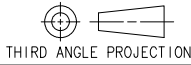


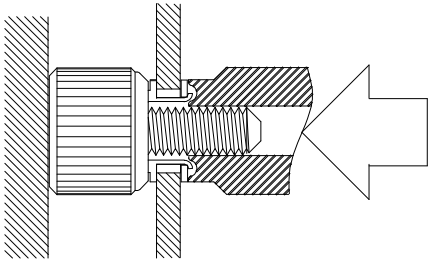
REV	DATE	DRAWN/CHKD	DESCRIPTION
B	09APR2002	GDM	UPDATE FORMAT



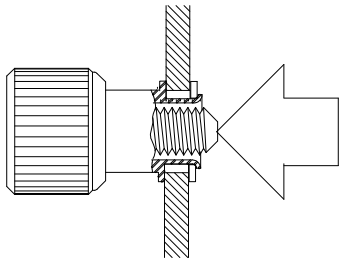
THIRD ANGLE PROJECTION

A  
PAPER  
SIZE

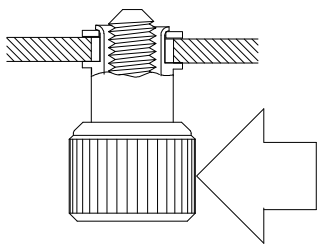
SOUTHCO PERFORMANCE GUIDELINES  
THE PERFORMANCE GUIDELINES SHOWN ON THIS PAGE ARE SUPPLIED AS A GENERAL GUIDE ONLY. AS CONDITIONS VARY WITH EACH APPLICATION AND METHOD OF INSTALLATION, STRENGTH DATA GIVEN IS FOR FAILURE OF THE PRODUCT OR FOR SUFFICIENT DEFORMATION TO MAKE PRODUCT INOPERABLE. NO SAFETY 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.



INSTALLATION



PUSH-OUT



SIDE LOAD

THREAD SIZE	PANEL THICKNESS (MM/IN)	ASSEMBLY PART NUMBER	AVG. OPTIMUM INSTALLATION FORCE (N/LBS.)	MIN PUSH-OUT FORCE HELD (N/LBS)	MIN SIDE FORCE HELD (N/LBS.)
#4-40, M3	.78/.031	47-10-130-10 /REV 0	890/200	220/50 ①	250/56 ③
#4-40, M3	4.75/.187	47-10-115-10 /REV 0	890/200	220/50 ①	290/66 ③
#6-32, M3.5	.78/.031	47-10-210-10 /REV 0	1450/325	670/150 ②	280/63 ③
#6-32, M3.5	4.75/.187	47-10-215-10 /REV 0	1110/250	800/180 ②	350/78 ③
#10-32, M5	.78/.031	47-10-510-10 /REV 0	2670/600	670/150 ④	280/63 ⑤
#10-32, M5	4.00/.157	47-10-515-10 /REV 0	2670/600	670/150 ④	450/100 ③
1/4-20, M6	.78/.031	47-10-610-10 /REV 0	3120/700	890/200 ④	220/50 ⑤
1/4-20, M6	4.00/.157	47-10-615-10 /REV 0	3120/700	890/200 ④	580/130 ⑤

Failure modes observed in testing:

- ① Screw was pushed out of the knob
- ② Various failure modes observed above this force:
  - A. Screw was pushed out of the knob
  - B. Knob was pushed off of ferrule
  - C. Ferrule was pushed out of the panel
- ③ Ferrule was pushed out of the panel
- ④ Knob and screw, intact, were pushed out of ferrule
- ⑤ Excessive panel deformation, however no damage to assembly
- ⑥ Combination of ① and ④

REF: 47-22, 47-24, 47-24A