

# FASTENER IDENTIFICATION

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*courtesy of*  
Rockwell International

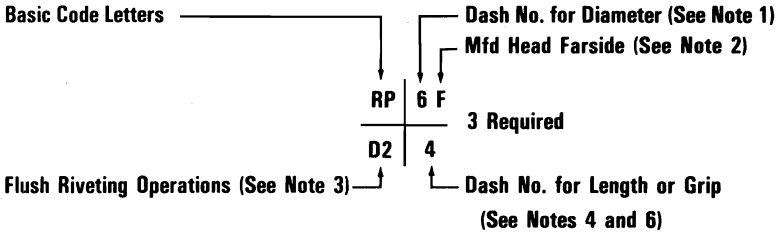
## FASTENER SPECIFICATIONS

FASTENERS	SPECIFICATION NO.	MPP NO.
PANEL FASTENERS	LA0101-005	01L001H01
SOLID RIVETS	LA0101-016	01L002H01
BI-METAL	LA0101-016	01L002H02 & 03
LOCK BOLTS	ST0101LA0003	01L003H01
HI-LOKS	LA0101-015	01L005H01 & 02
THD FAST, STRUCT	ST0101LA0002	01L009H01
THD FAST, NONSTRUCT	ST0101LA002	01L009H03
NUT PLATES	ST0101LA0002	01L009H02
BLIND RIVETS	LA0101-017	01L008H01
1/4 TURN QUICK	LA0101-005	01L001H02
HELI COILS	LA0101-014	01L007H01
KEEN SERTS	LA0101-014	01L007H02
HONEYCOMB INSERT	LA0101-020	01L011H01
SAFETY WIRING	LA0101-019	01L010H01
TAPER-LOKS	ST0101LA0001	01L004H-01
COTTER PINS	LAD101-019	01L010H-02
INTERNALLY THREADED SELF-LOCKING BLIND FASTENERS (HI-SHEAR)	LAD101-018	01L013H-01

## MAXIMUM SPEEDS (HAND-FED OPERATIONS)

DRILL SIZE		ALUMINUM STACKUP (175 SFM)	TITANIUM STACKUP (30 SFM)	STEEL STACKUP (20 SFM)
NUMBER	FRACTION			
48-52	1/16 or Less	10700	1800	1200
42-47	5/64 or Less	8500	1500	1000
36-41	3/32 or Less	7000	1200	800
31-35	7/64 or Less	6100	1000	700
28-30	1/8 or Less	5300	900	600
23-27	9/64 or Less	4800	800	500
18-22	5/32 or Less	4300	750	500
13-17	11/64 or Less	3900	650	450
7-12	3/16 or Less	3600	600	400
3-6	13/64 or Less	3200	550	350
A-2	7/32 or Less	3000	500	350
B-D	15/64 or Less	2850	450	300
F, G	1/4 or Less	2650	450	300
H-K	17/64 or Less	2500	400	250
L, M	9/32 or Less	2300	400	250
N	19/64 or Less	2250	350	250
O, P	5/16 or Less	2100	350	200
Q, R	21/64 or Less	2000	350	200
S, T	11/32 or Less	1900	300	200
U	23/64 or Less	1850	300	200
V, W	3/8 or Less	1750	300	200
X, Y	25/64 or Less	1700	300	200
Z	13/32 or Less	1600	280	180
---	7/16 or Less	1500	250	175
---	15/32 or Less	1400	240	160
---	1/2	1300	230	150

# BLUEPRINT FASTENER CALLOUTS



## NOTES:

1. Dash numbers for fastener shank diameter are obtained from fastener drawings.
2. The location of the manufactured (performed) head of the fastener is defined by the code letter "F" (for far side) or "N" (for near side). When the code letter is omitted, the location of the head is understood to be on the near side, but may be interpreted as optional.
3. Flush riveting operations:

(Sheets are numbered from Mfd head)

D	Dimple Sheet 1	C	Countersink Sheet 1
D2	Dimple Sheets 1 and 2	DC	Dimple Sheet 1; Sub-countersink Sheet 2
D3	Dimple Sheets 1, 2, and 3	D2C	Dimple Sheets 1 and 2; Sub-countersink Sheet 3
D4	Dimple Sheet 1, 2, 3, and 4	D3C	Dimple Sheets 1, 2, and 3; Sub-countersink Sheet 4

4. Dash numbers for length or grip are obtained from fastener drawings and apply to all fasteners except conventional rivets.
5. National Aerospace standard NAS523 is the basis for the fastener code. Only those codes shown on NAS523 shall be used. Improvised codes are prohibited. Codes for preferred parts are reproduced herein. Additional codes are available and new codes can be established.
6. The length is shown by a number which is the dash number that represents the length in the full part number.

ALPHABETICAL CODE LISTING							
BASIC CODE	PAGE NO.	BASIC CODE	PAGE NO.	BASIC CODE	PAGE NO.	BASIC CODE	PAGE NO.
AV	15	RN	11	YH	24	AJN	14
AW	11	RO	15	ZF	26	AJV	19
BA	8	RP	15	ZH	26	AJW	21
BB	8	RR	15	ZK	27	AKA	23
BC	8	RS	15	ZL	27	AKB	25
BF	8	SH	7	ZS	14	AKC	17
BH	6	TK	11	ZV	12	AKD	16
BJ	6	TL	11	AAR	13	AKE	12
BK	6	TM	12	AAW	14	AKF	16
CX	6	TN	12	ABE	22	AKH	22
CY	8	TO	15	ABH	24	AKJ	24
LL	6	TP	15	ACN	26	AKK	22
LN	6	TR	16	ACO	27	AKL	24
LZ	10	TS	16	ADB	13	AKM	23
MA	10	TY	27	ADF	14	AKN	25
MC	9	XA	10	ADJ	14	AKO	23
MM	7	XB	9	AEJ	20	AKP	25
MN	8	XC	7	AEK	18	AKR	23
MO	9	XD	10	AFP	18	AKS	25
NO	22	XE	9	AFY	20	AKV	27
RH	13	XF	7	AJF	17	AKW	27
RK	11	XG	10	AJH	17	AKX	26
RL	11	XH	9	AJL	18	AKY	26
RM	11	XJ	7	AJM	20	ALF	22

### ALPHABETICAL CODE LISTING

BASIC CODE	PAGE NO.	BASIC CODE	PAGE NO.	BASIC CODE	PAGE NO.	BASIC CODE	PAGE NO.
ALH	24	AMO	17	ASL	25	ATH	21
ALJ	22	AMP	17	ASM	25	YAA	28
ALK	24	AMT	15	AST	13	YAB	28
ALP	13	AMX	9	ASU	14	YAC	29
ALR	22	AMY	7	ASY	18	YAD	29
ALS	24	ANE	10	ASZ	18	YAE	28
ALT	23	APJ	14	ATA	19	YAF	28
ALV	25	APK	13	ATB	19	YAG	29
AMA	23	APL	16	ATC	19	YAH	28
AMB	25	APM	12	ATD	20	YAJ	28
AMD	19	APN	16	ATE	20		
AME	21	ASH	16	ATF	21		
AMN	17	ASJ	12	ATG	21		












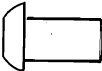
#### USE OF INDEX

Locate desired code alphabetically. Page No. of code on which fastener is found is located adjacent to it.

# CONVENTIONAL RIVETS




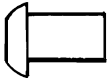



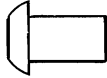

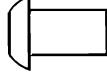



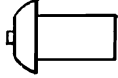
## PROTRUDING HEAD

BASIC CODE	PART NUMBER	IDENTIFICATION
<b>BH</b>	DIA-32nds      LENGTH-16ths <b>MS20470A-X-X</b>	PLAIN  
<b>BJ</b>	DIA-32nds      LENGTH-16ths <b>MS20470AD-X-X</b>	DIMPLED  
<b>BK</b>	DIA-32nds      LENGTH-16ths <b>MS20470B-X-X</b>	RAISED CROSS  
<b>CX</b>	DIA-32nds      LENGTH-16ths <b>MS20470DD-X-X</b>	RAISED DOUBLE DASH  
<b>LL</b>	DIA-32nds      LENGTH-16ths <b>MS20613P-X-X</b>	RECESSED TRIANGLE  
<b>LN</b>	DIA-32nds      LENGTH-16ths <b>MS20615M-X-X</b>	TWO RECESSED DOTS  

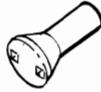
# CONVENTIONAL RIVETS




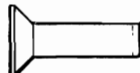

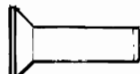

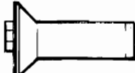

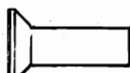



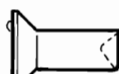
## PROTRUDING HEAD

BASIC CODE	PART NUMBER	IDENTIFICATION
<b>SH</b>	<p style="text-align: center;">DIA-32nds      LENGTH-16ths</p> <p style="text-align: center;">MS20615MP-X-X</p>	<p>TWO RECESSED DOTS</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p style="text-align: right;">CADMIUM PLATED</p>
<b>MM</b>	<p style="text-align: center;">DIA-32nds      LENGTH-16ths</p> <p style="text-align: center;">NAS1198-X-X</p>	<p>RAISED DOT</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p style="text-align: right;">DIMPLE</p>
<b>XC</b>	<p style="text-align: center;">LENGTH-16ths</p> <p style="text-align: center;">LD121-0006-0XXX</p> <p style="text-align: center;">DIA-32nds</p> <p style="text-align: center;">LD121-0006-1XXX</p> <p style="text-align: center;">INACTIVE FOR DESIGN USE CODE XJ</p> <p style="text-align: center;">LENGTH-16ths</p>	<p>INDENTED SQUARE</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p style="text-align: right;">VIOLET COLOR</p>
<b>XF</b>	<p style="text-align: center;">LENGTH-16ths</p> <p style="text-align: center;">LD121-0006-2XXX</p> <p style="text-align: center;">DIA-32nds</p> <p style="text-align: center;">LD121-0006-3XXX</p> <p style="text-align: center;">LENGTH-16ths</p>	<p>INDENTED SQUARE</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p style="text-align: right;">BLUE COLOR</p>
<b>AMY</b>	<p style="text-align: center;">DIA-32nds      LENGTH-16ths</p> <p style="text-align: center;">CSR903B-X-X</p>	<p>MFRS ID</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p>DEPRESSED DOT</p>
<b>XJ</b>	<p style="text-align: center;">DIA-32nds      LENGTH-16ths</p> <p style="text-align: center;">LD121-0009-XX-XX</p>	<p>RAISED CIRCLE</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div>

# CONVENTIONAL RIVETS



# COUNTERSUNK HEAD


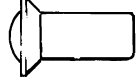

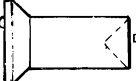

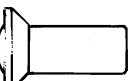

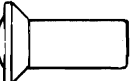



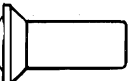
BASIC CODE	PART NUMBER	IDENTIFICATION
<b>BA</b>	<p>DIA-32nds      LENGTH-16ths</p> <p><b>MS20426A-X-X</b></p>	<p>PLAIN</p>  
<b>BB</b>	<p>DIA-32nds      LENGTH-16ths</p> <p><b>MS20426AD-X-X</b></p>	<p>DIMPLED</p>  
<b>BC</b>	<p>DIA-32nds      LENGTH-16ths</p> <p><b>MS20426B-X-X</b></p>	<p>RAISED CROSS</p>  
<b>CY</b>	<p>DIA-32nds      LENGTH-16ths</p> <p><b>MS20426DD-X-X</b></p>	<p>DOUBLE DASH</p>  
<b>BF</b>	<p>DIA-32nds      LENGTH-16ths</p> <p><b>MS20427M-X-X</b></p>	<p>RECESSED MARK</p>  
<b>MN</b>	<p>DIA-32nds      LENGTH-16ths</p> <p><b>NAS1199-X-X</b></p>	<p>RAISED DOT</p>   <p>DIMPLE</p>


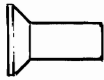

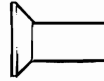

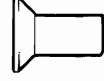

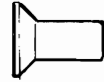

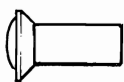

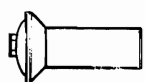


# CONVENTIONAL RIVETS

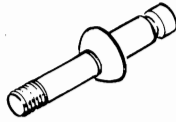


# COUNTERSUNK HEAD

BASIC CODE	PART NUMBER	IDENTIFICATION
<b>MC</b>	<p>DIA-32nds      LENGTH-16ths</p> <p><b>NAS1097DD-X-X</b></p>	<p>DOUBLE DASH</p>  
<b>MO</b>	<p>DIA-32nds      LENGTH-16ths</p> <p><b>NAS1200-X-X</b></p>	<p>RAISED DOT</p>   <p>DIMPLE</p>
<b>XB</b>	<p>DIA-32nds      LENGTH-16ths</p> <p><b>LD121-0005-0XXX</b></p> <p>(INACTIVE FOR DESIGN - USE CODE XH)</p>	<p>INDENTED SQUARE</p>   <p>VIOLET COLOR</p>
<b>XE</b>	<p>DIA-32nds      LENGTH-16ths</p> <p><b>LD121-0005-2XXX</b></p> <p>(INACTIVE FOR DESIGN - USE CODE XH)</p>	  <p>USE XH</p> <p>BLUE COLOR</p>
<b>AMX</b>	<p>DIA-32nds      LENGTH-16ths</p> <p><b>CSR904B-X-X</b></p>	<p>MFRS ID</p>   <p>DEPRESSED DOT</p>
<b>XH</b>	<p>LENGTH-16ths</p> <p><b>LD121-0008-XXXX</b></p> <p>DIA-32nds</p>	<p>RAISED CIRCLE</p> <p>CROWNED HEAD</p>  

CONVENTIONAL RIVETS		COUNTERSUNK HEAD	
BASIC CODE	PART NUMBER	IDENTIFICATION	
<b>XA</b>	LENGTH-16ths LD121-0004-0XXX DIA-32nds LD121-0004-1XXX LENGTH-16ths (INACTIVE FOR DESIGN - USE CODE XG)	INDENTED SQUARE	  VIOLET COLOR
	LENGTH-16ths LD121-0004-2XXX DIA-32nds LD121-0004-3XXX (INACTIVE FOR DESIGN - USE CODE XG) LENGTH-16ths	INDENTED SQUARE	  BLUE COLOR
<b>ANE</b>	DIA-32nds      LENGTH-16ths CSR902B-X-X	MFRS ID  DEPRESSED DOT	
<b>XG</b>	LENGTH-16ths LD121-0007-XXXX DIA-32nds	RAISED CIRCLE	 
<b>LZ</b>	DIA-32nds      LENGTH-16ths NAS1097AD-X-X	DIMPLE	CROWNED HEAD  
<b>MA</b>	DIA-32nds      LENGTH-16ths NAS1097B-X-X	RAISED CROSS	CROWNED HEAD  

# BLIND RIVETS


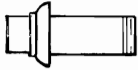



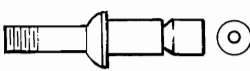

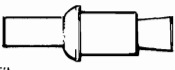

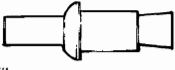

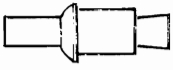

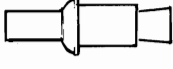


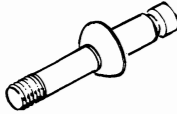

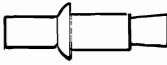

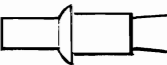



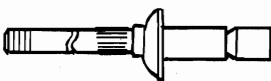
## PROTRUDING HEAD

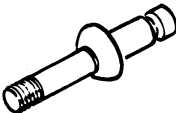
BASIC CODE

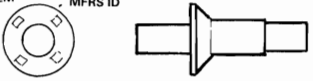


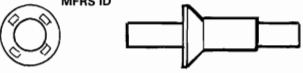
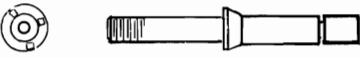
PART NUMBER

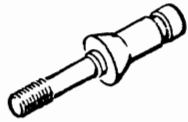
IDENTIFICATION

BASIC CODE	PART NUMBER	IDENTIFICATION	
<b>AW</b>	<b>6951-S-X-X</b> DIA-32nds GRIP-16ths		 STAINLESS STEEL
<b>RK</b>	<b>NAS1398BX-X</b> DIA-32nds GRIP-16ths	 MFRS ID	 ORANGE COLOR INDENTED DOT OR CONE
<b>RL</b>	<b>NAS1398DX-X</b> DIA-32nds GRIP-16ths	 MFRS ID	 YELLOW COLOR
<b>RM</b>	<b>NAS1398MX-X</b> DIA-32nds GRIP-16ths	 MFRS ID	 "M" MAT'L CODE GRAY COLOR
<b>RN</b>	<b>NAS1398CX-X</b> DIA-32nds GRIP-16ths	 MFRS ID	 "C" MAT'L CODE GRAY COLOR
<b>TK</b>	<b>NAS1398MWX-X</b> DIA-32nds GRIP-16ths	 MFRS ID	 CAD PLATED SLEEVE
<b>TL</b>	<b>NAS1398MS-X-X</b> DIA-32nds GRIP-16ths	 MFRS ID	 SILVER PLATED SLEEVE

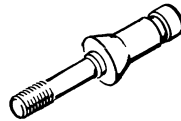
<b>BLIND RIVETS</b> 		<b>PROTRUDING HEAD</b>	
BASIC CODE	PART NUMBER	IDENTIFICATION	
<b>TM</b>	DIA-32nds    GRIP-16ths <b>NAS1398CW-X-X</b>	GRIP NO. OPTIONAL  MFRS ID    "C" MAT'L CODE RECESSED CONE  CAD PLATED SLEEVE	
<b>TN</b>	DIA-32nds    GRIP-16ths <b>NAS1398CS-X-X</b>	GRIP NO. OPTIONAL  MFRS ID    "C" MAT'L CODE SILVER PLATED SLEEVE	
<b>AKE</b>	DIA-32nds    GRIP-16ths <b>CR2A63-X-X</b>	INACTIVE FOR DESIGN USE CODE APM	
<b>APM</b>	DIA-32nds    GRIP-16ths <b>CR2A63A-X-X</b>	MFRS ID  GRIP NO.    MAT'L CODE GOLD COLOR	
<b>ASJ</b>	DIA-32nds    GRIP-16ths <b>CR2163A-X-X</b>	MFRS ID  GRIP NO.	 GOLD COLOR
<b>ZV</b>	DIA-32nds    GRIP-16ths <b>CR2539-X-X</b>	INACTIVE FOR DESIGN USE CODE AAR	

BLIND RIVETS			PROTRUDING HEAD
BASIC CODE	PART NUMBER	IDENTIFICATION	
AAR	NAS1738MX-X DIA-32nds GRIP-16ths	- = INCONEL STEM GRIP NO.	MFRS ID SLEEVE CODE "M"
ADB	CR2839-X-X DIA-32nds GRIP-16ths	- = INCONEL STEM GRIP NO.	MFRS ID RECESSED CONE MATERIAL M - MONEL I - INCONEL
ALP	CR2A39-X-X DIA-32nds GRIP-16ths	INACTIVE FOR DESIGN USE CODE APK	
APK	CR2A39AX-X DIA-32nds GRIP-16ths	+ = INCONEL STEM GRIP NO.	MFRS ID MATERIAL M - MONEL I - INCONEL
AST	NAS1738CX-X DIA-32nds GRIP-16ths	+ = INCONEL STEM GRIP NO.	MFRS ID SLEEVE CODE "C"
RH	CR2643-X-X DIA-32nds GRIP-16ths	MAT'L CODE "C" GRIP NO.	MFRS ID BLACK COLOR




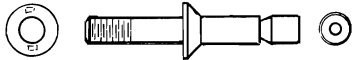
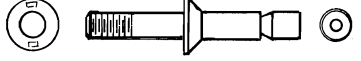
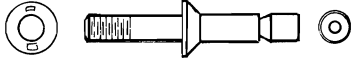

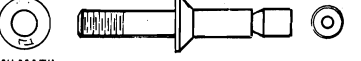
BLIND RIVETS		COUNTERSUNK HEAD
BASIC CODE	PART NUMBER	IDENTIFICATION
<b>ZS</b>	CR2538-X-X DIA-32nds GRIP-16ths	INACTIVE FOR DESIGN USE CODE AAW
<b>AAW</b>	NAS1739MX-X DIA-32nds GRIP-16ths	+ = INCONEL STEM MFRS ID  GRIP NO. SLEEVE CODE "M"
<b>ADJ</b>	CR2838-X-X DIA-32nds GRIP-16ths	+ = INCONEL STEM MFRS ID  GRIP NO. MATERIAL M - MONEL I - INCONEL
<b>AJN</b>	CR2A38-X-X DIA-32nds GRIP-16ths	INACTIVE FOR DESIGN USE CODE APJ
<b>APJ</b>	CR2A38AX-X DIA-32nds GRIP-16ths	+ = INCONEL STEM MFRS ID  GRIP NO. MATERIAL M - MONEL I - INCONEL
<b>ASU</b>	NAS1739CX-X DIA-32nds GRIP-16ths	+ = INCONEL STEM MFRS ID  GRIP NO. SLEEVE CODE "M"
<b>ADF</b>	CR2664-X-X DIA-32nds GRIP-16ths	MAT'L CODE "C" MFRS ID  GRIP NO. SMALL SHEAR HEAD

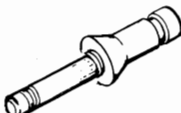

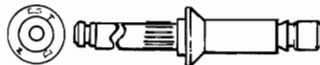
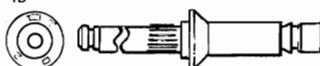



# BLIND RIVETS

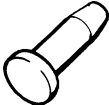

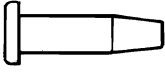
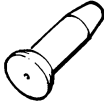

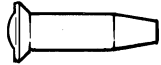

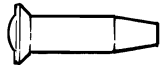



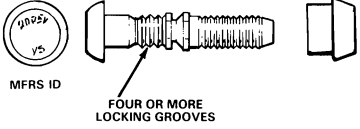
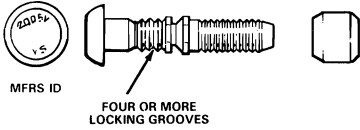
## COUNTERSUNK HEAD

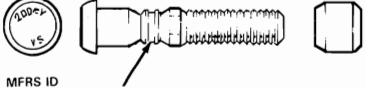
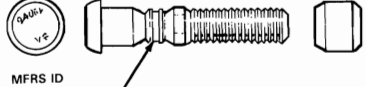
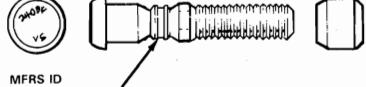
BASIC CODE	PART NUMBER	IDENTIFICATION
<b>AMT</b>	CCR264CS-X-X <small>DIA-32nds GRIP-16ths</small>	PLAIN HEAD 
<b>AV</b>	6950-S-X-X <small>DIA-32nds GRIP-16ths</small>	 STAINLESS STEEL
<b>RO</b>	NAS1399BX-X <small>DIA-32nds GRIP-16ths</small>	GRIP NO. OPTIONAL RECESSED CONE  MFRS ID ORANGE COLOR
<b>RP</b>	NAS1399DX-X <small>DIA-32nds GRIP-16ths</small>	GRIP NO. OPTIONAL  MFRS ID YELLOW COLOR
<b>RR</b>	NAS1399MX-X <small>DIA-32nds GRIP-16ths</small>	GRIP NO. OPTIONAL  "M" MAT'L CODE GRAY COLOR
<b>RS</b>	NAS1399CX-X <small>DIA-32nds GRIP-16ths</small>	GRIP NO. OPTIONAL  "C" MAT'L CODE GRAY COLOR
<b>TO</b>	NAS1399MW-X-X <small>DIA-32nds GRIP-16ths</small>	GRIP NO. OPTIONAL  "M" MAT'L CODE CAD PLATED SLEEVE
<b>TP</b>	NAS199MS-X-X <small>DIA-32nds GRIP-16ths</small>	GRIP NO. OPTIONAL  "M" MAT'L CODE SILVER PLATED SLEEVE








BLIND RIVETS		COUNTERSUNK HEAD	
BASIC CODE	PART NUMBER	IDENTIFICATION	
TR	NAS1399CW-X-X DIA-32nds GRIP-16ths	GRIP NO. OPTIONAL RECESSED CONE "C" MAT'L CODE CAD PLATED SLEEVE	
TS	NAS1399CS-X-X DIA-32nds GRIP-16ths	GRIP NO. OPTIONAL "C" MAT'L CODE SILVER PLATED SLEEVE	
ASH	CR2162A-X-X DIA-32nds GRIP-16ths	MFRS ID GRIP NO. GOLD COLOR	
AKD	CR2A62-X-X DIA-32nds GRIP-16ths	INACTIVE FOR DESIGN USE CODE APL	
APL	CR2A62A-X-X DIA-32nds GRIP-16ths	MFRS ID GRIP NO. MAT'L CODE GOLD COLOR	
AKF	CR2A64-X-X DIA-32nds GRIP-16ths	INACTIVE FOR DESIGN USE CODE APN	
APN	CR2A64A-X-X DIA-32nds GRIP-16ths	MFRS ID GRIP NO. MAT'L CODE GOLD COLOR	



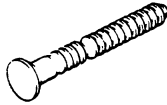
BI-METAL RIVETS			PROTRUDING HEAD
BASIC CODE	PART NUMBER	IDENTIFICATION	
<b>AJH</b>	CSR 915-( )-( )	INACTIVE FOR DESIGN USE CODE AMP	
<b>AMP</b>	DIA-32nds      GRIP-16ths CSR 925-( )-( ) (R) HALF SIZE GRIP	DEPRESSED DOT  GRIP NO	MFRS ID  MATL CODE
BI-METAL RIVETS			COUNTERSUNK HEAD
		IDENTIFICATION	
<b>AJF</b>	CSR 914-( )-( )	INACTIVE FOR DESIGN USE AMO	
<b>AMO</b>	DIA-32nds      GRIP-16ths CSR 924-( )-( )	DEPRESSED DOT  GRIP NO	MFRS ID  MATL CODE
<b>AKC</b>	CSR 912-( )-( )	INACTIVE FOR DESIGN USE AMN	
<b>AMN</b>	DIA-32nds      GRIP-16ths CR 922-( )-( ) (R) HALF SIZE GRIP	DEPRESSED DOT  GRIP NO	MFRS ID  MATL CODE

<b>LOCKBOLTS</b>			<b>PROTRUDING HEAD</b>
BASIC CODE	PART NUMBER	IDENTIFICATION	
<b>AFP</b>	DIA-32nds      GRIP-16ths PIN-NAS 2005V( ) thru NAS 2012V( ) COLLAR-1080-2AC( ) DIA 32nds	<b>Inactive for Design Use ASY</b>	
<b>ASY</b>	DIA-32nds      GRIP-16ths PIN-NAS 2005V( ) thru NAS 2012V( ) COLLAR-NAS 1080 AT( ) DIA 32nds	LARGE TENSION HEAD DIA    MATL  MFRS ID FOUR OR MORE LOCKING GROOVES	VIOLET COLOR
<b>AJL</b>	DIA-32nds      GRIP-16ths PIN-NAS 2005V( ) thru NAS 2012V( ) COLLAR-6DC-EU( ) DIA 32nds	<b>Inactive for Design Use ASZ</b>	
<b>ASZ</b>	DIA-32nds      GRIP-16ths PIN-NAS 2005V( ) thru NAS 2012V( ) COLLAR-NAS 1080 UK( ) DIA 32nds	LARGE TENSION HEAD DIA    MATL  MFRS ID FOUR OR MORE LOCKING GROOVES	BLACK COLOR
<b>AEK</b>	DIA-32nds      GRIP-16ths PIN NAS 2406V( ) thru NAS 2412V( ) COLLAR-2DC-2AC( ) DIA-32nds	<b>Inactive for Design Use ATA</b>	

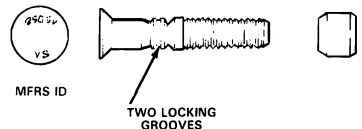
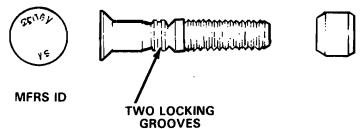
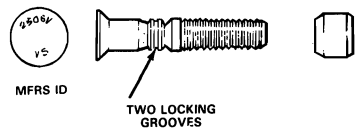
BASIC CODE	PART NUMBER	IDENTIFICATION
<b>ATA</b>	<p style="text-align: center;">DIA-32nds      GRIP-16ths</p> <p>PIN-NAS 2406V( ) thru NAS 2412V( ) COLLAR-NAS 1080 AG( )</p> <p style="text-align: center;">DIA-32nds</p>	<p style="text-align: right;">PROTRUDING HEAD</p> <p>SMALL SHEAR HEAD DIA MATL</p> <p style="text-align: right;">VIOLET COLOR</p>  <p>MFRS ID</p> <p style="text-align: center;">TWO LOCKING GROOVES</p>
<b>AJV</b>	<p style="text-align: center;">DIA-32nds      GRIP-16ths</p> <p>PIN-NAS 2406V( ) thru NAS 2412V( ) COLLAR-6DC-EU( )</p> <p style="text-align: center;">DIA-32nds</p>	<p style="text-align: center;">Inactive for Design Use AMD</p>
<b>AMD</b>	<p style="text-align: center;">DIA-32nds      GRIP-16ths</p> <p>PIN-NAS 2406V( ) thru NAS 2408V( ) COLLAR-DC-M( )E</p> <p style="text-align: center;">DIA 32nds</p>	<p style="text-align: center;">Inactive for Design Use ATC</p>
<b>ATC</b>	<p style="text-align: center;">DIA-32nds      GRIP-16ths</p> <p>PIN-NAS 2406V( ) and NAS 2408V( ) COLLAR-NAS 1080 MK( )</p> <p style="text-align: center;">DIA 32nds</p>	<p style="text-align: right;">BLACK COLOR</p> <p>SMALL SHEAR HEAD DIA MATL</p>  <p>MFRS ID</p> <p style="text-align: center;">TWO LOCKING GROOVES</p>
<b>ATB</b>	<p style="text-align: center;">DIA-32nds      GRIP-16ths</p> <p>PIN-NAS 2406V( ) thru NAS 2412V( ) COLLAR-NAS 1080 UK( )</p> <p style="text-align: center;">DIA-32nds</p>	<p>SMALL SHEAR HEAD DIA MATL</p>  <p>MFRS ID</p> <p style="text-align: center;">TWO LOCKING GROOVES</p> <p style="text-align: right;">BLACK COLOR</p>

BASIC CODE	PART NUMBER	IDENTIFICATION
<b>AFY</b>	<p style="text-align: center;">DIA-32nds      GRIP-16ths</p> <p><b>PIN-NAS 2105V( )</b>  <b>thru NAS 2112V( )</b>  <b>COLLAR-1080-2AC( )</b></p> <p style="text-align: right;">DIA 32nds</p>	<p style="text-align: center;"><b>LOCKBOLTS</b></p>  <p style="text-align: right;"><b>COUNTERSUNK HEADS</b></p> <p style="text-align: center;"><b>Inactive for Design Use ATD</b></p>
<b>ATD</b>	<p style="text-align: center;">DIA-32nds      GRIP-16ths</p> <p><b>PIN-NAS 2105V( )</b>  <b>thru NAS 2112V( )</b>  <b>COLLAR-NAS 1080 AT( )</b></p> <p style="text-align: right;">DIA 32nds</p>	<p><b>LARGE TENSION HEAD</b></p> <p>DIA    MATL</p>  <p>MFRS ID</p>  <p>FOUR OR MORE LOCKING GROOVES</p>  <p style="text-align: right;"><b>VIOLET COLOR</b></p>
<b>AJM</b>	<p style="text-align: center;">DIA-32nds      GRIP-16ths</p> <p><b>PIN-NAS 2105V( )</b>  <b>thru NAS 2112V( )</b>  <b>COLLAR-6DC-EU( )</b></p> <p style="text-align: right;">DIA 32nds</p>	<p style="text-align: center;"><b>Inactive for Design Use ATE</b></p>
<b>ATE</b>	<p style="text-align: center;">DIA-32nds      GRIP-16ths</p> <p><b>PIN-NAS 2105V( )</b>  <b>thru NAS 2112V( )</b>  <b>COLLAR-NAS 1080 UK( )</b></p> <p style="text-align: right;">DIA 32nds</p>	<p><b>LARGE TENSION HEAD</b></p> <p>DIA    MATL</p>  <p>MFRS ID</p>  <p>FOUR OR MORE LOCKING GROOVES</p>  <p style="text-align: right;"><b>BLACK COLOR</b></p>
<b>AEJ</b>	<p style="text-align: center;">DIA-32nds      GRIP-16ths</p> <p><b>PIN NAS 2506V( )</b>  <b>thru NAS 2512V( )</b>  <b>COLLAR-2DC-2AC( )</b></p> <p style="text-align: right;">DIA 32nds</p>	<p style="text-align: center;"><b>Inactive for Design Use ATF</b></p>

# LOCKBOLTS

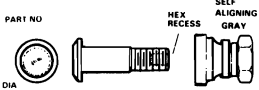

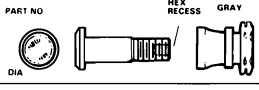

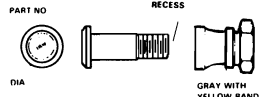

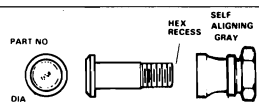

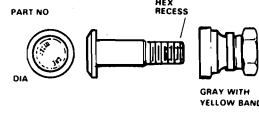

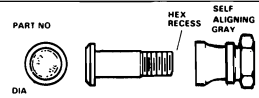



# COUNTERSUNK HEADS


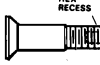



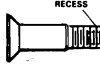











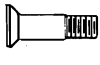










BASIC CODE	PART NUMBER	IDENTIFICATION
<b>ATF</b>	<p style="text-align: center;">DIA-32nds      GRIP-16ths</p> <p>PIN NAS 2506V( ) thru NAS 2512V( ) <b>COLLAR-NAS 1080 AG( )</b></p> <p style="text-align: right;">DIA 32nds</p>	<p>SMALL SHEAR HEAD <span style="float: right;">VIOLET COLOR</span></p> <p>DIA MATL</p>  <p>MFRS ID</p> <p>TWO LOCKING GROOVES</p>
<b>AJW</b>	<p style="text-align: center;">DIA-32nds      GRIP-16ths</p> <p>PIN-NAS 2506V( ) thru NAS 2512V( ) <b>COLLAR-6DC-EU( )</b></p> <p style="text-align: right;">DIA 32nds</p>	<p><b>Inactive for Design Use AME</b></p>
<b>AME</b>	<p style="text-align: center;">DIA-32nds      GRIP-16ths</p> <p>PIN-NAS 2506V( ) thru NAS 2508V( ) <b>COLLAR-DC-M( )E</b></p> <p style="text-align: right;">DIA 32nds</p>	<p><b>Inactive for Design Use ATH</b></p>
<b>ATG</b>	<p style="text-align: center;">DIA-32nds      GRIP-16ths</p> <p>PIN-NAS 2506V( ) thru NAS 2512V( ) <b>COLLAR-NAS 1080 UK( )</b></p> <p style="text-align: right;">DIA 32nds</p>	<p>SMALL SHEAR HEAD <span style="float: right;">BLACK COLOR</span></p> <p>DIA MATL</p>  <p>MFRS ID</p> <p>TWO LOCKING GROOVES</p>
<b>ATH</b>	<p style="text-align: center;">DIA-32nds      GRIP-16ths</p> <p>PIN-NAS 2506V( ) and NAS 2508V( ) <b>COLLAR-NAS 1080 MK( )</b></p> <p style="text-align: right;">DIA 32nds</p>	<p>SMALL SHEAR HEAD <span style="float: right;">BLACK COLOR</span></p> <p>DIA MATL</p>  <p>MFRS ID</p> <p>TWO LOCKING GROOVES</p>

HI-LOK BOLTS		PROTRUDING HEAD	ALTERNATE
BASIC CODE	PART NUMBER	IDENTIFICATION	COUNTERBORE HEX NUT TORQUE CONTROL TOOLING REQUIRED
<b>NO</b>	DIA 32nds GRIP 16ths PIN-HL10V-( )-( ) NUT-HL70-( ) DIA 32nds	PART NO 	RED  LE114-0030-( )
<b>ABE</b>	DIA 32nds GRIP 16ths PIN-HL10V-( )-( ) NUT-HL82-( ) ADW DIA 32nds	PART NO 	SELF ALIGNING RED  LE114-0034-( )
<b>AKH</b>	DIA 32nds GRIP 16ths PIN-HL644LL-( )-( ) NUT-HL94DU-( ) DIA 32nds	PART NO 	GRAY  LE114-0032-( )
<b>AKK</b>	DIA 32nds GRIP 16ths PIN-HL644LL-( )-( ) NUT-HL175DU-( ) ADW DIA 32nds	PART NO 	GRAY  LE114-0036-( )
<b>ALF</b>	DIA 32nds GRIP 16ths PIN-HL40-( )-( ) NUT-HL94DU-( ) DIA 32nds	PART NO 	GRAY  LE114-0032-( )
<b>ALJ</b>	DIA 32nds GRIP 16ths PIN-HL40-( )-( ) NUT-HL175DU-( ) ADW DIA 32nds	PART NO 	SELF ALIGNING GRAY  LE114-0036-( )
<b>ALR</b>	DIA 32nds GRIP 16ths PIN-HL40-( )-( ) NUT-HL97DJ-( ) DIA 32nds	PART NO 	GRAY  LE114-0033

NA 205

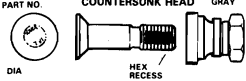
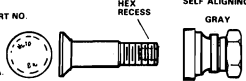
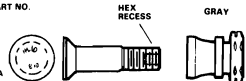
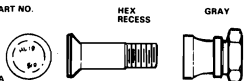
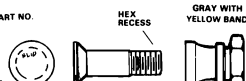


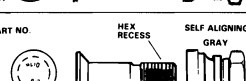
BASIC CODE	PART NUMBER	PROTRUDING HEAD	ALTERNATE
		IDENTIFICATION	COUNTERBORE HEX NUT TORQUE CONTROL TOOLING REQUIRED
ALT	DIA 32nds GRIP 16ths PIN-HL40-( )-( ) NUT-HL185DU-( ) ADW DIA 32nds	PART NO DIA  HEX RECESS SELF ALIGNING GRAY	SELF ALIGNING GRAY  LE114-0037-( )
AMA	DIA 32nds GRIP 16ths PIN-HL10V-( )-( ) NUT-HL94DU-( ) DIA 32nds	PART NO DIA  HEX RECESS GRAY	GRAY  LE114-0032-( )
AKA	DIA 32nds GRIP 16ths PIN-HL646LL-( )-( ) NUT-HL73DY-( ) OR HL73DU-( ) DIA 32nds	PART NO DIA  HEX RECESS GRAY WITH YELLOW BAND	GRAY YELLOW BAND  LE114-0031
AKM	DIA 32nds GRIP 16ths PIN-HL646LL-( )-( ) NUT-HL89DU-( ) ADW DIA 32nds	PART NO DIA  HEX RECESS SELF ALIGNING GRAY	SELF ALIGNING GRAY YELLOW BAND  LE114-0035
AKO	DIA 32nds GRIP 16ths PIN-HL12V-( )-( ) NUT-HL73DY-( ) OR HL73DU-( ) DIA 32nds	PART NO DIA  HEX RECESS GRAY WITH YELLOW BAND	GRAY YELLOW BAND  LE114-0031
AKR	DIA 32nds GRIP 16ths PIN-HL12V-( )-( ) NUT-HL89DU-( ) ADW DIA 32nds	PART NO DIA  HEX RECESS SELF ALIGNING GRAY	GRAY YELLOW BAND  LE114-0035

NA 203

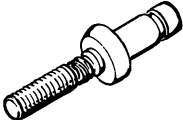



HI-LOK BOLTS		COUNTERSUNK HEAD	ALTERNATE
BASIC CODE	PART NUMBER	IDENTIFICATION	COUNTERBORE HEX NUT TORQUE CONTROL TOOLING REQUIRED
YH	DIA-32nds GRIP-16ths PIN-HL11V-( )-( ) NUT-HL70-( )	PART NO.    DIA.	 LE114-0030
ABH	DIA-32nds GRIP-16ths PIN-HL11V-( )-( ) NUT-HL82-( ) ADW	PART NO.    DIA.	 LE114-0034
AKJ	DIA-32nds GRIP-16ths PIN-HL645LL-( )-( ) NUT-HL94DU-( )	PART NO.    DIA.	 LE114-0032
AKL	DIA-32nds GRIP-16ths PIN-HL645LL-( )-( ) NUT-HL175DU-( ) ADW	PART NO.    DIA.	 LE114-0036-( )
ALH	DIA-32nds GRIP-16ths PIN-HL41-( )-( ) NUT-HL94DU-( )	PART NO.    DIA.	 LE114-0032
ALK	DIA-32nds GRIP-16ths PIN-HL41-( )-( ) NUT-HL175DU-( ) ADW	PART NO.    DIA.	 LE114-0036
ALS	DIA-32nds GRIP-16ths PIN-HL41-( )-( ) NUT-HL97DJ-( )	PART NO.    DIA.	 LE114-0033-( )




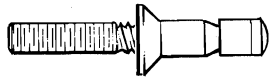




NA 202

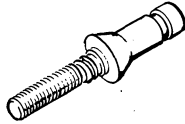


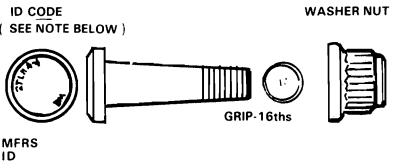
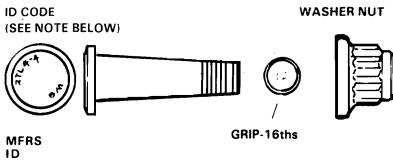
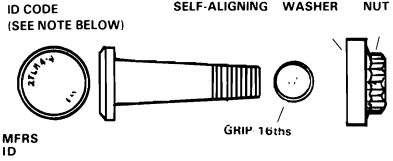
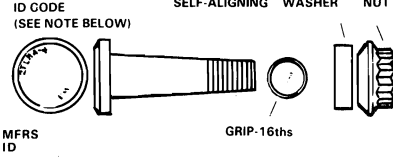
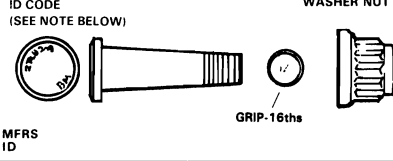
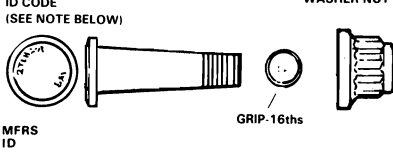
BASIC CODE	HI-LOK BOLTS	COUNTERSUNK HEAD	ALTERNATE
	PART NUMBER	IDENTIFICATION	COUNTERBORE HEX NUT TORQUE CONTROL TOOLING REQUIRED
ASM	DIA-32nds GRIP-16ths PIN-HL233-( )-( ) NUT-HL584-( ) AW DIA-32nds	PART NO.      COUNTERSUNK HEAD      GRAY  DIA      HEX RECESS	NONE
ALV	DIA-32nds GRIP-16ths PIN-HL41-( )-( ) NUT-HL185DU-( ) ADW DIA-32nds	PART NO.      HEX RECESS      SELF ALIGNING GRAY  DIA      HEX RECESS      SELF ALIGNING GRAY	SELF ALIGNING GRAY LE114-0037-( )
AMB	DIA-32nds GRIP-16ths PIN-HL11V-( )-( ) NUT-HL94DU-( ) DIA-32nds	PART NO.      HEX RECESS      GRAY  DIA      HEX RECESS      GRAY	GRAY LE114-0032-( )
ASL	DIA-32nds GRIP-16ths PIN-HL227-( )-( ) NUT-HL584-( ) AW DIA-32nds	PART NO.      HEX RECESS      GRAY  DIA      HEX RECESS      GRAY	NONE
AKB	DIA-32nds GRIP-16ths PIN-HL647LL-( )-( ) NUT-HL73DY-( ) OR HL73DU-( ) DIA-32nds	PART NO.      HEX RECESS      GRAY WITH YELLOW BAND  DIA      HEX RECESS      GRAY WITH YELLOW BAND	GRAY YELLOW BAND LE114-0031-( )
AKN	DIA-32nds GRIP-16ths PIN-HL647LL-( )-( ) NUT-HL89DU-( ) ADW DIA-32nds	PART NO.      HEX RECESS      SELF ALIGNING GRAY  DIA      HEX RECESS      SELF ALIGNING GRAY	SELF ALIGNING GRAY, YELLOW BAND LE114-0035-( )
AKP	DIA-32nds GRIP-16ths PIN-HL13V-( )-( ) NUT-HL73DY-( ) OR HL73DU-( ) DIA-32nds	PART NO.      HEX RECESS      GRAY WITH YELLOW BAND  DIA      HEX RECESS      GRAY WITH YELLOW BAND	GRAY YELLOW BAND LE114-0031-( )
AKS	DIA-32nds GRIP-16ths PIN-HL13V-( )-( ) NUT-HL89DU-( ) ADW DIA-32nds	PART NO.      HEX RECESS      SELF ALIGNING GRAY  DIA      HEX RECESS      SELF ALIGNING GRAY	SELF ALIGNING GRAY YELLOW BAND LE114-0035-( )

NA 204

<b>BLIND BOLTS</b>			<b>PROTRUDING HEADS</b>
BASIC CODE	PART NUMBER	IDENTIFICATION	
<b>ZF</b>	NAS1669( )K( )	INACTIVE FOR DESIGN USE AKX	
<b>ZH</b>	NAS1671( )K( )	INACTIVE FOR DESIGN USE AKX	
<b>AKX</b>	DIA-16ths      GRIP-16ths \                / NAS1669( )L( )	MECHANICAL LOCK CODE  MFRS ID      CLASS 1 CODE	
<b>AKY</b>	DIA-16ths      GRIP-16ths \                / NAS1671( )L( )	MECHANICAL LOCK CODE  MFRS ID      CLASS 2 CODE	
<b>ACN</b>	DIA-32nds      GRIP-16ths \                / MS21141-( )-( )	MAT'L CODE  MFRS ID      GRIP NO.	

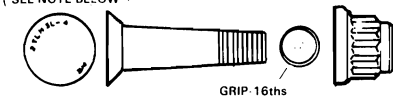
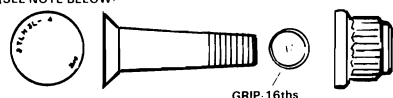

BLIND BOLTS		COUNTERSUNK HEADS	
BASIC CODE	PART NUMBER	IDENTIFICATION	
ZK	NAS1670( )K( )	INACTIVE FOR DESIGN USE AKV	
ZL	NAS1672( )K( )	INACTIVE FOR DESIGN USE AKW	
AKV	DIA-16ths      GRIP-16ths \                / \                / NAS1670( )L( )	CLASS CODE      MECHANICAL LOCK CODE  MFRS ID	
AKW	DIA-16ths      GRIP-16ths \                / \                / NAS1672( )L( )	"C" CRES      MFRS ID  GRIP NO.	
TY	DIA-32nds      GRIP-16ths \                / \                / MS90353-( )-( )	MAT'L CODE      MFRS ID  GRIP NO.	
ACO	DIA-32nds      GRIP-16ths \                / \                / MS21140-( )-( )	MAT'L CODE      MFRS ID  GRIP NO.	



TAPER-LOK BOLTS		PROTRUDING HEADS
BASIC CODE	PART NUMBER	IDENTIFICATION
YAA	GRIP-16ths PIN-TLV400( )-( )E (32nds when preceded by "0") DIA-16ths or NUT-TLN 1010 CPDI( ) DIA	ID CODE (SEE NOTE BELOW) WASHER NUT 
YAB	GRIP-16ths PIN-TLD400( )-( )E (32nds when preceded by "0") DIA-16ths or NUT-TLN 1010 DPDI( ) DIA	ID CODE (SEE NOTE BELOW) WASHER NUT 
YAF	GRIP-16ths PIN-TLV400( )-( )E (32nds when preceded by "0") DIA-16ths or NUT-TLN 1021 CPDI( ) DIA	ID CODE (SEE NOTE BELOW) SELF-ALIGNING WASHER NUT 
YAH	GRIP-16ths PIN-TLD400( )-( )E (32nds when preceded by "0") DIA-16ths or NUT-TLN 1024 DPDI( ) DIA	ID CODE (SEE NOTE BELOW) SELF-ALIGNING WASHER NUT 
YAE	GRIP-16ths PIN-TLV200( )-( )E (32nds when preceded by "0") DIA-16ths or NUT-TLN 1001 CPDI( ) DIA	ID CODE (SEE NOTE BELOW) WASHER NUT 
YAJ	GRIP-16ths PIN-TLD200( )-( )E (32nds when preceded by "0") DIA-16ths or NUT-TLN 1001 CPDI( ) DIA	ID CODE (SEE NOTE BELOW) WASHER NUT 

# TAPER-LOK BOLTS

# COUNTERSUNK HEADS

BASIC CODE	PART NUMBER	IDENTIFICATION
YAC	<p style="text-align: right;">GRIP-16ths</p> <p><b>PIN-TLV-300L( )-( )E</b></p> <p style="text-align: center;">DIA-16ths or (32nds when preceded by "0")</p> <p><b>NUT-TLN 1010 CPDI( )</b></p> <p style="text-align: right;">DIA</p>	<p>ID CODE (SEE NOTE BELOW)</p> <p style="text-align: right;">WASHER NUT</p>  <p style="text-align: center;">GRIP-16ths</p> <p>MFRS ID</p>
YAD	<p style="text-align: right;">GRIP-16ths</p> <p><b>PIN-TLD-300L( )-( )E</b></p> <p style="text-align: center;">DIA-16ths or (32nds when preceded by "0")</p> <p><b>NUT-TLN 1010 DPDI( )</b></p> <p style="text-align: right;">DIA</p>	<p>ID CODE (SEE NOTE BELOW)</p> <p style="text-align: right;">WASHER NUT</p>  <p style="text-align: center;">GRIP-16ths</p> <p>MFRS ID</p>
YAG	<p style="text-align: right;">GRIP-16ths</p> <p><b>PIN-TLV 100( )-( )E</b></p> <p style="text-align: center;">DIA-16ths or (32nds when preceded by "0")</p> <p><b>NUT-TLN 1001 CPDI( )</b></p> <p style="text-align: right;">DIA</p>	<p>ID CODE (SEE NOTE BELOW)</p> <p style="text-align: right;">WASHER NUT</p>  <p style="text-align: center;">GRIP-16ths</p> <p>MFRS ID</p>
		<p>NOTE: IDENTIFICATION CODE</p> <p>2TLH 4 - SERIES                  2 - GROUP (EXCEPT 1) (4 FOR TL400)                  TL - TAPER LOK -4 - DIA-16ths                  EXCEPT 046.05) or 32nds when                  H - MATERIAL preceded by "0"</p>

## LOCKBOLTS, HI-LOKS, BI-METAL RIVETS

CODE: AJH, AMP, AJF, AMO, AKC, AMN, AFP, AJL, AEK, AJV, AMD, AFY, AJM, AEJ, AJW, AME, NO, ABE, AKH, AKK, ALF, ALJ, ALR, ALT, AMA, AKA, AKM, AKO, AKR, YH, ABH, AKJ, AKL, ALH, ALK, ALS, ASM, ALV, AMB, ASL, AKB, AKN, AKP, AKS

NOMINAL SHANK DIA (Inches)	HOLE TYPE	STANDARD HOLE			FIRST OVERSIZE		SECOND OVERSIZE	
		Hole Size	Drill Size	Reamer (Pilot)	Hole Size	Reamer (Pilot)	Hole Size	Reamer (Pilot)
5/32	I	0.164-0.168	4.2 mm					
	II	0.1640-0.1662	No. 24	0.1640 (0.1520)				
	Trans Fit	0.1610-0.1650	No. 20					
	III							
	IV	0.1625-0.1590	No. 21					
	IVA	0.1620-0.1590	No. 21					
3/16	I	0.190-0.194	No. 11		0.2031-0.2071	0.2031 (0.1920)	0.2187-0.2227	0.2187 (0.2050)
	II	0.1900-0.1922	No. 16	0.1900 (0.1770)	0.2031-0.2053	0.2031 (0.1920)	0.2187-0.2209	0.2187 (0.2050)
	Trans Fit	0.1870-0.1910	4.75 mm		0.2001-0.2041	0.2001 (0.1910)	0.2157-0.2197	0.2157 (0.2040)
	III	0.1900-0.1910	No. 11					
	IV	0.1885-0.1850	3/16					
	IVA	0.1880-0.1850	3/16					
1/4	I	0.250-0.254	E		0.2656-0.2696	0.2656 (0.2520)	0.2812-0.2852	0.2812 (0.2680)
	II	0.2500-0.2522	15/64	0.2500 (0.2340)	0.2656-0.2678	0.2656 (0.2520)	0.2812-0.2834	0.2812 (0.2680)
	Trans Fit	0.2470-0.2500	0.2470 (Spec Drill)		0.2626-0.2656	0.2626 (0.2500)	0.2782-0.2812	0.2782 (0.2660)
	III	0.2500-0.2510	1/4					
	IV	0.2485-0.2450	D					
	IVA	0.2480-0.2450	D					