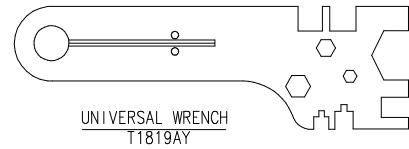
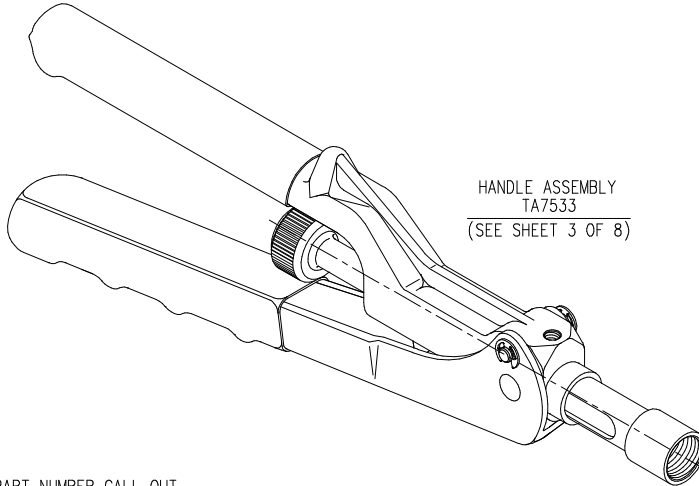


THREAD SIZE CODE	Ø "A"
2	.230
4, M3	.272
6, M3.5	.308
8, M4	.334
10, M5	.360
12, M6	.420

HAND INSTALLATION TOOL ASSEMBLY  
H8603-( )



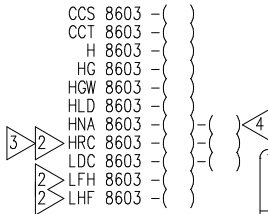
HANDLE ASSEMBLY  
TA7533  
(SEE SHEET 3 OF 8)

PULLER  
HP 7523-( )  
(SEE SHEET 4 OF 8)

NOSE ASSEMBLY  
HN 7513-( )  
(SEE SHEET 4 OF 5)

PART NUMBER CALL OUT

STANDARD TOOL SHOWN



BASIC TOOL No.

THREAD SIZE CODE	THREAD SIZE	LEAD
2	.086-56 UNC-2B	SINGLE
4	.112-40 UNC-2B	
6	.138-32 UNC-2B	
8	.164-32 UNC-2B	
10	.190-32 UNF-2B	
12	.250-28 UNF-2B	
10C	.190-24 UNC-2B	SINGLE (COARSE)
12C	.250-20 UNC-2B	
4F	.112-40 UNC-2B	DOUBLE
6F	.138-32 UNC-2B	
12D	.250-28 UNF-2B	
6QD	.138-32 UNC-2B	QUAD
8F	.164-32 UNF-2B	
10F	.190-32 UNF-2B	
12F	.250-28 UNF-2B	
M2	M2 x 0.4-4h6h	METRIC
M2.5	M2.5 x 0.45-4h6h	
M3	M3 x 0.5-4h6h	
M3.5	M3.5 x 0.6-4h6h	
M4	M4 x 0.7-4H6H	
M5	M5 x 0.8-4h6h	
M6	M6 x 1.0-5h6h	

MATERIAL:

HANDLE ASSEMBLY:  
LOW CARBON STEEL.  
NOSE ASSY. COMPONENTS:  
TOOL STEEL 0-1, HEAT TREAT TO Rc 56 MIN.  
PULLER:  
4130 ALLOY STEEL, HEAT TREAT TO Rc 38-42.  
WRENCH:  
CARBON STEEL.

FINISH:

ALL COMPONENTS/ASSY.:  
BLACK OXIDE.

NOTES:

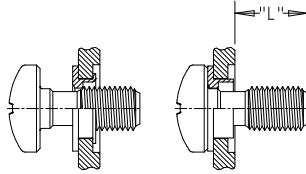
- FOR INSTALLATION INSTRUCTIONS SEE SHEET 2 OF 8.
- THESE TOOLS ARE THE SAME AS THE STANDARD INSTALLATION TOOL WHEN ADJUSTED BY A TOOLING ENGINEER AT HUCK INTERNATIONAL KINGSTON. HOWEVER, PRE ADJUSTMENT CAN ONLY OCCUR WHEN EXACT REAMED HOLE SIZE, TOP PANEL THICKNESS AND FASTENER PART NUMBER IS KNOWN AND USED IN A GIVEN APPLICATION.
- FOR VARIABLE LENGTH NOSE PEICE AND PULLER SEE SHEET (4 OF 8).
- FOR VARIABLE LENGTH EXTENSION (SEE SHEET 4 OF 8).

D1	5685	12/13/95	JR	JB	TOLERANCE DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED FRACTIONS ± 1/32 ANGLES ± 2° 2 PLACE DECIMALS ± .02 3 PLACE DECIMALS ± .015		Huck International, Inc. Advanced Fastening Systems		
D	5615	6/30/95	JR	JB			DATE: 6/30/95	TUCSON DIVISION 3724 E. COLUMBIA ST. TUCSON, AZ 85714	
C	4436	11/17/86	JR	EK	PREPARED IN ACCORDANCE WITH ANSI Y14.5M	DR. BY: <i>J.P.</i>	UNIVERSAL HAND INSTALLATION TOOL FOR CAPTIVE SCREWS & TURN-LOC FASTENERS.		
B	9741	8/9/86	AJ	GWO	THIRD ANGLE PROJECTION DUAL DIMENSIONING IN MM. TOL. MM	CHK. BY: <i>J.P.</i>	SIZE	CODE IDENT NO.	PART NO.
A	4245	1/9/86	KA	CS	SCALE NONE	APPD. BY: <i>J. Prosser</i>	A	OHDW7	MULTI ( ) 8603
NC	3457	10/31/84	WL	CS	RL DATE: 10/31/84				
REV	E.O. NO.	DATE	BY	APPD					DWG NO. S-3191 SHEET 1 OF 8

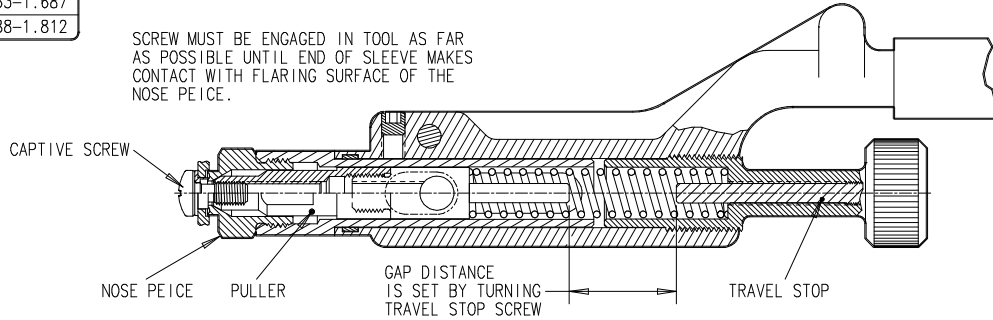
CODE	"L"
	.812
1/8	.813-.937
1/4	.938-1.062
3/8	1.063-1.187
1/2	1.188-1.312
5/8	1.313-1.437
3/4	1.438-1.562
7/8	1.563-1.687
1	1.688-1.812

INSTALLATION INSRTRUCTIONS FOR FIXED CAPTIVE SCREW ASSEMBLIES

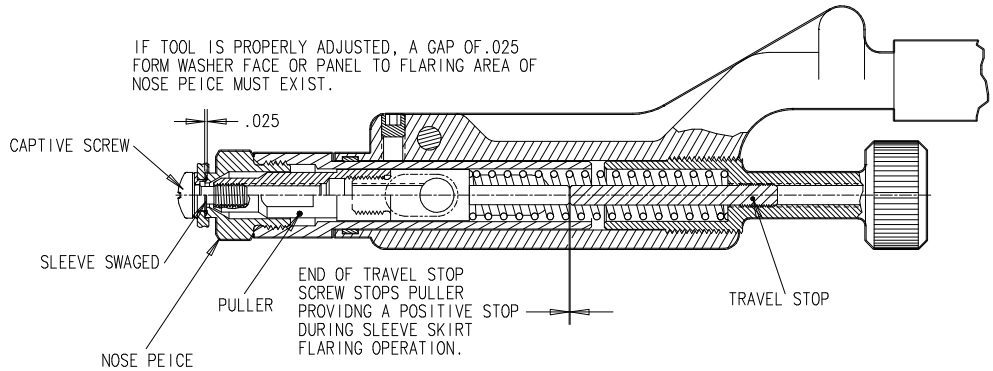
PLACE SCREW ASSEMBLY THROUGH PREPARED HOLE IN PANEL TO WHICH CAPTIVE SCREW IS TO BE MOUNTED. TURN SCREW INTO NOSE OF TOOL EITHER BY ROTATING TOOL OR SCREW ASSEMBLY. SQUEEZE HANDLES TOGETHER FRIMLY. EXCESSIVE FORCE IS NOT REQUIRED. REMOVE TOOL FROM SCREW BY UNSCREWING. SHOULD FLARE REQUIRE ADDITIONAL TIGHTENING, REPEAT PROCEDURE EXERTING ADDITIONAL SQUEEZING FORCE.



SCREW MUST BE ENGAGED IN TOOL AS FAR AS POSSIBLE UNTIL END OF SLEEVE MAKES CONTACT WITH FLARING SURFACE OF THE NOSE PEICE.



IF TOOL IS PROPERLY ADJUSTED, A GAP OF .025 FORM WASHER FACE OR PANEL TO FLARING AREA OF NOSE PEICE MUST EXIST.

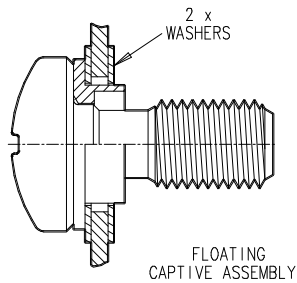


INSTALLATION INSTRUCTIONS FOR FLOATING CAPTIVE SCREW ASSEMBLIES

FOR FLOATING ADAPTERS (SEE SHEET 5 OF 8).

ADJUSTMENT OF INSTALLATION TOOL IS CRITICAL FOR FLOATING CAPTIVE SCREW INSTALLATIONS. BY USE OF THE ALLEN WRENCH ON THE UNIVERSAL (DT1819), ADJUST TRAVEL STOP SCREW AT REAR OF CENTER OF ADJUSTING KNOB UNTIL THERE IS NO TRAVEL PERMITTED OF HANDLES THEN BACK OFF THE ADJUSTMENT OF THE TRAVEL STOP SCREW UNTIL UPSET TAKES PLACE WITHOUT TIGHTENING OF THE SCREW, SO THAT THE ASSEMBLY IS CAPTIVE TO THE PANEL AND IS STILL FREE TO MOVE ABOUT.

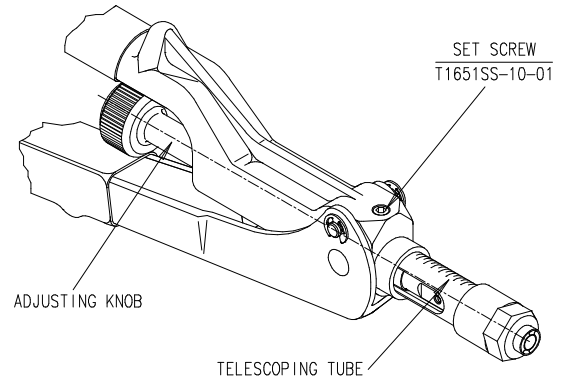
AFTER PROPER ADJUSTMENT, PLACE CAPTIVE SCREW ASSEMBLY IN THE PREPARED HOLE OF THE PANEL IN WHICH THE CAPTIVE SCREW IS TO BE MOUNTED, PLACING ONE WASHER ON THE SLEEVE ABOVE THE PANEL AND ONE WASHER BELOW THE PANEL. TURN SCREW INTO NOSE OF TOOL BY ROTATING TOOL OR SCREW ASSEMBLY. SQUEEZE HANDLES TOGETHER FRIMLY. EXCESSIVE FORCE IS NOT REQUIRED REMOVE TOOL FROM INSTALLED CAPTIVE SCREW BY UNSCREWING.



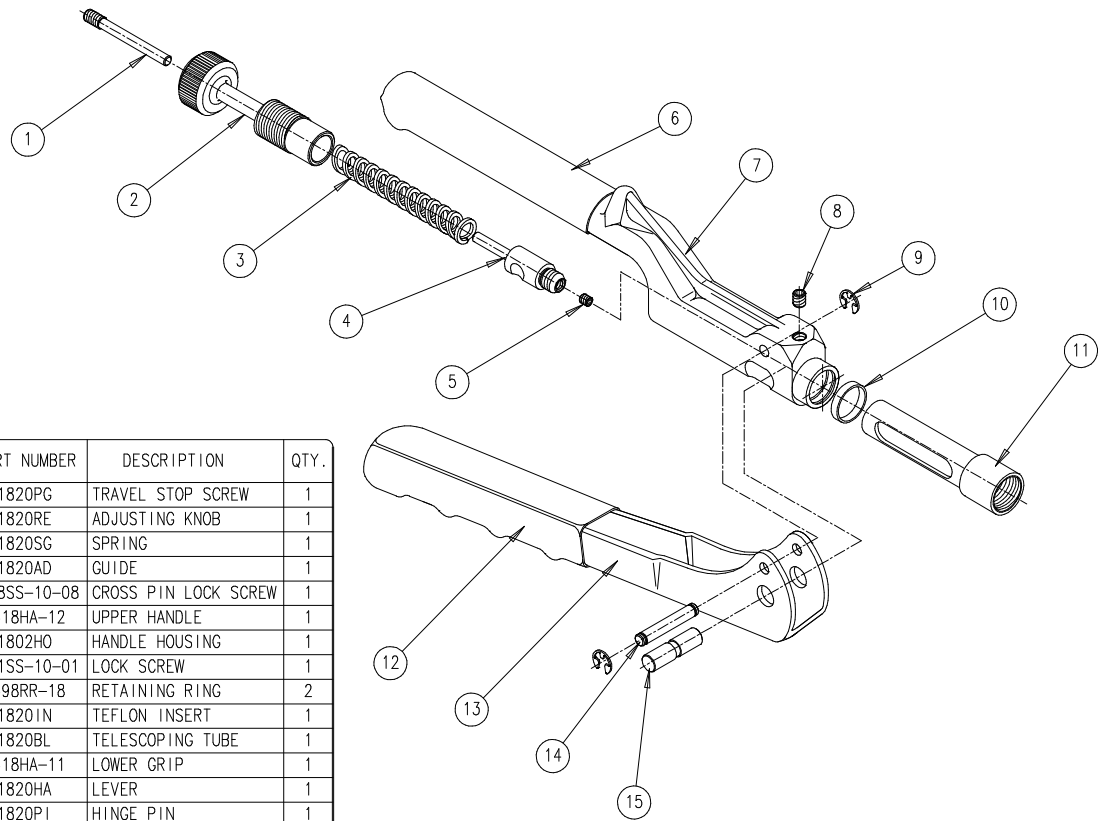
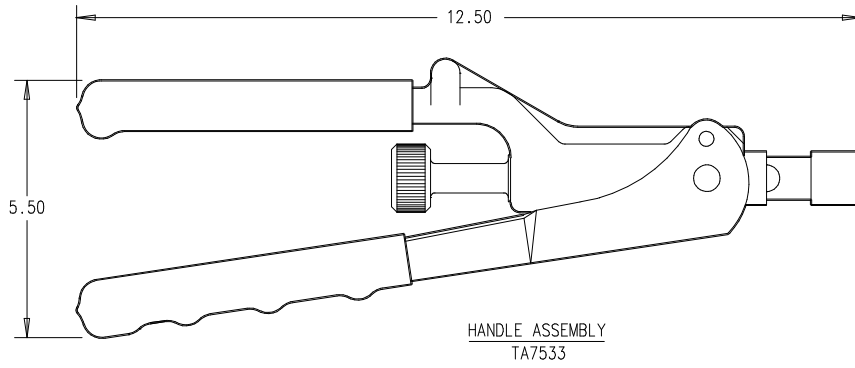
TO ADJUST TOOL TO DESIRED GRIP LENGTH

1. SET SCREW MUST BE UN-SCREWED TO PERMIT FREE MOVEMENT OF TELESCOPING TUBE.
2. ROTATE AJUSTING KNOB CLOCKWISE OR COUNTER-CLOCKWISE TO OBTAIN DESIRED LENGTH ADJUSTMENT. THIS IS INDICATED WHEN THE FRACTION MARKS ON THE TELESCOPING TUBE IS IN LINE WITH THE EDGE OF THE TOOL HANDLE BOSS. PUSH THE TUBE BACK TOWARD THE HANDLE TO INSURE ACCURATE POSITIONING.
3. TIGHTEN SET SCREW.

NOTE: IF TO MUCH RESISTANCE IS ENCOUNTERED WHEN ROTATING THE ADJUSTMENT KNOB, CLOSE THE HANDLES WHILE TURNING THE KNOB, ALSO INSURE THAT THE SET SCREW IS NOT PRESSING AGAINST THE TUBE.



REVISION				TOLERANCE DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED		HUCK		Huck International, Inc. Advanced Fastening Systems			
D1	5685	12/13/95	JR	JB	FRACTIONS ± 1/32 ANGLES ± 2°		DATE: 6/30/95		TUCSON DIVISION 3724 E. COLUMBIA ST. TUCSON, AZ 85714		
D	5615	6/30/95	JR	JB	2 PLACE DECIMALS ± .02		DR. BY: [Signature]		UNIVERSAL HAND INSTALLATION TOOL FOR CAPTIVE SCREWS & TURN-LOC FASTENERS.		
C	4436	11/17/86	JR	EK	3 PLACE DECIMALS ± .015		CHK. BY: [Signature]		SIZE CODE IDENT NO. PART NO. MULTI ( ) 8603		
B	9741	8/9/86	AJ	GWO	PREPARED IN ACCORDANCE WITH ANSI Y14.5M		APPD. BY: [Signature]		DWG NO. S-3191 SHEET 2 OF 8		
A	4245	1/9/86	KA	CS	THIRD ANGLE PROJECTION DUAL DIMENSIONING IN MM. TOL. MM		RL. DATE: 10/31/84				
NC	3457	10/31/84	WL	CS							
REV	E.O. NO.	DATE	BY	APPD							

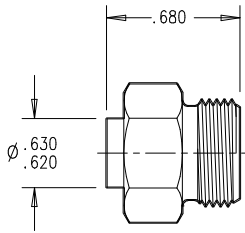


ITEM NO. #	PART NUMBER	DESCRIPTION	QTY.
1	T1820PG	TRAVEL STOP SCREW	1
2	T1820RE	ADJUSTING KNOB	1
3	T1820SG	SPRING	1
4	T1820AD	GUIDE	1
5	T0138SS-10-08	CROSS PIN LOCK SCREW	1
6	T1618HA-12	UPPER HANDLE	1
7	T1802HO	HANDLE HOUSING	1
8	T1651SS-10-01	LOCK SCREW	1
9	T1598RR-18	RETAINING RING	2
10	T1820IN	TEFLON INSERT	1
11	T1820BL	TELESCOPING TUBE	1
12	T1618HA-11	LOWER GRIP	1
13	T1820HA	LEVER	1
14	T1820PI	HINGE PIN	1
15	T0166PI-BK	CROSS PIN	1

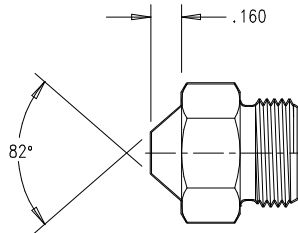
MATERIAL:  
LOW CARBON STEEL

FINISH:  
BLACK OXIDE

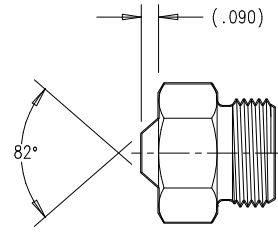
D1	5685	12/13/95	JR	JB	TOLERANCE DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED FRACTIONS ± 1/32 ANGLES ± 2° 2 PLACE DECIMALS ± .02 3 PLACE DECIMALS ± .015		Huck International, Inc. Advanced Fastening Systems TUCSON DIVISION 3724 E. COLUMBIA ST. TUCSON, AZ 85714				
D	5615	6/30/95	JR	JB			PREPARED IN ACCORDANCE WITH ANSI Y14.5M	DATE: 6/30/95	UNIVERSAL HAND INSTALLATION TOOL FOR CAPTIVE SCREWS & TURN-LOC FASTENERS.		
C	4436	11/17/86	JR	EK	THIRD ANGLE PROJECTION DUAL DIMENSIONING IN MM. TOL. $\frac{MM}{MM}$		DR. BY:	SIZE: A	CODE IDENT NO.: OHDW7	PART NO.: MULTI ( ) 8603	
B	9741	8/9/86	AJ	GWO							CHK. BY:
A	4245	1/9/86	KA	CS	REVISION	SCALE NONE	RL. DATE: 10/31/84				
NC	3457	10/31/84	WL	CS							
REV	E.O. NO.	DATE	BY	APPD							



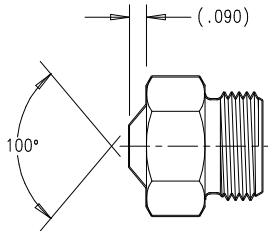
NOSE PEICE  
HN 7513-( )  
CCS 7513-( )



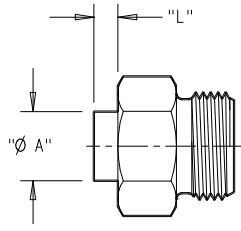
NOSE PEICE  
HLD 7513-( )



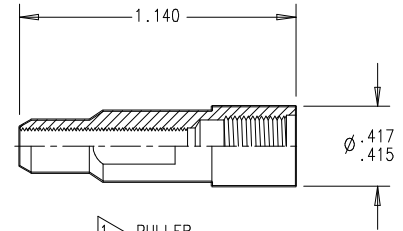
NOSE PEICE  
HNG 7513-( )



NOSE PEICE  
HGW 7513-( )

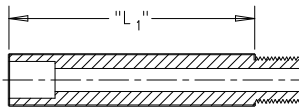


NOSE PEICE  
LDCN 7513-( )-( )

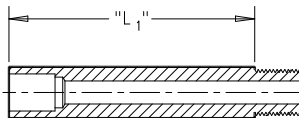


PULLER  
CCS 7523-( )  
HP 7523-( )  
LDCP 7523-( )-( )

COMPLETE BASIC TOOL PART NO. #	APPLICATION	COMPONENT BREAKDOWN	
		PULLER	NOSE PEICE
CCS 8603-( )	STANDARD C'BORE APPLICATION FOR CCV 7900 (SELF-TAPPING)	CCS 7523-( )	CCS 7513-( )
CCT 8603-( )	STANDARD C'BORE APPLICATION FOR CCR 7900	HP 7523-( )	CCS 7513-( )
H 8603-( )	STANDARD C'BORE APPLICATION	HP 7523-( )	HN 7513-( )
HG 8603-( )	STANDARD 82° C'SINK APPLICATION	HP 7523-( )	HNG 7513-( )
HGW 8603-( )	STANDARD 100° C'SINK APPLICATION	HP 7523-( )	HGW 7513-( )
HLD 8603-( )	STANDARD 82° C'SINK APPLICATION FOR SOUTH CO. EQUIVALENT	HP 7523-( )	HLD 7513-( )
LDC 8603-( )-( )	STANDARD C'BORE APPLICATION W/VARIABLE LENGTHS	LDCP 7523-( )-( )	LDCN 7513-( )-( )

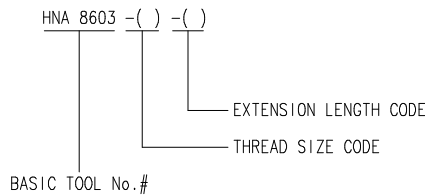


T1638PX-( )  
NOSE PIECE EXTENSION



T1637PX-( )  
PULLER EXTENSION

COMPLETE HAND TOOL INSTALLATION WITH EXTENSION FOR STANDARD C'BORE



LENGTH CODE	"L1"	"L"
1	STD.	STD.
2	2.000	.125
3	3.000	.188
4	4.000	.250
5	5.000	.312
6	6.000	.375
7	7.000	.438
8	8.000	.500

THREAD SIZE CODE	THREAD SIZE	"Ø A"
2	.086-56 UNC	.230
4	.112-40 UNC	.272
M3	M3 x 0,5	.272
6	.138-32 UNC	.308
M3.5	M3,5 x 0,6	.308
M4	M4 x 0,7	.334
8	.164-32 UNC	.334
10	.190-32 UNF	.360
M5	M5 x 0,8	.360
M6	M6 x 1,0	.420
12	.250-28 UNF	.420

MATERIAL:

NOSE PEICE:

TOOL STEEL, 01 HEAT TREAT TO RC 56-62.

PULLER EXTENSION:

4130 ALLOY STEEL, HEAT TREAT TO Rc 38-42.

FINISH:

ALL COMPONENTS:

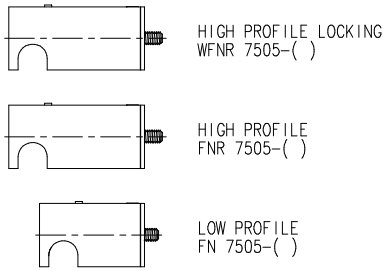
BLACK OXIDE

NOTE:

1 FOR MATRIC TOOLING STANDARD SIZES (4, 6, 8, . . . etc.) NOSE PEICES ARE TO BE USED WITH METRIC SIZE PULLERS. THEY ARE TO BE PAIRED IN THE MANNER SHOWN IN THE TABLE.

D1	5685	12/13/95	JR	JB	TOLERANCE DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED FRACTIONS ± 1/32 ANGLES ± 2° 2 PLACE DECIMALS ± .02 3 PLACE DECIMALS ± .015		Huck International, Inc. Advanced Fastening Systems		
D	5615	6/30/95	JR	JB			DATE: 6/30/95	TUCSON DIVISION 3724 E. COLUMBIA ST. TUCSON, AZ 85714	
C	4436	11/17/86	JR	EK	PREPARED IN ACCORDANCE WITH ANSI Y14.5M	DR. BY: <i>[Signature]</i>	UNIVERSAL HAND INSTALLATION TOOL FOR CAPTIVE SCREWS & TURN-LOC FASTENERS.		
B	9741	8/9/86	AJ	GWO	THIRD ANGLE PROJECTION DUAL DIMENSIONING IN MM. TOL. $\frac{MM}{MM}$	CHK. BY: <i>[Signature]</i>	SIZE: A	CODE IDENT NO. OHDW7	PART NO. MULTI ( ) 8603
A	4245	1/9/86	KA	CS	SCALE NONE	APPD. BY: <i>[Signature]</i>	REVISION	DWG NO. S-3191	SHEET 4 OF 8
NC	3457	10/31/84	WL	CS	RL DATE: 10/31/84				
REV	E.O. NO.	DATE	BY	APPD					

FLOATING ADAPTER FOR TURN-LOCS



TO PROVIDE FLOAT IN TURN-LOC ASSEMBLIES:

SCREW FLOATING ADAPTER ASS'Y BY HAND INTO BASIC TOOL UNTIL BOTTOMED. PLACE KNURLED HEAD END OF TURN-LOC IN OPENING OF ADAPTER ASSY AND SQUEEZE HANDLES WITH NOMINAL FORCE. STOP IN TOOL PROVIDES PROPER AMOUNT OF LOOSENING, AUTOMATICALLY RESULTING IN .031 RADIAL FLOATING ACTION IN HOLE AS PREPARED IN ACCORDANCE WITH DRAWING S-0209.

NO FLOATING ADAPTER FOR CAPTIVE FASTNER SCREWS. FOR FLOATING APPLICATIONS SEE NOTE 2

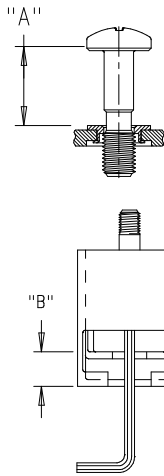
REMOVAL ADAPTER FOR TURN-LOCS

TO REMOVE INSTALLED TURN-LOC ASSEMBLIES (FIXED OR FLOATING):

SCREW REMOVAL ADAPTER ASSY BY HAND INTO BASIC TOOL UNTIL BOTTOMED. PLACE KNURLED HAED END OF TOURN-LOC IN OPENING OF ADAPTER ASSY WITH HANDLE IN OPEN POSITION. SQUEEZE HANDLES TOGETHER PULLING TURN-LOC FROM SHEET BY STRAIGHTENING FLARED SECTION OF SLEEVE.

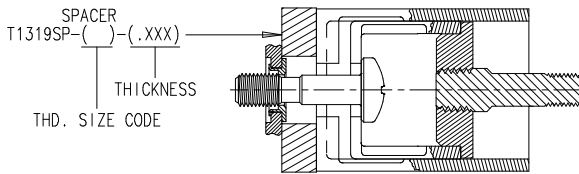
REMOVAL ADAPTER FOR CAPTIVE SCREWS

REMOVAL SET-UP



1. MEASURE DISTANCE "A" WITH SCREW FULLY RETRACTED.
2. SET DIMENSION "B" TO CORRESPOND WITH DISTANCE "A", USE 3/32" ALIEN WRENCH, TURN CLOCKWISE TO INCREASE "B" DIMENSION.
3. SEE OPERATION INSTRUCTIONS.
4. FOR REMOVAL OF EXTRA LONG SCREWS, (WHERE "A" EXCEEDS .600) SPACER WASHER PART NUMBER T1319SP MUST BE USED AND PLACED UNDER THE TOOL (SEE BELOW); SPECIFY THICKNESS WHEN ORDERING. IN THREE PLACE DECIMAL, ORDER IN 1/6" INCREMENTS, MIN. OF .062.

REMOVAL OF EXTRA LONG SCREW ASSY'S



PART NUMBER CALL OUT

(INCLUDES H 8603- ( ) AND ADPATER)  
( ) 8603 - ( )

THREAD SIZE CODE  
BASIC TOOL No.#

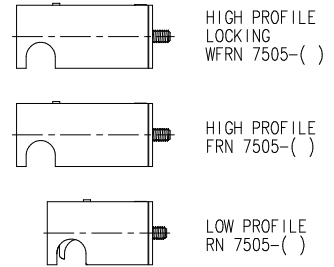
CONFIGURATION	
F	LOW PROFILE FLOATING
HR	LOW PROFILE REMOVAL
FRB	HIGH PROFILE FLOATING
HRB	HIGH PROFILE REMOVAL
WFNR	HIGH PROFILE LOCKING FLOATING
WFRN	HIGH PROFILE LOCKING REMOVAL
RA	LOW PROFILE CAPTIVE REMOVAL
RNC	FLUSH HEAD REMOVAL

FINISH:

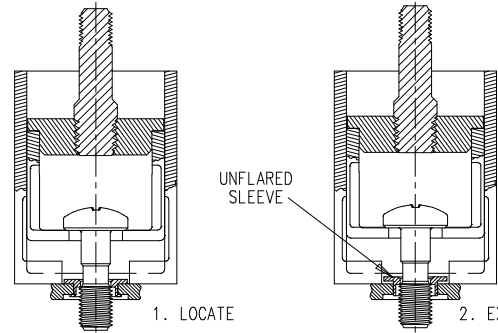
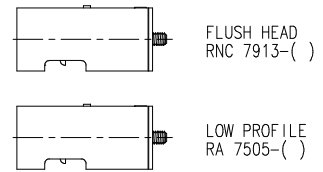
ADAPTER:

HARD ANODIZE PER MIL-A-8625, TYPE III, CLASS 2  
BLACK COLOR IS OPTIONAL.

TURN-LOC REMOVAL ADAPTERS



CAPTIVE REMOVAL ADAPTERS



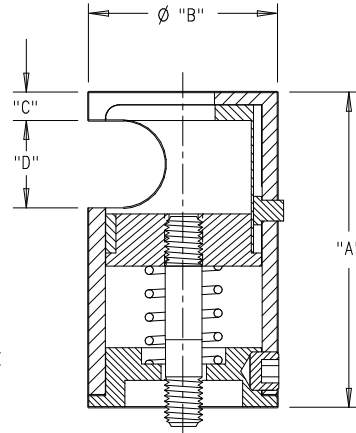
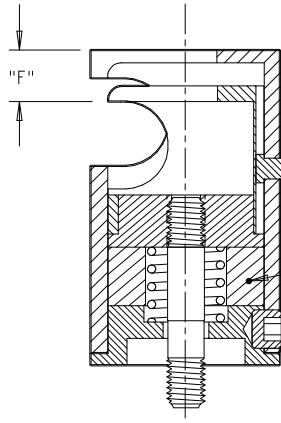
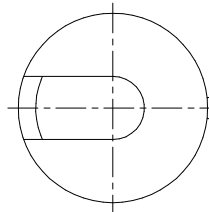
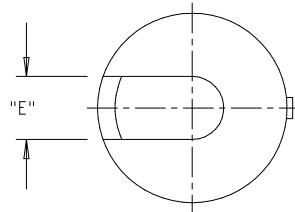
OPERATING INSTRUCTIONS

1. PLACE TOOL SLOT AROUND THE HEAD OF SCREW TO BE REMOVED. INNER STUD SLOT MUST BE PUSHED AGAINST HEAD.
2. SQUEEZE HANDLES OF H 8603- ( ) TOOL FULLY TO UNFLARE CAPTIVE SCREW SLEEVE SKIRT WHICH PULLS ASSY OUT OF HOLE.
3. DISPOSE OF REMOVED ASSY. (STUD & UNFLARED SLEEVE SKIRT).

NOTES:

1. FOR APPLICATIONS WHERE ACCESSIBILITY IS LIMITED AND HAND TOOL BECOMES IMPRACTICAL, A SPECIAL TOOL MAY BE DEVISED TO FORM THE UPSET. CONSULT HUCK INTERNATIONAL KINGSTON INTERNATIONAL DIVISIONS ENGINEERING DEPARTMENT FOR ASSISTANCE.
2. FOR LOW PROFILE CAPTIVE FASTENER SCREW ASSEMBLIES WITH FLOATING APPLICATION USE TOOL LFH 8603 (SEE SHT. 2 OF 8) OF ARBOR PRESS TOOL HW 7600 SET TO SALES DRAWING S-1711.
3. THE HOLE IN THE PANEL IS REUSEABLE. WHILE IT IS NOT RECOMMENDED, IF THERE IS NO APPARENT DAMAGE TO THE SLEEVE, THE TURN-LOC ASSY MAY BE REUSED. WHEN REUSED, THE TURN-LOC ASSEMBLY WILL NOT HAVE THE RETENSION QUALITIES OF AN UNUSED PART.

D1	5685	12/13/95	JR	JB	TOLERANCE DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED FRACTIONS ± 1/32 ANGLES ± 2° 2 PLACE DECIMALS ± .02 3 PLACE DECIMALS ± .015		Huck International, Inc. Advanced Fastening Systems			
D	5615	6/30/95	JR	JB			DATE: 6/30/95	TUCSON DIVISION 3724 E. COLUMBIA ST. TUCSON, AZ 85714		
C	4436	11/17/86	JR	EK	PREPARED IN ACCORDANCE WITH ANSI Y14.5M	DR. BY: <i>J.P.</i>	UNIVERSAL HAND INSTALLATION TOOL FOR CAPTIVE SCREWS & TURN-LOC FASTENERS REMOVAL & FLOATING INSTRUCTIONS.			
B	9741	8/9/86	AJ	GWO			THIRD ANGLE PROJECTION DUAL DIMENSIONING IN MM. TOL. $\frac{MM}{MM}$	CHK. BY: <i>J. Prosser</i>	SIZE	CODE IDENT NO.
A	4245	1/9/86	KA	CS	SCALE NONE	RL DATE: 10/31/84	APPD. BY: <i>J. Prosser</i>	A	OHDW7	MULTI
NC	3457	10/31/84	WL	CS						
REV	E.O. NO.	DATE	BY	APPD	REVISION					



SPACER  
T0229SP-( )-1  
THREAD SIZE CODE  
(SEE TABLE VIII)

COMPLETE ASSEMBLY NOSE  
(NOSE FOR FLOATING APPLICATIONS)  
FN 7505-( )

COMPLETE ASSEMBLY  
(REMOVAL NOSE)  
RN 7505-( )

COMPLETE TOOL  
PART NUMBER CALL OUT

RN 7505 - ( )  
FN 7505 - ( )

BASIC TOOL No.

TABLE IV

THREAD SIZE CODE	THREAD SIZE	LEAD
4	.112-40 UNC-2B	SINGLE
6	.138-32 UNC-2B	
8	.164-32 UNC-2B	
10	.190-32 UNF-2B	
12	.250-28 UNF-2B	
10C	.190-24 UNC-2B	SINGLE (COARSE)
12C	.250-20 UNC-2B	
4F	.112-40 UNF-2B	DOUBLE
6F	.138-32 UNF-2B	
12D	.250-28 UNF-2B	
6QD	.138-32 UNC-2B	
8F	.164-32 UNF-2B	QUAD
10F	.190-32 UNF-2B	
12F	.250-28 UNF-2B	
M3	MJ3 x 0.5-4H6H	
M3.5	MJ3.5 x 0.6-4H6H	METRIC
M4	MJ4 x 0.7-4H6H	
M5	MJ5 x 0.8-4H6H	
M6	MJ6 x 1.0-4H5H	

TABLE V

THREAD SIZE CODE	"A"	Ø "B"	"C"	"D"	"E"
4, M3	1.280	.812	.126	.315	.219
6, M3.5	1.280	.812	.126	.315	.250
8, M4	1.280	.812	.126	.315	.271
10, M5	1.295	.938	.130	.375	.310
12, M6	1.295	.938	.130	.375	.383

TABLE VI

THREAD SIZE CODE	FLOATING FULLY RETRACTED THREAD SIZE	"F"
4	.112-40 UNC-2B	.180/.185
M3	M3 x 0.5-4h6h	.180/.185
6	.138-32 UNC-2B	.180/.185
M3.5	M3.5 x 0.6-4h6h	.180/.185
8	.164-32 UNC-2B	.190/.195
M4	4M x 0.7-4h6h	.190/.195
10	.190-32 UNF-2B	.190/.195
M5	M5 x 0.8-4h6h	.190/.195
12	.250-28 UNF-2B	.205/.210
M6	6M x 1.0-5h6h	.205/.210

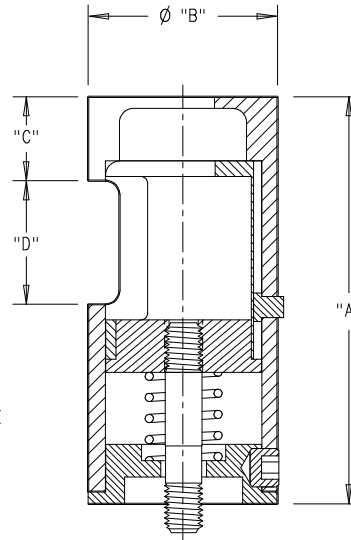
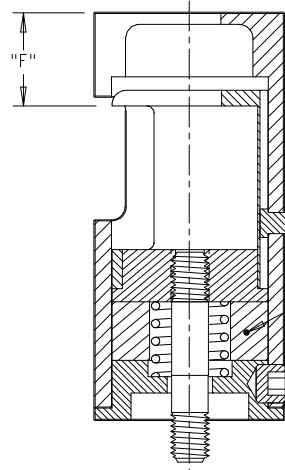
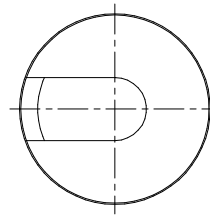
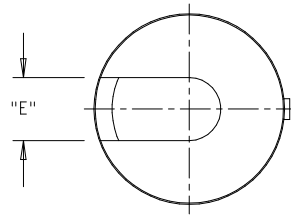
MATERIAL:

OUTER CASING:  
7075-T6 ALUMINUM

FINISH:

OUTER CASING:  
HARD ANODIZE PER MIL-A-8625, TYPE III CLASS 2  
(BLACK OPTIONAL.)

D1	5685	12/13/95	JR	JB	TOLERANCE DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED FRACTIONS ± 1/32 ANGLES ± 2° 2 PLACE DECIMALS ± .02 3 PLACE DECIMALS ± .015		Huck International, Inc. Advanced Fastening Systems TUCSON DIVISION 3724 E. COLUMBIA ST. TUCSON, AZ 85714			
D	5615	6/30/95	JR	JB			DATE: 6/30/95	REMOVAL & FLOATING ADAPTER FOR TURN-LOC, LOW PROFILE, ASSEMBLIES.		
C	4436	11/17/86	JR	EK			DR. BY: <i>[Signature]</i>	SIZE CODE IDENT NO. PART NO.	RN/FN 7505-( )	
B	9741	8/9/86	AJ	GWO			CHK. BY: <i>[Signature]</i>		A	OHDW7
A	4245	1/9/86	KA	CS	THIRD ANGLE PROJECTION DUAL DIMENSIONING IN MM. TOL. MM	APPD. BY: <i>[Signature]</i>	SHEET 6 OF 8			
NC	3457	10/31/84	WL	CS	SCALE NONE	RL DATE: 10/31/84				
REV	E.O. NO.	DATE	BY	APPD	REVISION					



SPACER  
T0229SP-( )-2  
THREAD SIZE CODE  
(SEE TABLE VIII)

ASSEMBLY  
(NOSE FOR FLOATING APPLICATIONS)  
FRN 7505-( )

ASSEMBLY  
(REMOVAL NOSE)  
FRN 7505-( )

COMPLETE TOOL  
PART NUMBER CALL OUT

FRN 7505-( )  
FNR 7505-( )

BASIC TOOL No. #

TABLE I

THREAD SIZE CODE	THREAD SIZE	LEAD
4	.112-40 UNC-2B	SINGLE
6	.138-32 UNC-2B	
8	.164-32 UNC-2B	
10	.190-32 UNF-2B	
12	.250-28 UNF-2B	SINGLE (COARSE)
10C	.190-24 UNC-2B	
12C	.250-20 UNC-2B	
4F	.112-40 UNF-2B	DOUBLE
6F	.138-32 UNF-2B	
12D	.250-28 UNF-2B	
6QD	.138-32 UNC-2B	
8F	.164-32 UNF-2B	QUAD
10F	.190-32 UNF-2B	
12F	.250-28 UNF-2B	
M3	M3 x 0.5-4H6H	
M3.5	M3.5 x 0.6-4H6H	METRIC
M4	M4 x 0.7-4H6H	
M5	M5 x 0.8-4H6H	
M6	M6 x 1.0-4H5H	

TABLE II

THREAD SIZE CODE	"A"	Ø "B"	"C"	"D"	"E"
4, M3	1.510	.810	.235	.433	.218
6, M3.5	1.510	.810	.260	.445	.250
8, M4	1.740	.810	.355	.555	.265
10, M5	1.750	.937	.385	.640	.312
12, M6	1.750	.937	.385	.640	.397

TABLE III

THREAD SIZE CODE	FLOATING FULLY RETRACTED THREAD SIZE	"F"
4	.112-40 UNC-2B	.280/.285
M3	M3 x 0.5-4h6h	.280/.285
6	.138-32 UNC-2B	.295/.300
M3.5	M3.5 x 0.6-4h6h	.295/.300
8	.164-32 UNC-2B	.400/.405
M4	4M x 0.7-4h6h	.400/.405
10	.190-32 UNF-2B	.440/.445
M5	M5 x 0.8-4h6h	.440/.445
12	.250-28 UNF-2B	.435/.440
M6	6M x 1.0-5h6h	.435/.440

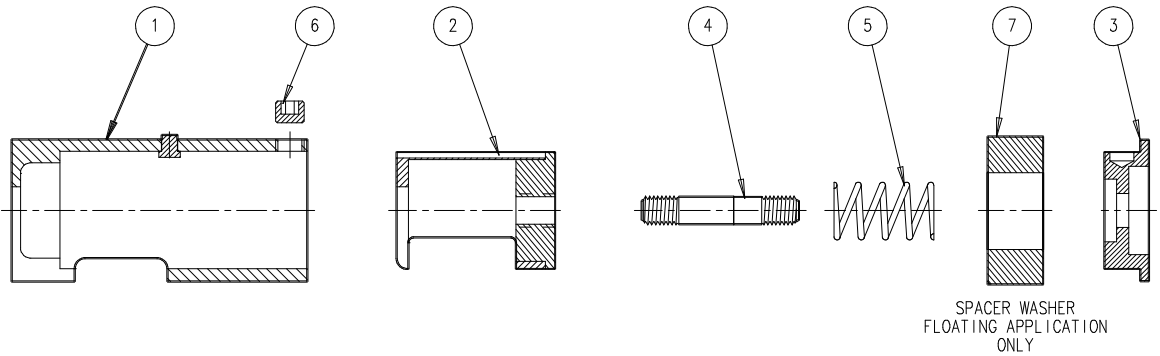
MATERIAL:

OUTER CASING:  
7075-T6 ALUMINUM

FINISH:

OUTER CASING:  
HARD ANODIZE PER MIL-A-8625, TYPE III CLASS 2  
(BLACK OPTIONAL.)

D1	5685	12/13/95	JR	JB	TOLERANCE DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED FRACTIONS ± 1/32 ANGLES ± 2° 2 PLACE DECIMALS ± .02 3 PLACE DECIMALS ± .015		Huck International, Inc. Advanced Fastening Systems TUCSON DIVISION 3724 E. COLUMBIA ST. TUCSON, AZ 85714			
D	5615	6/30/95	JR	JB			DATE: 6/30/95	REMOVAL & FLOATING ADAPTER FOR TURN-LOC, HIGH PROFILE, ASSEMBLIES.		
C	4436	11/17/86	JR	EK			DR. BY: <i>[Signature]</i>	SIZE CODE IDENT NO. PART NO. A OHDW7 FRN/FNR 7505-( )	DWG NO. S-3191	
B	9741	8/9/86	AJ	GWO			CHK. BY: <i>[Signature]</i>		SHEET 7 OF 8	
A	4245	1/9/86	KA	CS			APPD. BY: <i>[Signature]</i>			
NC	3457	10/31/84	WL	CS	THIRD ANGLE PROJECTION DUAL DIMENSIONING IN MM. TOL. MM	SCALE NONE	RL DATE: 10/31/84			
REV	E.O. NO.	DATE	BY	APPD	REVISION					



COMPONENTS FOR FN 7505-( ) & RN 7505-( ) ASSY.  
THREAD SIZES 4 THRU 8

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	T01920C-( )	OUTER CASING ASSEMBLY	1
2	T0192PT-( )	PULLER CASING ASSEMBLY	1
3	T0192BU	BUSHING	1
4	T0192ST-( )	PULLER STUD	1
5	P1008SG-00	SPRING	1
6	T0138SS-8-04	SET SCREW	1
7	T0229SP-( )-1	SPACER WASHER	1

COMPONENTS FOR FNR 7505-( ) & FRN 7505-( ) ASSY.  
THREAD SIZES 4 THRU 8

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	SEE TABLE VIII	OUTER CASING ASSEMBLY	1
2	SEE TABLE VII	PULLER CASING ASSEMBLY	1
3	T0192BU	BUSHING	1
4	T0192ST-( )	PULLER STUD	1
5	P1008SG-00	SPRING	1
6	T0138SS-8-04	SET SCREW	1
7	T0229SP-( )-2	SPACER WASHER	1

COMPONENTS FOR FN 7505-( ) & RN 7505-( ) ASSY.  
THREAD SIZES 10 THRU 12

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	T01930C-( )	OUTER CASING ASSEMBLY	1
2	T0193PT-( )	PULLER CASING ASSEMBLY	1
3	T0193BU	BUSHING	1
4	T0193ST-( )	PULLER STUD	1
5	P1008SG-01	SPRING	1
6	T0138SS-8-04	SET SCREW	1
7	T0229SP-( )-1	SPACER WASHER	1

COMPONENTS FOR FN 7505-( ) & RN 7505-( ) ASSY.  
THREAD SIZES 10 THRU 12

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	T02410C-( )	OUTER CASING ASSEMBLY	1
2	T0242PT-( )	PULLER CASING ASSEMBLY	1
3	T0193BU	BUSHING	1
4	T0193ST-( )	PULLER STUD	1
5	P1008SG-01	SPRING	1
6	T0138SS-8-04	SET SCREW	1
7	T0229SP-( )-2	SPACER WASHER	1

TABLE VIII

DASH CODE	THREAD SIZE CODE	THREAD SIZE	LEAD
4	4	.112-40 UNC-2B	SINGLE
	4F	.112-40 UNF-2B	DOUBLE
	M3	MJ3 x 0.5-4H6H	METRIC
6	6	.138-32 UNC-2B	SINGLE
	6F	.138-32 UNF-2B	DOUBLE
	6QD	.138-32 UNC-2B	QUAD
	M3.5	MJ3.5 x 0.6-4H6H	METRIC
8	8	.164-32 UNC-2B	SINGLE
	8F	.164-32 UNF-2B	QUAD
	M4	MJ4 x 0.7-4H6H	METRIC
10	10	.190-32 UNF-2B	SINGLE
	10C	.190-24 UNC-2B	(COARSE)
	10F	.190-32 UNF-2B	QUAD
	M5	MJ5 x 0.8-4H6H	METRIC
12	12	.250-28 UNF-2B	SINGLE
	12C	.250-20 UNC-2B	(COARSE)
	12D	.250-28 UNF-2B	DOUBLE
	12F	.250-28 UNF-2B	QUAD
	M6	MJ6 x 1.0-4H5H	METRIC

TABLE VII

DASH CODE	OUTER CASING	PULLER CASING
4	T03250C	T0326PT
6	T02490C	T0251PT
8	T02470C	T0248PT

- 1 SEE TABLE VIII FOR DASH NUMBER OF CASING AND SPACER WASHER.
- 2 USE STUD THREAD CODE PER TABLES I AND IV FOR REQUIRED DASH NUMBERS.

D1	5685	12/13/95	JR	JB	TOLERANCE DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED FRACTIONS ± 1/32 ANGLES ± 2° 2 PLACE DECIMALS ± .02 3 PLACE DECIMALS ± .015		Huck International, Inc. Advanced Fastening Systems		
D	5615	6/30/95	JR	JB			DATE: 6/30/95	TUCSON DIVISION 3724 E. COLUMBIA ST. TUCSON, AZ 85714	
C	4436	11/17/86	JR	EK	PREPARED IN ACCORDANCE WITH ANSI Y14.5M	DR. BY: <i>J.P.</i>	REMOVAL & FLOATING ADAPTER FOR TURN-LOC, PARTS LIST		
B	9741	8/9/86	AJ	GWO	THIRD ANGLE PROJECTION DUAL DIMENSIONING IN MM. TOL. $\frac{MM}{MM}$	CHK. BY: <i>J.P.</i>	SIZE	CODE IDENT NO.	PART NO.
A	4245	1/9/86	KA	CS	SCALE NONE	APPD. BY: <i>J. Prosser</i>	A	OHDW7	FRN/FNR 7505-( )
NC	3457	10/31/84	WL	CS	RL DATE: 10/31/84				DWG NO. S-3191
REV	E.O. NO.	DATE	BY	APPD					SHEET 8 OF 8