
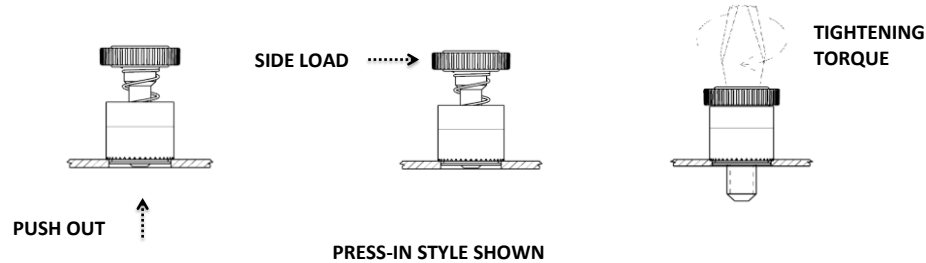
			PROPRIETARY ITEM - EXCEPT FOR USES EXPRESSLY GRANTED IN WRITING INFORMATION DISCLOSED HERON IS CONFIDENTIAL AND ALL RIGHTS PATENT AND OTHERWISE ARE RESERVED BY SOUTHCO, INC.			52 OVERMOLD CAPTIVE SCREW			DATE	DRAWN	CHKD	SCALE	DRAWING NUMBER
									9-Jul-12	JQ	TVA	NTS	TD-52-4-J
REV.	DATE	DRAWN	REVISION										
A	25-Sep-12	JQ/TVA	PRN: P2012-1285										THIRD ANGLE PROJECTION 
												A4 PAPER SIZE	

SOUTHCO PERFORMANCE GUIDELINES

THE PERFORMANCE GUIDELINES SHOWN ON THIS PAGE ARE SUPPLIED AS A GENERAL GUIDE ONLY, AS CONDITIONS VARY WITH EACH APPLICATION AND METHOD OF INSTALLATION. STRENGTH DATA GIVEN IS FOR FAILURE OF THE PRODUCT OR FOR SUFFICIENT DEFORMATION TO MAKE THE PRODUCT INOPERABLE. NO SAFETY FACTOR HAS BEEN APPLIED. IT IS RECOMMENDED THAT THE USER REQUEST A PRODUCT SAMPLE FOR TESTING TO DETERMINE THE SUITABILITY OF THE PRODUCT FOR THE PURPOSE INTENDED AND USER'S PARTICULAR APPLICATION.



"X"= 1 - No.2 PHILLIPS RECESS, KNURLED KNOB
 3 - No.2 PHILLIPS RECESS, SMOOTH KNOB
 5 - T25 TORX® RECESS, KNURLED KNOB
 6 - T25 TORX® RECESS, SMOOTH KNOB
 7 - T15 TORX®/SLOT RECESS, KNURLED KNOB
 8 - T15 TORX®/SLOT RECESS, SMOOTH KNOB
 9 - No2, PHILLIPS/SLOT RECESS, KNURLED KNOB
 A - No2, PHILLIPS/SLOT RECESS, SMOOTH KNOB

ASSEMBLY PART NUMBER	SCREW SIZE	MAXIMUM INSTALLATION FORCE N (lbf) ①②	AVERAGE PUSH-OUT FORCE N (lbf) ③	AVERAGE SIDE-LOAD FORCE N (lbf) ④	RECOMMENDED TIGHTENING TORQUE N_cm (lbf_in) ⑤	AVERAGE ULTIMATE TIGHTENING TORQUE N_cm (lbf_in) ⑥
52-1X-1 $\frac{1}{3}$ -4-EEE FLARE-IN	4-40	3000 (674)	657 (148)	135 (30)	60 (5.2)	178 (15.8)
52-1X-5 $\frac{1}{3}$ -4-EEE PRESS-IN		10000 (2248)	1251 (281)	130 (29)		
52-2X-21-4-EEE FLARE-IN	6-32	3000 (674)	1154 (260)	251 (56)	110 (9.6)	283 (25)
52-2X-5 $\frac{1}{3}$ -4-EEE PRESS-IN		10000 (2248)	1482 (333)	101 (23)		
52-3X-1 $\frac{1}{3}$ -4-EEE FLARE-IN	M3	3000 (674)	657 (148)	135 (30)	60 (5.2)	180 (15.9)
52-3X-5 $\frac{1}{3}$ -4-EEE PRESS-IN		10000 (2248)	1251 (281)	130 (29)		
52-4X-21-4-EEE FLARE-IN	M4	3000 (674)	1379 (310)	402 (90)	224 (19.8)	580 (51.3)
52-4X-5 $\frac{1}{3}$ -4-EEE PRESS-IN		10000 (2248)	1444 (324)	137 (30)		

- PRESS-IN ASSEMBLIES WERE INSTALLED AND TESTED IN 0.9mm (.036in) THICK COLD ROLLED STEEL PANELS (MAXIMUM Rb55).
 - FLARE-IN M3/4-40 ASSEMBLIES WERE INSTALLED AND TESTED IN 0.8mm (.031in) THICK COLD ROLLED STEEL PANELS (MAXIMUM Rb55).
FLARE-IN M4/6-32 ASSEMBLIES WERE INSTALLED AND TESTED IN 1.5mm (.060in) THICK COLD ROLLED STEEL PANELS (MAXIMUM Rb55).
 - FAILURE OCCURRED IN THE SCREW PUSHING OUT OF THE ASSEMBLY, OR THE ASSEMBLY PUSHING OUT OF THE PANEL, OR THE STANDOFF SPLITTING.
 - FAILURE OCCURRED IN THE ASSEMBLY REMOVED FROM PANEL.
 - REFERENCE - ASSEMBLY ENGINEERING MASTERS CATALOG;VOL. 10, 1971(C)HITCHCOCK PUBLISHING CO.
 - FAILURE OCCURRED IN THE BREAKING OF THE SCREW SHANK.
- REF: TR52-10058