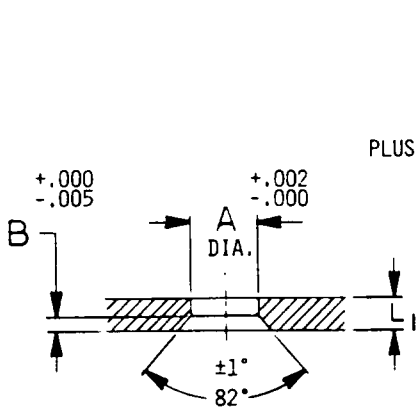


FIGURE I

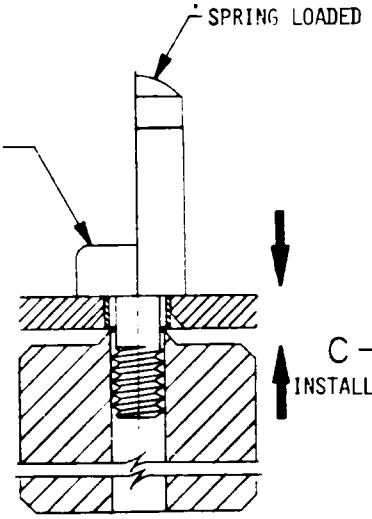


FIGURE II

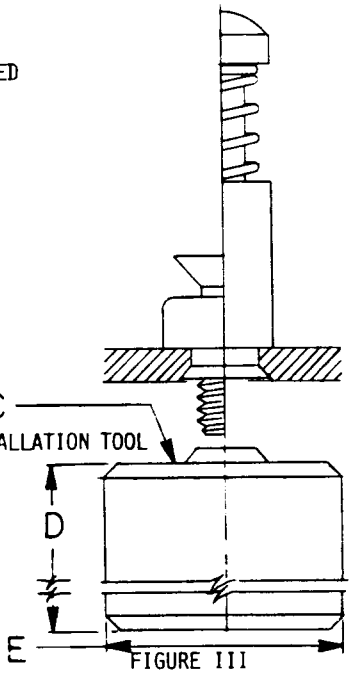


FIGURE III

TABLE I

	NOMINAL SIZE FIRST DASH NUMBER	+.002 -.000 A DIA.	+.000 -.005 B	C INSTALLATION TOOL	D	E
	-02	.125	.030	CA1132-7	1.000	.37
	-04	.140	.030	CA1132-2	1.000	.50
	-06	.188	.045	CA1132-3	1.000	.75
*	-08	.218	.050	CA1132-4	1.000	.75
	-3	.250	.055	CA1132-5	1.000	.75
	-4	.375	.062	CA1132-6	1.000	.75
**	-08	.250	.055	CA1132-8	1.000	.75

NOTES:

1. PANEL PREPARATION AND INSTALLATION PROCEDURES.
1.1. PANEL PREPARATION, SEE FIGURE I.
1.1.1. DRILL OR PUNCH "A" $^{+.002}_{-.000}$ DIA. THRU.
1.1.2. COUNTER SINK 82° ± 1° x "B" $^{+.000}_{-.005}$ DEEP.
1.2. INSTALLATION PROCEDURES, SEE FIGURES II AND III.
1.2.1. INSTALL CAPTIVE SCREW ASSEMBLY INTO PREPARED PANEL AND POSITION INSTALLATION TOOL "C" AS SHOWN IN FIGURE II.
1.2.2. SWAGE SCREW ASSEMBLY INTO PANEL BY APPLYING COMPRESSIVE FORCE ON SCREW ASSEMBLY AND INSTALLATION TOOL. SEE FIGURE II.
1.2.3. SCREW ASSEMBLY IS NOW CAPTIVATED INTO PANEL AS SHOWN IN FIGURE III.

* FOR USE ON CA1450-08-[]-[] AND CA11020-08-[]-[] SCREW ASSEMBLIES.

** FOR USE ON CA29040-08-[]-[] AND CA29041-08-[]-[] SCREW ASSEMBLIES.

REVISION | A | 10/16/80 | ECO#7157 | B | 12/21/82 | ECO#8111

DRAWN BY J.A MORAN	DATE 10-2-79	TITLE	
MFG ENGR	DATE 10-9-79	INSTALLATION DATA SWAGE TYPE CAPTIVE SCREW ASSEMBLIES CA1450-[]-[]-[], CA11020-[]-[]-[], CA29040-[]-[] AND CA29041-[]-[]-[]	Tridair a Rexnord Company 3000 W. Lomita Blvd. Torrance, CA 90505 213.530.2222
APPROVED BY	DATE 10-9-79		
APPROVED BY	DATE	UNLESS OTHERWISE SPECIFIED TOLERANCES: DECIMALS .XX ± .02, .XXX ± .010; ANGLES ± 2°; MILLIMETERS ± 0.50, ± 0.25; SURFACE FINISH 125 MICROINCHES	CAL-STD-0140
PROJECT NUMBER			FSC: 29372 SHEET 1 OF 6

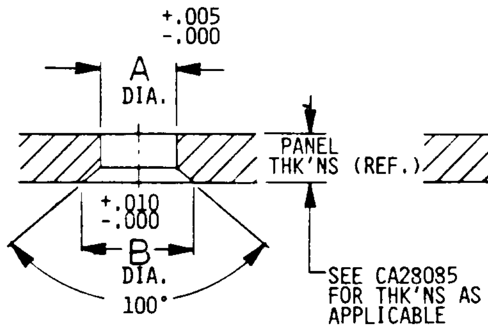


FIGURE I

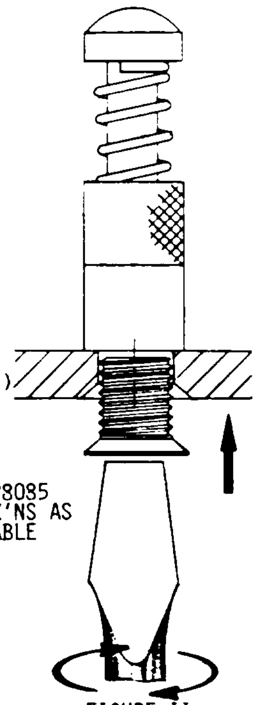


FIGURE II

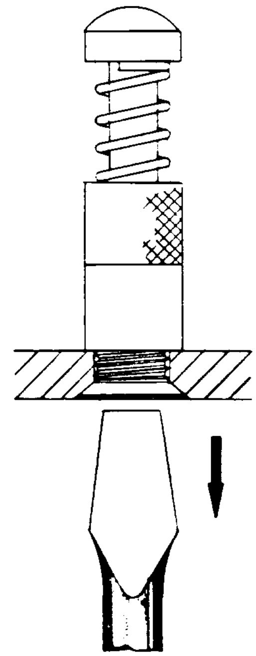


FIGURE III

TABLE I

NOMINAL SIZE FIRST DASH NUMBER	+.005 -.000 A DIA.	+.010 -.000 B DIA.
-04	.164	.228
-06	.216	.357
-08 AND -3	.250	.398
-4	.375	.571

NOTES:

1. PANEL PREPARATION AND INSTALLATION PROCEDURES.
1.1. PANEL PREPARATION, SEE FIGURE I.
1.1.1. DRILL OR PUNCH "A" $^{+.005}_{-.000}$ DIA. THRU.
1.1.2. COUNTER SINK 100° x "B" $^{+.010}_{-.000}$ DIA.
1.2. INSTALLATION PROCEDURES, FIGURES II AND III.
1.2.1. POSITION CAPTIVE SCREW ASSEMBLY AND INSTALL NUT RETAINER INTO PREPARED PANEL. ENGAGE NUT RETAINER INTO HOUSING OF CAPTIVE SCREW AND TIGHTEN WITH SCREW DRIVER. SEE FIGURE II.
1.2.2. SCREW ASSEMBLY IS NOW CAPTIVATED INTO HOUSING AS SHOWN IN FIGURE III.
2. DISASSEMBLY.
2.1. FOR DISASSEMBLY OF CAPTIVE SCREW FROM PANEL, REVERSE INSTALLATION PROCEDURES 1.2.

REVISION			
A	12/21/82		ECO9811

DRAWN BY J A MORAN — DATE 10-2-79
MFG ENG — DATE 10-9-79
APPROVED BY — DATE 10-9-79
APPROVED BY — DATE

TITLE
INSTALLATION DATA
NUT RETAINER TYPE CAPTIVE SCREW ASSEMBLIES
CA28080-[]-[], CA2440-[]-[]
AND CA28102-[]-[]

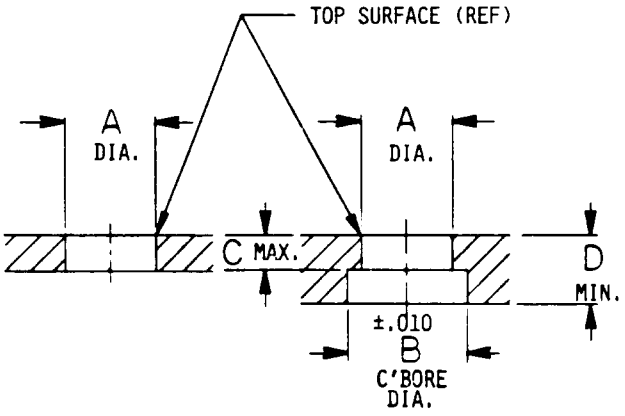
Tridair
a Rexnord Company
3000 W. Lomita Blvd.
Torrance, CA 90505
213 530 2220

UNLESS OTHERWISE SPECIFIED
TOLERANCES — MILLIMETERS — SURFACE FINISH 125 MICROINCHES
DECIMALS .XX ± .02 — ± 0.50
.XXX ± .010 — ± 0.25
ANGLES ± 2°

PROJECT NUMBER

CAL-STD-0140

FSC: 29372 SHEET 2 OF 6



TYPE I
FIGURE IA

TYPE II
FIGURE IB

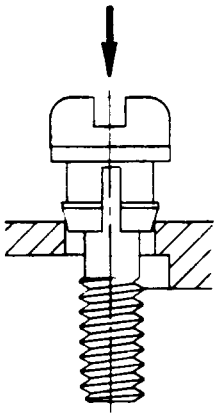


FIGURE II

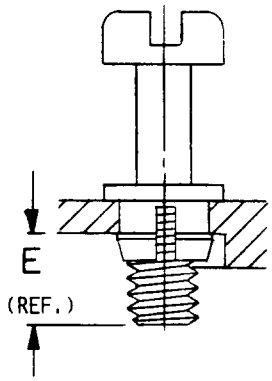


FIGURE III

NOMINAL SIZE FIRST DASH NUMBER	A DIA.	±.010 B C'BORE DIA.	L_1 SECOND DASH NUMBER	C MAX.	D MIN.	E (REF.)
-06	+.003 -.002 .190	.250	-1	.048	.113	.200
			-2	.075	.140	.175
			-3	.105	.170	.145
-08	+.006 -.002 .218	.281	-1	.048	.113	.260
			-2	.075	.140	.235
			-3	.105	.170	.205
-3	+.006 -.002 .250	.312	-1	.048	.113	.260
			-2	.075	.140	.235
			-3	.105	.170	.205
-4	+.006 -.002 .312	.375	-1	.060	.125	.310
			-2	.090	.155	.280
			-3	.120	.185	.250

NOTES:

1. PANEL PREPARATION AND INSTALLATION PROCEDURES.
1.1 PANEL PREPARATION.
1.1.1 TYPE I: DRILL OR PUNCH "A" DIAMETER THRU SEE FIGURE IA.
1.1.2 TYPE II: DRILL OR PUNCH "A" DIAMETER THRU AND COUNTERBORE "B" ±.010 DIAMETER TO "C" MAXIMUM DEEP. SEE FIGURE IB.
1.1.3 REMOVE BURRS FROM TOP AND BOTTOM SURFACES AND BREAK SHARP EDGES .010 MAXIMUM ON TOP SURFACE ONLY.
1.2 INSTALLATION:
1.2.1 SNAP-IN SCREW ASSEMBLY BY APPLYING FORCE TO TOP OF SCREW HEAD TO CAPTIVATE. SEE FIGURE II.
1.2.2 SCREW ASSEMBLY IS NOW CAPTIVATED INTO PANEL AND RETRACTED. SEE FIGURE III.

REVISION	A	B	ECO 8993		ECO 9811
	9/23/82	12/21/82			

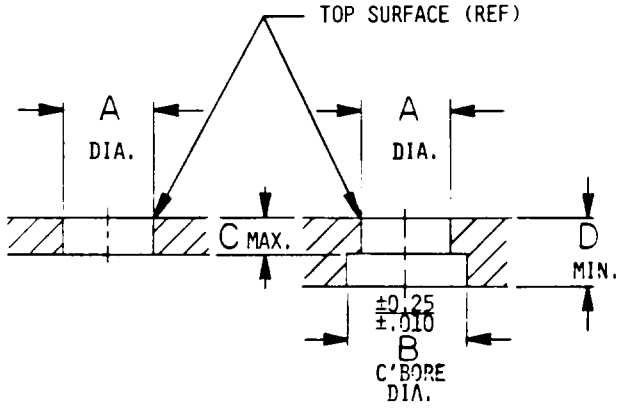
DRAWN BY	DATE	TITLE
J.A. MORAN	10-2-79	INSTALLATION DATA SNAP-IN TYPE CAPTIVE SCREW ASSEMBLY CA13170-[]-[]-[] AND CA13180-[]-[]-[]
ENG	DATE 10-9-79	
APPROVED BY Chet	DATE 10-9-79	
APPROVED BY	DATE	
PROJECT NUMBER		

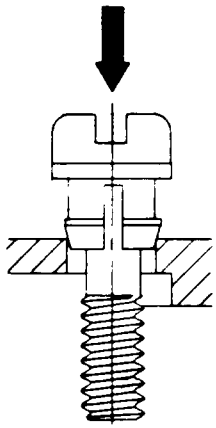
UNLESS OTHERWISE SPECIFIED
TOLERANCES MILLIMETERS SURFACE FINISH
DECIMALS .XX ± .02 ± 0.50 125 MICROINCHES
.XXX ± .010 ± 0.25
ANGLES ± 2°

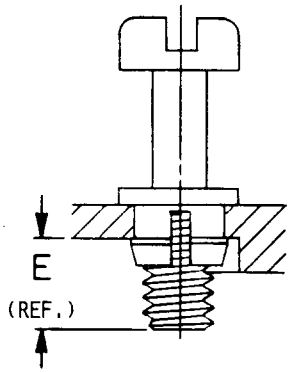
Tridair
a Rexnord Company
3000 W. Lomita Blvd.
Torrance, CA 90505
213 530 2200

CAL-STD-0140

FSC: 29372 SHEET 3 OF 6







TYPE I
FIGURE IA

TYPE II
FIGURE IB

FIGURE II

FIGURE III

TABLE I

NOMINAL SIZE FIRST DASH NUMBER	A DIA.	±0,25 ±.010 B C'BORE DIA.	L_1 DASH NUMBER	C MAX.	D MIN.	E (REF.)
-3	+0.08 -0.05 / 4.83 / +.003 -.002 / .190	6,35 / .250	-1	1,22 / .048	2,24 / .088	5,08 / .200
			-2	1,91 / .075	2,92 / .115	4,45 / .175
			-3	2,67 / .105	3,68 / .145	3,68 / .145
-4	+0.15 -0.05 / 5.54 / +.006 -.002 / .218	7,14 / .281	-1	1.22 / .048	2.24 / .088	6,60 / .260
			-2	1,91 / .075	2,92 / .115	
			-3	2,67 / .105	3,68 / .145	5,21 / .205
-5	+0.15 -0.05 / 6.35 / +.006 -.002 / .250	7,92 / .312	-1	1,22 / .048	2,24 / .088	6,60 / .260
			-2	1,91 / .075	2,92 / .115	5,97 / .235
			-3	2,67 / .105	3,68 / .145	5,21 / .205
-6	+0.15 -0.05 / 7.92 / +.006 -.002 / .312	9,53 / .375	-1	1,52 / .060	2,54 / .100	7,87 / .310
			-2	2,29 / .090	3,30 / .130	7,11 / .280
			-3	3,05 / .120	4,06 / .160	6,35 / .250

NOTES:

1. PANEL PREPARATION AND INSTALLATION PROCEDURES.
1.1 PANEL PREPARATION:
1.1.1 TYPE I: DRILL OR PUNCH "A" DIAMETER THRU. SEE FIGURE IA.
1.1.2 TYPE II: DRILL OR PUNCH "A" DIAMETER THRU AND C'BORE "B" $\frac{\pm 0,25}{\pm .010}$ DIAMETER TO C MAXIMUM DEEP. SEE FIGURE IB.
1.1.3 REMOVE BURRS FROM TOP AND BOTTOM SURFACES AND BREAK SHARP EDGES $\frac{0,25}{.010}$ MAXIMUM ON TOP SURFACE ONLY.
1.2 INSTALLATION:
1.2.1 SNAP-IN SCREW ASSEMBLY BY APPLYING FORCE TO TOP OF SCREW HEAD TO CAPTIVATE. SEE FIGURE II.
1.2.2 SCREW ASSEMBLY IS NOW CAPTIVATED INTO PANEL AND RETRACTED. SEE FIGURE III.
2. DIMENSIONS ARE IN MILLIMETERS, INCHES

REVISION	A	B	ECO9993	ECO9811
	3/23/82	12/21/82		

DRAWN BY J.A. MORAN	DATE 10-2-79	TITLE: INSTALLATION DATA SNAP-IN TYPE CAPTIVE SCREW ASSEMBLY "METRIC" CA 13044-[]-[]-[]
APPROVED BY	DATE 10-9-79	Fridair, a Rexnord Company, 3000 W. Lomita Blvd, Torrance, CA 90505, 213 530 2220
APPROVED BY	DATE	UNLESS OTHERWISE SPECIFIED TOLERANCES: DECIMALS .XX ± .02 (MILLIMETERS ± 0.50); .XXX ± .010 (± 0.25); ANGLES ± 2°; SURFACE FINISH 125 MICROINCHES
PROJECT NUMBER		CAL-STD-0140
		FSC: 29372 SHEET 4 OF 6

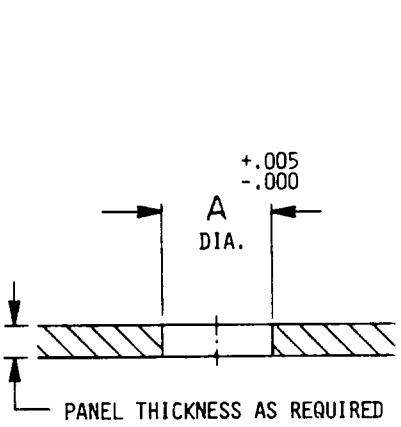


FIGURE I

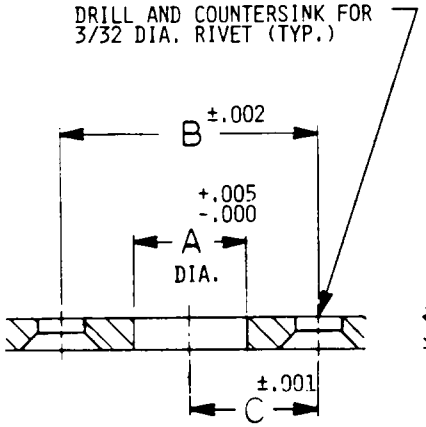


FIGURE II

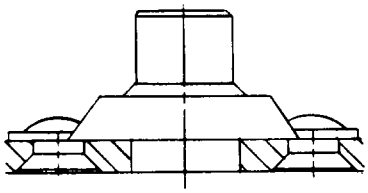


FIGURE III

TABLE I

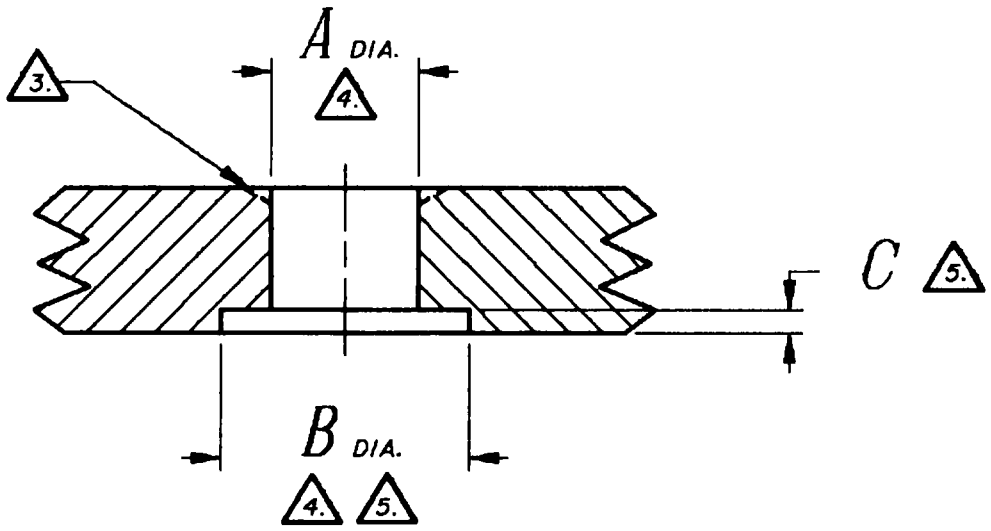
NOMINAL SIZE FIRST DASH NUMBER	+.005 -.000 A DIA.	±.002 B	±.001 C
-06	.178	.500	.250
-08	.204	.500	.250
-3	.230	.500	.250
-4	.290	.562	.281

NOTES:

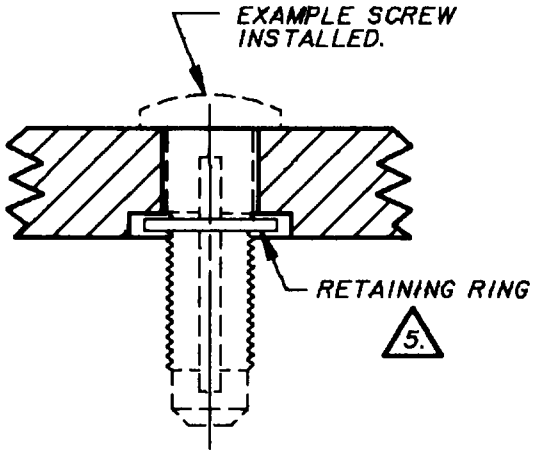
1. PANEL PREPARATION AND INSTALLATION PROCEDURES.
1.1. PANEL PREPARATION:
1.1.1. DRILL OR PUNCH "A" +.005 -.000 DIA. THRU. SEE FIGURE I.
1.1.2. DRILL AND COUNTERSINK FOR 3/32 DIA. RIVET x "B" ±.002. SEE FIGURE II.
1.2. INSTALLATION PROCEDURE.
1.2.1. POSITION NUT PLATE TO PREPARED PANEL AND RIVET AS SHOWN. SEE FIGURE III.

REVISION | A | 12/21/82 | EC09811

DRAWN JA MORAN	DATE 10-2-79	TITLE INSTALLATION DATA NUT PLATE CA 3440-[]	Rexnord Company 300 W. Lomita Blvd. Torrance, CA 90502
	10-9-79		
	10-9-79		
APPROVED	DATE	UNLESS OTHERWISE SPECIFIED TOLERANCES: MILLIMETERS ±0.5 SURFACE FINISH 125 MICROINCHES	CAL-STD-0140
PART NUMBER			FSC: 29372 SHEET 5 OF 6



SCREW THREAD SIZE	A DIA.	B DIA.	C DEPTH
.138-32	.138 .144	.230 .240	.020 .030
.164-32	.164 .170	.290 .300	.025 .035
.190-32	.190 .196	.340 .350	.025 .035
.250-28	.250 .256	.420 .430	.030 .040



PANEL PREPARATION & INSTALLATION:

1. DRILL **A** DIA. HOLE THRU PANEL.
2. COUNTERBORE **B** DIA. X **C** DEPTH FOR RETAINING RING CAVITY (IN LIEU OF USING CA21062-( )( )S SPACER OR CA21062-( )( )W WASHER.)
3. WHEN USING FLUSH HEAD SCREWS, COUNTERSINK PANEL TOP SURFACE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SCREW BEING USED.
4. WHEN SCREW FLOAT IS REQUIRED (FOR PROTRUDING HEAD SCREWS), **A** & **B** DIAMETERS MAY BE INCREASED TO ACCOMODATE SIDE-TO-SIDE MOVEMENT OF THE SCREW. CARE SHOULD BE TAKEN SO THAT THE INCREASED HOLE DIAMETERS DO NOT ALLOW EITHER THE SCREW HEAD OR THE RETAINING RING TO FALL INTO OR THRU THE **A** DIAMETER HOLE.
5. **B** DIAMETER X **C** DEPTH RETAINING RING CAVITY MAY BE IN THE BOTTOM SURFACE OF THE TOP PANEL AS SHOWN OR IN THE TOP SURFACE OF THE SUBSTRUCTURE AT CUSTOMERS OPTION.
6. SEE DRAWING NO. CA21062-( )-TIO FOR INSTALLATION PROCEDURE.

REVISION	B	ECO-22426	5-22-89	V.J.M.

DRAWING PROVIDES FORM, FIT AND FUNCTION DATA. DO NOT ATTEMPT TO MANUFACTURE PRODUCT USING THIS DRAWING.

DRAWN BY: V.MARINI	DATE: 5-22-89	TITLE: INSTALLATION DATA RETAINING RING TYPE CAPTIVE SCREW ASSEMBLIES. CA21062-[]-[]-[] CA21063-[]-[]-[] & CA21088-[]-[]-[]
MFG. ENGRG.: J.K.	DATE: 6-3-89	
APPROVED BY:	DATE: 5/25/89	
APPROVED BY:	DATE:	UNLESS OTHERWISE SPECIFIED: TOLERANCES: DECIMALS: .XX ±.02, .XXX ±.010 ANGLES: ±2° MILLIMETERS ± 0.50, ± 0.25 SURFACE FINISH 125 MICROINCHES
PROJECT NUMBER	89-140	

Tridair fasteners
REXFORD SPECIALTY FASTENER DIVISION
3900 W. LOMITA BOULEVARD
TORRANCE, CA. 90505

CAL-STD-0140

FSC: 29372 SHEET 6 OF 6