Plate
FF	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 3B	Zinc Plate
FG	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 5B	Zinc Plate
3N	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 8B	Zinc Plate
4N	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 12B	Zinc Plate
FH	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 1C	Zinc Plate
FI	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 2C	Zinc Plate
FK	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 3C	Zinc Plate
FL	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 5C	Zinc Plate
5N	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 8C	Zinc Plate
6N	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 12C	Zinc Plate
FM	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 1D	Zinc Plate
FN	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 2D	Zinc Plate
FP	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 3D	Zinc Plate
FQ	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 5D	Zinc Plate

Table 6-2
Plating, Coating, and Passivation: ASTM Finish Specifications (Cont'd)

PIN	Finish Spec	Finish
ASTM F1941 — Electrodeposited Coatings on Threaded Fasteners/Zinc Nickel Alloy Fe/Zn-Ni (Cont'd)		
7N	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 8D	Zinc Plate
8N	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 12D	Zinc Plate
FR	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 1E	Zinc Plate
FS	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 2E	Zinc Plate
FT	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 3E	Zinc Plate
FU	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 5E	Zinc Plate
9N	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 8E	Zinc Plate
1P	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 12E	Zinc Plate
FV	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 1F	Zinc Plate
FW	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 2F	Zinc Plate
FX	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 3F	Zinc Plate
FY	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 5F	Zinc Plate
2P	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 8F	Zinc Plate
3P	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Type 12F	Zinc Plate
4P	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Trivalent Chromate, Type 3AT	Zinc Plate
5P	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Trivalent Chromate, Type 5AT	Zinc Plate
6P	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Trivalent Chromate, Type 8AT	Zinc Plate
7P	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Trivalent Chromate, Type 12AT	Zinc Plate
8P	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Trivalent Chromate, Type 3BT	Zinc Plate
9P	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Trivalent Chromate, Type 5BT	Zinc Plate
1Q	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Trivalent Chromate, Type 8BT	Zinc Plate
2Q	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Trivalent Chromate, Type 12BT	Zinc Plate
3Q	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Trivalent Chromate, Type 3CT	Zinc Plate
4Q	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Trivalent Chromate, Type 5CT	Zinc Plate
5Q	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Trivalent Chromate, Type 8CT	Zinc Plate
6Q	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Trivalent Chromate, Type 12CT	Zinc Plate
7Q	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Trivalent Chromate, Type 3DT	Zinc Plate
8Q	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Trivalent Chromate, Type 5DT	Zinc Plate
9Q	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Trivalent Chromate, Type 8DT	Zinc Plate
1R	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Trivalent Chromate, Type 12DT	Zinc Plate
2R	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Trivalent Chromate, Type 3ET	Zinc Plate
3R	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Trivalent Chromate, Type 5ET	Zinc Plate
4R	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Trivalent Chromate, Type 8ET	Zinc Plate
5R	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Trivalent Chromate, Type 12ET	Zinc Plate
6R	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Trivalent Chromate, Type 3FT	Zinc Plate
7R	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Trivalent Chromate, Type 5FT	Zinc Plate
8R	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Trivalent Chromate, Type 8FT	Zinc Plate
9R	ASTM F1941, Zinc Nickel Alloy Fe/Zn-Ni, Trivalent Chromate, Type 12FT	Zinc Plate
ASTM F1941 — Electrodeposited Coatings on Threaded Fasteners/Zinc Iron Alloy Fe/Zn-Fe		
FZ	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 1A	Zinc Plate
G0	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 2A	Zinc Plate
G1	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 3A	Zinc Plate
G2	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 5A	Zinc Plate
1S	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 8A	Zinc Plate
2S	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 12A	Zinc Plate
G3	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 1B	Zinc Plate
G4	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 2B	Zinc Plate
G5	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 3B	Zinc Plate

Table 6-2
Plating, Coating, and Passivation: ASTM Finish Specifications (Cont'd)

PIN	Finish Spec	Finish
ASTM F1941 — Electrodeposited Coatings on Threaded Fasteners/Zinc Iron Alloy Fe/Zn-Fe (Cont'd)		
G6	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 5B	Zinc Plate
3S	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 8B	Zinc Plate
4S	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 12B	Zinc Plate
G7	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 1C	Zinc Plate
G8	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 2C	Zinc Plate
G9	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 3C	Zinc Plate
GA	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 5C	Zinc Plate
5S	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 8C	Zinc Plate
6S	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 12C	Zinc Plate
GB	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 1D	Zinc Plate
GC	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 2D	Zinc Plate
GD	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 3D	Zinc Plate
GE	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 5D	Zinc Plate
7S	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 8D	Zinc Plate
8S	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 12D	Zinc Plate
GF	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 1E	Zinc Plate
GG	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 2E	Zinc Plate
GH	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 3E	Zinc Plate
GJ	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 5E	Zinc Plate
9S	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 8E	Zinc Plate
1T	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 12E	Zinc Plate
GK	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 1F	Zinc Plate
GL	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 2F	Zinc Plate
GM	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 3F	Zinc Plate
GN	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 5F	Zinc Plate
2T	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 8F	Zinc Plate
3T	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Type 12F	Zinc Plate
4T	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Trivalent Chromate, Type 3AT	Zinc Plate
5T	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Trivalent Chromate, Type 5AT	Zinc Plate
6T	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Trivalent Chromate, Type 8AT	Zinc Plate
7T	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Trivalent Chromate, Type 12AT	Zinc Plate
8T	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Trivalent Chromate, Type 3BT	Zinc Plate
9T	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Trivalent Chromate, Type 5BT	Zinc Plate
1U	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Trivalent Chromate, Type 8BT	Zinc Plate
2U	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Trivalent Chromate, Type 12BT	Zinc Plate
3U	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Trivalent Chromate, Type 3CT	Zinc Plate
4U	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Trivalent Chromate, Type 5CT	Zinc Plate
5U	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Trivalent Chromate, Type 8CT	Zinc Plate
6U	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Trivalent Chromate, Type 12CT	Zinc Plate
7U	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Trivalent Chromate, Type 3DT	Zinc Plate
8U	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Trivalent Chromate, Type 5DT	Zinc Plate
9U	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Trivalent Chromate, Type 8DT	Zinc Plate
1W	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Trivalent Chromate, Type 12DT	Zinc Plate
2W	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Trivalent Chromate, Type 3ET	Zinc Plate
3W	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Trivalent Chromate, Type 5ET	Zinc Plate
4W	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Trivalent Chromate, Type 8ET	Zinc Plate
5W	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Trivalent Chromate, Type 12ET	Zinc Plate
6W	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Trivalent Chromate, Type 3FT	Zinc Plate

Table 6-2
Plating, Coating, and Passivation: ASTM Finish Specifications (Cont'd)

PIN	Finish Spec	Finish
ASTM F1941 — Electrodeposited Coatings on Threaded Fasteners/Zinc Iron Alloy Fe/Zn-Fe (Cont'd)		
7W	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Trivalent Chromate, Type 5FT	Zinc Plate
8W	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Trivalent Chromate, Type 8FT	Zinc Plate
9W	ASTM F1941, Zinc Iron Alloy Fe/Zn-Fe, Trivalent Chromate, Type 12FT	Zinc Plate
ASTM F1941M — Electrodeposited Coatings on Threaded Fasteners/Zinc Coating, Fe/Zn (Metric)		
GP	ASTM F1941M, Zinc Coating Fe/Zn, Type 3A	Zinc Plate
GQ	ASTM F1941M, Zinc Coating Fe/Zn, Type 3B	Zinc Plate
GR	ASTM F1941M, Zinc Coating Fe/Zn, Type 3C	Zinc Plate
GS	ASTM F1941M, Zinc Coating Fe/Zn, Type 3D	Zinc Plate
GT	ASTM F1941M, Zinc Coating Fe/Zn, Type 3E	Zinc Plate
GU	ASTM F1941M, Zinc Coating Fe/Zn, Type 3F	Zinc Plate
GV	ASTM F1941M, Zinc Coating Fe/Zn, Type 5A	Zinc Plate
GW	ASTM F1941M, Zinc Coating Fe/Zn, Type 5B	Zinc Plate
GX	ASTM F1941M, Zinc Coating Fe/Zn, Type 5C	Zinc Plate
GY	ASTM F1941M, Zinc Coating Fe/Zn, Type 5D	Zinc Plate
GZ	ASTM F1941M, Zinc Coating Fe/Zn, Type 5E	Zinc Plate
H0	ASTM F1941M, Zinc Coating Fe/Zn, Type 5F	Zinc Plate
H1	ASTM F1941M, Zinc Coating Fe/Zn, Type 8A	Zinc Plate
H2	ASTM F1941M, Zinc Coating Fe/Zn, Type 8B	Zinc Plate
H3	ASTM F1941M, Zinc Coating Fe/Zn, Type 8C	Zinc Plate
H4	ASTM F1941M, Zinc Coating Fe/Zn, Type 8D	Zinc Plate
H5	ASTM F1941M, Zinc Coating Fe/Zn, Type 8E	Zinc Plate
H6	ASTM F1941M, Zinc Coating Fe/Zn, Type 8F	Zinc Plate
H7	ASTM F1941M, Zinc Coating Fe/Zn, Type 12A	Zinc Plate
H8	ASTM F1941M, Zinc Coating Fe/Zn, Type 12B	Zinc Plate
H9	ASTM F1941M, Zinc Coating Fe/Zn, Type 12C	Zinc Plate
HA	ASTM F1941M, Zinc Coating Fe/Zn, Type 12D	Zinc Plate
HB	ASTM F1941M, Zinc Coating Fe/Zn, Type 12E	Zinc Plate
HC	ASTM F1941M, Zinc Coating Fe/Zn, Type 12F	Zinc Plate
ASTM F1941M — Electrodeposited Coatings on Threaded Fasteners/Cadmium Coating, Fe/Cd (Metric)		
HD	ASTM F1941M, Cadmium Coating Fe/Cd, Type 3A	Cadmium Plate
HE	ASTM F1941M, Cadmium Coating Fe/Cd, Type 3B	Cadmium Plate
HF	ASTM F1941M, Cadmium Coating Fe/Cd, Type 3C	Cadmium Plate
HG	ASTM F1941M, Cadmium Coating Fe/Cd, Type 3D	Cadmium Plate
HH	ASTM F1941M, Cadmium Coating Fe/Cd, Type 3E	Cadmium Plate
HJ	ASTM F1941M, Cadmium Coating Fe/Cd, Type 3F	Cadmium Plate
HK	ASTM F1941M, Cadmium Coating Fe/Cd, Type 5A	Cadmium Plate
HL	ASTM F1941M, Cadmium Coating Fe/Cd, Type 5B	Cadmium Plate
HM	ASTM F1941M, Cadmium Coating Fe/Cd, Type 5C	Cadmium Plate
HN	ASTM F1941M, Cadmium Coating Fe/Cd, Type 5D	Cadmium Plate
HP	ASTM F1941M, Cadmium Coating Fe/Cd, Type 5E	Cadmium Plate
HQ	ASTM F1941M, Cadmium Coating Fe/Cd, Type 5F	Cadmium Plate
HR	ASTM F1941M, Cadmium Coating Fe/Cd, Type 8A	Cadmium Plate
HS	ASTM F1941M, Cadmium Coating Fe/Cd, Type 8B	Cadmium Plate
HT	ASTM F1941M, Cadmium Coating Fe/Cd, Type 8C	Cadmium Plate
HU	ASTM F1941M, Cadmium Coating Fe/Cd, Type 8D	Cadmium Plate
HV	ASTM F1941M, Cadmium Coating Fe/Cd, Type 8E	Cadmium Plate
HW	ASTM F1941M, Cadmium Coating Fe/Cd, Type 8F	Cadmium Plate
HX	ASTM F1941M, Cadmium Coating Fe/Cd, Type 12A	Cadmium Plate

Table 6-2
Plating, Coating, and Passivation: ASTM Finish Specifications (Cont'd)

PIN	Finish Spec	Finish
ASTM F1941M — Electrodeposited Coatings on Threaded Fasteners/Cadmium Coating, Fe/Cd (Metric) (Cont'd)		
HY	ASTM F1941M, Cadmium Coating Fe/Cd, Type 12B	Cadmium Plate
HZ	ASTM F1941M, Cadmium Coating Fe/Cd, Type 12C	Cadmium Plate
J0	ASTM F1941M, Cadmium Coating Fe/Cd, Type 12D	Cadmium Plate
J1	ASTM F1941M, Cadmium Coating Fe/Cd, Type 12E	Cadmium Plate
J2	ASTM F1941M, Cadmium Coating Fe/Cd, Type 12F	Cadmium Plate
ASTM F1941M — Electrodeposited Coatings on Threaded Fasteners/Zinc Cobalt Alloy, Fe/Zn-Co (Metric)		
J3	ASTM F1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 3A	Zinc Plate
J4	ASTM F1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 3B	Zinc Plate
J5	ASTM F1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 3C	Zinc Plate
J6	ASTM F1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 3D	Zinc Plate
J7	ASTM F1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 3E	Zinc Plate
J8	ASTM F1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 3F	Zinc Plate
J9	ASTM F1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 5A	Zinc Plate
JA	ASTM F1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 5B	Zinc Plate
JB	ASTM F1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 5C	Zinc Plate
JC	ASTM F1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 5D	Zinc Plate
JD	ASTM F1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 5E	Zinc Plate
JE	ASTM F1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 5F	Zinc Plate
JF	ASTM F1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 8A	Zinc Plate
JG	ASTM F1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 8B	Zinc Plate
JH	ASTM F1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 8C	Zinc Plate
JJ	ASTM F1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 8D	Zinc Plate
JK	ASTM F1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 8E	Zinc Plate
JL	ASTM F1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 8F	Zinc Plate
JM	ASTM F1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 12A	Zinc Plate
JN	ASTM F1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 12B	Zinc Plate
JP	ASTM F1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 12C	Zinc Plate
JQ	ASTM F1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 12D	Zinc Plate
JR	ASTM F1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 12E	Zinc Plate
JS	ASTM F1941M, Zinc Cobalt Alloy Fe/Zn-Co, Type 12F	Zinc Plate
ASTM F1941M — Electrodeposited Coatings on Threaded Fasteners/Zinc Nickel Alloy, Fe/Zn-Ni (Metric)		
JT	ASTM F1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 3A	Zinc Plate
JU	ASTM F1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 3B	Zinc Plate
JV	ASTM F1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 3C	Zinc Plate
JW	ASTM F1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 3D	Zinc Plate
JX	ASTM F1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 3E	Zinc Plate
JY	ASTM F1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 3F	Zinc Plate
JZ	ASTM F1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 5A	Zinc Plate
K0	ASTM F1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 5B	Zinc Plate
K1	ASTM F1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 5C	Zinc Plate
K2	ASTM F1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 5D	Zinc Plate
K3	ASTM F1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 5E	Zinc Plate
K4	ASTM F1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 5F	Zinc Plate
K5	ASTM F1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 8A	Zinc Plate
K6	ASTM F1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 8B	Zinc Plate
K7	ASTM F1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 8C	Zinc Plate
K8	ASTM F1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 8D	Zinc Plate
K9	ASTM F1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 8E	Zinc Plate

Table 6-2
Plating, Coating, and Passivation: ASTM Finish Specifications (Cont'd)

PIN	Finish Spec	Finish
ASTM F1941M — Electrodeposited Coatings on Threaded Fasteners/Zinc Nickel Alloy, Fe/Zn-Ni (Metric) (Cont'd)		
KA	ASTM F1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 8F	Zinc Plate
KB	ASTM F1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 12A	Zinc Plate
KC	ASTM F1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 12B	Zinc Plate
KD	ASTM F1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 12C	Zinc Plate
KE	ASTM F1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 12D	Zinc Plate
KF	ASTM F1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 12E	Zinc Plate
KG	ASTM F1941M, Zinc Nickel Alloy Fe/Zn-Ni, Type 12F	Zinc Plate
ASTM F1941M — Electrodeposited Coatings on Threaded Fasteners/Zinc Iron Alloy, Fe/Zn-Fe (Metric)		
KH	ASTM F1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 3A	Zinc Plate
KJ	ASTM F1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 3B	Zinc Plate
KK	ASTM F1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 3C	Zinc Plate
KL	ASTM F1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 3D	Zinc Plate
KM	ASTM F1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 3E	Zinc Plate
KN	ASTM F1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 3F	Zinc Plate
KP	ASTM F1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 5A	Zinc Plate
KQ	ASTM F1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 5B	Zinc Plate
KR	ASTM F1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 5C	Zinc Plate
KS	ASTM F1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 5D	Zinc Plate
KT	ASTM F1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 5E	Zinc Plate
KU	ASTM F1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 5F	Zinc Plate
KV	ASTM F1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 8A	Zinc Plate
KW	ASTM F1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 8B	Zinc Plate
KX	ASTM F1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 8C	Zinc Plate
KY	ASTM F1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 8D	Zinc Plate
KZ	ASTM F1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 8E	Zinc Plate
L0	ASTM F1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 8F	Zinc Plate
L1	ASTM F1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 12A	Zinc Plate
L2	ASTM F1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 12B	Zinc Plate
L3	ASTM F1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 12C	Zinc Plate
L4	ASTM F1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 12D	Zinc Plate
L5	ASTM F1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 12E	Zinc Plate
L6	ASTM F1941M, Zinc Iron Alloy Fe/Zn-Fe, Type 12F	Zinc Plate
ASTM F2329 — Zinc Coating, Hot-Dip, Requirements for Application to Carbon and Alloy Steel Bolts, Screws, Washers, Nuts, and Special Threaded Fasteners		
M2	ASTM F2329	Hot-Dip Zinc Coating
ASTM F2833 — Corrosion Protective Fastener Coatings with Zinc Rich Base Coat and Aluminum Organic/Inorganic Type		
M3	ASTM F2833, Grade 1	Zinc/Aluminum Coating
M4	ASTM F2833, Grade 2	Zinc/Aluminum Coating
M5	ASTM F2833, Grade 3	Zinc/Aluminum Coating
M6	ASTM F2833, Grade 4	Zinc/Aluminum Coating

Table 6-3
Plating, Coating, and Passivation: Government Finish Specifications

PIN	Finish Spec	Finish
MIL-DTL-13924D — Coating, Oxide, Black for Ferrous Metals		
L7	MIL-DTL-13924D, Class 1	Black Oxide Coating
L8	MIL-DTL-13924D, Class 3	Black Oxide Coating
L9	MIL-DTL-13924D, Class 4	Black Oxide Coating
MIL-DTL-16232G — Phosphate Coatings, Heavy Manganese or Zinc Base (for Ferrous Metals)		
LA	MIL-DTL-16232, Type M, Class 1	Phosphate Coating
LB	MIL-DTL-16232, Type M, Class 2	Phosphate Coating
LC	MIL-DTL-16232, Type M, Class 3	Phosphate Coating
LD	MIL-DTL-16232, Type M, Class 4	Phosphate Coating
LE	MIL-DTL-16232, Type Z, Class 1	Phosphate Coating
LF	MIL-DTL-16232, Type Z, Class 2	Phosphate Coating
LG	MIL-DTL-16232, Type Z, Class 3	Phosphate Coating
LH	MIL-DTL-16232, Type Z, Class 4	Phosphate Coating
MIL-F-495E — Finish, Chemical, Black, for Copper Alloys		
LJ	MIL-F-495E	Black Oxide Coating
MIL-PRF-32647 — Zinc-Nickel Electroplating for Fasteners		
QW	MIL-PRF-32647, Zn-Ni Alloy, Hexavalent Chromium Free, Type K20	Zinc-Nickel Alloy Plate
QX	MIL-PRF-32647, Zn-Ni Alloy, Hexavalent Chromium Free, Type K16	Zinc-Nickel Alloy Plate

Table 6-4
Plating, Coating, and Passivation: SAE Finish Specifications

PIN	Finish Spec	Finish
SAE AMS-QQ-N-290 — Nickel Plating (Electrodeposited)		
LK	SAE-AMS-QQ-N-290, Class 1, Grade E	Nickel Coating
LL	SAE-AMS-QQ-N-290, Class 1, Grade F	Nickel Coating
LM	SAE-AMS-QQ-N-290, Class 1, Grade G	Nickel Coating
SAE AMS-QQ-P-35 — Passivation Treatments for Corrosion Resistant Steel		
LN	SAE-AMS-QQ-P-35, Type II	Passivate
LP	SAE-AMS-QQ-P-35, Type VI	Passivate
LQ	SAE-AMS-QQ-P-35, Type VII	Passivate
LR	SAE-AMS-QQ-P-35, Type VIII	Passivate
SAE AMS-QQ-P-416 — Plating, Cadmium (Electrodeposited)		
LS	SAE-AMS-QQ-P-416, Type I, Class 1	Cadmium Plate
LT	SAE-AMS-QQ-P-416, Type I, Class 2	Cadmium Plate
LU	SAE-AMS-QQ-P-416, Type I, Class 3	Cadmium Plate
LV	SAE-AMS-QQ-P-416, Type II, Class 1	Cadmium Plate
LW	SAE-AMS-QQ-P-416, Type II, Class 2	Cadmium Plate
LX	SAE-AMS-QQ-P-416, Type II, Class 3	Cadmium Plate
LY	SAE-AMS-QQ-P-416, Type III, Class 1	Cadmium Plate
LZ	SAE-AMS-QQ-P-416, Type III, Class 2	Cadmium Plate
SAE AS5272 — Lubricant, Solid Film, Heat Cured Corrosion Inhibiting		
M0	SAE AS5272, Type I	Solid Film Lubricant
M1	SAE AS5272, Type II	Solid Film Lubricant

Table 6-5
Plating, Coating, and Passivation: ISO Finish Specifications

PIN	Finish Spec	Finish
ISO 10683 — Non Electrolytically Applied Zinc Flake Coatings		
QA	ISO 10683, flZn-240h	Zinc Coating
QB	ISO 10683, flZnL-240h	Zinc Coating
QC	ISO 10683, flZn-240h-L	Zinc Coating
QD	ISO 10683, flZnnc-240h	Zinc Coating
QE	ISO 10683, flZnyc-240h	Zinc Coating
QF	ISO 10683, flZn-480h	Zinc Coating
QG	ISO 10683, flZnL-480h	Zinc Coating
QH	ISO 10683, flZn-480h-L	Zinc Coating
QJ	ISO 10683, flZnnc-480h	Zinc Coating
QK	ISO 10683, flZnyc-480h	Zinc Coating
QL	ISO 10683, flZn-720h	Zinc Coating
QM	ISO 10683, flZnL-720h	Zinc Coating
QN	ISO 10683, flZn-720h-L	Zinc Coating
QP	ISO 10683, flZnnc-720h	Zinc Coating
QQ	ISO 10683, flZnyc-720h	Zinc Coating
QR	ISO 10683, flZn-960h	Zinc Coating
QS	ISO 10683, flZnL-960h	Zinc Coating
QT	ISO 10683, flZn-960h-L	Zinc Coating
QU	ISO 10683, flZnnc-960h	Zinc Coating
QV	ISO 10683, flZnyc-960h	Zinc Coating

Table 7-1
Plain: No Additional Features

PIN	Description
1	No Additional Features

Table 7-2
Miscellaneous Features for Externally Threaded Fasteners

PIN	Description
1	Plain End — No Additional Features
2	Pointed — No Additional Features
6	Plain End — Optional-Type Self-Locking
7	Plain End — Drilled Head
B	Plain End — Optional-Type Self-Locking Element, Drilled Head
C	Plain End — Drilled Shank
G	Pointed — Optional-Type Self-Locking Element
H	Pointed — Drilled Head
M	Pointed — Optional-Type Self-Locking Element, Drilled Head
N	Pointed — Drilled Shank
P	As specified by the purchaser

Table 7-3
General Point Options

PIN	Description
1	Plain End
2	Header Point

Table 7-4
Features for Metric Flange Screws

PIN	Description
2	Header Point, Type F Fillet
4	Header Point, Type U Fillet

Table 7-5
Features for Metric 12-Spline Screws

PIN	Description
2	Header Point, Type A Fillet
4	Header Point, Type B Fillet

Table 7-6
Neck Options for Large Rivets

PIN	Description
1	Straight Shank to Head
2	Swell Neck

Table 7-7
Cotter PIN Type

PIN	Description
1	Extended Prong Type
2	Hammer Lock Type

Table 7-8
PIN Type

PIN	Description
1	Chamfered Straight
2	Square End Straight

Table 7-9
SEMs Washer Components

PIN	Description
1	Helical Spring Lock Washer Component
2	External Tooth Lock Washer Component
3	Internal Tooth Lock Washer Component
4	Type L Narrow Conical Spring Washer Component
5	Type L Regular Conical Spring Washer Component
6	Type L Wide Conical Spring Washer Component
7	Type H Narrow Conical Spring Washer Component
8	Type H Regular Conical Spring Washer Component
9	Type H Wide Conical Spring Washer Component
A	Plain Narrow Washer Component
B	Plain Regular Washer Component
C	Plain Wide Washer Component

Table 7-10
Wood Screw Thread Types

PIN	Description
C	Cut Thread Wood Screws
R	Rolled Thread Wood Screws
P	Cut or Rolled Thread Wood Screws

Table 7-11
Miscellaneous Features for Socket Head Cap Screws

PIN	Description
1	Undrilled Head, No Additional Features
6	Undrilled Head, Optional-Type Self-Locking Element
7	2 Drilled Head Holes, No Additional Features
B	2 Drilled Head Holes, Optional-Type Self-Locking Element
C	4 Drilled Head Holes, No Additional Features
G	4 Drilled Head Holes, Optional-Type Self-Locking Element
H	6 Drilled Head Holes, No Additional Features
M	6 Drilled Head Holes, Optional-Type Self-Locking Element
P	As specified by the purchaser

Table 7-12
Self-Locking Elements for Set Screws

PIN	Description
1	No Additional Features
6	Optional-Type Self-Locking Element
P	As specified by the purchaser

Table 7-13
Thread Class for Track Bolts and Nuts

PIN	Description
A	Free Fit
B	Wrench Turn Fit
I	No Additional Features

Table 7-14
Alternate Points for Thumb and Wing Screws
(ASME B18.6.8)

PIN	Description
A	Cup Point
B	Cone Point
C	Oval Point
D	Flat Point
E	Dog Point
P	Plain, Sheared

NONMANDATORY APPENDIX A

ASME B18.24.1, ASME B18.24.2, AND ASME B18.24.3 PIN SUCCESSION INSTRUCTIONS

(23)

Please follow these instructions to convert a legacy 21-digit PIN to a superseding 18-digit PIN.

Step 1. Enter cancelled 21 digit PIN.

Enter cancelled 21 digit PIN

if digit 1 above = **B, M, S,** or **T**
then cell A2 below has a value of **B2-7**
if digit 1 above = **E, N, P, R, V,** or **W**
then cell A2 below has a value of **B3-6**

A	B	C	D
next—next table—length	PIN21	table pg.no.	PIN18
1			AE
2			
3			
4			
5			
6			
7			

AE

18 digit B18.24 superseding PIN

Step 2. Demarcate digit 1 (field 1) PIN.

B|210NA01CAD16468GAAB1

Enter cancelled 21 digit PIN

if digit 1 above = **B, M, S,** or **T**
then cell A2 below has a value of **102-7**
if digit 1 above = **E, N, P, R, V,** or **W**
then cell A2 below has a value of **103-6**

A	B	C	D
next—next table—length	PIN21	table pg.no.	PIN18
1			AE
2			
3			
4			
5			
6			
7			

AE

18 digit B18.24 superseding PIN

Step 3. Based on resolved logic for digit 1, enter the applicable “next table” value in cell A2 and the “table pg#” value in cell C2.

B | **210NA01CAD16468GAAB1**

Enter cancelled 21 digit PIN

if digit 1 above = **B, M, S, or T**

then cell A2 below has a value of **102-7**

if digit 1 above = **E, N, P, R, V, or W**

then cell A2 below has a value of **103-6**

	A	B	C	D
	next—next table—length	PIN21	table pg. no.	PIN18
1	B2-7		122	AE
2				
3				
4				
5				
6				
7				

AE

18 digit B18.24 superseding PIN

Step 4. Demarcate the next 6 or 7 digits (field 2 value) as applicable from “next length” value in cell A2.

B | **210NA01** | **CAD16468GAAB1**

Enter cancelled 21 digit PIN

if digit 1 above = **B, M, S, or T**

then cell A2 below has a value of **B2-7**

if digit 1 above = **E, N, P, R, V, or W**

then cell A2 below has a value of **B3-6**

	A	B	C	D
	next—next table—length	PIN21	table pg. no.	PIN18
1	B2-7		122	AE
2				
3				
4				
5				
6				
7				

AE

18 digit B18.24 superseding PIN

Step 5. Enter field 2 PIN21 value into cell B2.

B | **210NA01** | **CAD16468GAAB 1**

Enter cancelled 21 digit PIN

if digit 1 above = **B, M, S, or T**
 then cell A2 below has a value of **B2-7**
 if digit 1 above = **E, N, P, R, V, or W**
 then cell A2 below has a value of **B3-6**

	A	B	C	D
	next—next table—length	PIN21	table pg.no.	PIN18
1	B 2-7	<u>210NA01</u>	122	AE
2				
3				
4				
5				
6				
7				

AE

18 digit B18.24 superseding PIN

Step 6. Look up cell B2 PIN21 value in [Table B-2](#) or [Table B-3](#), as applicable. Enter resolved PIN18 value into cell D2.

B | **210NA01** | **CAD16468GAAB 1**

Enter cancelled 21 digit PIN

if digit 1 above = **B, M, S, or T**
 then cell A2 below has a value of **B2-7**
 if digit 1 above = **E, N, P, R, V, or W**
 then cell A2 below has a value of **B3-6**

	A	B	C	D
	next—next table—length	PIN21	table pg.no.	PIN18
1	B 2-7	210NA01	122	AE <u>B03</u>
2				
3				
4				
5				
6				
7				

AE

18 digit B18.24 superseding PIN

Step 7. Enter table references by listing them vertically into worksheet beginning from cell A3. Use the simpler “Bxxx-x” format (table-field length) e.g., B136-1 rather than the “[B-xxx]x,” format in [Tables B-2](#) and [B-3](#). For example, [B-136] 1.

B|210NA01|CAD16468GAAB 1

Enter cancelled 21 digit PIN

if digit 1 above = **B, M, S,** or **T**

then cell A2 below has a value of **B2-7**

if digit 1 above = **E, N, P, R, V,** or **W**

then cell A2 below has a value of **B3-6**

	A	B	C	D
	next—next table—length	PIN21	table pg.no.	PIN18
1	B 2-7	210NA01	122	AE B03
2	B 4-1			
3	B 6-2			
4	B 11-2			
5	B 134-5			
6	B 136-2			
7	B 137-1			

AE

18 digit B18.24 superseding PIN

Step 8. Demarcate remaining fields according to “next length” values starting from cell A3 downward.

B|210NA01|C|AD|16|468GA|AB|1

Enter cancelled 21 digit PIN

if digit 1 above = **B, M, S,** or **T**

then cell A2 below has a value of **B2-7**

if digit 1 above = **E, N, P, R, V,** or **W**

then cell A2 below has a value of **B3-6**

	A	B	C	D
	next—next table—length	PIN21	table pg.no.	PIN18
1	B 2-7	210NA01	122	AE B03
2	B 4-1			
3	B 6-2			
4	B 11-2			
5	B 134-5			
6	B 136-2			
7	B 137-1			

AE

18 digit B18.24 superseding PIN

Step 9. Enter remaining demarcated field values by listing them vertically from cell B3 downward.

B | **210NA01** | **C** | **AD** | **16** | **468GA** | **AB** | **1**

Enter cancelled 21 digit PIN

if digit 1 above = **B, M, S, or T**
then cell A2 below has a value of **B2-7**
if digit 1 above = **E, N, P, R, V, or W**
then cell A2 below has a value of **B3-6**

	A	B	C	D
	next—next table—length	PIN21	table pg.no.	PIN18
1	B 2-7	210NA01		AE BO3
2	B 4-1	<u>C</u>		
3	B 6-2	<u>AD</u>		
4	B 11-2	<u>16</u>		
5	B 134-5	<u>468GA</u>		
6	B 136-2	<u>AB</u>		
7	B 137-1	<u>1</u>		

AE

18 digit B18.24 superseding PIN

Step 10. Enter the page numbers vertically beginning from cell C3 downward.

B | **210NA01** | **C** | **AD** | **16** | **468GA** | **AB** | **1**

Enter cancelled 21 digit PIN

if digit 1 above = **B, M, S, or T**
then cell A2 below has a value of **B2-7**
if digit 1 above = **E, N, P, R, V, or W**
then cell A2 below has a value of **B3-6**

	A	B	C	D
	next—next table—length	PIN21	table pg.no.	PIN18
1	B 2-7	210NA01	<u>x</u>	AE BO3
2	B 4-1	<u>C</u>	<u>x</u>	
3	B 6-2	<u>AD</u>	<u>x</u>	
4	B 11-2	<u>16</u>	<u>x</u>	
5	B 134-5	<u>468GA</u>	<u>x</u>	
6	B 136-2	<u>AB</u>	<u>x</u>	
7	B 137-1	<u>1</u>	<u>x</u>	

AE

18 digit B18.24 superseding PIN

Step 11. Look up PIN18 values for tables listed in column A starting from A3 downward. Enter PIN18 values into column D.

B|210NA01|C|AD|16|468GA|AB|1

Enter cancelled 21 digit PIN

if digit 1 above = **B, M, S, or T**

then cell A2 below has a value of **B2-7**

if digit 1 above = **E, N, P, R, V, or W**

then cell A2 below has a value of **B3-6**

	A	B	C	D
	next—next table—length	PIN21	table pg. no.	PIN18
1	B 2-7	210NA01		AE BO3
2	B 4-1	C	x	C
3	B 6-2	AD	x	250
4	B 11-2	16	x	875
5	B 134-5	468GA	x	BV5
6	B 136-2	AB	x	A2
7	B 137-1	1	x	1

AE

18 digit B18.24 superseding PIN

Step 12. Transpose vertical PIN18 values from column D horizontally to “AE” entry field at bottom of worksheet. This resolves the cancelled B18.24.1-3 PIN to a superseding 18 digit B18.24 PIN.

B|210NA01|C|AD|16|468GA|AB|1

Enter cancelled 21 digit PIN

if digit 1 above = **B, M, S, or T**

then cell A2 below has a value of **B2-7**

if digit 1 above = **E, N, P, R, V, or W**

then cell A2 below has a value of **B3-6**

	A	B	C	D
	next—next table—length	PIN21	table pg. no.	PIN18
1	B 2-7	210NA01	x	AE BO3
2	B 4-1	C	x	C
3	B 6-2	AD	x	250
4	B 11-2	16	x	875
5	B 134-5	468GA	x	BV5
6	B 136-2	AB	x	A2
7	B 137-1	1	x	1

AEB02C250875BV5A21

18 digit B18.24 superseding PIN

NONMANDATORY APPENDIX B **ASME B18.24.1, ASME B18.24.2, AND ASME B18.24.3 PIN** **SUCCESSION TABLES**

Table B-1
Fastener Family

Digit 1	ASME Standard	Description	Next PIN
A	B18.24	18 Digit PIN	Use ASME B18.24 Tables
B	B18.24.1	Bolts	[B2] 7,
E	B18.24.2	Inserts	[B3] 6,
K	B18.24.3	Keys and Keysets	[B3] 6,
M	B18.24.1	Screw and Washer Assemblies: SEMs	[B2] 7,
N	B18.24.2	Nuts	[B3] 6,
P	B18.24.3	Pins	[B3] 6,
R	B18.24.3	Retaining Rings	[B3] 6,
S	B18.24.1	Screws	[B2] 7,
T	B18.24.1	Studs	[B2] 7,
V	B18.24.3	Rivets	[B3] 6,
W	B18.24.3	Washers	[B3] 6,

Table B-2
Fastener Type: Externally Threaded

PIN21	PIN18	Table References
100NA28	AEB32	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
100NA29	AEB33	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
110NG83	AESZG	[B-4]1, [B-10]2, [B-13]2, [B-134]5, [B-136]2, [B-137]1
110NG84	AESZH	[B-4]1, [B-10]2, [B-13]2, [B-134]5, [B-136]2, [B-137]1
110NG85	AESZJ	[B-4]1, [B-10]2, [B-13]2, [B-134]5, [B-136]2, [B-137]1
110NG86	AESZK	[B-4]1, [B-10]2, [B-13]2, [B-134]5, [B-136]2, [B-137]1
130NG11	AEMF4	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-158]1
130NG12	AEMF5	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-158]1
130NG13	AEMF6	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-158]1
130NG14	AEMF7	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-158]1
130NG15	AEMQ9	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-158]1
130NG16	AEMR0	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-158]1
130NG17	AEMR1	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-158]1
130NG18	AEMR2	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-158]1
130NG19	AEMS1	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-158]1
130NG20	AEMT9	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-158]1
130NG21	AEM01	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-158]1
130NG22	AEMQ1	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-158]1
130NG23	AEMQ2	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-158]1
130NG24	AEMQ3	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-158]1
130NG25	AEMQ4	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-158]1
130NG30	AEMS1	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-158]1
130NG31	AEMT9	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-158]1
130NG32	AEM14	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-158]1
130NG33	AEMF4	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-160]1
130NG34	AEMF5	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-160]1
130NG35	AEMF6	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-160]1
130NG36	AEMF7	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-160]1
130NG37	AEMQ9	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-160]1
130NG38	AEMR0	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-160]1
130NG39	AEMR1	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-160]1
130NG40	AEMR2	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-160]1
130NG41	AEMS1	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-160]1
130NG42	AEMT9	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-160]1
130NG43	AEM01	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-160]1
130NG44	AEMC0	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-159]1
130NG45	AEMC1	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-159]1
130NG46	AEMC2	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-159]1
130NG47	AEMC3	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-159]1
130NG48	AEMN0	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-159]1
130NG49	AEMN1	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-159]1
130NG50	AEMN2	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-159]1
130NG51	AEMN3	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-159]1
130NG52	AEMQ1	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-159]1
130NG53	AEMQ2	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-159]1
130NG54	AEMQ3	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-159]1
130NG55	AEMQ4	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-159]1
130NG56	AEMQ1	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-159]1
130NG57	AEMQ2	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-159]1

Table B-2
Fastener Type: Externally Threaded (Cont'd)

PIN21	PIN18	Table References
130NG58	AEMQ3	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-159]1
130NG59	AEMQ4	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-159]1
130NG60	AEMT9	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-159]1
130NG61	AEM01	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-159]1
130NG62	AEMQ1	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-162]1
130NG63	AEMQ2	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-162]1
130NG64	AEMQ3	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-162]1
130NG65	AEMQ4	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-162]1
130NG66	AEMQ9	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-162]1
130NG67	AEMR0	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-162]1
130NG68	AEMR1	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-162]1
130NG69	AEMR2	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-162]1
130NG72	AEM01	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-165]1
130NG73	AEMF4	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-168]1
130NG74	AEMF5	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-168]1
130NG75	AEMF6	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-168]1
130NG76	AEMF7	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-168]1
130NG77	AEMQ1	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-167]1
130NG78	AEMQ2	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-167]1
130NG79	AEMQ3	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-167]1
130NG80	AEMQ4	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-167]1
130NG81	AEMS1	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-167]1
130NG82	AEMT9	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-169]1
130NG83	AEM01	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-168]1
131NG11	AEMZ1	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-158]1
131NG12	AEMZ2	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-158]1
131NG13	AEMZ3	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-158]1
131NG19	AEMX1	[B-147]1, [B-152]2, [B-12]2, [B-134]5, [B-136]2, [B-158]1
131NG20	AEMX7	[B-149]1, [B-152]2, [B-12]2, [B-134]5, [B-136]2, [B-158]1
131NG21	AEM07	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-158]1
131NG22	AEMW4	[B-140]1, [B-151]2, [B-12]2, [B-134]5, [B-136]2, [B-158]1
131NG23	AEMW5	[B-140]1, [B-151]2, [B-12]2, [B-134]5, [B-136]2, [B-158]1
131NG24	AEMW6	[B-140]1, [B-151]2, [B-12]2, [B-134]5, [B-136]2, [B-158]1
131NG30	AEMX1	[B-141]1, [B-151]2, [B-12]2, [B-134]5, [B-136]2, [B-158]1
131NG31	AEMX7	[B-144]1, [B-151]2, [B-12]2, [B-134]5, [B-136]2, [B-158]1
131NG32	AEM43	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-158]1
131NG33	AEMZ1	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-160]1
131NG34	AEMZ2	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-160]1
131NG35	AEMZ3	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-160]1
131NG41	AEMX1	[B-140]1, [B-151]2, [B-12]2, [B-134]5, [B-136]2, [B-160]1
131NG42	AEMX7	[B-149]1, [B-152]2, [B-12]2, [B-134]5, [B-136]2, [B-160]1
131NG43	AEM07	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-160]1
131NG44	AEMV3	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-159]1
131NG45	AEMV4	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-159]1
131NG46	AEMV5	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-159]1
131NG48	AEMW0	[B-141]1, [B-151]2, [B-12]2, [B-134]5, [B-136]2, [B-159]1
131NG49	AEMW1	[B-141]1, [B-151]2, [B-12]2, [B-134]5, [B-136]2, [B-159]1
131NG50	AEMW2	[B-141]1, [B-151]2, [B-12]2, [B-134]5, [B-136]2, [B-159]1
131NG52	AEMW4	[B-140]1, [B-151]2, [B-12]2, [B-134]5, [B-136]2, [B-159]1

Table B-2
Fastener Type: Externally Threaded (Cont'd)

PIN21	PIN18	Table References
131NG53	AEMW5	[B-140]1, [B-151]2, [B-12]2, [B-134]5, [B-136]2, [B-159]1
131NG54	AEMW6	[B-140]1, [B-151]2, [B-12]2, [B-134]5, [B-136]2, [B-159]1
131NG60	AEMX7	[B-149]1, [B-152]2, [B-12]2, [B-134]5, [B-136]2, [B-159]1
131NG61	AEM07	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-159]1
131NG62	AEMW4	[B-140]1, [B-151]2, [B-12]2, [B-134]5, [B-136]2, [B-162]1
131NG63	AEMW5	[B-140]1, [B-151]2, [B-12]2, [B-134]5, [B-136]2, [B-162]1
131NG64	AEMW6	[B-140]1, [B-151]2, [B-12]2, [B-134]5, [B-136]2, [B-162]1
131NG71	AEMX7	[B-141]1, [B-151]2, [B-12]2, [B-134]5, [B-136]2, [B-162]1
131NG72	AEM07	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-165]1
131NG73	AEMZ1	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-168]1
131NG74	AEMZ2	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-168]1
131NG75	AEMZ3	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-168]1
131NG81	AEMX1	[B-140]1, [B-151]2, [B-12]2, [B-134]5, [B-136]2, [B-167]1
131NG82	AEMX7	[B-149]1, [B-152]2, [B-12]2, [B-134]5, [B-136]2, [B-169]1
131NG83	AEM07	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-169]1
151NG09	AET05	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
152NG10	AET06	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
210NA00	AEB02	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
210NA01	AEB03	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
210NA09	AEB01	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
210NA38	AES01	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
210NA48	AES02	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
210NA50	AES03	[B-4]1, [B-157]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
210NA51	AES04	[B-4]1, [B-157]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
210NA52	AES05	[B-4]1, [B-157]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
210NA53	AES06	[B-4]1, [B-157]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
2310A09	AEB08	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
231NA38	AES07	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
234NG07	AES10	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
235NA00	AEB05	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
236NA01	AEB06	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
237NA06	AEB07	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
238NA52	AES11	[B-171]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
239NG08	AES12	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
260NA06	AEB09	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
271NB45	AES13	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
300NA42	AES14	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
300NA43	AES15	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
300NA44	AES16	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
300NA45	AES17	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
300NA46	AES18	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
300NA47	AES19	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
300NB08	AES22	[B-4]1, [B-155]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
300NB09	AES23	[B-4]1, [B-155]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
300NB10	AES24	[B-4]1, [B-155]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
300NB11	AES25	[B-4]1, [B-155]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
300NB12	AES26	[B-4]1, [B-155]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
300NB13	AES28	[B-4]1, [B-155]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
300NB14	AES29	[B-4]1, [B-155]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1

Table B-2
Fastener Type: Externally Threaded (Cont'd)

PIN21	PIN18	Table References
300NB15	AES30	[B-4]1, [B-155]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
300NB16	AES31	[B-4]1, [B-155]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
300NB17	AES32	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
300NB18	AES33	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
300NB19	AES34	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
300NB20	AES35	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
300NB21	AES36	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
300NB22	AES37	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
300NB23	AES39	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
300NB24	AES40	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
300NB25	AES41	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
300NB26	AES42	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
300NS30	AES21	[B-4]1, [B-155]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
310NA42	AES43	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
310NA43	AES44	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
340NA46	AES46	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
360NB13	AES53	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
360NB14	AES54	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
360NB15	AES55	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
360NB16	AES56	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
360NB23	AES62	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
360NB24	AES63	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
360NB25	AES64	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
360NB26	AES65	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
500NA17	AEB10	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
500NA18	AEB16	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
500NA19	AEB18	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
500NA20	AEB14	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
500NA21	AEB13	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
500NA22	AEB11	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
500NA23	AEB12	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
500NA24	AEB19	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
500NA27	AEB15	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
500NA37	AEB20	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
500NAA1	AEB17	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
521NA23	AEB21	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
522NA22	AEB22	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
610NB46	AES66	[B-4]1, [B-156]2, [B-11]2, [B-134]5, [B-136]2, [B-172]1
610NB47	AES67	[B-4]1, [B-156]2, [B-11]2, [B-134]5, [B-136]2, [B-172]1
610NB48	AES68	[B-4]1, [B-156]2, [B-11]2, [B-134]5, [B-136]2, [B-172]1
610NB49	AES69	[B-4]1, [B-156]2, [B-11]2, [B-134]5, [B-136]2, [B-172]1
610NB50	AES70	[B-4]1, [B-156]2, [B-11]2, [B-134]5, [B-136]2, [B-172]1
610NB51	AES71	[B-4]1, [B-156]2, [B-11]2, [B-134]5, [B-136]2, [B-172]1
610NB52	AES72	[B-4]1, [B-156]2, [B-11]2, [B-134]5, [B-136]2, [B-172]1
610NB53	AES73	[B-4]1, [B-156]2, [B-11]2, [B-134]5, [B-136]2, [B-172]1
620NA39	AES78	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
620NA40	AES80	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
620NA41	AES79	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
620NB27	AES93	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1

Table B-2
Fastener Type: Externally Threaded (Cont'd)

PIN21	PIN18	Table References
620NB28	AES94	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
620NB29	AES95	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
620NB30	AES96	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
620NB31	AES97	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
620NB32	AES98	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
620NB33	AES81	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
620NB34	AES82	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
620NB35	AES83	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
620NB36	AES84	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
620NB37	AES85	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
620NB38	AES86	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
620NB39	AES87	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
620NB40	AES88	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
620NB41	AES89	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
620NB42	AES90	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
620NB43	AES91	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
620NB44	AES92	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA54	AESH5	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA55	AESH6	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA56	AESH8	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA57	AESG7	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA58	AESG2	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA59	AESG3	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA60	AESG4	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA61	AESG5	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA62	AESC0	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA63	AESC1	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA64	AESC2	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA65	AESC3	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA69	AESD8	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA70	AESD9	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA71	AESE0	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA72	AESE1	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA73	AESC5	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA74	AESC6	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA75	AESC8	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA76	AESC9	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA77	AESD0	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA78	AESD2	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA83	AESK9	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA84	AESK8	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA85	AESD3	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA86	AESD4	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA87	AESD5	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA88	AESD6	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA89	AESE3	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA90	AESE4	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA91	AESE5	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA92	AESE6	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1

Table B-2
Fastener Type: Externally Threaded (Cont'd)

PIN21	PIN18	Table References
630NA96	AESL4	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA97	AESL5	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA98	AESL7	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NA99	AESF4	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NB00	AESF5	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NB01	AESF6	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NB02	AESF7	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NB03	AESG8	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NB04	AESG9	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NB05	AESH1	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
630NB06	AESH0	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB57	AESQ9	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB58	AESQ9	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB59	AESQ9	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB60	AESQ9	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB61	AESQ9	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB62	AESQ9	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB63	AESQ9	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB64	AESQ9	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB65	AESQ9	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB66	AESQ9	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB67	AESR0	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB68	AESR0	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB69	AESR0	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB70	AESR0	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB71	AESR0	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB72	AESR0	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB73	AESR0	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB74	AESR0	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB75	AESR0	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB76	AESR0	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB77	AESR1	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB78	AESR1	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB79	AESR1	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB80	AESR1	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB81	AESR1	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB82	AESR1	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB83	AESR1	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB84	AESR1	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB85	AESR1	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB86	AESR1	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB87	AESR2	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB88	AESR2	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB89	AESR2	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB90	AESR2	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB91	AESR2	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB92	AESR2	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB93	AESR2	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB94	AESR2	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1

Table B-2
Fastener Type: Externally Threaded (Cont'd)

PIN21	PIN18	Table References
640NB95	AESR2	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB96	AESR2	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB97	AESM1	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB98	AESM1	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NB99	AESM1	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC00	AESM1	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC01	AESM1	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC02	AESM1	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC03	AESM1	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC04	AESM1	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC05	AESM1	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC06	AESM1	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC07	AESM2	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC08	AESM2	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC09	AESM2	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC10	AESM2	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC11	AESM2	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC12	AESM2	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC13	AESM2	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC14	AESM2	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC15	AESM2	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC16	AESM2	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC17	AESM3	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC18	AESM3	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC19	AESM3	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC20	AESM3	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC21	AESM3	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC22	AESM3	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC23	AESM3	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC24	AESM3	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC25	AESM3	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC26	AESM3	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC27	AESM4	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC28	AESM4	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC29	AESM4	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC30	AESM4	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC31	AESM4	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC32	AESM4	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC33	AESM4	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC34	AESM4	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC35	AESM4	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC36	AESM4	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC37	AESN5	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC38	AESN5	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC39	AESN5	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC40	AESN5	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC41	AESN5	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC42	AESN5	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC43	AESN5	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1

Table B-2
Fastener Type: Externally Threaded (Cont'd)

PIN21	PIN18	Table References
640NC44	AESN5	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC45	AESN5	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC46	AESN5	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC47	AESN6	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC48	AESN6	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC49	AESN6	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC50	AESN6	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC51	AESN6	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC52	AESN6	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC53	AESN6	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC54	AESN6	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC55	AESN6	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC56	AESN6	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC57	AESN7	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC58	AESN7	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC59	AESN7	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC60	AESN7	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC61	AESN7	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC62	AESN7	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC63	AESN7	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC64	AESN7	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC65	AESN7	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC66	AESN7	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC67	AESN8	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC68	AESN8	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC69	AESN8	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC70	AESN8	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC71	AESN8	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC72	AESN8	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC73	AESN8	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC74	AESN8	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC75	AESN8	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC76	AESN8	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC77	AESP5	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC78	AESP5	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC79	AESP5	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC80	AESP5	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC81	AESP5	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC82	AESP5	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC83	AESP5	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC84	AESP5	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC85	AESP5	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC86	AESP5	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC87	AESP6	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC88	AESP6	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC89	AESP6	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC90	AESP6	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC91	AESP6	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC92	AESP6	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1

Table B-2
Fastener Type: Externally Threaded (Cont'd)

PIN21	PIN18	Table References
640NC93	AESP6	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC94	AESP6	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC95	AESP6	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC96	AESP6	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC97	AESP7	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC98	AESP7	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NC99	AESP7	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND00	AESP7	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND01	AESP7	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND02	AESP7	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND03	AESP7	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND04	AESP7	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND05	AESP7	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND06	AESP7	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND07	AESM6	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND08	AESM6	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND09	AESM6	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND10	AESM6	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND11	AESM6	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND12	AESM6	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND13	AESM6	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND14	AESM6	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND15	AESM6	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND16	AESM6	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND17	AESM8	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND18	AESM8	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND19	AESM8	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND20	AESM8	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND21	AESM8	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND22	AESM9	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND23	AESM9	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND24	AESM9	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND25	AESM9	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND26	AESM9	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND27	AESS4	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND28	AESS4	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND29	AESS4	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND30	AESS4	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND31	AESS4	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND32	AESS4	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND33	AESS4	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND34	AESS4	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND35	AESS4	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND36	AESS4	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND37	AESS3	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND38	AESS3	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND39	AESS3	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND40	AESS3	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND41	AESS3	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1

Table B-2
Fastener Type: Externally Threaded (Cont'd)

PIN21	PIN18	Table References
640ND42	AESS3	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND43	AESS3	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND44	AESS3	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND45	AESS3	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND46	AESS3	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND47	AESS6	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND48	AESS6	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND49	AESS6	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND50	AESS6	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND51	AESS6	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND52	AESS6	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND53	AESS6	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND54	AESS6	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND55	AESS6	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND56	AESS6	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND57	AESS5	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND58	AESS5	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND59	AESS5	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND60	AESS5	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND61	AESS5	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND62	AESS5	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND63	AESS5	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND64	AESS5	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND65	AESS5	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND66	AESS5	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND67	AESU0	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND68	AESU0	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND69	AESU0	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND70	AESU0	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND71	AESU0	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND72	AESU0	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND73	AESU0	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND74	AESU0	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND75	AESU0	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND76	AESU0	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND77	AEST9	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND78	AEST9	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND79	AEST9	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND80	AEST9	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND81	AEST9	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND82	AEST9	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND83	AEST9	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND84	AEST9	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND85	AEST9	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND86	AEST9	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND87	AESN0	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND88	AESN0	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND89	AESN0	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND90	AESN0	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1

Table B-2
Fastener Type: Externally Threaded (Cont'd)

PIN21	PIN18	Table References
640ND91	AESN0	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND92	AESN0	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND93	AESN0	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND94	AESN0	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND95	AESN0	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND96	AESN0	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND97	AESN1	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND98	AESN1	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640ND99	AESN1	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NDD0	AESM7	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NDD1	AESM7	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NDD2	AESM7	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NDD3	AESM7	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NDD4	AESM7	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE00	AESN1	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE01	AESN1	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE02	AESN1	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE03	AESN1	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE04	AESN1	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE05	AESN1	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE06	AESN1	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE07	AESN2	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE08	AESN2	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE09	AESN2	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE10	AESN2	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE11	AESN2	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE12	AESN2	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE13	AESN2	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE14	AESN2	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE15	AESN2	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE16	AESN2	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE17	AESN3	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE18	AESN3	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE19	AESN3	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE20	AESN3	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE21	AESN3	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE22	AESN3	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE23	AESN3	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE24	AESN3	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE25	AESN3	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE26	AESN3	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE27	AESP8	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE28	AESP8	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE29	AESP8	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE30	AESP8	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE31	AESP8	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE32	AESP8	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE33	AESP8	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE34	AESP8	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1

Table B-2
Fastener Type: Externally Threaded (Cont'd)

PIN21	PIN18	Table References
640NE35	AESP8	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE37	AESP9	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE38	AESP9	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE39	AESP9	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE40	AESP9	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE41	AESP9	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE42	AESP9	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE43	AESP9	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE44	AESP9	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE45	AESP9	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE46	AESP9	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE47	AESQ0	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE48	AESQ0	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE49	AESQ0	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE50	AESQ0	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE51	AESQ0	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE52	AESQ0	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE53	AESQ0	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE54	AESQ0	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE55	AESQ0	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE56	AESQ0	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE57	AESP0	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE58	AESP0	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE59	AESP0	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE60	AESP0	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE61	AESP0	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE62	AESP0	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE63	AESP0	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE64	AESP0	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE65	AESP0	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE66	AESP0	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE67	AESP1	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE68	AESP1	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE69	AESP1	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE70	AESP1	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE71	AESP1	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE72	AESP1	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE73	AESP1	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE74	AESP1	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE75	AESP1	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE76	AESP1	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE77	AESP2	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE78	AESP2	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE79	AESP2	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE80	AESP2	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE81	AESP2	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE82	AESP2	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE83	AESP2	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE84	AESP2	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1

Table B-2
Fastener Type: Externally Threaded (Cont'd)

PIN21	PIN18	Table References
640NE85	AESP2	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE86	AESP2	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE87	AESP3	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE88	AESP3	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE89	AESP3	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE90	AESP3	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE91	AESP3	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE92	AESP3	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE93	AESP3	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE94	AESP3	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE95	AESP3	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE96	AESP3	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE97	AESQ1	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE98	AESQ1	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NE99	AESQ1	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF00	AESQ1	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF01	AESQ1	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF02	AESQ1	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF03	AESQ1	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF04	AESQ1	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF05	AESQ1	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF06	AESQ1	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF07	AESQ2	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF08	AESQ2	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF09	AESQ2	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF10	AESQ2	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF11	AESQ2	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF12	AESQ2	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF13	AESQ2	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF14	AESQ2	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF15	AESQ2	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF16	AESQ2	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF17	AESQ3	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF18	AESQ3	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF19	AESQ3	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF20	AESQ3	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF21	AESQ3	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF22	AESQ3	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF23	AESQ3	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF24	AESQ3	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF25	AESQ3	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF26	AESQ3	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF27	AESQ4	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF28	AESQ4	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF29	AESQ4	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF30	AESQ4	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF31	AESQ4	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF32	AESQ4	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF33	AESQ4	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1

Table B-2
Fastener Type: Externally Threaded (Cont'd)

PIN21	PIN18	Table References
640NF34	AESQ4	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF35	AESQ4	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF36	AESQ4	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF37	AESU5	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF38	AESU5	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF39	AESU5	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF40	AESU5	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF41	AESU5	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF42	AESU5	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF43	AESU5	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF44	AESU5	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF45	AESU5	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF46	AESU5	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF47	AESU6	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF48	AESU6	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF49	AESU6	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF50	AESU6	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF51	AESU6	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF52	AESU6	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF53	AESU6	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF54	AESU6	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF55	AESU6	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF56	AESU6	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF57	AESU8	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF58	AESU8	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF59	AESU8	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF60	AESU8	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF61	AESU8	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF62	AESU8	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF63	AESU8	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF64	AESU8	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF65	AESU8	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF66	AESU8	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF67	AESR4	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF68	AESR4	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF69	AESR4	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF70	AESR4	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF71	AESR4	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF72	AESR4	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF73	AESR4	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF74	AESR4	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF75	AESR4	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF76	AESR4	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF77	AESR5	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF78	AESR5	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF79	AESR5	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF80	AESR5	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF81	AESR5	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF82	AESR5	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1

Table B-2
Fastener Type: Externally Threaded (Cont'd)

PIN21	PIN18	Table References
640NF83	AESR5	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF84	AESR5	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF85	AESR5	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF86	AESR5	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF87	AESR6	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF88	AESR6	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF89	AESR6	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF90	AESR6	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF91	AESR6	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF92	AESR6	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF93	AESR6	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF94	AESR6	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF95	AESR6	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF96	AESR6	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF97	AESR7	[B-140]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF98	AESR7	[B-141]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NF99	AESR7	[B-142]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NG00	AESR7	[B-143]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NG01	AESR7	[B-144]1, [B-151]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NG02	AESR7	[B-145]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NG03	AESR7	[B-146]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NG04	AESR7	[B-147]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NG05	AESR7	[B-148]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NG06	AESR7	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
640NG88	AESV2	[B-150]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
650NB97	AESV3	[B-140]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NB98	AESV3	[B-141]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NB99	AESV3	[B-142]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC01	AESV3	[B-144]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC03	AESV3	[B-146]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC04	AESV3	[B-147]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC06	AESV3	[B-149]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC07	AESV4	[B-140]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC08	AESV4	[B-141]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC09	AESV4	[B-142]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC11	AESV4	[B-144]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC13	AESV4	[B-146]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC14	AESV4	[B-147]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC16	AESV4	[B-149]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC17	AESV5	[B-140]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC18	AESV5	[B-141]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC19	AESV5	[B-142]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC21	AESV5	[B-144]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC23	AESV5	[B-146]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC24	AESV5	[B-147]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC26	AESV5	[B-149]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC47	AESV7	[B-140]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC48	AESV7	[B-141]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC49	AESV7	[B-142]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1

Table B-2
Fastener Type: Externally Threaded (Cont'd)

PIN21	PIN18	Table References
650NC51	AESV7	[B-144]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC53	AESV7	[B-146]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC54	AESV7	[B-147]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC56	AESV7	[B-149]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC57	AESV8	[B-140]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC58	AESV8	[B-141]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC59	AESV8	[B-142]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC61	AESV8	[B-144]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC63	AESV8	[B-146]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC64	AESV8	[B-147]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NC66	AESV8	[B-149]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND37	AESX3	[B-140]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND38	AESX3	[B-141]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND39	AESX3	[B-142]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND42	AESX3	[B-144]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND43	AESX3	[B-146]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND44	AESX3	[B-147]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND46	AESX3	[B-149]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND57	AESX5	[B-140]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND58	AESX5	[B-141]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND59	AESX5	[B-142]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND61	AESX5	[B-144]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND63	AESX5	[B-146]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND64	AESX5	[B-147]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND66	AESX5	[B-149]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND77	AESX7	[B-140]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND78	AESX7	[B-141]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND79	AESX7	[B-142]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND81	AESX7	[B-144]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND83	AESX7	[B-146]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND84	AESX7	[B-147]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND86	AESX7	[B-149]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND87	AESW0	[B-140]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND88	AESW0	[B-141]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND89	AESW0	[B-142]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND91	AESW0	[B-144]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND93	AESW0	[B-146]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND94	AESW0	[B-147]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND96	AESW0	[B-149]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND97	AESW1	[B-140]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND98	AESW1	[B-141]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650ND99	AESW1	[B-142]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NE01	AESW1	[B-144]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NE03	AESW1	[B-146]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NE04	AESW1	[B-147]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NE06	AESW1	[B-149]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NE07	AESW2	[B-140]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NE08	AESW2	[B-141]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NE09	AESW2	[B-142]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1

Table B-2
Fastener Type: Externally Threaded (Cont'd)

PIN21	PIN18	Table References
650NE11	AESW2	[B-144]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NE13	AESW2	[B-146]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NE14	AESW2	[B-147]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NE16	AESW2	[B-149]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NE36	AESP8	[B-149]1, [B-152]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
650NE97	AESW4	[B-140]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NE98	AESW4	[B-141]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NE99	AESW4	[B-142]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NF01	AESW4	[B-144]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NF03	AESW4	[B-146]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NF04	AESW4	[B-147]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NF06	AESW4	[B-149]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NF07	AESW5	[B-140]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NF08	AESW5	[B-141]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NF09	AESW5	[B-142]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NF11	AESW5	[B-144]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NF13	AESW5	[B-146]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NF14	AESW5	[B-147]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NF16	AESW5	[B-149]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NF17	AESW6	[B-140]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NF18	AESW6	[B-141]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NF19	AESW6	[B-142]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NF21	AESW6	[B-144]1, [B-153]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NF23	AESW6	[B-146]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NF24	AESW6	[B-147]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
650NF26	AESW6	[B-149]1, [B-154]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
670NA62	AESY0	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
670NA79	AESZD	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
670NA80	AESZC	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
670NA81	AESZB	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
670NA82	AESZA	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
670NA84	AESZE	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
670NA84	AESZF	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
670NA85	AESY7	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
670NA86	AESY8	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
670NA87	AESY9	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
670NA99	AESZ1	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
670NB00	AESZ2	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
670NB01	AESZ3	[B-4]1, [B-8]2, [B-12]2, [B-134]5, [B-136]2, [B-137]1
900NA12	AEB30	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
900NA13	AEB28	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
900NA31	AEB24	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
900NA32	AEB25	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
900NA33	AEB29	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
900NA34	AEB31	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
900NA35	AEB26	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1
900NA36	AEB27	[B-4]1, [B-6]2, [B-11]2, [B-134]5, [B-136]2, [B-137]1

Table B-3
Fastener Type: Internally Threaded and Nonthreaded

PIN21	PIN18	Table References
100N16	AEN25	[B-5]1, [B-7]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
100N17	AEN24	[B-5]1, [B-7]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
110NAA	AEV01	[B-15]3, [B-16]3, [B-134]5, [B-136]2, [B-139]1
110NAB	AEV02	[B-15]3, [B-16]3, [B-134]5, [B-136]2, [B-139]1
110NAC	AEV03	[B-15]3, [B-16]3, [B-134]5, [B-136]2, [B-139]1
110NAD	AEV04	[B-15]3, [B-16]3, [B-134]5, [B-136]2, [B-139]1
110NAE	AEV05	[B-15]3, [B-16]3, [B-134]5, [B-136]2, [B-139]1
110NAF	AEV06	[B-17]6, [B-134]5, [B-136]2, [B-139]1
110NAG	AEV07	[B-18]6, [B-134]5, [B-136]2, [B-139]1
110NAH	AEV08	[B-21]3, [B-22]3, [B-134]5, [B-136]2, [B-139]1
110NAJ	AEV09	[B-19]3, [B-20]3, [B-134]5, [B-136]2, [B-139]1
120NAA	AEV10	[B-23]3, [B-24]3, [B-134]5, [B-136]2, [B-139]1
120NAB	AEV11	[B-23]3, [B-24]3, [B-134]5, [B-136]2, [B-139]1
120NAC	AEV12	[B-23]3, [B-24]3, [B-134]5, [B-136]2, [B-139]1
120NAD	AEV13	[B-23]3, [B-24]3, [B-134]5, [B-136]2, [B-139]1
120NAE	AEV14	[B-23]3, [B-24]3, [B-134]5, [B-136]2, [B-139]1
120NAF	AEV15	[B-23]3, [B-24]3, [B-134]5, [B-136]2, [B-139]1
130NAA	AEV16	[B-25]3, [B-26]3, [B-134]5, [B-136]2, [B-139]1
130NAB	AEV17	[B-25]3, [B-26]3, [B-134]5, [B-136]2, [B-139]1
130NAC	AEV18	[B-25]3, [B-26]3, [B-134]5, [B-136]2, [B-139]1
163N24	AEN26	[B-5]1, [B-9]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
163N25	AEN27	[B-5]1, [B-9]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
163N26	AEN28	[B-5]1, [B-9]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
163N27	AEN29	[B-5]1, [B-9]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
163N28	AEN30	[B-5]1, [B-9]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
163N29	AEN31	[B-5]1, [B-9]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
211NAA	AEW07	[B-96]6, [B-134]5, [B-136]2, [B-139]1
211NAB	AEW08	[B-96]6, [B-134]5, [B-136]2, [B-139]1
211NAC	AEW09	[B-96]6, [B-134]5, [B-136]2, [B-139]1
211NAD	AEW10	[B-97]6, [B-134]5, [B-136]2, [B-139]1
211NAE	AEW11	[B-98]6, [B-134]5, [B-136]2, [B-139]1
211NAF	AEW12	[B-99]6, [B-134]5, [B-136]2, [B-139]1
211NAG	AEW13	[B-102]6, [B-134]5, [B-136]2, [B-139]1
211NAH	AEW14	[B-100]6, [B-134]5, [B-136]2, [B-139]1
211NAJ	AEW15	[B-101]6, [B-134]5, [B-136]2, [B-139]1
212NAA	AEW16	[B-103]6, [B-134]5, [B-136]2, [B-139]1
212NAB	AEW17	[B-103]6, [B-134]5, [B-136]2, [B-139]1
212NAC	AEW18	[B-104]6, [B-134]5, [B-136]2, [B-139]1
212NAD	AEW19	[B-105]6, [B-134]5, [B-136]2, [B-139]1
212NAE	AEW20	[B-108]6, [B-134]5, [B-136]2, [B-139]1
212NAF	AEW21	[B-106]6, [B-134]5, [B-136]2, [B-139]1
212NAG	AEW22	[B-107]6, [B-134]5, [B-136]2, [B-139]1
2200AA	AEW23	[B-109]6, [B-134]5, [B-136]2, [B-139]1
220N00	AEN01	[B-5]1, [B-7]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
220N01	AEN02	[B-5]1, [B-7]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
220N02	AEN03	[B-5]1, [B-7]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
220N03	AEN04	[B-5]1, [B-7]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
220N04	AEN05	[B-5]1, [B-7]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
220N05	AEN06	[B-5]1, [B-7]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1

Table B-3
Fastener Type: Internally Threaded and Nonthreaded (Cont'd)

PIN21	PIN18	Table References
220N06	AEN07	[B-5]1, [B-7]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
220N07	AEN08	[B-5]1, [B-7]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
220N08	AEN09	[B-5]1, [B-7]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
220N09	AEN10	[B-5]1, [B-7]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
220N10	AEN11	[B-5]1, [B-7]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
220N11	AEN12	[B-5]1, [B-7]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
220N12	AEN13	[B-5]1, [B-7]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
220N13	AEN14	[B-5]1, [B-7]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
221NAA	AEW24	[B-110]6, [B-134]5, [B-136]2, [B-139]1
221NAB	AEW25	[B-111]6, [B-134]5, [B-136]2, [B-139]1
221NAC	AEW26	[B-112]6, [B-134]5, [B-136]2, [B-139]1
241N18	AEN15	[B-5]1, [B-9]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
242N19	AEN16	[B-5]1, [B-9]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
243N20	AEN17	[B-5]1, [B-9]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
244N21	AEN18	[B-5]1, [B-9]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
245N22	AEN19	[B-5]1, [B-9]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
246N23	AEN20	[B-5]1, [B-9]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
251NAA	AEK01	[B-113]3, [B-114]3, [B-134]5, [B-136]2, [B-139]1
251NAB	AEK02	[B-113]3, [B-114]3, [B-134]5, [B-136]2, [B-139]1
251NAC	AEK03	[B-113]3, [B-114]3, [B-134]5, [B-136]2, [B-139]1
251NAD	AEK04	[B-113]3, [B-114]3, [B-134]5, [B-136]2, [B-139]1
251NAE	AEK05	[B-113]3, [B-114]3, [B-134]5, [B-136]2, [B-139]1
251NAF	AEK06	[B-113]3, [B-114]3, [B-134]5, [B-136]2, [B-139]1
251NBA	AEK07	[B-113]3, [B-114]3, [B-134]5, [B-136]2, [B-139]1
251NBB	AEK08	[B-113]3, [B-114]3, [B-134]5, [B-136]2, [B-139]1
251NBC	AEK09	[B-113]3, [B-114]3, [B-134]5, [B-136]2, [B-139]1
251NBD	AEK10	[B-113]3, [B-114]3, [B-134]5, [B-136]2, [B-139]1
251NBE	AEK11	[B-113]3, [B-114]3, [B-134]5, [B-136]2, [B-139]1
251NBF	AEK12	[B-113]3, [B-114]3, [B-134]5, [B-136]2, [B-139]1
252NAA	AEK13	[B-115]6, [B-134]5, [B-136]2, [B-139]1
252NAB	AEK14	[B-115]6, [B-134]5, [B-136]2, [B-139]1
260N30	AEN21	[B-5]1, [B-7]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
260NAA	AEW01	[B-27]6, [B-134]5, [B-136]2, [B-139]1
260NAB	AEW02	[B-27]6, [B-134]5, [B-136]2, [B-139]1
260NAC	AEW03	[B-27]6, [B-134]5, [B-136]2, [B-139]1
260NAD	AEW04	[B-27]6, [B-134]5, [B-136]2, [B-139]1
260NAE	AEW05	[B-27]6, [B-134]5, [B-136]2, [B-139]1
260NAF	AEW06	[B-27]6, [B-134]5, [B-136]2, [B-139]1
271NAA	AER01	[B-118]6, [B-134]5, [B-136]2, [B-139]1
271NAB	AER02	[B-119]6, [B-134]5, [B-136]2, [B-139]1
271NAC	AER03	[B-120]6, [B-134]5, [B-136]2, [B-139]1
272NAA	AER04	[B-121]6, [B-134]5, [B-136]2, [B-139]1
272NAB	AER05	[B-122]6, [B-134]5, [B-136]2, [B-139]1
272NAC	AER06	[B-123]6, [B-134]5, [B-136]2, [B-139]1
276NAA	AER17	[B-124]6, [B-134]5, [B-136]2, [B-139]1
276NAB	AER18	[B-125]6, [B-134]5, [B-136]2, [B-139]1
276NAC	AER19	[B-126]6, [B-134]5, [B-136]2, [B-139]1
276NAD	AER20	[B-127]6, [B-134]5, [B-136]2, [B-139]1
277NAA	AER21	[B-128]6, [B-134]5, [B-136]2, [B-139]1

Table B-3
Fastener Type: Internally Threaded and Nonthreaded (Cont'd)

PIN21	PIN18	Table References
277NAB	AER22	[B-129]6, [B-134]5, [B-136]2, [B-139]1
277NAC	AER23	[B-130]6, [B-134]5, [B-136]2, [B-139]1
278NAA	AER24	[B-131]6, [B-134]5, [B-136]2, [B-139]1
278NAB	AER25	[B-132]6, [B-134]5, [B-136]2, [B-139]1
278NAC	AER26	[B-133]6, [B-134]5, [B-136]2, [B-139]1
291N70	AEE01	[B-5]1, [B-7]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
291N71	AEE02	[B-5]1, [B-7]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
292N72	AEE03	[B-5]1, [B-9]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
292N73	AEE04	[B-5]1, [B-9]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
293N74	AEE05	[B-5]1, [B-7]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
293N75	AEE06	[B-5]1, [B-7]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
630N14	AEN22	[B-5]1, [B-7]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
630N15	AEN23	[B-5]1, [B-7]2, [B-14]2, [B-135]6, [B-136]2, [B-138]1
700NAA	AEV20	[B-28]3, [B-29]3, [B-134]5, [B-136]2, [B-139]1
700NAB	AEV21	[B-30]3, [B-31]3, [B-134]5, [B-136]2, [B-139]1
700NAC	AEV23	[B-32]3, [B-33]3, [B-134]5, [B-136]2, [B-139]1
700NAD	AEV24	[B-34]3, [B-35]3, [B-134]5, [B-136]2, [B-139]1
700NAE	AEV25	[B-36]3, [B-37]3, [B-134]5, [B-136]2, [B-139]1
700NAF	AEV26	[B-38]3, [B-39]3, [B-134]5, [B-136]2, [B-139]1
700NAG	AEV27	[B-40]3, [B-41]3, [B-134]5, [B-136]2, [B-139]1
700NAH	AEV28	[B-40]3, [B-41]3, [B-134]5, [B-136]2, [B-139]1
700NAJ	AEV29	[B-40]3, [B-41]3, [B-134]5, [B-136]2, [B-139]1
700NAK	AEV30	[B-42]3, [B-43]3, [B-134]5, [B-136]2, [B-139]1
700NAL	AEV31	[B-42]3, [B-43]3, [B-134]5, [B-136]2, [B-139]1
700NAM	AEV32	[B-44]3, [B-45]3, [B-134]5, [B-136]2, [B-139]1
700NAN	AEV33	[B-44]3, [B-45]3, [B-134]5, [B-136]2, [B-139]1
820NAA	AEP03	[B-50]3, [B-51]3, [B-134]5, [B-136]2, [B-139]1
820NAB	AEP05	[B-52]3, [B-53]3, [B-134]5, [B-136]2, [B-139]1
820NAC	AEP06	[B-54]3, [B-55]3, [B-134]5, [B-136]2, [B-139]1
820NAD	AEP07	[B-56]3, [B-57]3, [B-134]5, [B-136]2, [B-139]1
820NAE	AEP08	[B-58]3, [B-59]3, [B-134]5, [B-136]2, [B-139]1
820NAF	AEP09	[B-60]3, [B-61]3, [B-134]5, [B-136]2, [B-139]1
820NAG	AEP10	[B-62]3, [B-63]3, [B-134]5, [B-136]2, [B-139]1
820NAH	AEP12	[B-62]3, [B-63]3, [B-134]5, [B-136]2, [B-139]1
820NAJ	AEP14	[B-62]3, [B-63]3, [B-134]5, [B-136]2, [B-139]1
820NAK	AEP16	[B-62]3, [B-63]3, [B-134]5, [B-136]2, [B-139]1
820NAL	AEP18	[B-62]3, [B-63]3, [B-134]5, [B-136]2, [B-139]1
820NAM	AEP11	[B-64]3, [B-65]3, [B-134]5, [B-136]2, [B-139]1
820NAN	AEP13	[B-64]3, [B-65]3, [B-134]5, [B-136]2, [B-139]1
820NAP	AEP15	[B-64]3, [B-65]3, [B-134]5, [B-136]2, [B-139]1
820NAQ	AEP17	[B-64]3, [B-65]3, [B-134]5, [B-136]2, [B-139]1
820NAR	AEP19	[B-64]3, [B-65]3, [B-134]5, [B-136]2, [B-139]1
820NAS	AEP20	[B-66]3, [B-67]3, [B-134]5, [B-136]2, [B-139]1
820NAT	AEP21	[B-68]3, [B-69]3, [B-134]5, [B-136]2, [B-139]1
820NAU	AEP22	[B-70]3, [B-71]3, [B-134]5, [B-136]2, [B-139]1
820NAV	AEP23	[B-72]3, [B-73]3, [B-134]5, [B-136]2, [B-139]1
820NAW	AEP24	[B-72]3, [B-73]3, [B-134]5, [B-136]2, [B-139]1
820NAX	AEP25	[B-72]3, [B-73]3, [B-134]5, [B-136]2, [B-139]1
830NAA	AEP26	[B-74]3, [B-75]3, [B-134]5, [B-136]2, [B-139]1

Table B-3
Fastener Type: Internally Threaded and Nonthreaded (Cont'd)

PIN21	PIN18	Table References
830NAB	AEP27	[B-74]3, [B-75]3, [B-134]5, [B-136]2, [B-139]1
830NAC	AEP28	[B-74]3, [B-75]3, [B-134]5, [B-136]2, [B-139]1
840NAA	AEP29	[B-76]3, [B-77]3, [B-134]5, [B-136]2, [B-139]1
840NAB	AEP30	[B-76]3, [B-77]3, [B-134]5, [B-136]2, [B-139]1
850NAA	AEP31	[B-78]3, [B-79]3, [B-134]5, [B-136]2, [B-139]1
850NAB	AEP32	[B-78]3, [B-79]3, [B-134]5, [B-136]2, [B-139]1
860NAA	AEP33	[B-80]3, [B-81]3, [B-134]5, [B-136]2, [B-139]1
870NAA	AEP34	[B-82]3, [B-83]3, [B-134]5, [B-136]2, [B-139]1
870NAB	AEP35	[B-82]3, [B-83]3, [B-134]5, [B-136]2, [B-139]1
870NBA	AEP36	[B-84]3, [B-85]3, [B-134]5, [B-136]2, [B-139]1
870NBB	AEP37	[B-84]3, [B-85]3, [B-134]5, [B-136]2, [B-139]1
880NAA	AEP38	[B-86]3, [B-87]3, [B-134]5, [B-136]2, [B-139]1
880NAB	AEP39	[B-86]3, [B-87]3, [B-134]5, [B-136]2, [B-139]1
880NBA	AEP40	[B-88]3, [B-89]3, [B-134]5, [B-136]2, [B-139]1
880NBB	AEP41	[B-88]3, [B-89]3, [B-134]5, [B-136]2, [B-139]1
881NAA	AEP01	[B-48]3, [B-49]3, [B-134]5, [B-136]2, [B-139]1
881NAB	AEP02	[B-46]3, [B-47]3, [B-134]5, [B-136]2, [B-139]1
890NAA	AEP42	[B-90]3, [B-91]3, [B-134]5, [B-136]2, [B-139]1
890NAB	AEP43	[B-90]3, [B-91]3, [B-134]5, [B-136]2, [B-139]1
890NAC	AEP44	[B-92]3, [B-93]3, [B-134]5, [B-136]2, [B-139]1
890NAD	AEP45	[B-92]3, [B-93]3, [B-134]5, [B-136]2, [B-139]1
890NAE	AEP46	[B-92]3, [B-93]3, [B-134]5, [B-136]2, [B-139]1
890NAF	AEP47	[B-92]3, [B-93]3, [B-134]5, [B-136]2, [B-139]1
890NAG	AEP48	[B-92]3, [B-93]3, [B-134]5, [B-136]2, [B-139]1
890NAH	AEP49	[B-92]3, [B-93]3, [B-134]5, [B-136]2, [B-139]1
890NAJ	AEP50	[B-94]3, [B-95]3, [B-134]5, [B-136]2, [B-139]1
890NAK	AEP52	[B-94]3, [B-95]3, [B-134]5, [B-136]2, [B-139]1
890NAL	AEP53	[B-94]3, [B-95]3, [B-134]5, [B-136]2, [B-139]1

Table B-4
Thread Series: Externally Threaded

PIN21	PIN18
C	C
F	F
G	G
H	H
K	K
L	L
M	M
N	N
R	R
S	S
T	T
U	U
W	W

Table B-5
Thread Series: Internally Threaded

PIN21	PIN18
C	C
D	D
E	E
F	F
G	G
K	S
M	M
T	B

Table B-6
Inch Size: Externally Threaded

PIN21	PIN18	PIN21	PIN18	PIN21	PIN18	PIN21	PIN18
01	060	AB	216	AS	875	D1	C25
02	04A	AC	242	B0	A00	D2	C50
03	034	AD	250	B1	A12	D3	C75
04	021	AE	268	B2	A25	E0	D00
A1	073	AF	294	B3	A37	E1	D25
A2	086	AG	312	B4	A50	E2	D50
A3	099	AH	320	B5	A62	E3	D75
A4	112	AJ	372	B6	A75	F0	E00
A5	125	AK	375	B7	A87	F1	E25
A6	138	AL	438	C0	B00	F2	E50
A7	151	AM	500	C1	B25	F3	E75
A8	164	AN	562	C2	B50	G0	F00
A9	177	AP	625	C3	B75		
AA	190	AR	750	D0	C00		

Table B-7
Inch Size: Internally Threaded

PIN21	PIN18	PIN21	PIN18	PIN21	PIN18	PIN21	PIN18
01	060	AA	190	AP	625	C0	B00
02	04A	AB	216	AR	750	C1	B25
03	034	AC	242	AS	812	C2	B50
04	021	AD	250	AT	875	C3	B75
A1	073	AE	268	AU	938	D0	C00
A2	086	AF	294	B0	A00	D1	C25
A3	099	AG	312	B1	A12	D2	C50
A4	112	AH	320	B2	A25	D3	C75
A5	125	AJ	372	B3	A37	E0	D00
A6	138	AK	375	B4	A50	E1	D25
A7	151	AL	438	B5	A62	E2	D50
A8	164	AM	050	B6	A75	E3	D75
A9	177	AN	562	B7	A87	F0	E00

Table B-8
Metric Size: Externally Threaded

PIN21	PIN18	PIN21	PIN18	PIN21	PIN18	PIN21	PIN18
FA	08A	FU	30C	ML	508	T2	228
FB	107	FV	30E	MM	551	T3	351
FC	10A	FW	33E	MN	06A	T6	631
FD	10B	FX	35C	MQ	07A	T8	802
FE	12A	FZ	39E	MR	08B	TM	42K
FF	12C	GF	10C	MS	952	UF	50C
FG	12B	KM	C0N	MT	10Z	UM	39J
FH	14C	LM	90N	MU	12D	VF	48E
FJ	15A	MA	163	MV	14E	VM	36J
FK	16C	MB	204	MW	16E	WF	45C
FL	17A	MC	224	MX	18F	WM	33H
FM	18C	MD	254	MY	20F	XF	42E
FN	20C	ME	291	MZ	22F	XM	30H
FP	20E	MF	305	NM	80N	YF	40C
FQ	22C	MG	356	PM	72N	YM	27G
FR	24E	MH	407	QM	64N	ZF	39G
FS	25C	MJ	421	RM	56M	ZM	24G
FT	27E	MK	481	SM	48L		

Table B-9
Metric Size: Internally Threaded

PIN21	PIN18	PIN21	PIN18	PIN21	PIN18	PIN21	PIN18
AR	33E	MF	407	MW	64N	RL	18C
BR	33G	MG	508	MX	72N	RM	18E
CR	33H	MH	06A	MY	80N	RN	18F
DR	36E	MJ	10C	MZ	90N	RP	20C
ER	36G	ML	12D	RA	224	RQ	20E
FR	39E	MM	14E	RB	07A	RS	22C
GF	10Z	MN	16E	RC	08A	RT	22E
GR	39G	MP	20F	RD	08B	RU	22F
HR	39J	MQ	24G	RE	10A	RV	24E
MA	163	MR	30H	RF	10B	RW	27E
MB	204	MS	36J	RG	12B	RX	27G
MC	254	MT	42K	RH	12C	RY	30E
MD	305	MU	48L	RJ	14C	RZ	30G
ME	356	MV	56M	RK	16C	ZM	C0N

Table B-10
Inch Miniature Screw Size

PIN21	PIN18
X0	030
X1	035
X2	040
X3	045
X4	050
X5	055
X6	060
X7	070
X8	080
X9	090
XA	100
XB	110
XC	120
XD	140

Table B-11
Inch Length: Externally Threaded

PIN21	PIN18	PIN21	PIN18	PIN21	PIN18	PIN21	PIN18
01	062	17	A00	33	D00	50	H50
02	093	18	A12	34	D25	51	J00
03	125	19	A25	35	D50	52	J50
04	156	20	A37	36	D75	53	K00
05	188	21	A50	37	E00	54	K10
06	250	22	A62	38	E25	55	K20
07	312	23	A75	39	E50	56	K30
08	375	24	A87	40	E75	57	K40
09	438	25	B00	41	F00	58	K50
10	500	26	B25	42	F25	59	K60
11	562	27	B50	43	F50	60	K70
12	625	28	B75	44	F75	61	K80
13	688	29	C00	45	G00	62	K90
14	750	30	C25	46	G25	63	L00
15	812	31	C50	47	G50		
16	875	32	C75	49	H00		

Table B-12
Metric Length: Externally Threaded

PIN21	PIN18	PIN21	PIN18
A0	15M	E5	045
A1	20M	F0	050
A2	25M	F5	055
A3	30M	G0	060
A4	40M	G5	065
A5	50M	H0	070
A6	60M	H5	075
A7	70M	I0	080
A8	80M	J0	090
A9	90M	K0	100
B1	010	K1	110
B2	012	K2	120
B3	013	K3	130
B4	014	K4	140
B6	016	K5	150
B7	017	K6	160
B8	018	K8	180
B9	019	L0	200
C0	020	L2	220
C2	022	L4	240
C5	025	L6	260
D0	030	L8	280
D5	035	M0	300
E0	040		

Table B-14
Length: Internally Threaded

PIN21	PIN18
10	10X
15	15X
20	20X
25	25X
30	30X
NN	000

Table B-15
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
006	062
009	094
012	125
015	156
018	188
021	219
025	250
028	281
031	312
034	344
037	375
040	406
043	438
006	062
009	094
012	125

Table B-13
Inch Miniature Screw Length

PIN21	PIN18
06	250
0N	200
10	500
1N	320
2N	400
3N	600
N0	020
N1	025
N2	032
N3	040
N4	050
N5	060
N6	080
N7	100
N8	120
N9	160

Table B-16
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18
003	031	081	812
006	062	087	875
009	094	093	938
012	125	100	A00
015	156	112	A12
018	188	125	A25
025	250	137	A37
028	281	150	A50
031	312	162	A62
037	375	175	A75
043	438	200	B00
050	500	225	B25
056	562	250	B50
062	625	275	B75
068	688	300	C00
075	750		

Table B-17
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
0006NN	06Z000
0008NN	08Z000
0010NN	10Z000
0012NN	12Z000
0014NN	14Z000
0100NN	010000
0125NN	012000
0150NN	015000
0175NN	017000
0200NN	020000
0250NN	025000
0300NN	030000
0350NN	035000
0400NN	040000
0500NN	050000
0600NN	060000
0700NN	070000
0800NN	080000
0900NN	090000
1000NN	100000
1200NN	120000
1400NN	140000
1600NN	160000
1800NN	180000

Table B-18
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
0100NN	010000
0125NN	012000
0150NN	015000
0175NN	017000
0200NN	020000
0300NN	030000
0350NN	035000
0375NN	0375000
0400NN	040000
0500NN	050000
0600NN	060000
0700NN	070000
0800NN	080000
0900NN	090000
1000NN	100000
1200NN	120000
1400NN	140000
1600NN	160000
1800NN	180000
2000NN	200000

Table B-19
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
005	055
006	060

Table B-20
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
018	188
025	250
031	312
037	375
043	438
050	500
056	562
062	625
075	750
081	812
087	875
093	938
100	A00

Table B-22
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
006	062
012	125
018	188
025	250
031	312
043	138
050	500
056	562
062	625
068	688
075	750
081	812
087	875
100	A00

Table B-21
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
004	040
005	050
006	060
007	070
008	080
010	100
011	110
012	120
013	130
014	140

Table B-23
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
050	500
062	625
075	750
087	875
100	A00
112	A12
125	A25
137	A37
150	A50
162	A62
175	A75

Table B-24
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18	PIN21	PIN18	PIN21	PIN18
010	A10	030	C00	050	E00	072	G25
012	A25	032	C25	052	E25	073	G37
013	A37	033	C75	053	E37	075	G50
015	A50	035	C50	055	E50	076	G62
016	A62	036	C62	057	E62	077	G75
017	A75	037	C75	058	E87	078	G87
018	A87	038	C87	060	F00	080	H00
020	B00	040	D00	062	F25	082	H25
022	B25	042	D25	063	F37	083	H37
023	B37	043	D37	065	F50	085	H50
025	B50	045	D50	066	F62	086	H62
026	B62	046	D62	067	F75	087	H75
027	B75	047	D75	068	F87	088	H87
028	B87	048	D87	070	G00		

Table B-25
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
010	10M
012	12M
014	14M
016	16M
020	20M
025	25M
030	30M
035	35M
040	40M
050	50M
060	60M
070	70M
080	80M
090	90M
100	010
110	011
120	012

Table B-26
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18
002	20M	038	038
003	30M	040	040
004	40M	045	045
005	50M	050	050
006	60M	055	055
008	80M	060	060
010	010	065	065
012	012	070	070
015	015	075	075
018	018	080	080
020	020	085	085
022	022	090	090
025	025	095	095
028	028	100	100
030	030	110	110
032	032	120	120
035	035		

Table B-27
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
0050NN	500000
0062NN	625000
0075NN	750000
0087NN	875000
0100NN	A00000
0112NN	A12000
0125NN	A25000
0137NN	A37000
0150NN	A50000

Table B-28
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
006	061
008	089
009	099
012	123
014	146
018	188
021	217
025	252
031	310

Table B-29
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18	PIN21	PIN18	PIN21	PIN18
006	062	031	312	056	562	081	812
007	078	032	328	057	578	082	828
009	093	034	343	059	593	084	843
010	109	035	359	060	609	085	859
012	125	037	375	062	625	087	875
014	140	039	390	064	640	089	890
015	156	040	406	065	656	090	906
017	171	042	421	067	671	092	921
018	187	043	437	068	687	093	937
020	203	045	453	070	703	095	953
021	218	046	468	071	718	096	968
023	234	048	484	073	734	098	984
025	250	050	500	075	750	100	A00
026	265	051	515	076	765		
028	281	053	531	078	781		
029	296	054	546	079	796		

Table B-30
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
006	061
008	089
012	123
014	146
018	188

Table B-31
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18	PIN21	PIN18	PIN21	PIN18
006	062	031	312	056	562	081	812
007	078	032	328	057	578	082	828
009	093	034	343	059	593	084	843
010	109	035	359	060	609	085	859
012	125	037	375	062	625	087	875
014	140	039	390	064	640	089	890
015	156	040	406	065	656	090	906
017	171	042	421	067	671	092	921
018	187	043	437	068	687	093	937
020	203	045	453	070	703	095	953
021	218	046	468	071	718	096	968
023	234	048	484	073	734	098	984
025	250	050	500	075	750	100	A00
026	265	051	515	076	765		
028	281	053	531	078	781		
029	296	054	546	079	796		

Table B-32
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
014	146
018	188
025	252

Table B-33
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18	PIN21	PIN18	PIN21	PIN18
006	062	031	312	056	562	081	812
007	078	032	328	057	578	082	828
009	093	034	343	059	593	084	843
010	109	035	359	060	609	085	859
012	125	037	375	062	625	087	875
014	140	039	390	064	640	089	890
015	156	040	406	065	656	090	906
017	171	042	421	067	671	092	921
018	187	043	437	068	687	093	937
020	203	045	453	070	703	095	953
021	218	046	468	071	718	096	968
023	234	048	484	073	734	098	984
025	250	050	500	075	750	100	A00
026	265	051	515	076	765		
028	281	053	531	078	781		
029	296	054	546	079	796		

Table B-34
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
014	146
018	188

Table B-35
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18	PIN21	PIN18	PIN21	PIN18
006	062	031	312	056	562	081	812
007	078	032	328	057	578	082	828
009	093	034	343	059	593	084	843
010	109	035	359	060	609	085	859
012	125	037	375	062	625	087	875
014	140	039	390	064	640	089	890
015	156	040	406	065	656	090	906
017	171	042	421	067	671	092	921
018	187	043	437	068	687	093	937
020	203	045	453	070	703	095	853
021	218	046	468	071	718	096	968
023	234	048	484	073	734	098	984
025	250	050	500	075	750	100	A00
026	265	051	515	076	765		
028	281	053	531	078	781		
029	296	054	546	079	796		

Table B-36
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
008	089
012	123
014	146
018	188
021	217
025	252

Table B-37
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18	PIN21	PIN18	PIN21	PIN18
006	062	031	312	056	562	081	812
007	078	032	328	057	578	082	828
009	093	034	343	059	593	084	843
010	109	035	359	060	609	085	859
012	125	037	375	062	625	087	875
014	140	039	390	064	640	089	890
015	156	040	406	065	656	090	906
017	171	042	421	067	671	092	921
018	187	043	437	068	687	093	937
020	203	045	453	070	703	095	953
021	218	046	468	071	718	096	968
023	234	048	484	073	734	098	984
025	250	050	500	075	750	100	A00
026	265	051	515	076	765		
028	281	053	531	078	781		
029	296	054	546	079	796		

Table B-38
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
008	089
012	123
014	146
018	188
021	217
025	252

Table B-39
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18	PIN21	PIN18	PIN21	PIN18
006	062	031	312	056	562	081	812
007	078	032	328	057	578	082	828
009	093	034	343	059	593	084	843
010	109	035	359	060	609	085	859
012	125	037	375	062	625	087	875
014	140	039	390	064	640	089	890
015	156	040	406	065	656	090	906
017	171	042	421	067	671	092	921
018	187	043	437	068	687	093	937
020	203	045	453	070	703	095	953
021	218	046	468	071	718	096	968
023	234	048	484	073	734	098	984
025	250	050	500	075	750	100	A00
026	265	051	515	076	765		
028	281	053	531	078	781		
029	296	054	546	079	796		

Table B-40
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
009	092
012	125
014	146
015	152
018	188
019	190

Table B-41
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18	PIN21	PIN18	PIN21	PIN18
006	062	031	312	056	562	081	812
007	078	032	328	057	578	082	828
009	093	034	343	059	593	084	843
010	109	035	359	060	609	085	859
012	125	037	375	062	625	087	875
014	140	039	390	064	640	089	890
015	156	040	406	065	656	090	906
017	171	042	421	067	671	092	921
018	187	043	437	068	687	093	937
020	203	045	453	070	703	095	953
021	218	046	468	071	718	096	968
023	234	048	484	073	734	098	984
025	250	050	500	075	750	100	A00
026	265	051	515	076	765		
028	281	053	531	078	781		
029	296	054	546	079	796		

Table B-42
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
009	092
012	125
015	152
019	190

Table B-43
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18	PIN21	PIN18	PIN21	PIN18
006	062	031	312	056	562	081	812
007	078	032	328	057	578	082	828
009	093	034	343	059	593	084	843
010	109	035	359	060	609	085	859
012	125	037	375	062	625	087	875
014	140	039	390	064	640	089	890
015	156	040	406	065	656	090	906
017	171	042	421	067	671	092	921
018	187	043	437	068	687	093	937
020	203	045	453	070	703	095	953
021	218	046	468	071	718	096	968
023	234	048	484	073	734	098	984
025	250	050	500	075	750	100	A00
026	265	051	515	076	765		
028	281	053	531	078	781		
029	296	054	546	079	796		

Table B-44
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
092	092
123	123
125	125
146	146
152	152
188	188
190	190

Table B-45
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
250	250
281	281
312	312
328	328
344	344
359	359
375	375
422	422

Table B-46
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
003	031
004	047
006	062
007	078
009	094
010	109
012	120
014	141
015	156
018	188
021	219
025	250
031	312
037	375
043	438
050	500
062	625
075	750

Table B-47
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
050	500
075	750
100	A00
150	A50
200	B00
250	B50
300	C00
350	C35
400	D00
500	E00
600	F00

Table B-48
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
010	A00
018	188
025	250
031	312
037	375
043	438
050	500
062	625
075	750
087	875

Table B-49
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
058	580
077	770
094	940
106	A06
119	A19
136	A36
161	A61
191	A91
216	B16
241	B41

Table B-50
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
006	062
007	078
009	094
010	109
012	125
014	145
015	156
017	172
019	193
021	219
025	250
028	289
034	341
040	409
049	492
059	591
070	706
086	860
103	A03
124	A24
152	A52

Table B-51
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18	PIN21	PIN18	PIN21	PIN18
002	250	030	C00	065	F50	100	K00
003	375	032	C25	067	F75	102	K02
005	500	035	C50	070	G00	105	K05
006	625	037	C75	072	G25	107	K07
007	750	040	D00	075	G50	110	K10
008	875	042	D25	077	G75	112	K12
010	A00	045	D50	080	H00	115	K15
012	A25	047	D75	082	H25	117	K17
015	A50	050	E00	085	H50	120	K20
017	A75	052	E25	087	H75	122	K22
020	B00	055	E50	090	J00	125	K25
022	B25	057	E75	092	J25	127	K27
025	B50	060	F00	095	J50	131	K30
027	B75	062	F25	097	J75		

Table B-52
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
006	062
007	078
009	093
012	125
015	156
018	188
025	250
031	312
037	375
043	438
050	500
062	625
075	750
100	A00

Table B-53
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
018	188
025	250
031	312
037	375
050	500
062	625
075	750
087	875
100	A00
125	A25
150	A50
175	A75
200	B00
225	B25
250	B50
300	C00
400	D00
450	D50
500	E00
550	E50
600	F00

Table B-54
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
006	062
007	078
009	093
012	125
015	156
018	188
025	250
031	312
037	375
043	438
050	500
062	625
075	750
100	A00

Table B-55
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
018	188
025	250
031	312
037	375
050	500
062	625
075	750
087	875
100	A00
125	A25
150	A50
175	A75
200	B00
225	B25
250	B50
300	C00
400	D00
450	D50
500	E00
550	E50
600	F00

Table B-56
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
006	062
007	078
009	093
012	125
015	156
018	187
025	250
031	312
037	375

Table B-57
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
018	188
025	250
031	312
037	375
043	438
050	500
056	562
062	625
068	687
075	750
081	812
087	875
093	937
100	A00
112	A12
125	A25
137	A37
150	A50
162	A62
175	A75
200	B00
225	B25
250	B50
300	C00

Table B-58
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
006	062
009	093
010	109
012	125
015	156
018	188
021	218
025	250
031	312
037	375
043	438
050	500
062	625
075	750
087	875
100	A00

Table B-60
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
006	062
009	093
010	109
012	125
015	156
018	188
021	218
025	250
031	312
037	375
043	438
050	500
062	625
075	750
100	A00

Table B-59
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
025	250
031	312
037	375
043	438
050	500
056	562
062	625
068	688
075	750
081	812
087	875
093	938
100	A00
112	A12
125	A25
137	A37
150	A50
162	A62
175	A75
200	B00
225	B25
250	B50
300	C00

Table B-61
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
025	250
031	312
037	375
043	438
050	500
056	562
062	625
068	688
075	750
081	812
087	875
093	938
100	A00
112	A12
125	A25
137	A37
150	A50
162	A62
175	A75
200	B00
225	B25
250	B50
300	C00

Table B-62
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
003	031
004	046
006	062
007	078
009	093
010	109
012	125
015	156
018	188
021	218
025	250
031	312
037	375
043	438
050	500

Table B-64
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
003	031
004	046
006	062
007	078
009	093
010	109
012	125
015	156
018	188
021	218
025	250
031	312
037	375
043	438
050	500

Table B-63
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18
012	125	162	A62
018	188	175	A75
025	250	187	A87
031	312	200	B00
037	375	212	B12
043	438	225	B25
050	500	250	B50
056	562	275	B75
062	625	300	C00
075	750	325	C25
087	875	350	C50
100	A00	375	C75
112	A12	400	D00
125	A25	425	D25
137	A37	450	D50
150	A50		

Table B-65
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18
012	125	162	A62
018	188	175	A75
025	250	187	A87
031	312	200	B00
037	375	212	B12
043	438	225	B25
050	500	250	B50
056	562	275	B75
062	625	300	C00
075	750	325	C25
087	875	350	C50
100	A00	375	C75
112	A12	400	D00
125	A25	425	D25
137	A37	450	D50
150	A50		

Table B-66
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
067	067
086	086
104	104
120	120
136	136
144	144
161	161
196	196
221	221
250	250

Table B-67
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
125	125
187	188
250	250
312	312
375	375
500	500
625	625
750	750

Table B-68
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
156	156
187	188
250	250
312	312
359	359
500	500

Table B-69
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
075	750
087	875
100	A00
112	A12
125	A25
150	A50
175	A75
200	B00
225	B25
250	B50
275	B75
300	C00

Table B-70
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
006	062
007	078
009	094
012	125
014	141
015	156
018	188
021	219
025	250
031	312
037	375
043	438
050	500
062	625
075	750

Table B-71
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18
012	125	175	A75
018	188	187	A87
025	250	200	B00
031	312	225	B25
037	375	250	B50
043	438	275	B75
050	500	300	C00
056	562	325	C25
062	625	350	C50
068	688	375	C75
075	750	400	D00
081	812	425	D25
087	875	450	D50
093	938	475	D75
100	A00	500	E00
112	A12	525	E25
125	A25	550	E50
137	A37	575	E75
150	A50	600	F00
162	A62		

Table B-73
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18
012	125	175	A75
018	188	187	A87
025	250	200	B00
031	312	225	B25
037	375	250	B50
043	438	275	B75
050	500	300	C00
056	562	325	C25
062	625	350	C50
068	688	375	C75
075	750	400	D00
081	812	425	D25
087	875	450	D50
093	938	475	D75
100	A00	500	E00
112	A12	525	E25
125	A25	550	E50
137	A37	575	E75
150	A50	600	F00
162	A62		

Table B-72
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
003	031
004	047
006	062
007	078
009	094
010	109
015	125
018	156
021	188
025	219
031	250
037	312
043	375
050	438
062	500
075	625
	750

Table B-74
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
008	08M
010	10M
012	12M
015	15M
020	20M
025	25M
030	30M
035	35M
040	40M
050	50M
060	60M
080	80M
100	010
120	012
140	014
160	016
200	020

Table B-75
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18
004	40M	045	045
005	50M	050	050
006	60M	055	055
008	80M	060	060
010	010	065	065
012	012	070	070
014	014	075	075
016	016	080	080
018	018	085	085
020	020	090	090
022	022	095	095
024	024	100	100
026	026	120	120
028	028	140	140
030	030	160	160
032	032	180	180
035	035	200	200
040	040		

Table B-77
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18
004	40M	032	032
005	50M	035	035
006	60M	040	040
008	80M	045	045
010	010	050	050
012	012	055	055
014	014	060	060
016	016	065	065
018	018	070	070
020	020	075	075
022	022	080	080
024	024	085	085
026	026	090	090
028	028	095	095
030	030	100	100

Table B-76
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
015	15M
020	20M
025	25M
030	30M
040	40M
050	50M
060	60M
080	80M
100	010
120	012

Table B-78
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
015	15M
020	20M
025	25M
030	30M
040	40M
050	50M
060	60M
080	80M
100	010
120	012
160	016
200	020
250	025

Table B-79
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18
006	60M	050	050
008	80M	060	060
010	010	070	070
012	012	080	080
016	016	090	090
020	020	100	100
025	025	110	110
030	030	120	120
035	035	130	130
040	040	140	140
045	045	150	150

Table B-82
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18
003	30M	027	027
004	40M	030	030
005	50M	033	033
006	60M	036	036
008	80M	040	040
010	010	045	045
012	012	050	050
014	014	055	055
016	016	060	060
018	018	070	070
020	020	080	080
022	022	090	090
024	024	100	100

Table B-80
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18
006	06M	040	40M
008	08M	050	50M
010	10M	063	63M
012	12M	080	80M
016	16M	100	010
020	20M	130	013
025	25M	160	016
032	32M	200	020

Table B-83
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18
008	80M	060	060
010	010	065	065
012	012	070	070
014	014	075	075
016	016	080	080
018	018	085	085
020	020	090	090
022	022	095	095
024	024	100	100
026	026	120	120
028	028	140	140
030	030	160	160
032	032	180	180
035	035	220	220
040	040	240	240
045	045	260	260
050	050	280	280
055	055	300	300

Table B-81
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18
008	80M	080	080
012	012	090	090
016	016	100	100
022	022	112	112
028	028	125	125
036	036	140	140
045	045	160	160
056	056	180	180
063	063	200	200

Table B-84
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18
003	30M	027	027
004	40M	030	030
005	50M	033	033
006	60M	036	036
008	80M	040	040
010	010	045	045
012	012	050	050
014	014	055	055
016	016	060	060
018	018	070	070
020	020	080	080
022	022	090	090
024	024	100	100

Table B-86
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18
003	30M	027	027
004	40M	030	030
005	50M	033	033
006	60M	036	036
008	80M	040	040
010	010	045	045
012	012	050	050
014	014	055	055
016	016	060	060
018	018	070	070
020	020	080	080
022	022	090	090
024	024	100	100

Table B-85
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18
008	80M	060	060
010	010	065	065
012	012	070	070
014	014	075	075
016	016	080	080
018	018	085	085
020	020	090	090
022	022	095	095
024	024	100	100
026	026	120	120
028	028	140	140
030	030	160	160
032	032	180	180
035	035	220	220
040	040	240	240
045	045	260	260
050	050	280	280
055	055	300	300

Table B-87
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18
006	60M	060	060
008	80M	065	065
010	010	070	070
012	012	075	075
014	014	080	080
016	016	085	085
018	018	090	090
020	020	095	095
022	022	100	100
024	024	120	120
026	026	140	140
028	028	160	160
030	030	180	180
032	032	220	220
035	035	240	240
040	040	260	260
045	045	280	280
050	050	300	300
055	055		

Table B-88
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18
003	30M	027	027
004	40M	030	030
005	50M	033	033
006	60M	036	036
008	80M	040	040
010	010	045	045
012	012	050	050
014	014	055	055
016	016	060	060
018	018	070	070
020	020	080	080
022	022	090	090
024	024	100	100

Table B-89
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18
006	60M	060	060
008	80M	065	065
010	010	070	070
012	012	075	075
014	014	080	080
016	016	085	085
018	018	090	090
020	020	095	095
022	022	100	100
024	024	120	120
026	026	140	140
028	028	160	160
030	030	180	180
032	032	220	220
035	035	240	240
040	040	260	260
045	045	280	280
050	050	300	300
055	055		

Table B-90
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
015	15M
020	20M
025	25M
030	30M
040	40M
050	50M
060	60M
080	80M
100	010
120	012

Table B-91
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18	PIN21	PIN18
008	80M	040	040
010	010	045	045
012	012	050	050
014	014	055	055
016	016	060	060
018	018	065	065
020	020	070	070
022	022	075	075
024	024	080	080
026	026	085	085
028	028	090	090
030	030	095	095
032	032	100	100
035	035		

Table B-92
Dimensions/Other Characteristics: Nonthreaded

PIN21	PIN18
015	15M
020	20M
025	25M
030	30M
040	40M
050	50M
060	60M
080	80M
100	010
120	012