

1985

Parts Catalog

INTRODUCTION

This publication is provided solely as a guide for individuals who have received METTLER TOLEDO Technical Training in servicing the METTLER TOLEDO product.

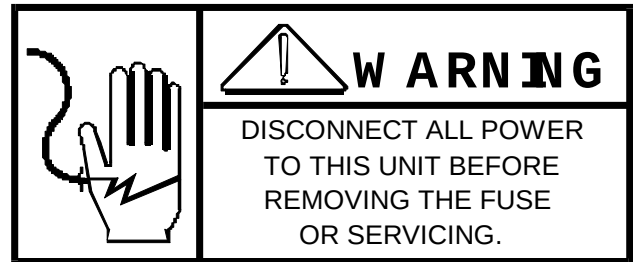
Information regarding METTLER TOLEDO Technical Training may be obtained by writing to:

METTLER TOLEDO
Training Center
P.O. Box 1705
Columbus, Ohio 43216
(614) 438-4400

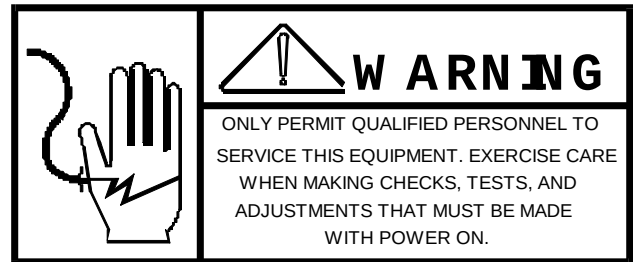
METTLER TOLEDO RESERVES THE RIGHT TO MAKE
REFINEMENTS OR CHANGES WITHOUT NOTICE.

PRECAUTIONS

- **READ** this manual before operating or servicing this equipment.
- **ALWAYS REMOVE POWER** and wait at least 30 seconds **BEFORE** connecting or disconnecting any internal harnesses. Failure to observe these precautions may result in damage to, or destruction of the equipment.



- **ALWAYS** take proper precautions when handling static sensitive devices.



- **SAVE** this manual for future reference.

- **DO NOT** allow untrained personnel to operate, clean, inspect, maintain, service, or tamper with this equipment.

- **ALWAYS DISCONNECT** this equipment from the power source before servicing.

- **CALL** METTLER TOLEDO for parts, information, and service.

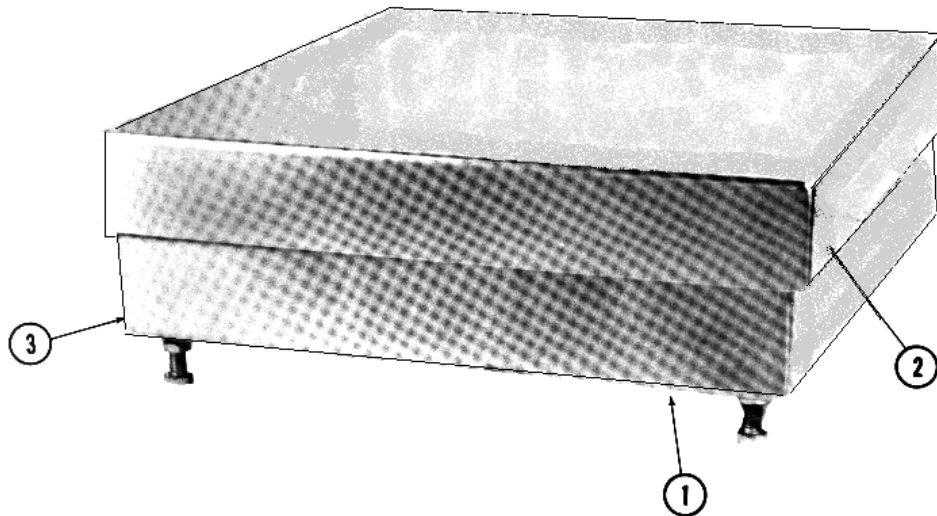


CONTENTS

IX. PARTS CATALOG.....	10
A. WEIGH PLATFORM AND BASE ASSEMBLIES.....	10
B. WEIGH PLATFORM SUPPORT AND SPIDER COMPONENTS	11
C. HERMETIC SEALED LOAD CELL SPIDER AND STRUT ASSEMBLIES.....	13
D. INDUSTRIAL LOAD CELL SPIDER AND STRUT ASSEMBLIES	15
E. GENERAL PURPOSE LOAD CELL, SPIDER AND STRUT ASSEMBLIES	17
F. BASE MOUNTED COMPONENTS	18
G. BASE LEVELING FEET, ADJUSTER AND LOAD CELL RETAINING SCREWS.....	21
X. ACCESSORIES	22

IX. PARTS CATALOG

A. WEIGH PLATFORM AND BASE ASSEMBLIES

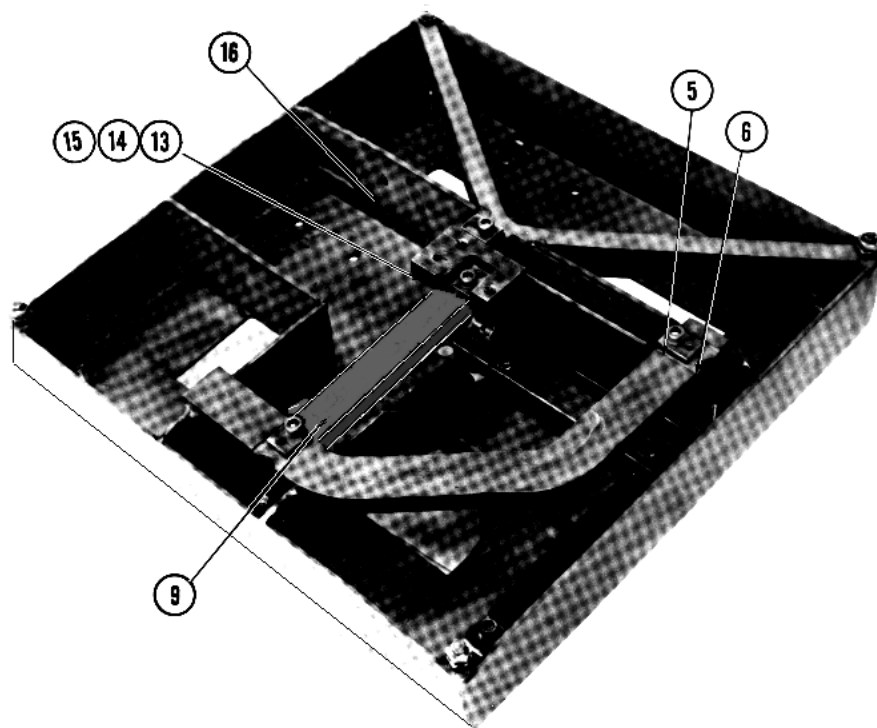
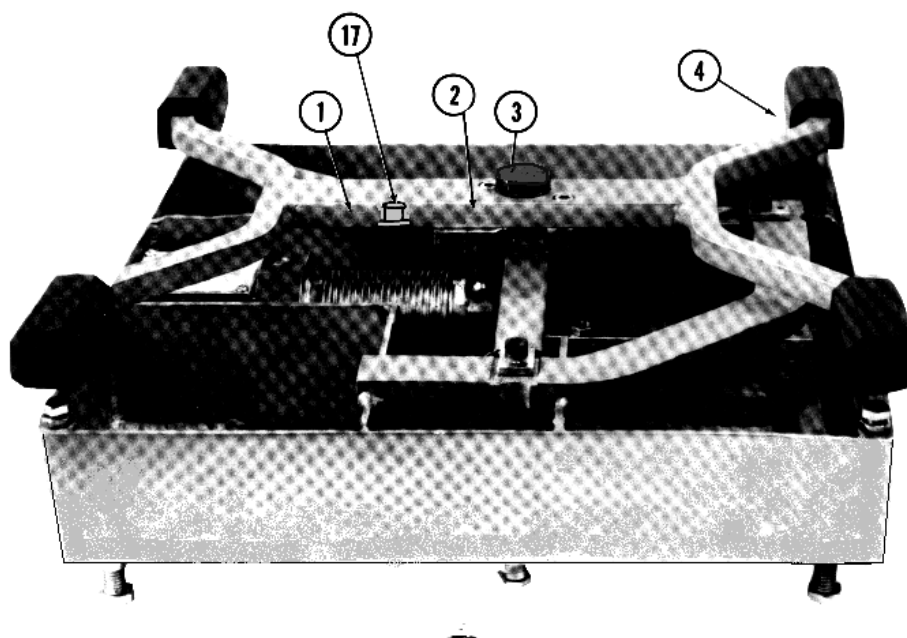


REF. NO.	PART NO. STAINLESS STEEL	PART NO. MILD STEEL	DESCRIPTION	QTY.
1	D112693 00A	D1119998 00A	Base S.S. Polished M.S. Painted	1
2	A112687 00A	B111987 00A	Weigh Platform, S.S. Polished Weight Platform M.S. Painted with grid markings	1
3	127352 00A	127352 00A	Class III Label	1

S.S. - Stainless Steel

M.S. - Mild Steel

B. WEIGH PLATFORM SUPPORT AND SPIDER COMPONENTS



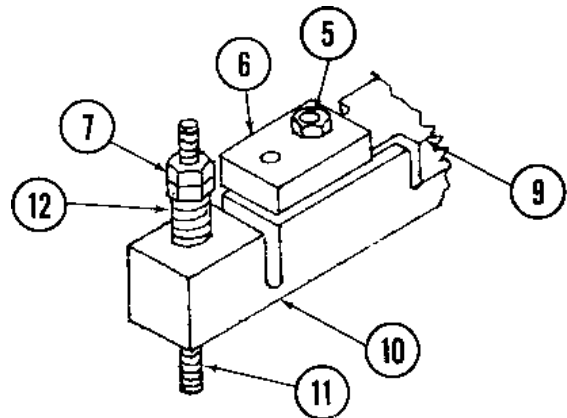
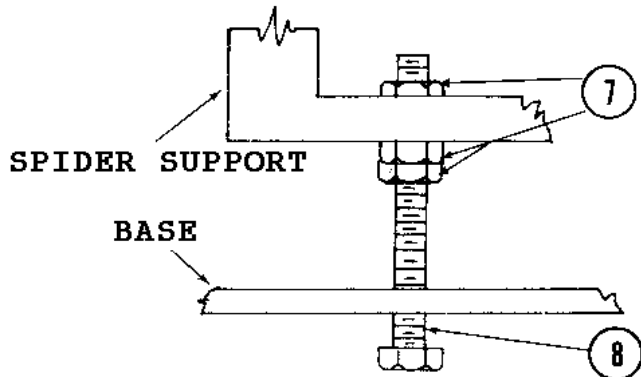
WEIGH PLATFORM SUPPORT AND SPIDER COMPONENTS

REF NO	PART NO. STAINLESS STEEL	PART NO. MILD STEEL	DESCRIPTION	QTY
1	B112689 00A	B111989 00A	Support, Weigh Platform	1
2	R03705 00A	R03702 00A	Screw, Spider Support Retaining	
			1/4-28 x 5/8 Socket Head	2
3	113056 00A	113056 000A	Bumper, Threaded Center	1
4	113055 00A	113055 00A	Bumper, Corner	4
5	R03705 00A	R03702 00A	Screw, Flexure Clamp Retaining	
			1/4-28 x 5/8 Socket Head	10
6	B112001 00A	B112001 00A	Clamp, Flexure Retaining	10
7	R02340 00A	R00591 050	Nut, Hex Jam 1/4-28	5
8	R02859 00A	R01110 00A	Screw, Hex Head 1/4-28 x 1 1/2	1
9	A112681 00A	A112681 00A	Flexure, Weighing/ Stabilizer	5
10	A112682 00A	A112682 00A	Bar, Adjuster	2
11	R02651 00A	R01441 00A	Screw, Inner M.S. 1/4-28 x 2 Hex Head	
			S.S. 1/4-28 x 2 1/4 Hex Head	2
12	A110738 00A	A110738 00A	Screw, Differential	2
13	A110738 00A	B113054 00A	Spider Assembly, See Note 1	
			Rams 1985-0001,2,3; 0021,0022 and 0023 with Hermetically Sealed Load Cell Assembly	
			Industrial Load Cell Rams	1
			1985-0004,5,6;0014,15 and 16	
	B113054 00A	B113053 00A	Spider Assembly - See Note 1	
			Rams 1985-0011, 0012 and 0013 with General Purpose Load Cell Assembly - See Note 1	
14	X	X	* Spider	1
15	113052 00A	113052 00A	* Pin, Insert	1
16	R02976 00A	R02976 00A	Screw, 8-32 x 5/16 P.H.	1
17	020011020	020011020	Level Bubble	1

NOTE 1 - Spider Assemblies are not interchangeable - Different locating hole for insert pin.

X - Not available separately
S.S. - Stainless Steel
M.S. - Mild Steel

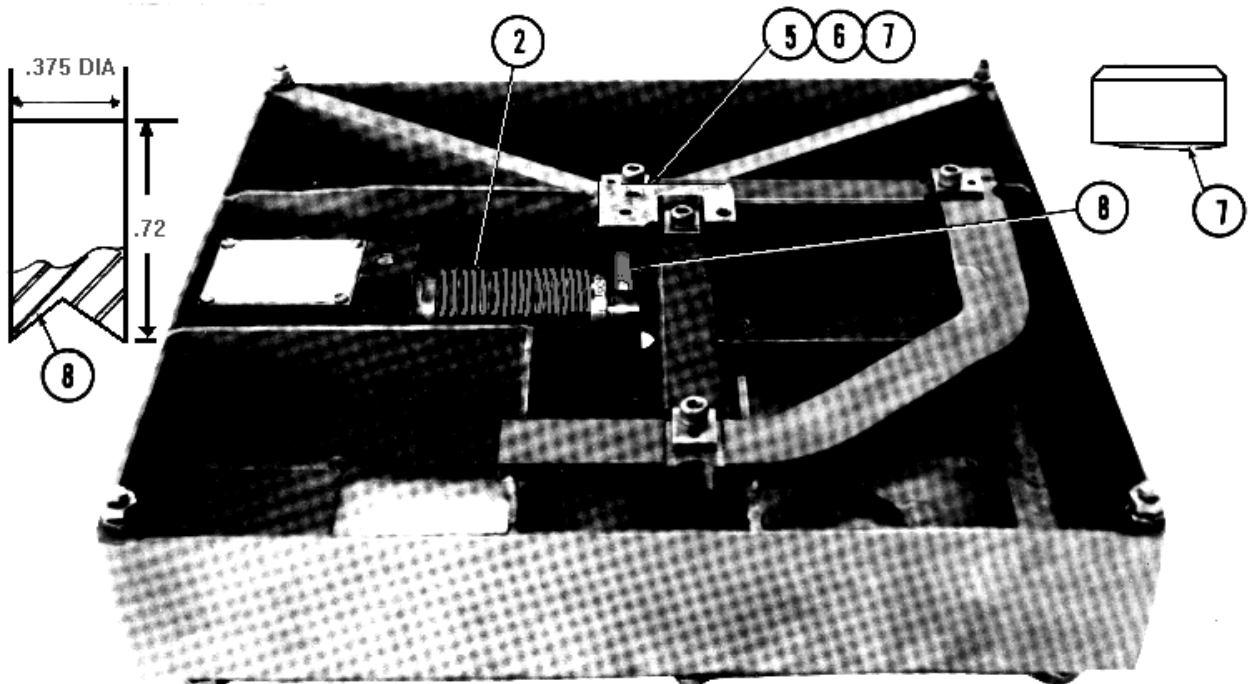
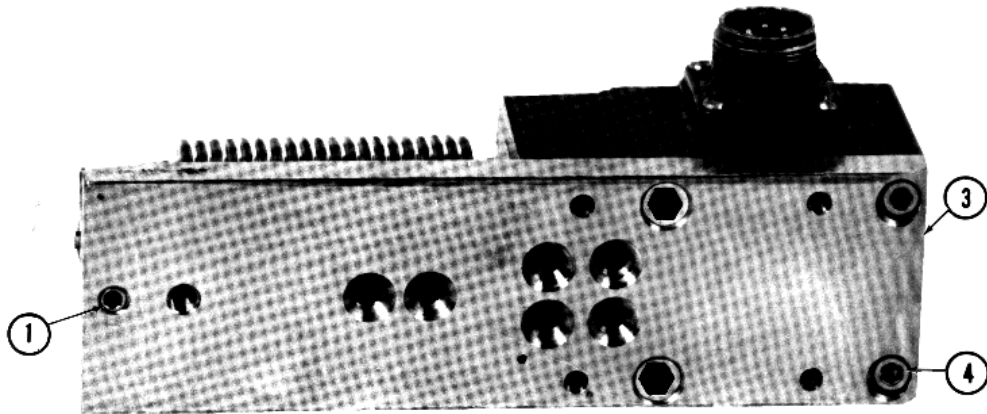
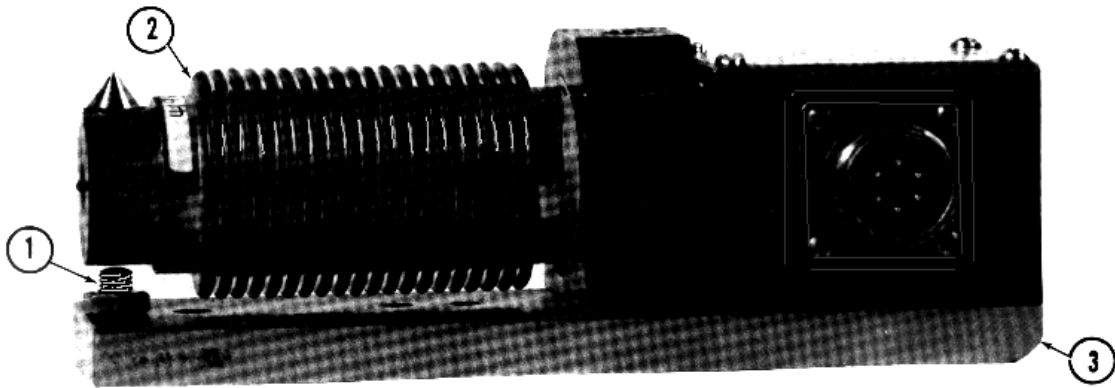
SPIDER SUPPORT STOP



C. HERMETIC SEALED LOAD CELL SPIDER AND STRUT ASSEMBLIES

STAINLESS STEEL RAMS 1985-0001, 0002, 0003, 0007, 0008 AND 0009

MILD STEEL RAMS 1985-0021, 0022, 0023, 0031 0032 AND 0033



HERMETIC SEALED LOAD CELL SPIDER AND STRUT ASSEMBLIES

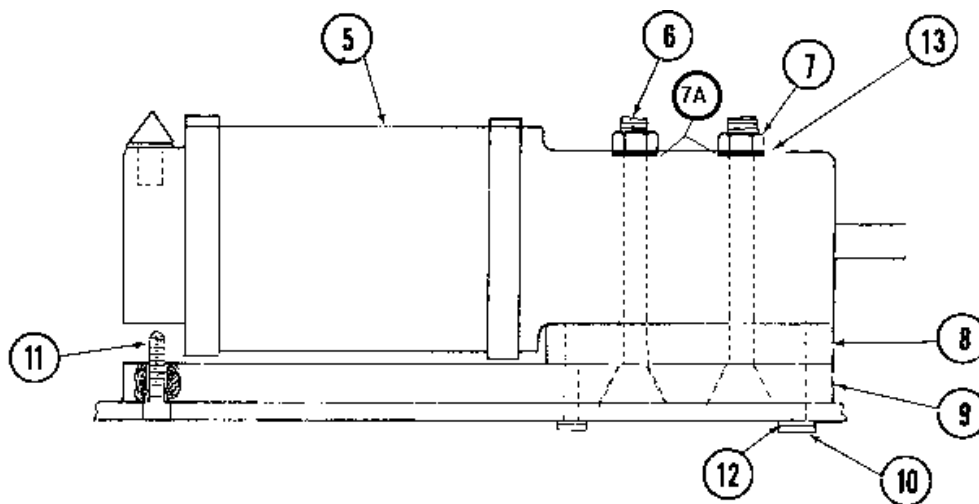
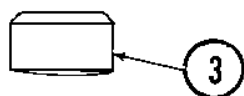
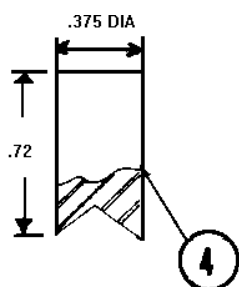
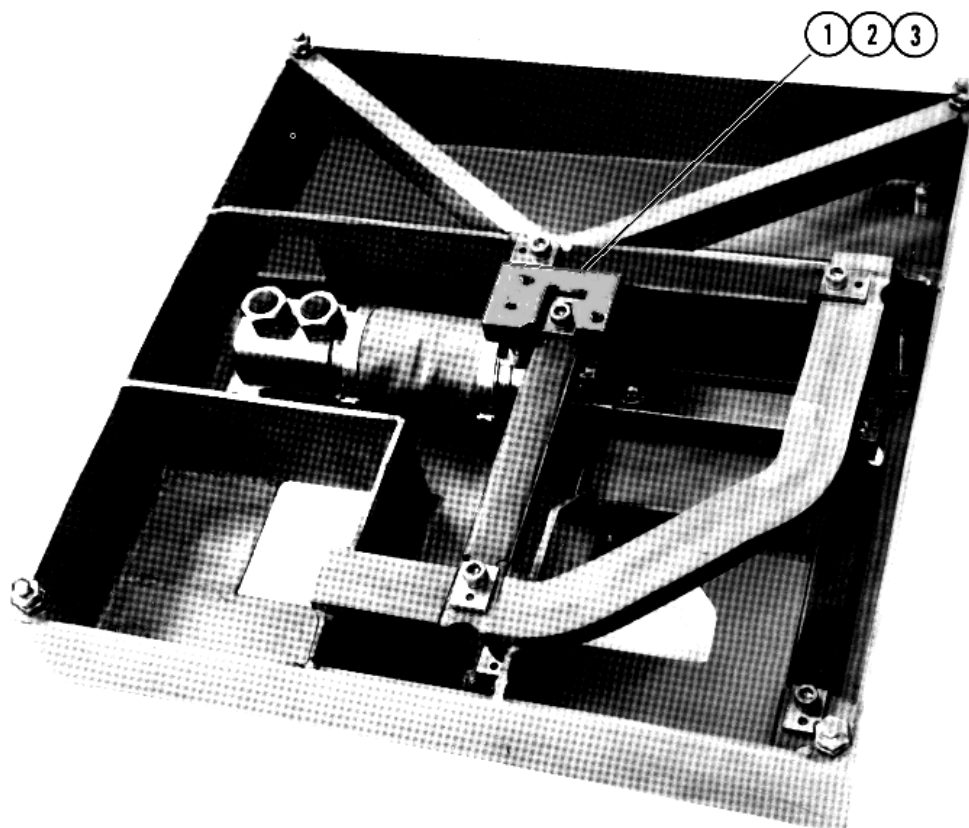
REF NO	PART NO. STAINLESS STEEL	PART NO. MILD STEEL	DESCRIPTION	QTY
1	R03045 00A	R03046 00A	Screw, Overload Stop 1/4-28 x 1 Oval Set Point - See Note 1	1
2	104799 00A	104799 00A	Load Cell Assembly, 50 lb (Ram 001 and 0021)	A.R.
	B097085 00A	B097085 00A	Load Cell Assembly, 100 lb (Ram 0002 and 0022)	1
	A097094 00A	A097091 00A	Load Cell Assembly, 200 lb (Ram 0003 and 0023)	1
	104812 00A	104812 00A	Load Cell Assembly, 50 lb (Ram 0031, 0007)	1
	104813 00A	104813 00A	Load Cell Assembly, 100 lb (Ram 0032, 0008)	1
	104814 00A	104814 00A	Load Cell Assembly, 200 lb (Ram 0033, 0009)	1
3	125126 00A	A112002 00B	Plate, Load Cell Mounting	1
4	R02897 00A	R01281 210	Screw, Load Cell Retaining 10-32 x 1/2 Socket Head	4
5	B113054 00A	B113054 00A	Spider Assembly	1
6	X	X	* Spider	1
7	113052 00A	113052 00A	* Pin, Insert	1
8	113051 00A	113051 00A	Strut Assembly	1
N.S.	R02897 00A	R01281 210	Screw, Load Cell Mounting Plate to Base Retaining --- 10-32 x 1/2 Socket Head	4
N.S.	R02481 00A	R02481 00A	Washer, flat (used with R02897 00A and R01281 210 Screws)	4

NOTE: The Overload Stop, as shown in the early units was a screw and nut arrangement. The R03045 00A and R03046 00A Overload load screw now has a full length self locking inser i.e., R02340 00A and R00591 050 are no longer required.

X - Not Available Separately

N.S. - Not Shown

D. INDUSTRIAL LOAD CELL SPIDER AND STRUT ASSEMBLIES



INDUSTRIAL LOAD CELL SPIDER AND STRUT ASSEMBLIES

STAINLESS STEEL RAMS 1985-0004, 0005, 0006, 0105 AND 0106

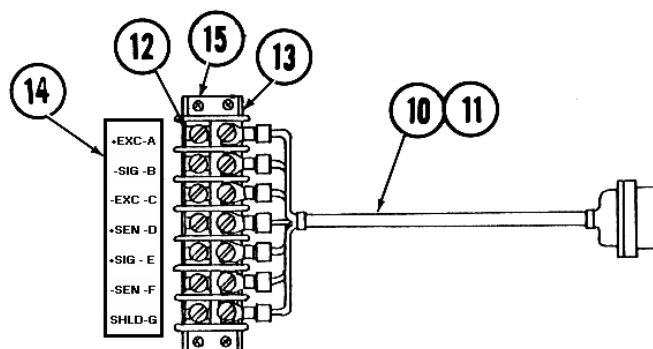
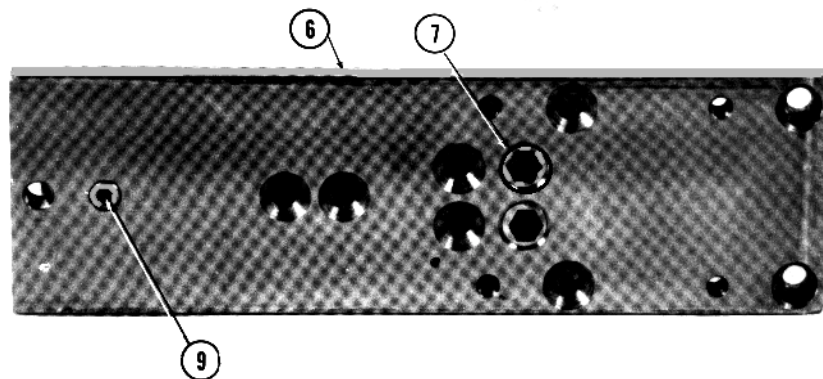
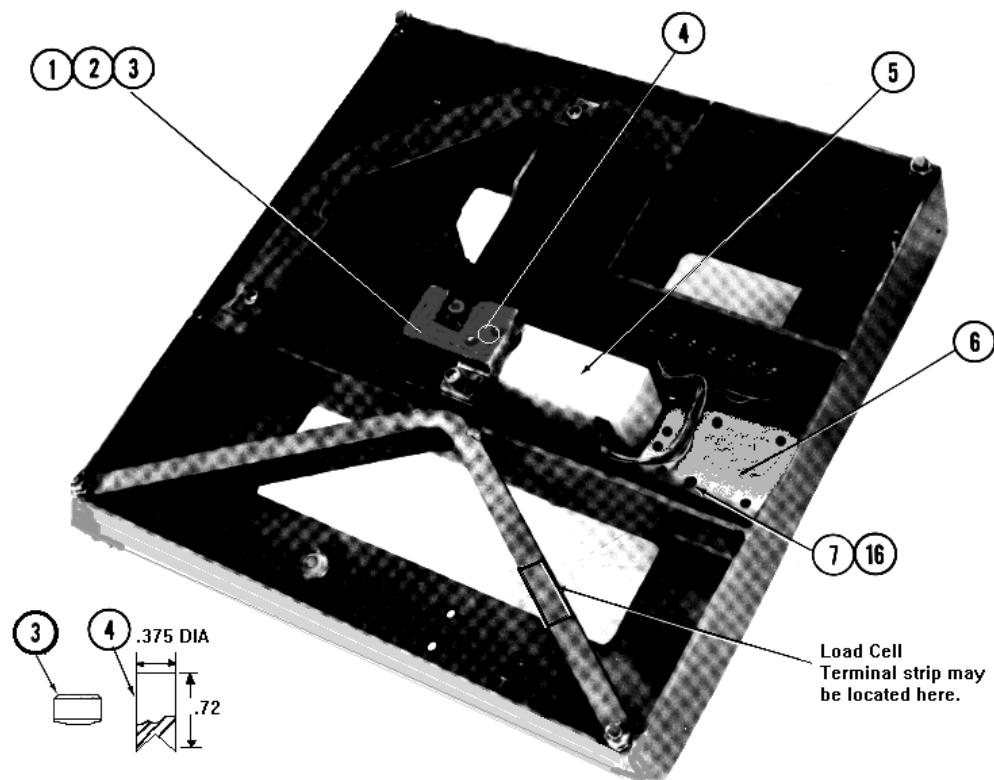
MILD STEEL RAMS 1985-0014, 0015, 0016, 0115 AND 0116

REF NO	PART NO. STAINLESS STEEL	PART NO. MILD STEEL	DESCRIPTION	QTY
1	B113054 00A	B113054 00A	Spider Sub Assembly	1
2	X	X	* Spider	1
3	113052 00A	113052 00A	* Pin, Insert	1
4	113051 00A	113051 00A	Strut Assembly	1
5	C111022 00A	C111021 00A	Load Cell Assembly, Industrial 100 lb - Rams 0004, 0005, 0014, 0015 and 0105	1
	C111035 00A	C111025 00A	Load Cell Assembly, Industrial 200 lb. - Rams 0006, 0016, 0116 and 0106	A.R.
6	R03935 00A	R03936 00A	Screw, Load Cell Retaining 1/2-13 x 2 1/4	2
7a	R02415 00A	R02415 00A	Lock Washer	
7	R02981 00A	R02504 00A	Nut, Hex Flange 1/2 - 13	2
8	125128 00A	114317 00A	Plate, Load Cell Spacer	1
9	125127 00A	A112003 00A	Plate, Load Cell Mounting	1
10	R03059 00A	R03059 00A	Screw, Load Cell Mounting Plate Retaining Socket Head 10-32 x 3/4	4
11	R03045 00A	R03046 00A	Screw, Overload Stop Self Locking 1/4-28 x 1 Oval Set Point	
12	R02481 00A	R02481 00A	Washer, flat	4
13	R03593 00A		Washer, flat 1/2"	

X - Not available separately

A.R. - As required

E. GENERAL PURPOSE LOAD CELL, SPIDER AND STRUT ASSEMBLIES



GENERAL PURPOSE LOAD CELL, SPIDER AND STRUT ASSEMBLIES

MILD STEEL RAMS 1985-0011, 0012 AND 0013

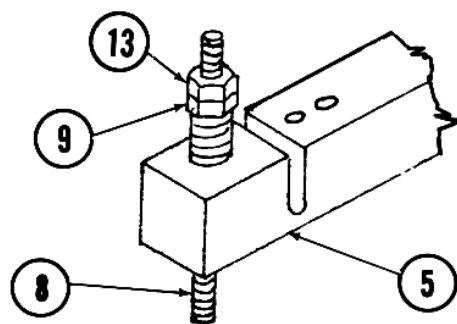
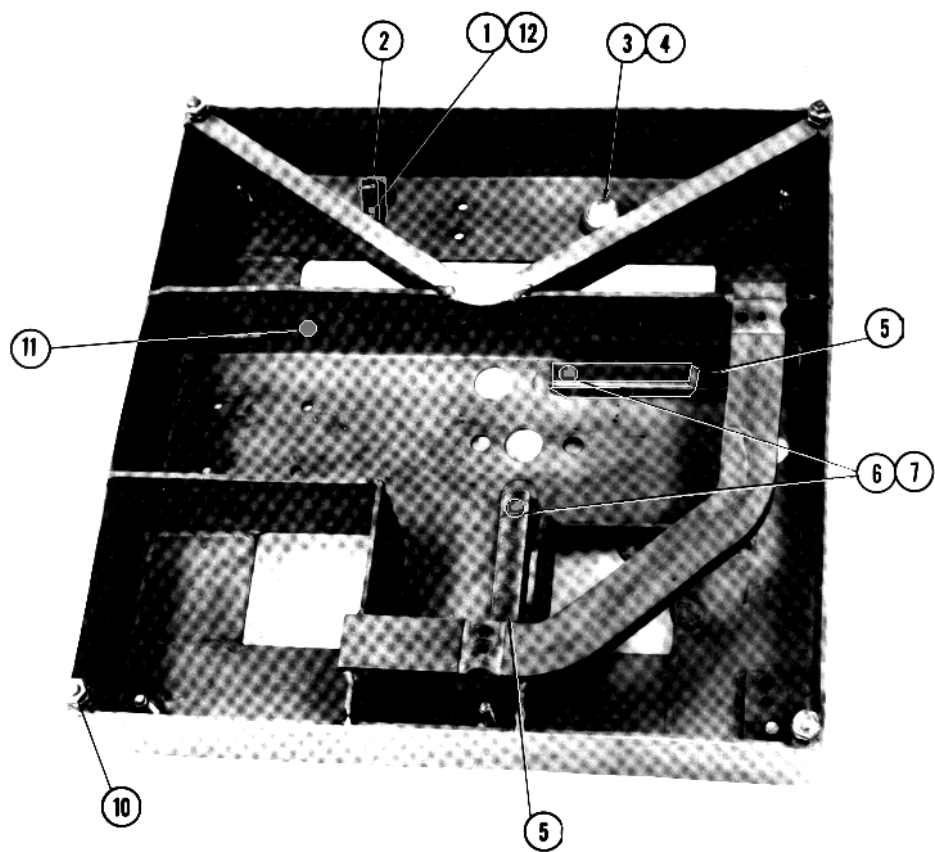
REF NO	PART NUMBER	DESCRIPTION	QTY
1	B113053 00A	Spider Assembly	1
2	X	*Spider	1
3	113052 00A	*Pin Insert	1
4	113051 00A	Strut Assembly	1
5	A114547 00A	Load Cell Assembly, General Purpose 50 lb (Ram 0011)	
	116925 0A	Load Cell Assembly, General Purpose 100 lb (Ram 0012)	1 A.R.
	116929 00A	Load Cell Assembly, General Purpose, 200 lb (Ram 0013)	A.R.
6	A112002 00B	Plate, Load Cell Mounting	1
7	R01281 210	Screw, Load Cell Mounting Plate-To-Base Retaining - 10-32 x 1/2 Socket Head	6
9	R03046 00A	Screw, Overload Stop - 1/4-28 x 1 Oval Point Set, See Note 1	1
10	107935 00A	Harness Assembly, Load Cell	1
11	110633 00A	* Cable and Connector Assembly	1
12	107174 00A	*Clamp, Terminal Wire	7
13	097822 00A	*Block, Terminal	1
14	107905 00A	Marker, Cable Termination	1
15	R01881 130	Screw, Terminal Block Retaining 8-32 x 5/8 Self Tapping Machine	2
	R02800 00A	Screw, 10-32 x 1/2	2
16	R02481 00A	Washer, flat	4

NOTE 1 - The Overload Stop (s shown in the early units) was a screw and nut arrangement. The R03046 00A Overload Stop screw is now being furnished with a full length self-locking insert i.e., the R0059 050 jam nut is no longer required

N.S. - Not Shown

X - Not Available Separately

F. BASE MOUNTED COMPONENTS



BASE MOUNTED COMPONENTS

REF NO	PART NO. STAINLESS STEEL	PART NO. MILD STEEL	DESCRIPTION	QTY
1	R03396 00A	R03396 00A	Screws - S.S. 8-32 x 5/16 M.S. 6-32 x 1/2	1
2	124693 00A	124693 00A	Clamp, Cable (0.44 Diameter)	1
	124764 00A	124764 00A	Clamp, Cable (0.25 Diameter)	A.R.
3	048388 020	048388 020	Level, Circular	1
	020011 020	020011 020	Level, Circular - See Note 1	
4	111073 00A	111703 00A	Washer, Neoprene	1
5	A112682 00A	A112682 00A	Bar, Adjuster	2
6	R02960 00A	R03072 00A	Screw, Adjuster Bar Retaining 3/8-24 x 1/2 Soc. Head	2
7	R02414 00A	R02832 00A	Washer, Lock 3/8	2
8	R02651 00A	R01441 00A	Screw, Inner - S.S. 1/4-28 x 2 1/4 Head Hex - M.S. 1/4-28 x 2 Hex Head	2
9	A110738 00A	A110738 00A	Screw, Differential	2
10	R03121 00A	R03121 00A	1/4-28 x 1 Self Locking - See Note II	4
11	R02976 00A	R02976 00A	Screw, 8-32 x 5/16 P.H. Self tapping	1
12	R03658 00A	R03658 00A	Nut, 6-32 S.S.	
13	R02340 00A	R00591 050	Nut, 1/4-28	1

NOTE I - Early production units used the 04388 020 Circular level and 111073 00A Neoprene Washer Arrangement. Current production units are the epoxy in place 020011 020 circular level.

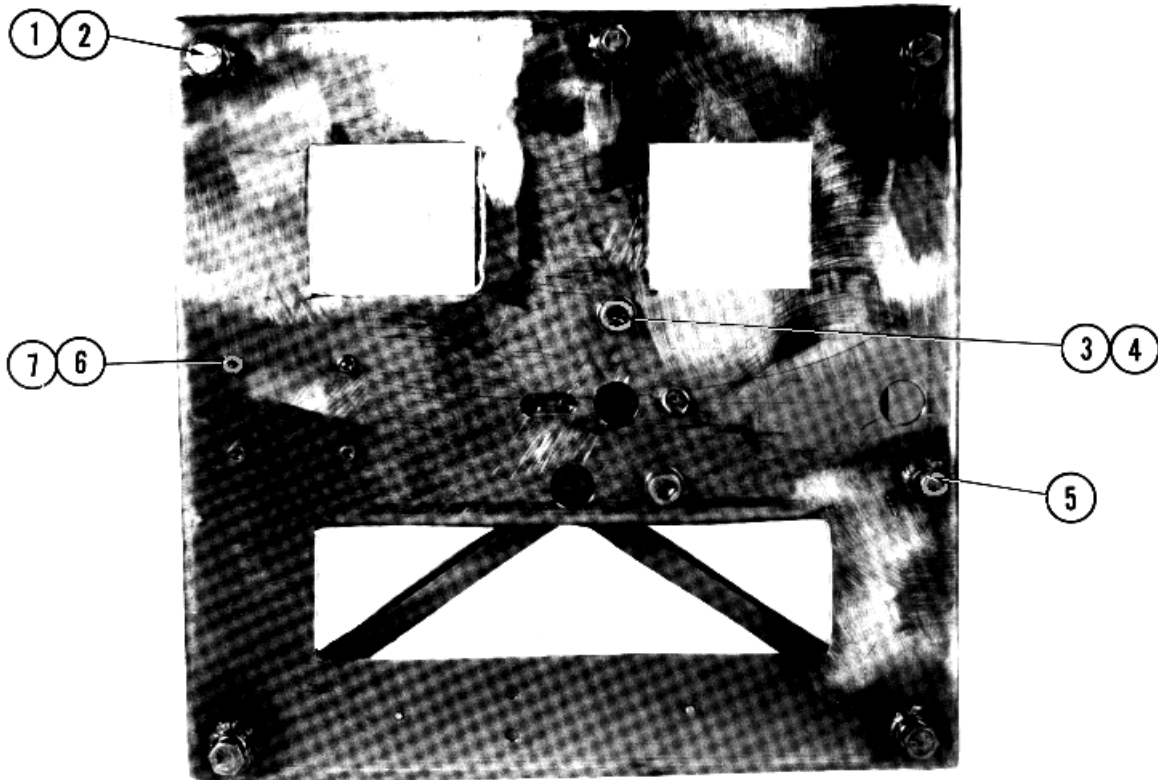
NOTE II - Current production units use the R03121 00A self-locking screw and is directly inter-changeable with early production nut (R02340 00A or R00591 050) and screw (R02348 00A or 00557 050) arrangement.

S.S. - Stainless Steel

M.S. - Mild Steel

A.R. - As required

G. BASE LEVELING FEET, ADJUSTER AND LOAD CELL RETAINING SCREWS



REF NO	PART NO. STAINLESS STEEL	PART NO. MILD STEEL	DESCRIPTION	QTY
1	R02653 00A	R02653 00A	Screw, Hex Head Leveling Foot, 3/8-16 x 1 3/4	4
2	R02339 00A	000043 050	Nut, Hex 3/8-16	4
3	R02960 00A	R03072 00A	Screw Adjuster Bar Retaining Socket Head 3/8-24 x 1/2"	2
4	R02414 00A	R02832 00A	Washer, Lock 3/8	2
5	R02651 00A	R01441 00A	Screw, Inner S.S. - 1/4-28 x 2 1/4 Hex Head M.S. - 1/4-28 x 2 Hex Head	2
6	R02897 00A	R01281 210	Screw, H.S. Cantilever & General Purpose Load Cell Plate Retaining 10-32 x 1/2 Socket Head	4
	R03059 00A	R03059 00A	Screw, Industrial Load Cell Plate, Retaining 10-32 x 3/4 Socket Head	4
7	R02481 00A	R02481 00A	Washer, flat	4

X. ACCESSORIES

PART NUMBER	DESCRIPTION	QTY.
112015 00A	Platter, Calibration Test Weight	(As Required)

FACTORY NUMBER GUIDE

CONSTRUCTION	LOAD CELL		MAXIMUM GROSS CAPACITY	FACTORY NUMBER	
	STYLE	ACCURACY			
STAINLESS STEEL	0721 SEALED LOW CAPACITY	600 OIML	33 lbs / 15 kg	1985-0001	
			66 lbs / 30 kg	1985-0002	
			132 lbs / 60 kg	1985-0003	
			66 lbs / 30 kg	1985-0105	
	0725 INDUSTRIAL NICKEL PLATED		132 lbs / 60 kg	1985-0106	
			33 lbs / 15 kg	1985-0007	
	0721 SEALED LOW CAPACITY	3000 OIML	66 lbs / 30 kg	1985-0008	
			132 lbs / 60 kg	1985-0009	
			33 lbs / 15 kg	1985-0011	
GENERAL PURPOSE STEEL	0723 GENERAL PURPOSE	600 OIML	66 lbs / 30 kg	1985-0012	
			132 lbs / 30 kg	1985-0013	
			66 lbs / 30 kg	1985-0115	
			132 lbs / 60 kg	1985-0116	
	0725 INDUSTRIAL GENERAL ENVIRONMENT			33 lbs / 15 kg	1985-0021
				66 lbs / 30 kg	1985-0022
				132 lbs / 60 kg	1985-0023
		33 lbs / 15 kg		1985-0031	
		66 lbs / 30 kg		1985-0032	
	0721 SEALED LOW CAPACITY	3000 OIML	132 lbs / 60 kg	1985-0033	