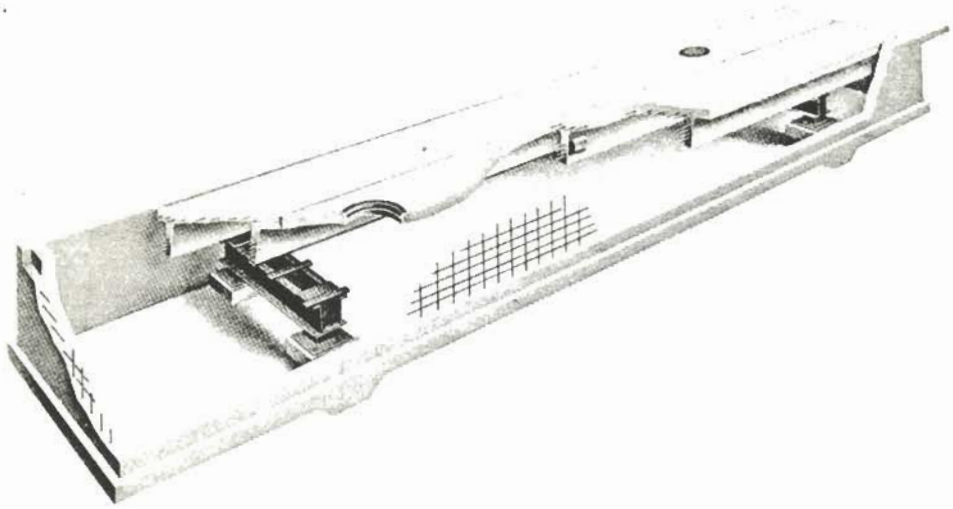
TOLEDO SCALE
RELIANCE ELECTRIC

PARTS CATALOG

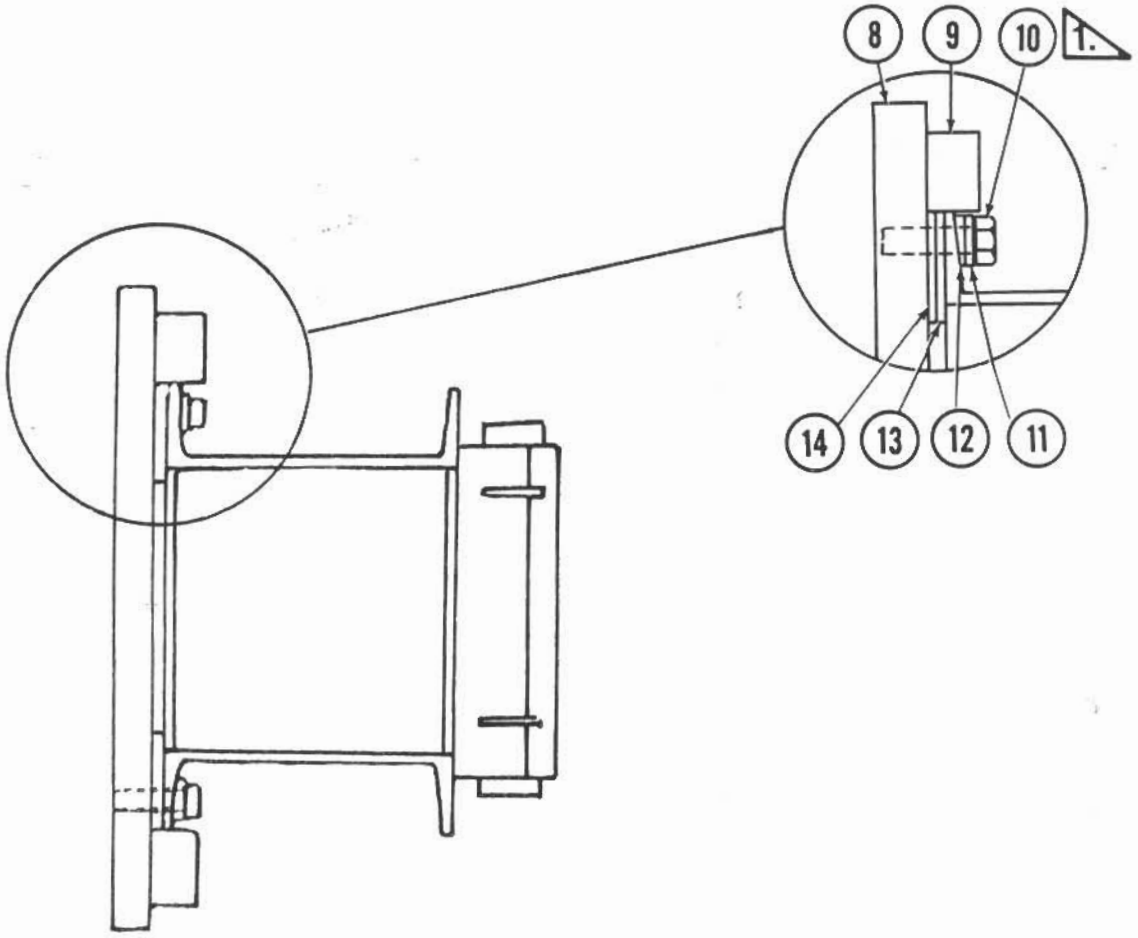


MODEL 7500

PC 007500 I01

Revised 4/82
Printed in U.S.A.

END WEIGHING CROSS BEAM ASSEMBLY



NOTE (1) —Required only if Toledo load cell with cable connector is used in cellink assembly.

NOTE (2) —Fixing key must be welded to load transfer bar in the field. Weld key to load transfer bar with no clearance between key and cross beam flange. Do not weld key to cross beam.

One weighing cross beam assembly has all four (4) load transfer bars affixed with a key on each end—eight (8) keys required; other weighing cross beam assembly has the two (2) center load transfer bars without keys—four (4) fixing keys required.

NOTE (3) —Components used only on weighing cross beam assemblies for platform size—12 ft. X 10 ft.

NOTE (4) —Weighing cross beam assembly is shipped with one (1) B100134 00A and two (2) B100134 00B spacer plate at each load transfer bar retaining location—eight (8) places.

NOTE (5) —For contents, see listing under Spacer/Shim Plates and Miscellaneous Components.

1. Indicates application of anti-seize and lubricating compound (Never-Seez) to all threads of retaining bolts, screws, nuts, etc.

Toledo Scale Part Number for 8 oz. container of Never-Seez is 083006 020.

MODEL 7500 BRIDGEMASTER
REPLACEMENT PLATFORM ELEMENT TABLE

PLATFORM SIZE	PLATFORM ELEMENT PART NUMBER			
	QTY.	WITH MANHOLE	QTY.	WITHOUT MANHOLE
12 FT. X 10 FT.	1	B100180 00A	1	B100180 00B
30 FT. X 10 FT.	1	B102472 00A	1	B102472 00B
40 FT. X 10 FT.	1	C100179 00A	1	C100179 00B
60 FT. X 10 FT.	2	C100181 00A		
70 FT. X 10 FT.	1 1	B102472 00A C100179 00A	1 1	B102472 00B C100179 00B
80 FT. X 10 FT.	2	C100179 00A	2	C100179 00B

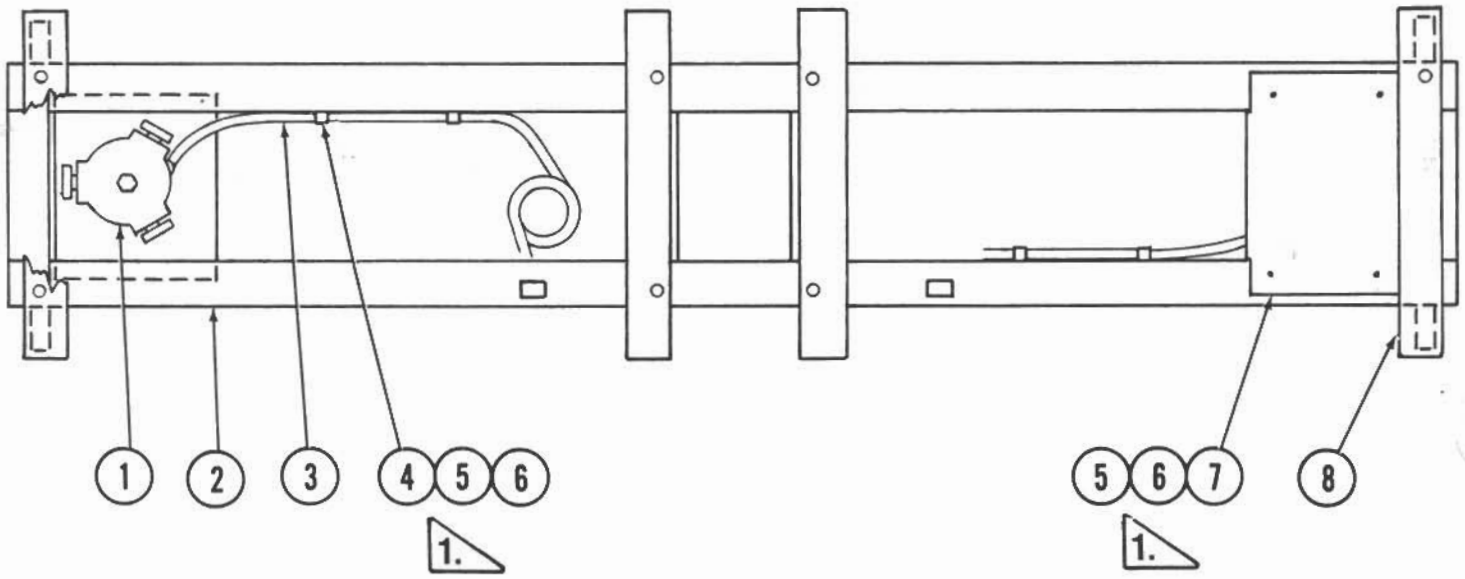
MODEL 7500 BRIDGEMASTER
REPLACEMENT WEIGHING CROSS BEAM ASSEMBLY TABLE

	END WEIGHING CROSS BEAM ASSEMBLIES				JOINT/CENTER
PLATFORM SIZE	50K TOLEDO LOAD CELL; LOAD TRANSFER BARS—TWO (2) BARS WITH KEYS; TWO (2) CENTER BARS WITHOUT KEYS	50K TOLEDO LOAD CELL; LOAD TRANSFER BARS (4) ALL WITH KEYS	100K TOLEDO LOAD CELL; LOAD TRANSFER BARS—TWO (2) BARS WITH KEYS; TWO (2) CENTER BARS WITHOUT KEYS	100K TOLEDO LOAD CELL; LOAD TRANSFER BARS (4) ALL WITH KEYS	WEIGHING CROSS BEAM ASSEMBLIES
12 FT. X 10 FT.	D106937 00A	D106937 00B	•D106937 00E	•D106937 00F	
30 FT. X 10 FT.			D106937 00E	D106937 00F	
40 FT. X 10 FT.			D106937 00E	D106937 00F	
60 FT. X 10 FT.			D106937 00E	D106937 00F	
70 FT. X 10 FT.			D106937 00E(2)		C106938 00A
80 FT. X 10 FT.			D106937 00E(2)		C106938 00A

•DENOTES—12 FT. X 10 FT. PLATFORM COULD BE FURNISHED WITH 100K LOAD CELL ASSEMBLIES

( ) - QUANTITY REQUIRED

END WEIGHING CROSS BEAM ASSEMBLY



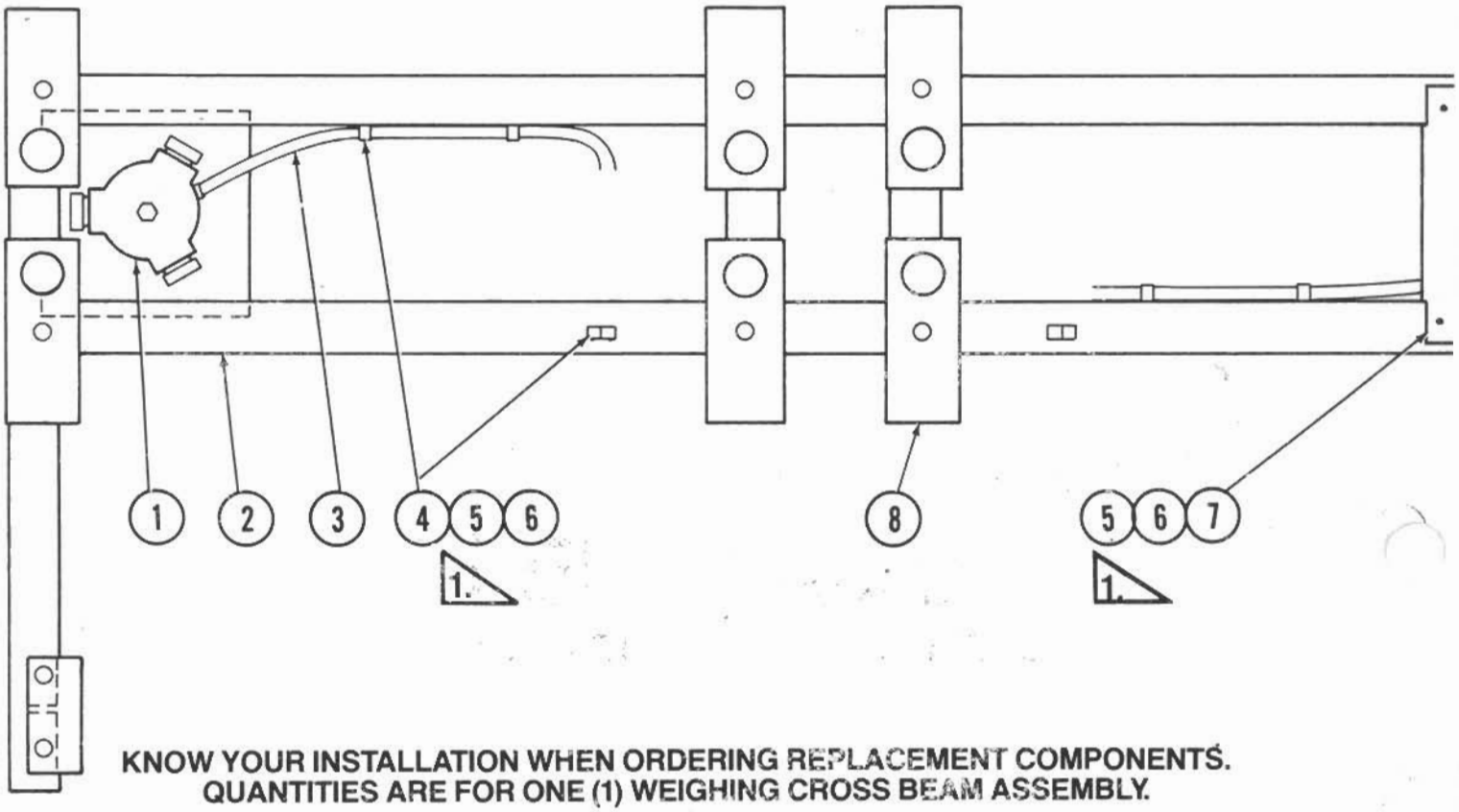
QUANTITIES ARE FOR ONE (1) END WEIGHING CROSS BEAM ASSEMBLY.

REF	PART NUMBER	DESCRIPTION	QTY.
1	+	Cellink Assy.	2
2	N.A.S.	*Cross Beam, End*	1
3	A10694100A	Cable, Load Cell Interconn. 40 Ft.*	
	A10694200A	Cable, Load Cell Interconn. 15 Ft.* (12 ft. X 10 ft. Platform)	2
4	11472800A	Clamp, Cable	6
5	R00799050	Screw, 3/8-16x1	14
6	R01539050	Nut 3/8-16	14
7	10014400A	Cover	2
8	10013200A	Bar, Load Transfer	4
9	10013300A	Key, Fixing**	4/8
10	R01954050	Bolt, 7/8-9 x 3	8
11	R01955210	Lockwasher***	8
12	R0231100A	Washer, Bevel***	8
13	B10013400A	Spacer****	8
14	B10013400B	Spacer****	16

REF	PART NUMBER	DESCRIPTION	QTY.
N.S.	C10013500A	Cable & Spacer KOP*****	1

\+ - See Cellink Listing
N.A.S. - Not Available Separately
N.S. - Not Shown
* - See Note 1
** - See Note 2
*** - See Note 3
**** - See Note 4
***** - See Note 5

JOINT / CENTER WEIGHING CROSS BEAM ASSEMBLY

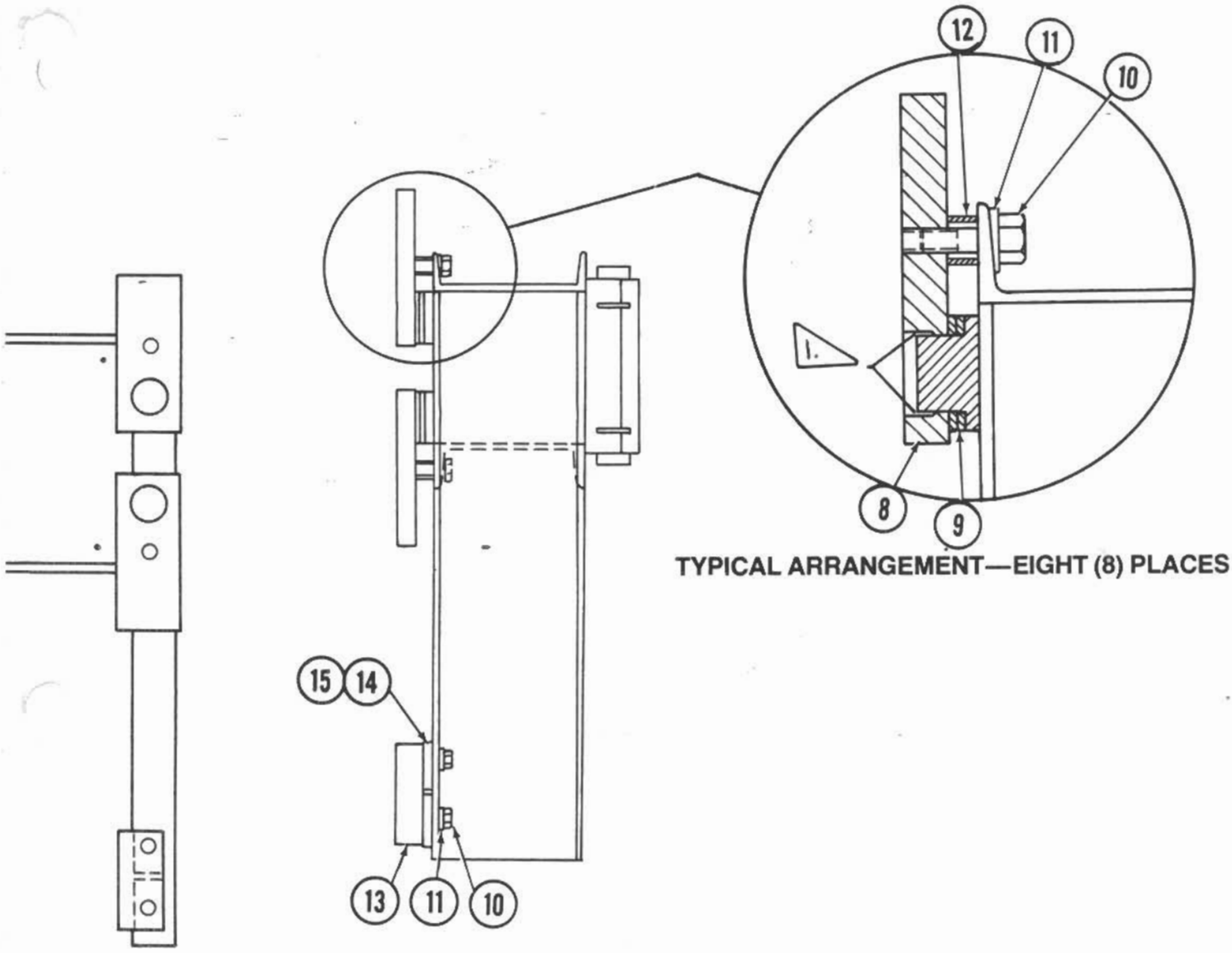


KNOW YOUR INSTALLATION WHEN ORDERING REPLACEMENT COMPONENTS.
QUANTITIES ARE FOR ONE (1) WEIGHING CROSS BEAM ASSEMBLY.

REF	PART NUMBER	DESCRIPTION	QTY.	REF	PART NUMBER	DESCRIPTION	QTY.
1	+	Cellink	2				
2	N.A.S.	Cross Beam Joint	1				
3	*A10694100A*	*Cable—Load Cell (40 ft.)**	*2*				
4	11472800A	Clamp, Cable	6				
5	R00799050	Screw, 3/8-16 x 1	14				
6	R01539050	Nut, 3/8-16	14				
7	10014500A	Cover	2				
8	10014000A	Bar, Joint Load Transfer	8				
9	10014100A	Ring, Spacer**	16				
10	R01954050	Bolt, 7/8-9 x 3	12				
11	R0231100A	Washer, Bevel	12				
12	10014200A	Spacer, Pipe***	8				
13	B10014300A	Bar, Moment Transfer	2				
14	B10013400B	Spacer, Plate****	8				
15	B10013400A	Spacer, Plate****	4				
N.S.	C10014800A	Spacer KOP *****	1				

+—See Cellink Listing
N.A.S.—Not Available Separately
N.S.—Not Shown
*—See Note 1
**—See Note 2
***—See Note 3
****—See Note 4
*****—See Note 5

JOINT / CENTER WEIGHING CROSS BEAM ASSEMBLY



TYPICAL ARRANGEMENT—EIGHT (8) PLACES

NOTE (1) —Required only if Toledo load cell with cable connector is used in cellink assembly.

NOTE (2) —Weighing cross beam assembly is shipped with two (2) spacer rings beneath each load transfer bar.

NOTE (3) —Pipe spacer only required for shipping; removed at time of installation.

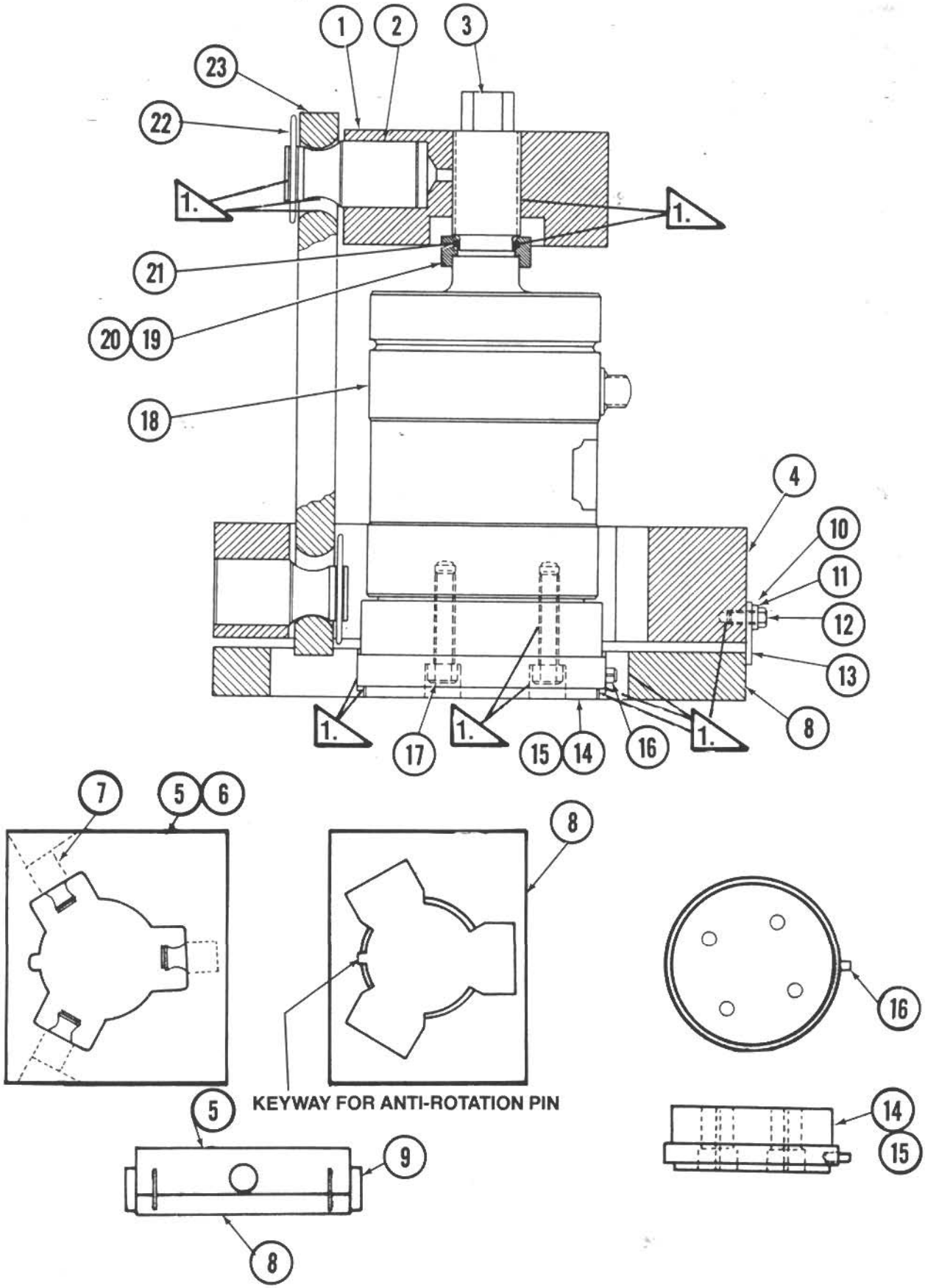
NOTE (4) —Weighing cross beam assembly is shipped with two (2) B100134 00A and four (4) B100134 00B spacer plates beneath each moment arm transfer bar.

NOTE (5) —For contents, see listing under spacer/shim plates and miscellaneous components.

1. Indicates application of anti-seize and lubricating compound (Never-Seez) to all threads of retaining bolts, screws, nuts and surfaces.

Toledo Scale Part Number for 8 oz. container of Never-Seez is 083006020.

CELLINK ASSEMBLY



LOCATING PLATE - LOAD CELL SUPPORT BASE PLATE COMPONENT ARRANGEMENT

QUANTITIES ARE FOR (1) WEIGHING CROSS BEAM CORNER CELLINK COMPONENT ARRANGEMENT

REF	PART NUMBER	DESCRIPTION	QTY.	REF	PART NUMBER	DESCRIPTION	QTY
1	A100106 00A	Upper Unit Assembly	1	18	100119 00A	Load Cell Assy.(100K)	
2	N.A.S.	• Pin, Link	3			with 35 Ft. Cable***	1
3	100113 00A	Screw,Center1¾-12UNF(100K)	1		B105255 00A	Load Cell Assy.(100K)	
	100174 00A	Screw, Center 1¾-12UNF(50K)	1			with Cable Conn.***	1
4	A100109 00A	Lower Unit Assembly	1		114241 00A	Load Cell Assy.(100K)	
5	A100156 00A	• Plate Assy., Lower	1			with 35 Ft. Cable	1
6	N.A.S.	•• Plate, Lower	1		114242 00A	Load Cell and Adaptor Assy.	
7	N.A.S.	•• Pin, Link	3			(100K) with 35 Ft. Cable	1
8	A100111 00A	• Plate, Locating	1		049680 020	Load Cell Assy.(50K)	
9	100112 00A	• Joiner, Assembly	8			with 35 Ft. Cable***	1
10	100104 00A	Skirt, Rubber (KOP)	1		B105237 00A	Load Cell Assy. (50K)	
11	100121 00A	• Bar, Clamping	4			with Cable Conn.***	1
12	R00773 050	• Screw	8	19	100153 00A	Adaptor Ring Assy.(50K)	1
13	100120 00A	• Skirt, Rubber	4		100114 00A	Adaptor Ring Assy. (100K)	1
14	B100321 00A	Base Plate & Pin Assy.		20	100152 00A	• Ring, Adaptor (50K)	1
		50K Load Cell**	1		100122 00A	• Ring, Adaptor (100K)	1
	A100118 00A	Base Plate & Pin Assy.		21	R02396 00A	• "O" Ring (50K)	1
		100K Load Cell**	1		R01656 020	• "O" Ring (100K)	1
15	B100320 00A	• Plate, Base (50K)	1	22	100117 00A	Clip	6
	A100123 00A	• Plate, Base (100K)	1	23	A100115 00A	Link, Notched*	1
16	R02298 00A	• Pin, Roll .375 x 1.5	1		A100115 00B	Link	2
17	R02310 050	Screw, ½-20 x 2½ (100K)	4				
	R02383 00A	Screw, ⅜-24 x 3 (50K)	4				

N.A.S. - Not Available Separately
* - See Note 1
** - See Note 2
*** - See Note 3

NOTE (1) -With the Toledo cable connector type load cell assemblies, the cellink may be furnished with three (3) A100115 00B links.

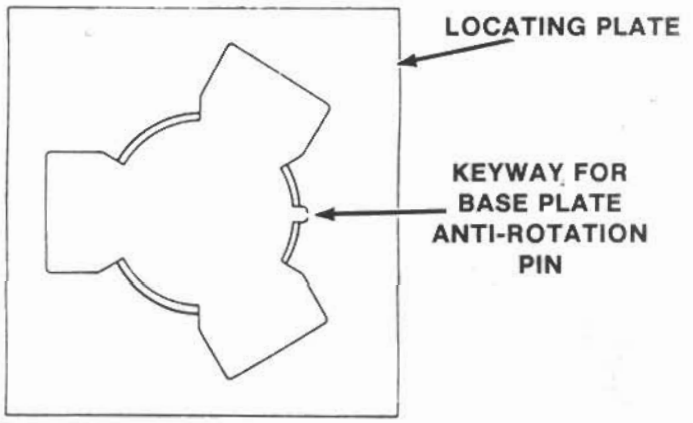
NOTE (2) -Earlier base plate and pin assemblies (100118 00A and 100321 00A) were furnished with R01595 020 roll pin (0.25 x 0.75 long). A100118 00A and *A100321 00A assemblies use* R02298 00A roll pin (0.375 x 1.5 long).

NOTE (3) -12 ft. x 10 ft. platform may be furnished with either 50K or 100K load cell/cellink assemblies.

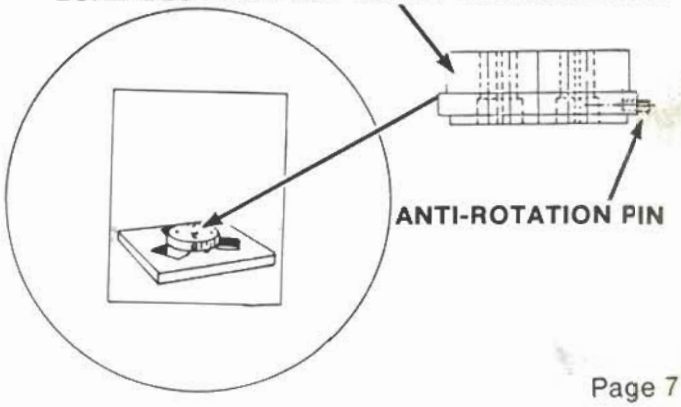
1. Indicates application of anti-seize and lubricating compound (Never-Seez).

Toledo Scale Part Number for 8 oz. container of Never-Seez is 083006 020.

Base plate and pin assemblies are interchangeable providing locating plate keyway can accommodate the 0.375 roll pin.

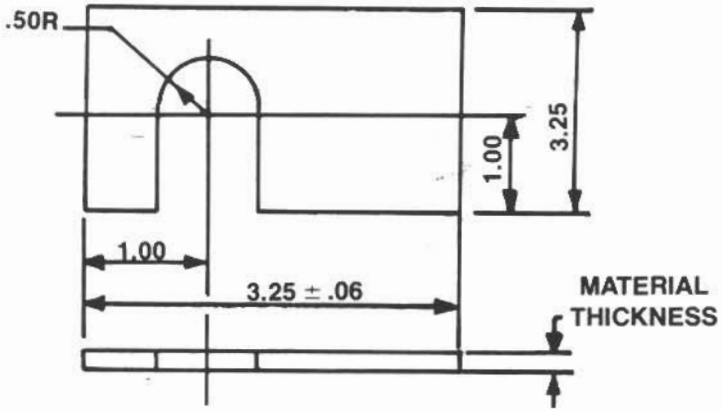


LOAD CELL SUPPORT BASE PLATE ASSEMBLY



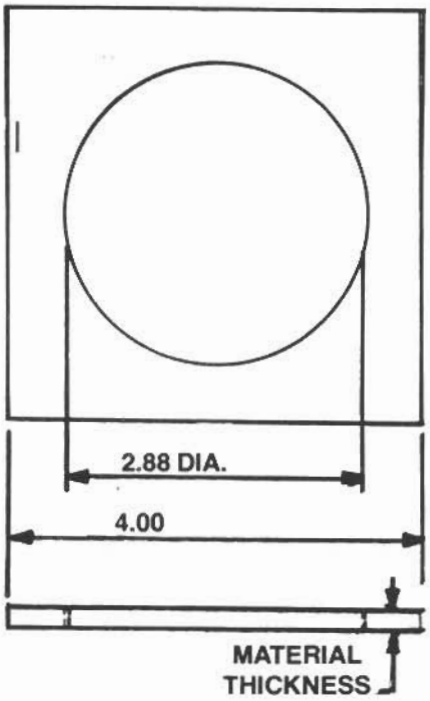
SPACER / SHIM PLATES

B100134—SPACER PLATES



PART NUMBER	THICKNESS
B100134 00A	0.375
B100134 00B	0.125
B100134 00C	0.062
B100134 00D	0.031
B100134 00E	0.015 ± .0015

100141—SPACER RING



PART NUMBER	THICKNESS
100141 00A	0.188
100141 00B	0.125
100141 00C	0.062
100141 00D	0.031

PART NUMBER	DESCRIPTION	QTY.	PART NUMBER	DESCRIPTION	QTY.
C10014800A	Spacer KOP	1	B10013400E	• Spacer Plate	32
B10013400C	• Spacer Plate	8	10013600A	• Eye Bolt (⅜"-¾" Dia. Eye-3" Shank with Two (2) Nuts)	*2
B10013400D	• Spacer Plate	16			
10014100C	• Spacer Ring	8	A10015700A	• Wire Rope—49 ft. (±6 in.)	*1
10014100D	• Spacer Ring	16	10015800A	• Clip, Wire Rope	*2
10014100B	• Spacer Ring	16	09827100A	• Clamp, Band	*7
10017000A	Spacer KOP	1	10013800A	• Clamp, Cable	*3
B10013400B	• Spacer Plate	32	R01894020	• Anchor, Machine Screw	*7
B10013400C	• Spacer Plate	32	R0044000A	• Lockwasher	*7
C10013500A	Cable & Spacer KOP	1	R0065300A	• Screw,-⅜-16 x 1¾	*4
B10013400C	• Spacer Plate	16	R00784050	• Screw,-⅜-16 x 1¼	*3
B10013400D	• Spacer Plate	16			

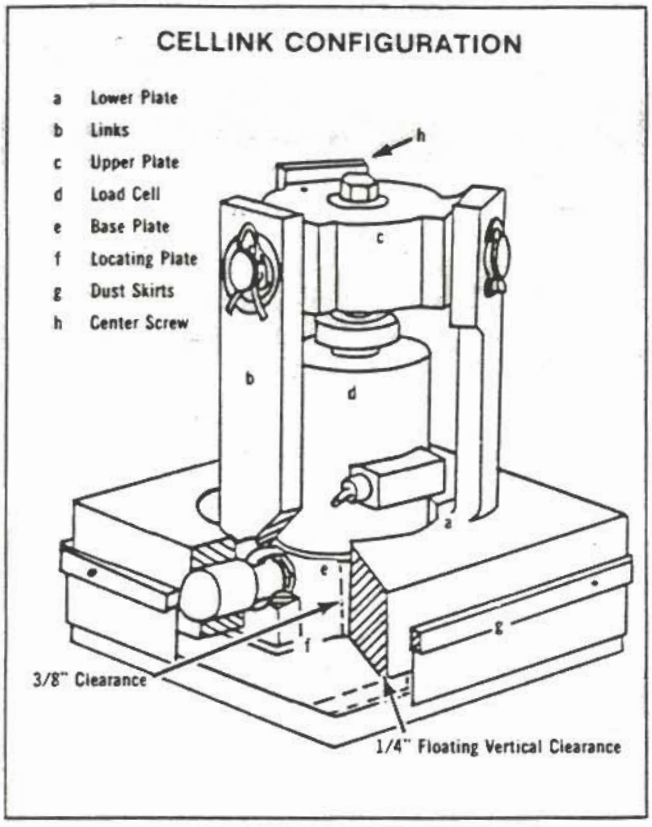
Toledo Scale Part Number for 8 oz. container of Never-Seez is 083006 020.

* - Not Shown

During shipment and installation, this clearance is automatically maintained by the lower plate and locating plate joiners.

THE JOINERS ARE TO BE REMOVED ONLY AT THE SEQUENTIAL RAISING THE WEIGHING CROSS BEAM ASSEMBLIES STEP SPECIFIED IN THE MANUAL.

Without the joiners being in place, a drastic clearance change could occur during the installation and alignment of the weighing cross beam assemblies and platform elements, i.e., causing mechanical interference between Cellink components, restricting platform oscillation, inaccurate weighments.



A smooth installation will depend largely upon the SITE INSPECTION (*prior to equipment installation*) and the SEQUENTIAL SCHEDULING of OUTSIDE CONTRACTORS and TOLEDO SCALE PERSONNEL each with required associated equipment. See BRIDGEMASTER INSTALLATION FLOW CHART.

Weighing Cross Beam Assemblies

1. Lower the Cross Beam Assemblies onto the pit pier support plates (Fig. 5).
2. Locate the end and/or Joint (Center) Cross Beam Assemblies within the pit according to the longitudinal dimensional data shown on the general layout for the appropriate platform size. Position the cross beams parallel and equal distance from the pit side walls (measure from the pit side wall to the nearest load transfer bar).

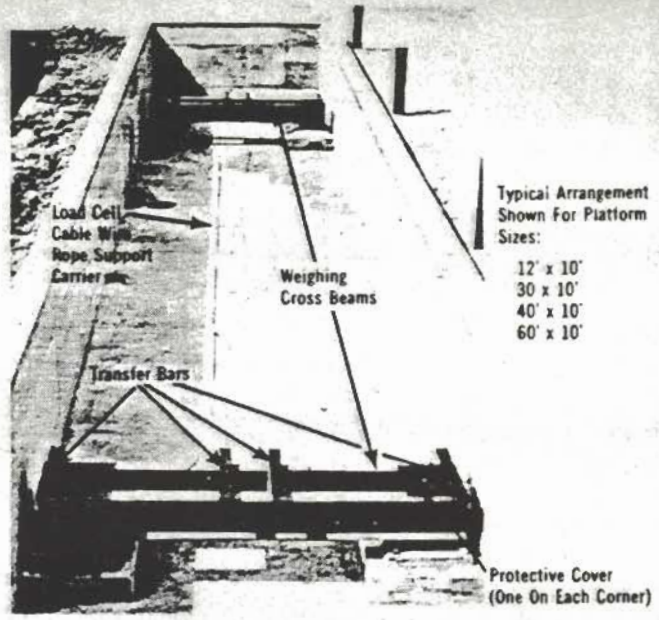


FIG. 5

3. Remove the Load Cell-Suspension Assembly protective covers, dust skirts and other associated components packed in the cross beam.
4. Turn center screw counterclockwise until the load is removed from the links (links are loose on the link pins). (Fig. 6)
5. Temporarily place Load Cell Suspension Assembly protective covers back in place.
6. Loosen the load and/or moment transfer bar retaining bolts approximately ¼ inch. (Fig. 5)

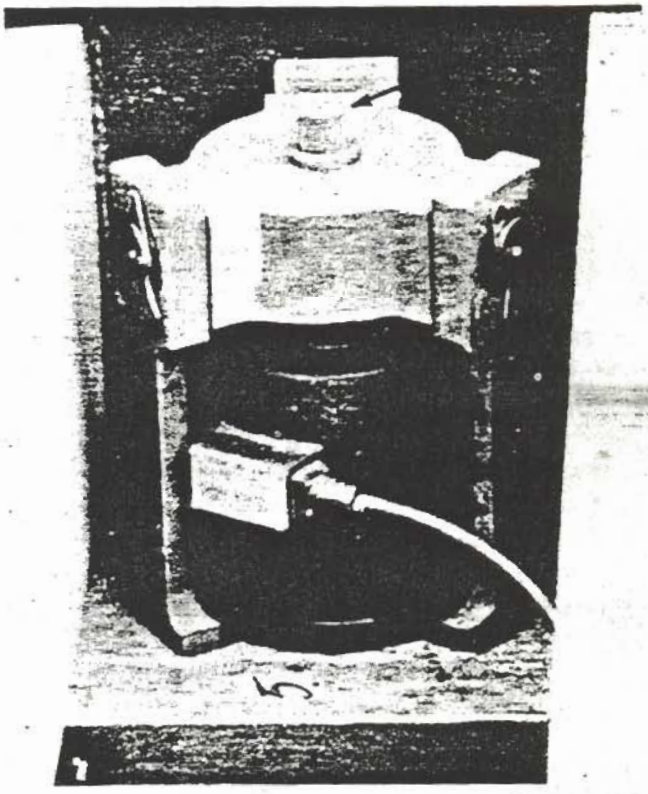
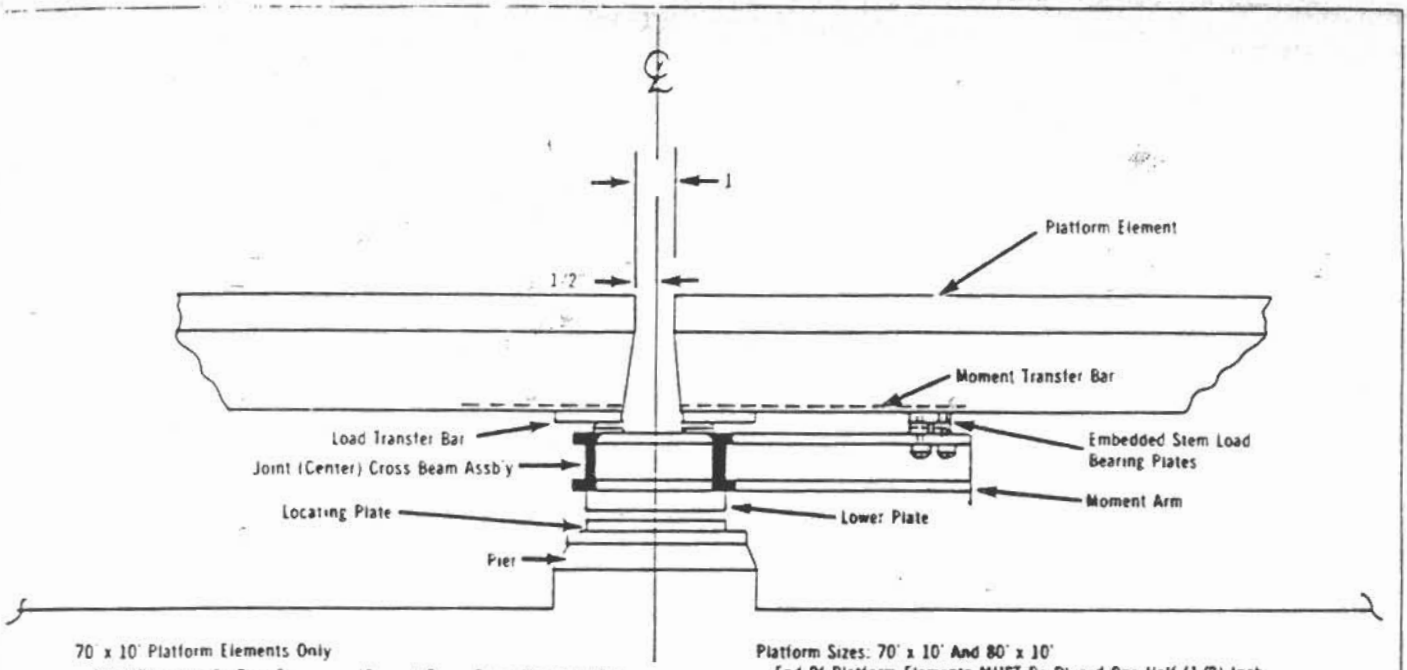


FIG. 6



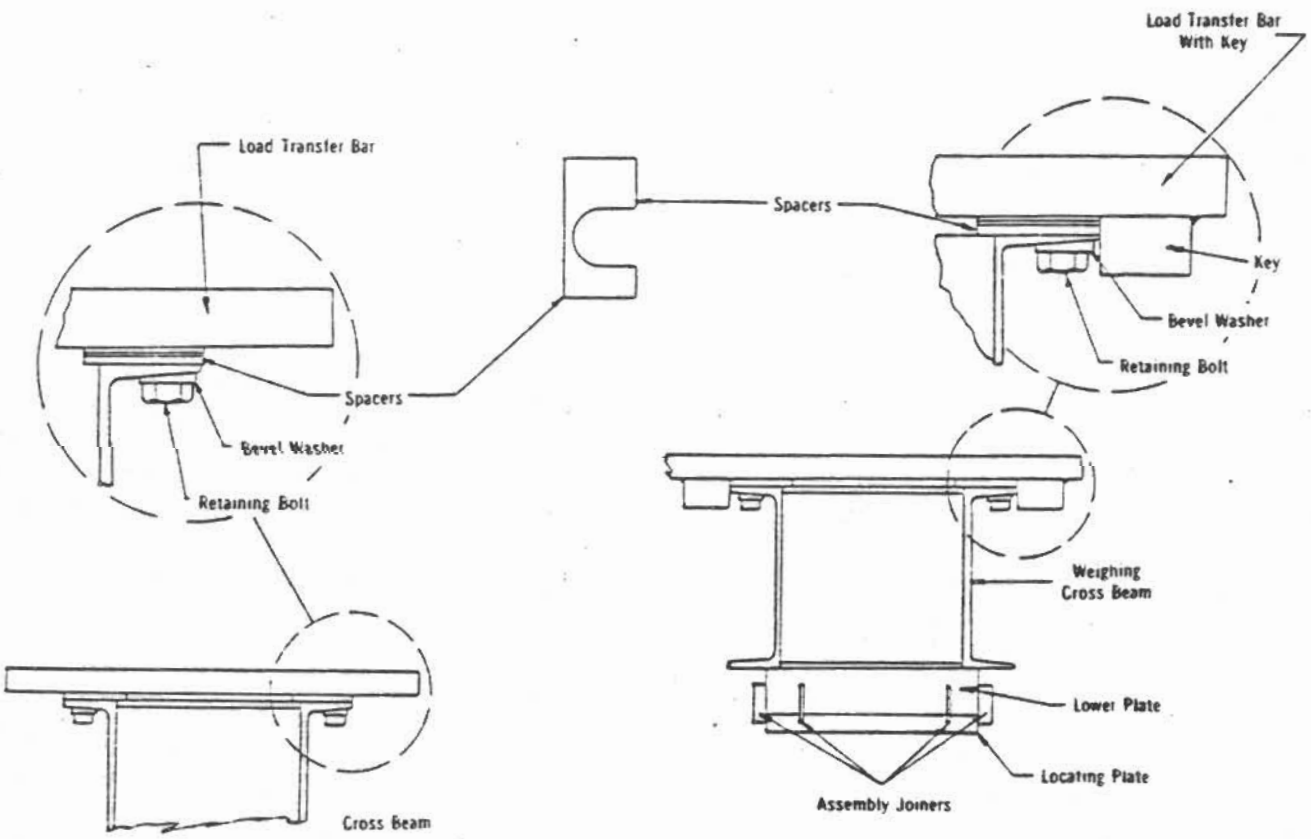
70' x 10' Platform Elements Only

Place Elements So That The Joint (Center) Cross Beam Moment Arms Are Connected To The 40 Ft. Length Platform Elements.

Platform Sizes: 70' x 10' And 80' x 10'

End Of Platform Elements MUST Be Placed One-Half (1/2) Inch From The Joint (Center) Cross Beam Center Line. This Alignment Takes Precedent Over The Element Clearance With The Pit Walls.

END CROSS BEAM



Note: Bevel Washer And Lock Washer (Not Shown) Are ONLY Provided For 12' x 10' Platform Arrangement.

FIG. 9

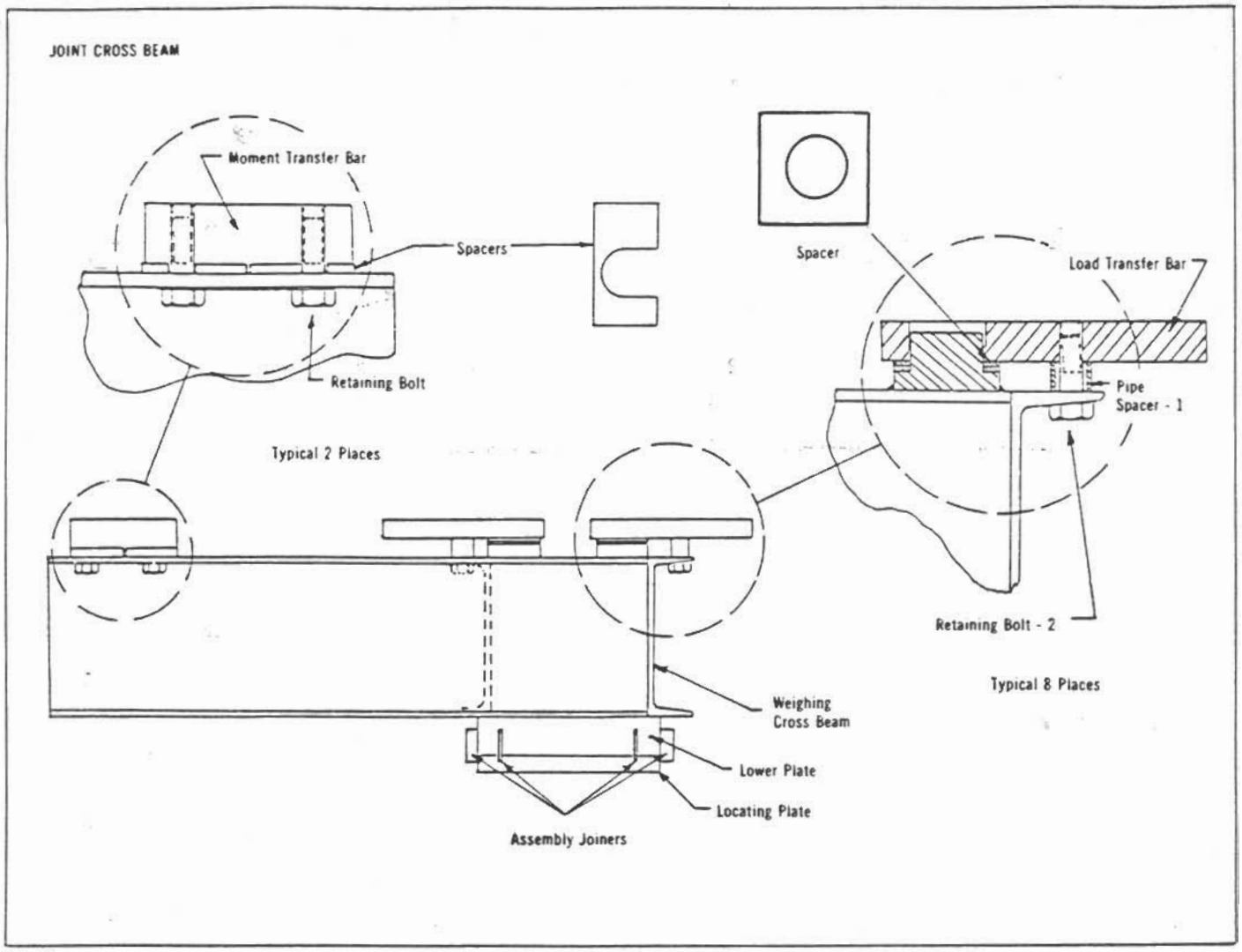


FIG. 10

The Weighing Cross Beam Assemblies are pre-assembled and shipped with appropriate spacers and/or spacer rings in position between the load and moment transfer bars and the cross beam. Additional spacers and/or spacer rings are furnished in the kit of parts.

See Figures 9 & 10 for End and Joint Cross Beam Spacer arrangement and method of assembly.

1. Place jacks (2) (one (1) jack directly beneath each platform stem) adjacent to the cross beam (Fig. 11).

CAUTIONARY NOTES: Be sure to use stable blocking (raise jack in suitable position) between the jack base and pit floor.

Place a steel shim between the concrete Platform Element stem and the head of the jack.

BE SURE TO REMOVE THE TEMPORARY PLACED SHIMS AT THE INSTALLATION OF THE FIRST PLATFORM ELEMENT(S).

JOINT WEIGHING CROSS BEAM NOTES FIG. 10

It is necessary to sufficiently raise the end of the Platform Elements to:

Remove the shipping pipe spacer 1 on each load transfer bar.

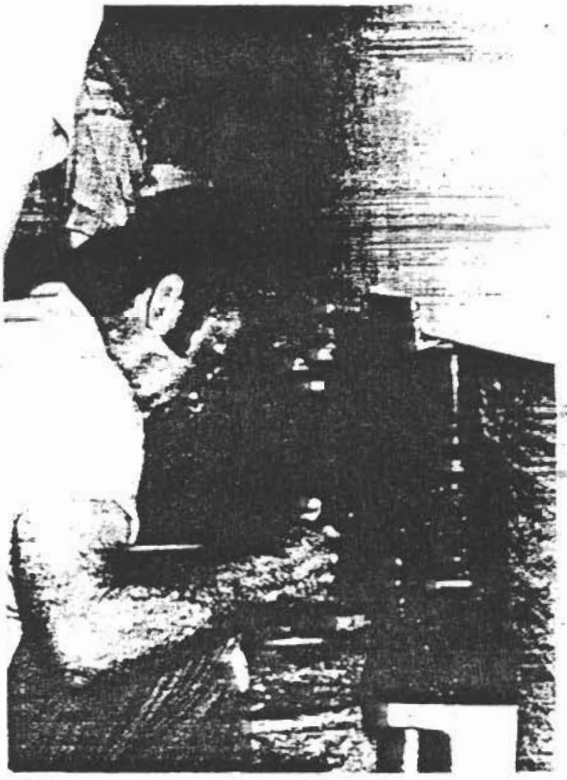


FIG. 11

Typical Lifting Arrangement
Shown Under One Platform Element Stem.