

8146

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.

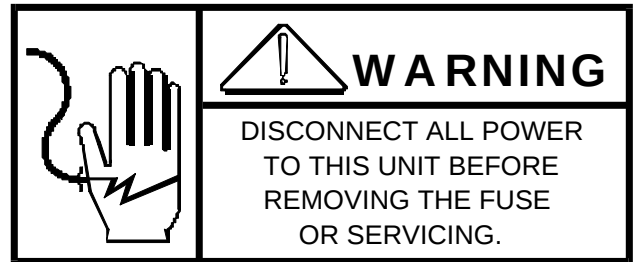
Information regarding METTLER TOLEDO Technical Training may be obtained by writing to:

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

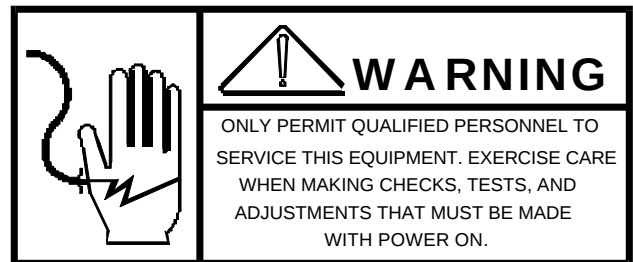
METTLER TOLEDO RESERVES THE RIGHT TO MAKE
REFINEMENTS OR CHANGES WITHOUT NOTICE.

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.



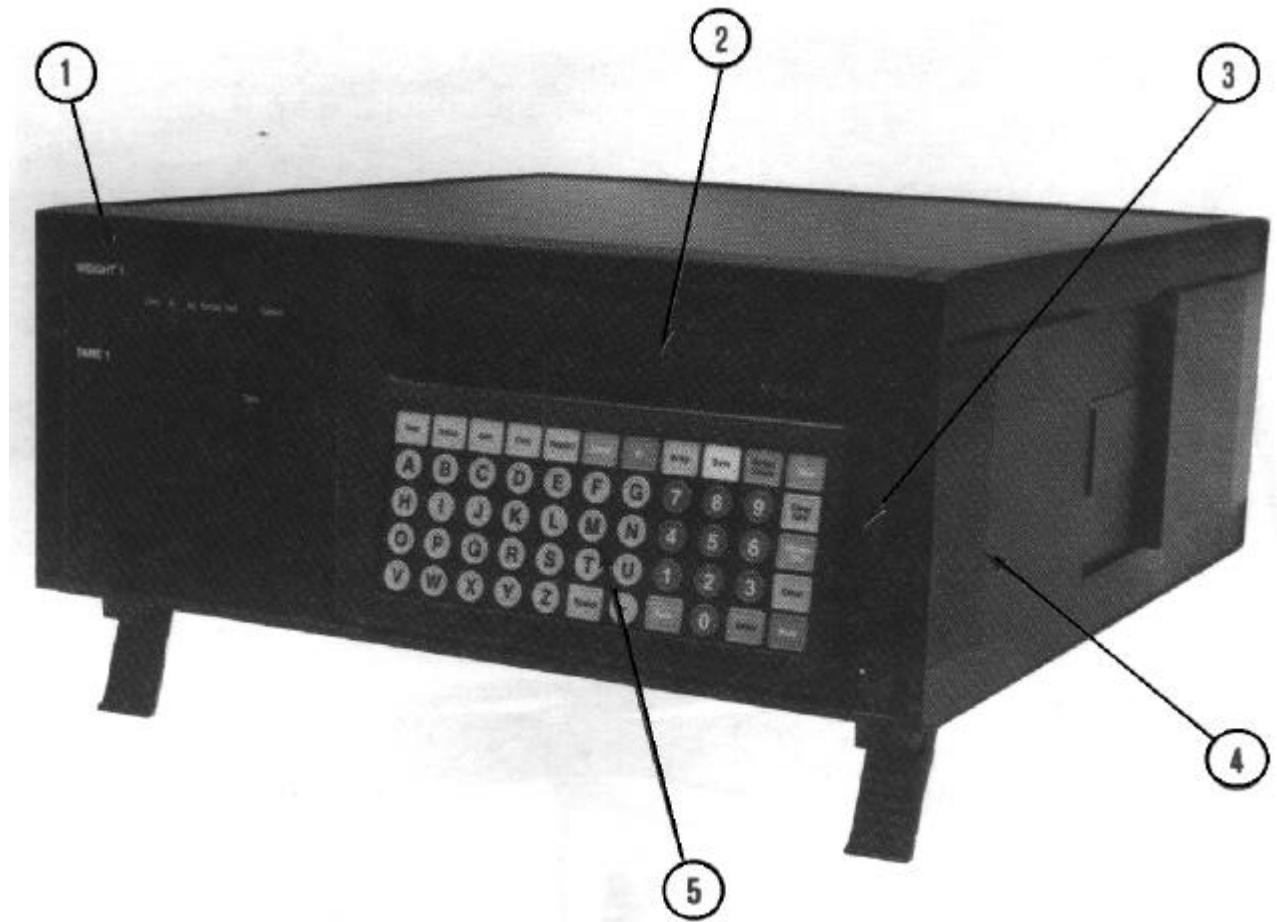
CONTENTS

9.0 PARTS CATALOG.....	112
9.1 DESK MOUNT	112
9.1.1 ENCLOSURE AND LENSES.....	112
9.1.2 REAR PANEL	113
9.1.3 DISPLAY PCB'S.....	114
9.1.4 FRONT PANEL AND KEYBOARD	115
9.1.5 TRANSFORMER AND HARNESS	116
9.1.6 PCB'S.....	117
9.1.7 POWER SUPPLY	118
9.1.8 CARD CAGE	119
9.2 WALL MOUNT	121
9.2.1 BEZEL AND LINE CORD	121
9.2.2 DATA DISPLAY PCB.....	122
9.2.3 FRONT PANEL AND KEYBOARD	123
9.2.4 WT. DISPLAY PCB.....	124
9.2.5 PCB'S.....	125
9.2.6 POWER SUPPLY	126
9.2.7 TRANSFORMER AND HARNESS	127
9.3 MISCELLANEOUS.....	128
9.3.1 KITS OF PARTS.....	128
9.3.2 MATING CONNECTORS, DESK	128
9.3.3 MATING CONNECTORS, WALL	128
9.3.4 INTERCONNECTING CABLES	129

9.0 PARTS CATALOG

9.1 DESK MOUNT

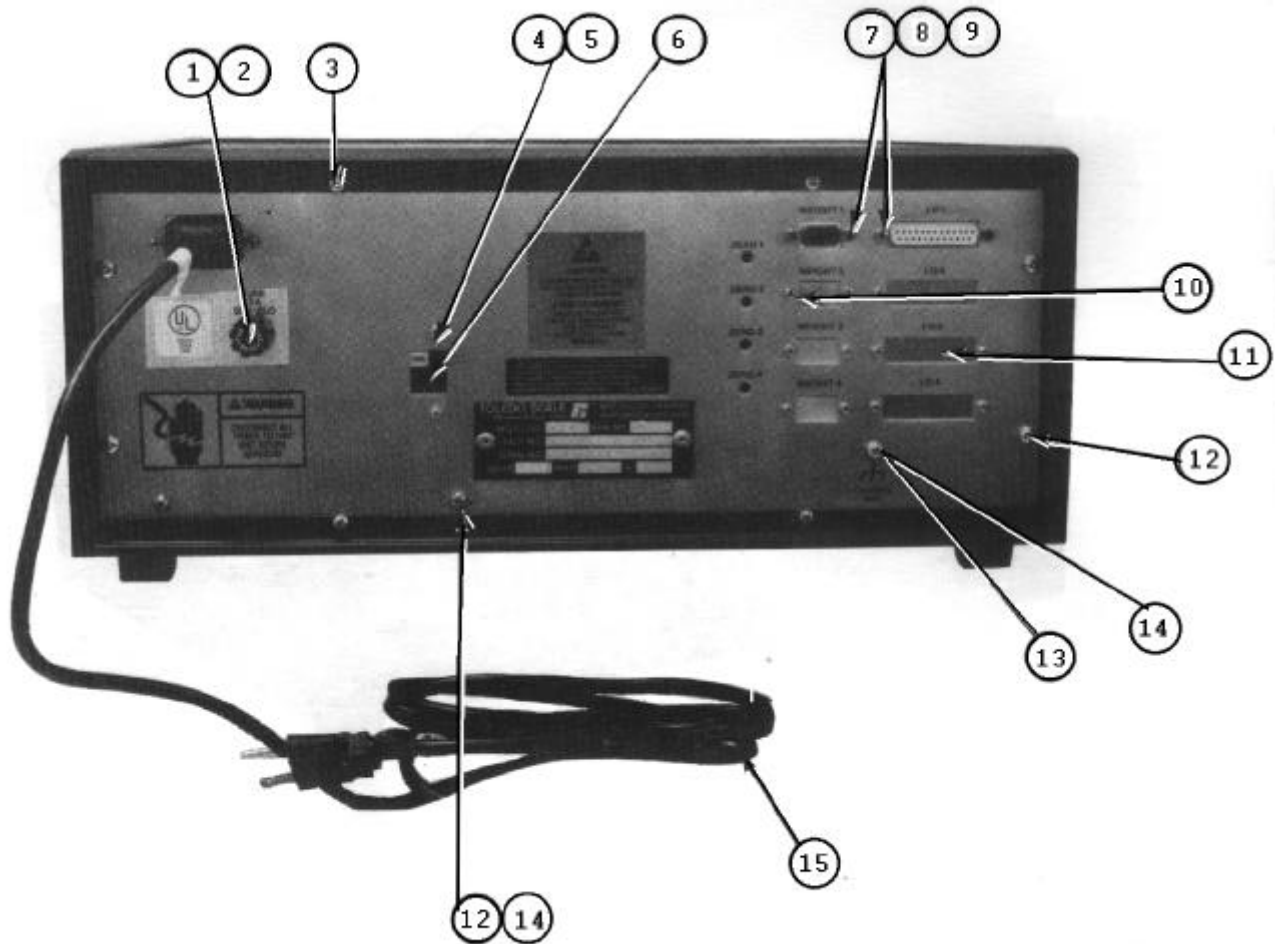
9.1.1 ENCLOSURE AND LENSES



Ref No.	PART NUMBER	DESCRIPTION	QTY.
1	126005 00A	Wt, Display Lens (WT1, TR1)	1*
	126070 00A	Wt, Display Lens (WT1, TR1,WT2, TR2)	1*
	126071 00A	Wt, Display Lens (WT1, WT2)	1*
	126072 00A	Wt, Display Lens (WT1, WT2,WT3)	1*
	126073 00A	Wt, Display Lens (WT1, WR2, WT3, WT4)	1*
2	126003 00A	Data Lens	1
3	126011 00A	Bezel	1
4	126000 00A	Enclosure	1
5	128125 00A	Keyboard Assembly (Basic Version)	1
	128126 00A	Keyboard Assembly (Enhanced Version)	1

* Your unit will have one of the five Wt. Display Lenses listed, make certain that you are ordering the correct lens for your installation.

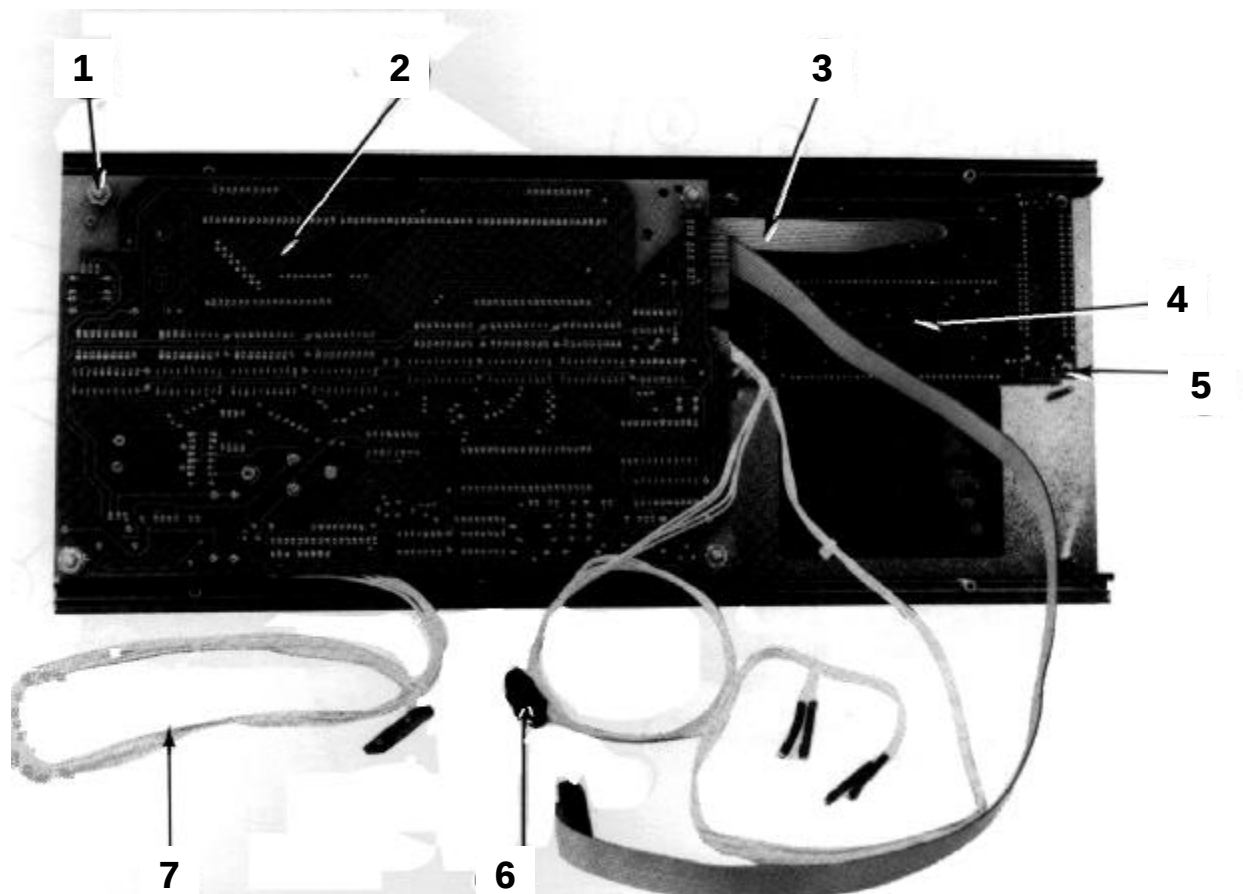
9.1.2 REAR PANEL



Ref No.	PART NUMBER	DESCRIPTION	QTY.
1	124801 00A	Fuse Holder	1
2	124654 00A	Fuse, 1.5 Amp, Slo-Blo	1
3	R03133 00A	Screw, #6-32 x 5/16"	4
4	R01916 050	Screw, #4-40 x 1/4"	2
5	R01679 050	Lockwasher, #4	2
6	115146 00A	Lockout Plate	1
7	125365 00A	Standoff	4
8	R02547 00A	Washer, #4 (N.S.)	4
9	R03305 00A	Nut, #4-40 (N.S.)	4
10	126044 00A	Connector Cover Plate, (9 pos)	3
11	112388 00A	Connector Cover Plate, (25 pos)	3
12	R01236 050	screw, #8-32 x 3/8"	6
13	R00849 130	Screw, #8 x 1/2"	1
14	R00589 130	Lockwasher. #8	3
15	103867 00A	Line Cord	1

(N.S.) Not-Shown

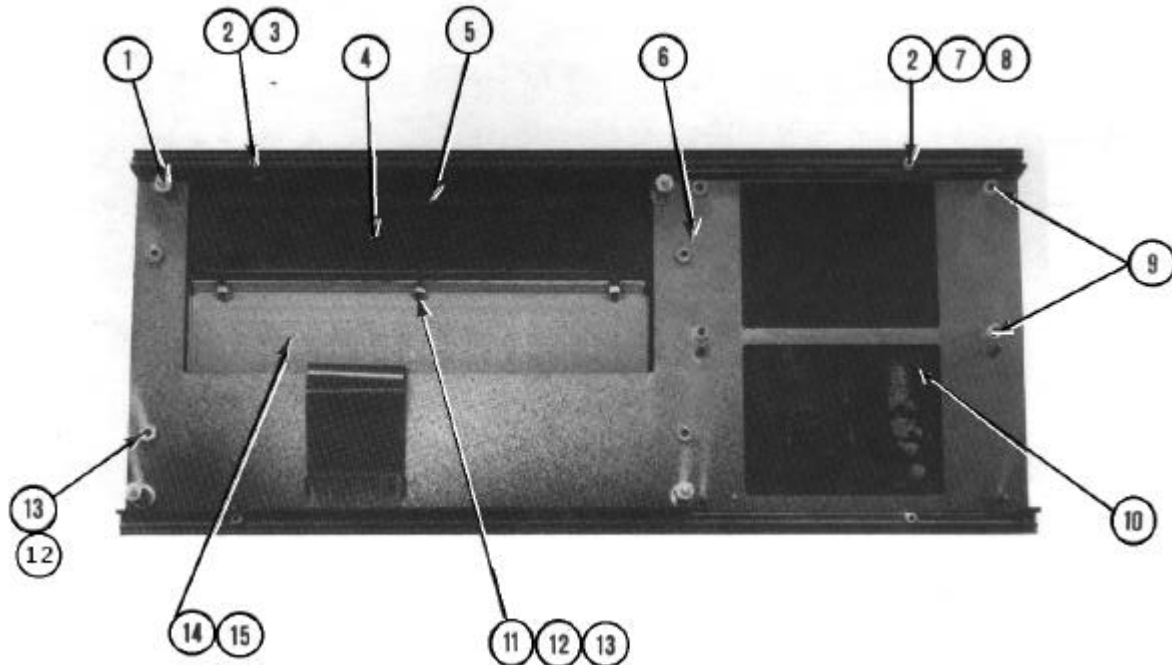
9.1.3 DISPLAY PCB'S



Ref No.	PART NUMBER	DESCRIPTION	QTY.
1	R01611 050	Nut, #8-32	4
2	125269 00A	Dot Matrix Display PCB (Basic Version)	1
	125270 00A	Dot Matrix Display PCB (Enhanced Version)	1
3	126085 00A	Harness, Wt. Display to Power Supply	1
4	125252 00A	Weight Display PCB	1
5	R01678 050	Nut, #4-40	4
6	128236 00A*	Harness, ADP51 to Wt. Display	1
7	118525 00A	Harness, Display to Power Supply	1

* This harness will be part number 126094 00A if optional Zero Push-buttons are installed.

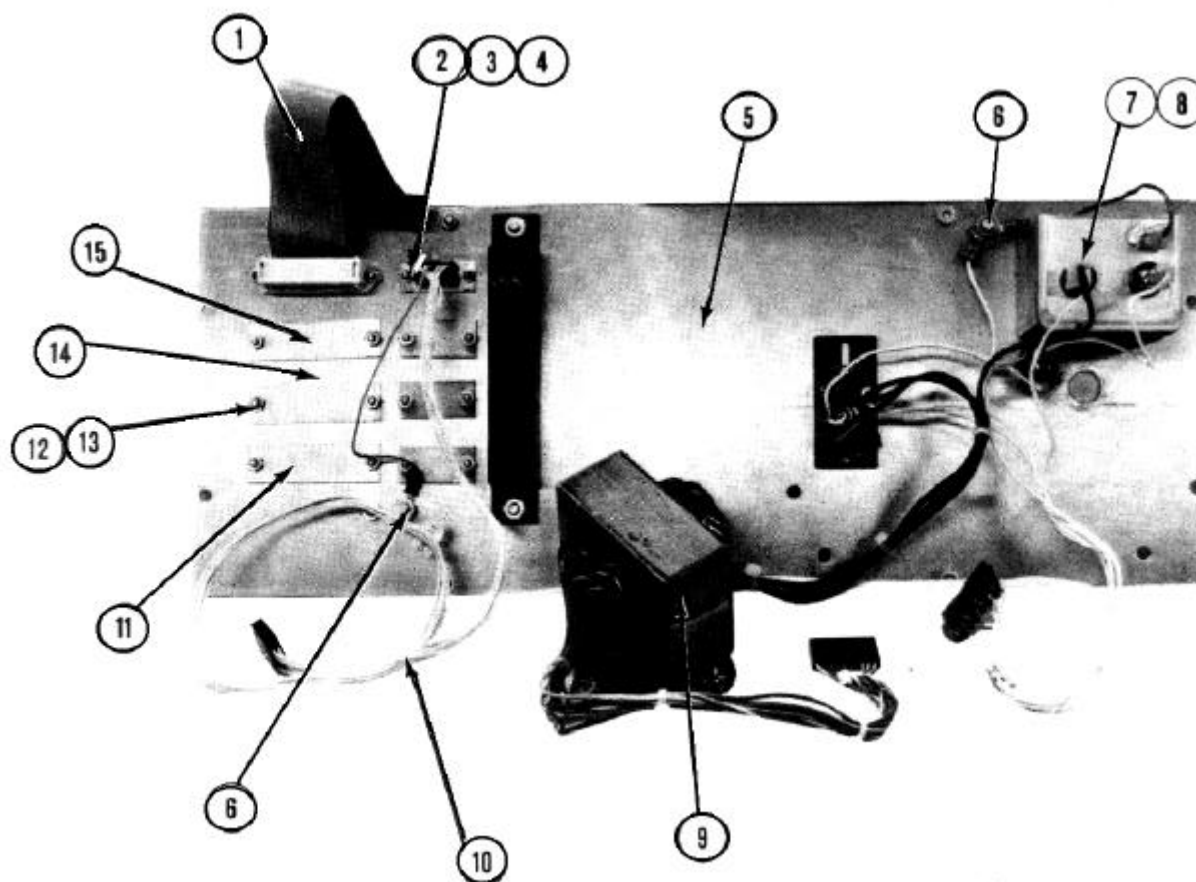
9.1.4 FRONT PANEL AND KEYBOARD



Ref No.	PART NUMBER	DESCRIPTION	QTY.
1	125814 00A	Standoff	4
2	R03701 00A	Setscrew, #10-32 x 5/8"	4
3	R01765 050	Nut, #10-32 Square	2
4	128216 00A	Conductive Lens (Data Display)	1
5	128218 00A	Label, "Caution...Do Not Handle..." (N.S.)	1
6	126008 00A	Front Panel	1
7	126034 00A	Panel Retaining Nut	2
8	126035 00A	Nut Insulator	2
9	126068 00A	Spacer	4
10	129139 00A	Conductive Lens (Wt. Display)	1
11	R03685 00A	Stud, #6-32 Self Clinch	3
12	R03559 00A	Screw, #6-32 x 5/16"	7
13	R03283 00A	Nut, #6-32 W/ Lockwasher	10
14	128125 00A	Keyboard Assembly (Basic Version)	1
	128126 00A	Keyboard Assembly (Enhanced Version)	1
15	127494 00A	Keyboard Gasket (N.S.)	1

(N.S.) Not Shown

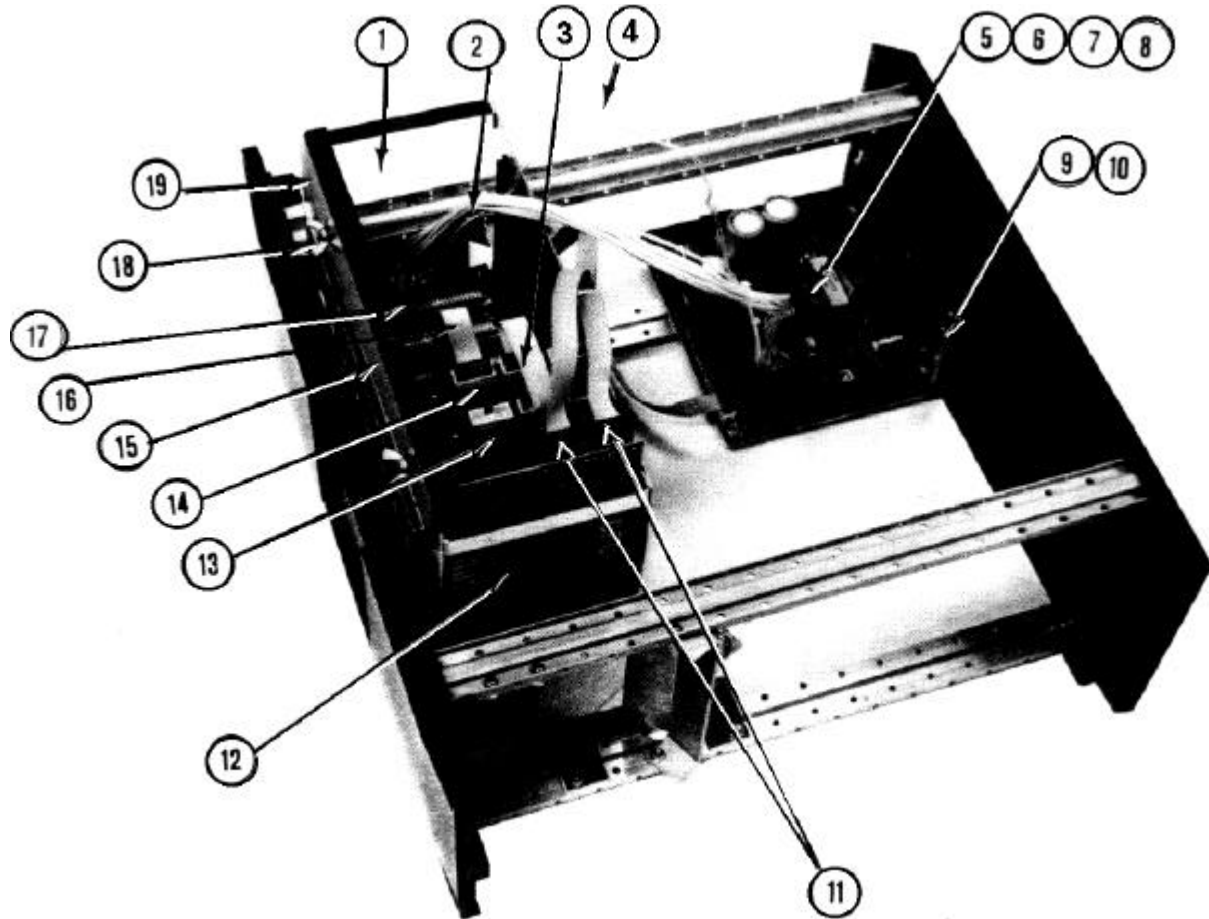
9.1.5 TRANSFORMER AND HARNESS



Ref No.	PART NUMBER	DESCRIPTION	QTY.
1	126082 00A	Harness, Printer	1
2	R03305 00A	Nut, #4-40	4
3	R02547 00A	Washer, #4	4
4	125365 00A	Standoff (N.S.)	4
5	B126009 00A	Rear Panel (blank)	1
6	R03298 00A	Nut, #8-32 W/Lockwasher	3
7	125271 00A	Line Filter	1
8	R03133 00A	Screw, #6-32 x 5/16"	2
9	126095 00A	Transformer Assembly	1
10	126080 00A	Harness, Load Cell	1
11	126091 00A	Harness, Setpoint (N.S.)	1
12	R02101 050	Screw, #4-40	12
13	R03638 00A	Nut, #4-40 W/ Lockwasher	12
14	126090 00A	Harness, Host (N.S.)	1
15	126091 00A	Harness, Bar Code (N.S.)	1

(N.S.) Not Shown

9.1.6 PCB'S

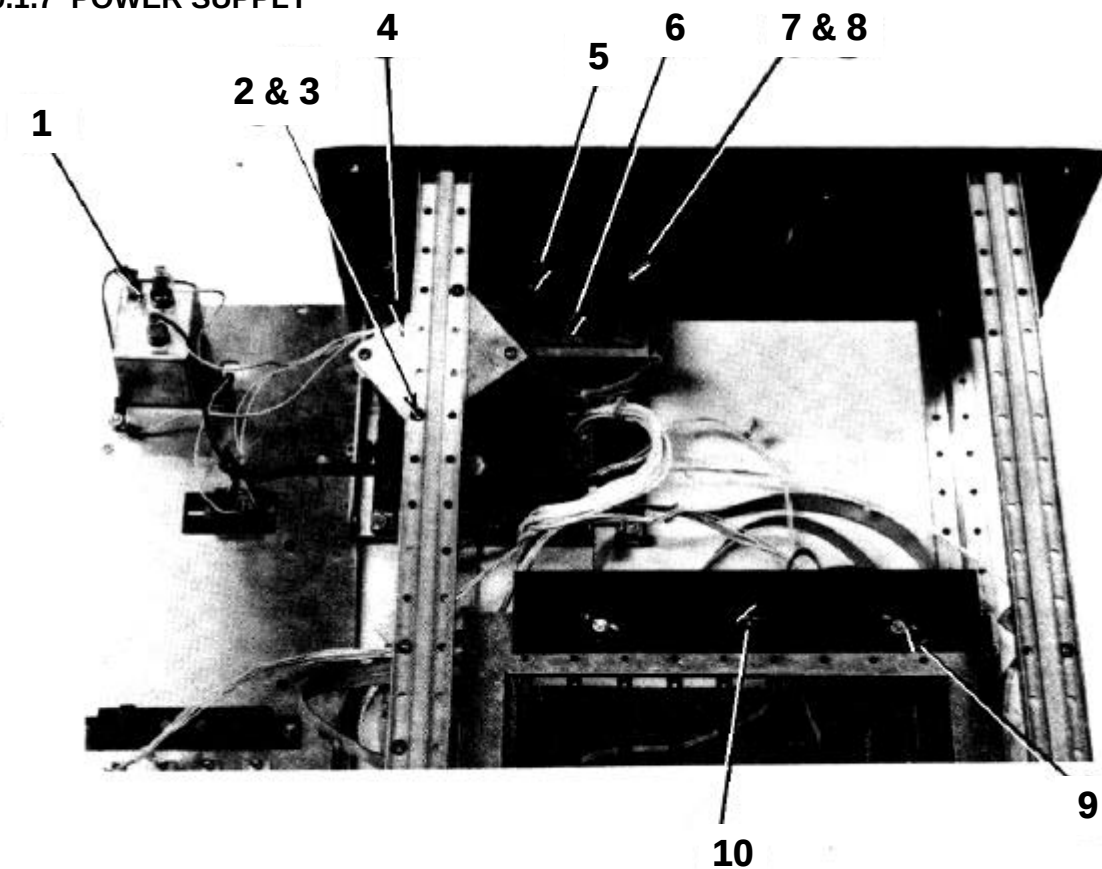


Ref No.	PART NUMBER	DESCRIPTION	QTY.
1	125262 00A	Dual Serial Converter PCB (N.S.)	1
2	126086 00A	Harness, Motherboard to Power	1
3	118526 00A	Harness, Analog to ADP51 PCB	1*
4	127497 00A	Harness, Logic	1
5	125268 00A	Power Supply PCB	1
6	127249 00A	Power Supply Shield (N.S.)	1
7	128224 00A	Label, Caution Shock (N.S.)	1
8	127490 00A	Insulator, Power Supply PCB	1
9	127495 00A	Standoff	2
10	R03298 00A	Nut, #8-32 W/ Lockwasher	2
11	126087 00A	Harness, CPU to Dual Serial Converter	2
12	126060 00A	CPU PCB	1
13	120731 00A	ADP51 PCB	1*
14	123018 00A	Analog PCB	1*
15	125258 00A	Motherboard PCB	1
16	118524 00A	Harness, Analog Power	1*
17	125502 00A	Serial I/O PCB (N.S.)	1*
18	R01607 050	Wing Nut, #8-32	2
19	126024 00A	PCB Retainer	1

(N.S.) Not Shown.

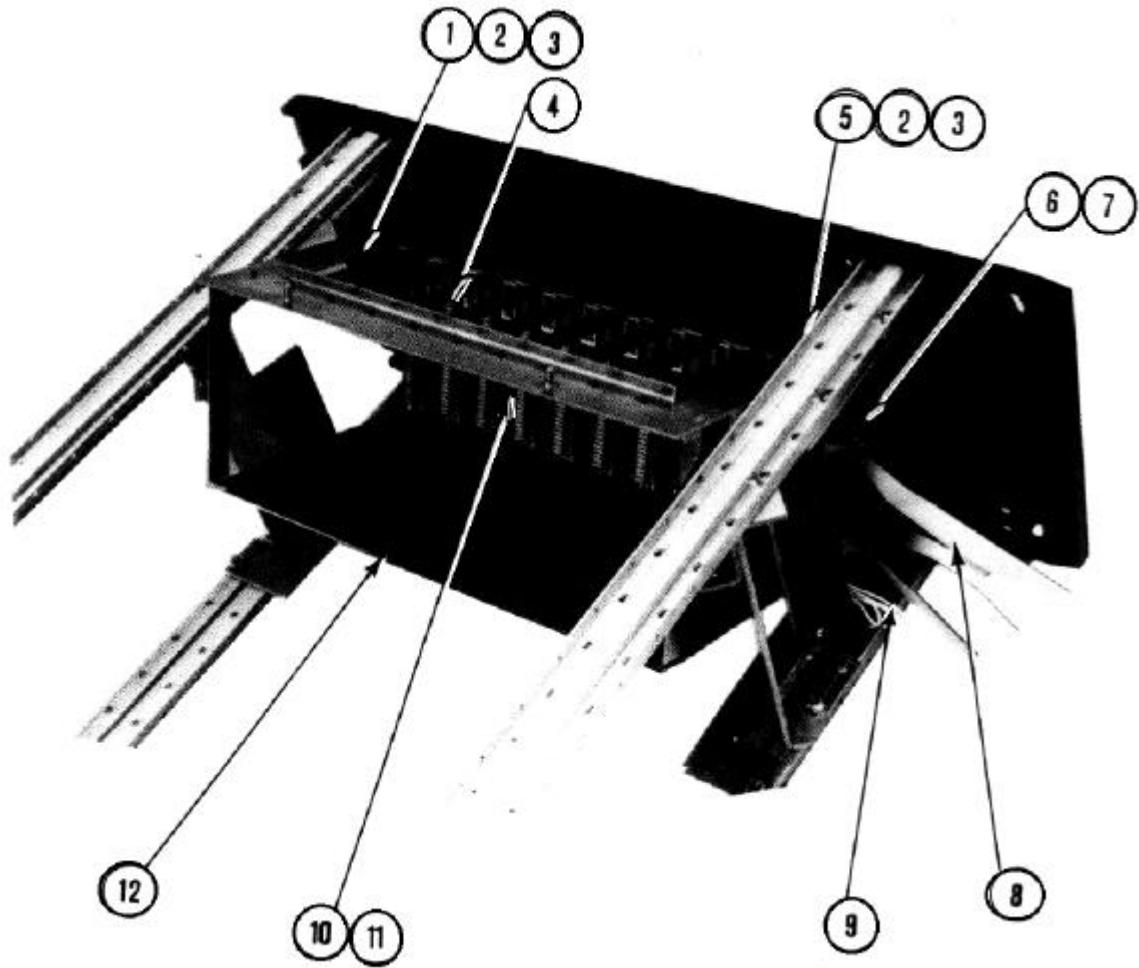
* There may be more than one in your unit.

9.1.7 POWER SUPPLY



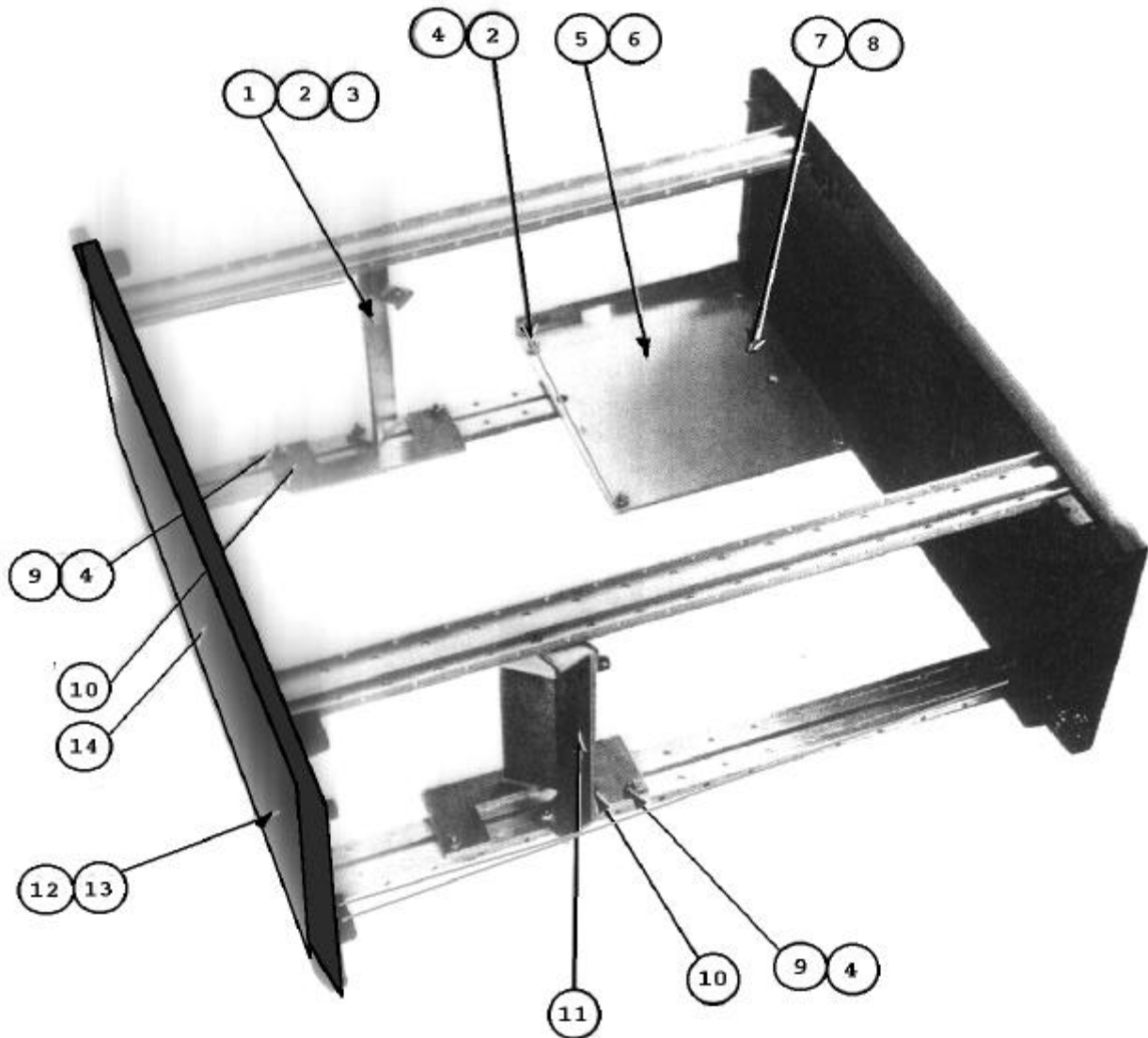
Ref No.	PART NUMBER	DESCRIPTION	QTY.
1	125271 00A	Line Filter	1
2	R00849 130	Screw, #8-32 x 1/2"	2
3	R03298 00A	Nut, #8-32 W/Lockwasher	4
4	127248 00A	Transformer Mounting Plate	1
5	127249 00A	Power Supply Shield	1
6	128224 00A	Label, Caution Shock	1
7	127495 00A	Standoff	2
8	R01611 050	Nut, #-32	2
9	R01607 050	Wing Nut, #8-32	2
10	126024 00A	PCB Retainer	1

9.1.8 CARD CAGE



Ref No.	PART NUMBER	DESCRIPTION	QTY.
1	126007 00A	Front Cage Hinge Bracket	1
2	R00849 130	Screw, #8-32	5
3	R03298 00A	Screw, #8-32 W/Lockwasher	5
4	115578 00A	Card Guide	20
5	126006 00A	Rear Cage Hinge Bracket	1
6	125262 00A	Dual Serial Converter PCB	1
7	127489 00A	Insulator, Dual Series Converter PCB	1
8	126081 00A	Harness, Dual Serial Converter to Power Supply	1
9	126088 00A	Harness, Display to Dual Serial Converter	1
10	125258 00A	Motherboard PCB	1
11	R00848 050	Screw, #8-32 x 5/16"	10
12	126023 00A	Card Cage Assembly	1

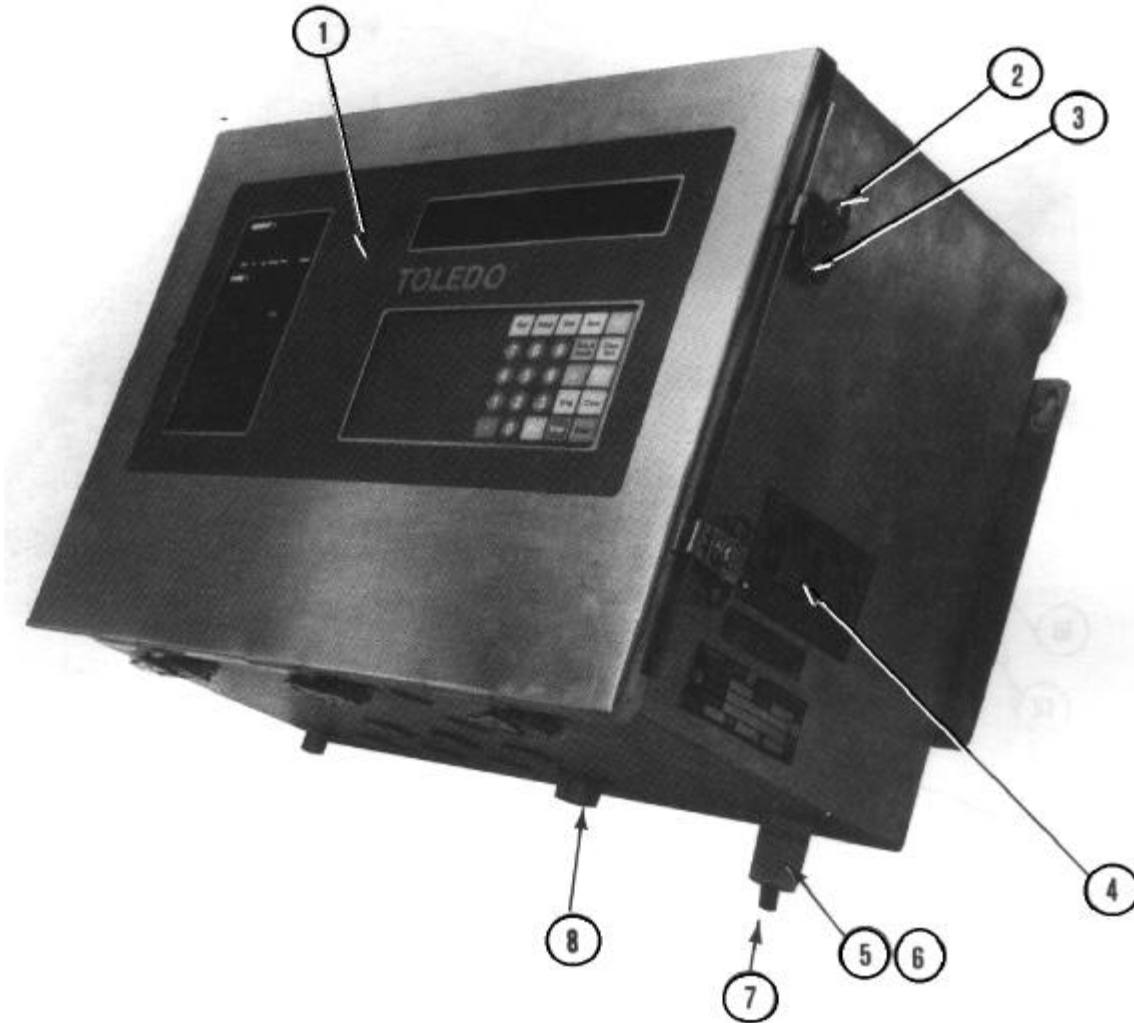
9.1.9 CHASSIS



Ref No.	PART NUMBER	DESCRIPTION	QTY.
1	126066 00A	Rear Swivel Bracket Assembly	1
2	R00849 130	Screw, #8-32 x 1/2"	8
3	R02181 00A	Nut, #8-32 Elastic Loop	4
4	R03298 00A	Nut, #8-32 W/ Lockwasher	8
5	126010 00A	Mounting Panel	1
6	127490 00A	Insulator, Power Supply PCB	1
7	R00813 050	Nut, #6-32	2
8	R03559 00A	Screw, #6-32 x 5/16"	2
9	R00848 050	Screw, #8-32 x 5/16"	4
10	127487 00A	Card Cage Support Plate	2
11	160067 00A	Front Swivel Bracket Assembly	1
12	R01806 050	Screw, #10-32 x 1"	12
13	R00822 00A	Lockwasher, #10	12
14	126001 00A	Side Cover Plate	2

9.2 WALL MOUNT

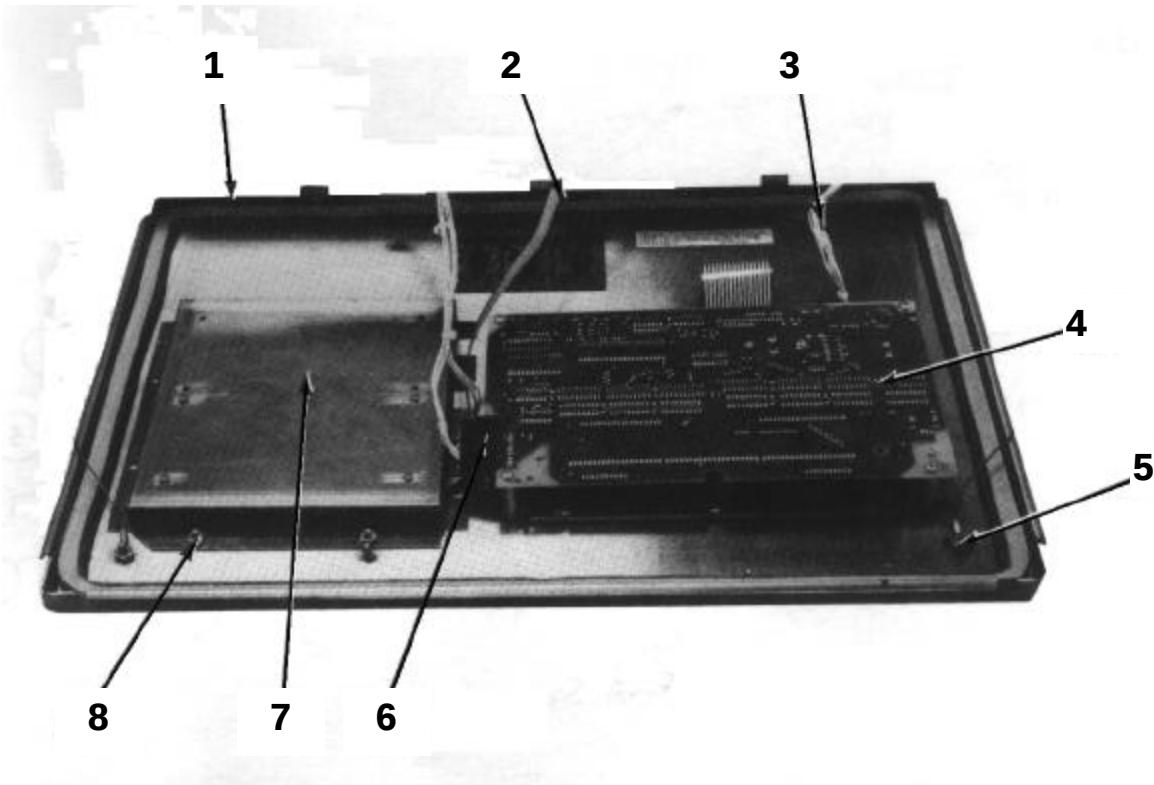
9.2.1 BEZEL AND LINE CORD



Ref No.	PART NUMBER	DESCRIPTION	QTY.
1	126031 00A	Decorative Bezel	1
2	124100 00A	Hinge Spring (Right Side)	3
3	124101 00A	Hinge Spring (Left Side)	3
4	A118792 00A	Label, Service Warning	1
5	104699 00A	O-Ring Gasket	1
6	116240 00A	Sealing Locknut (N.S.)	1
7	127488 00A	Line Cord Assembly	1
8	123484 00A	Connector Cap (N.S.)	1

(N.S.) Not Shown

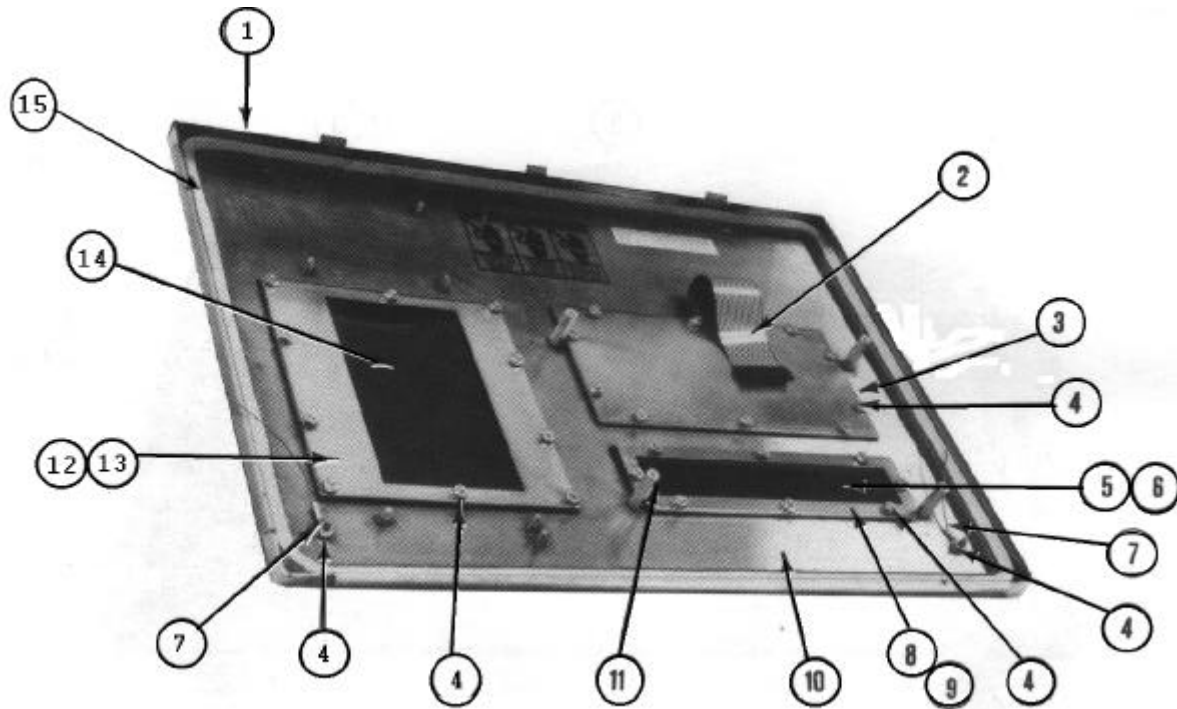
9.2.2 DATA DISPLAY PCB



Ref No.	PART NUMBER	DESCRIPTION	QTY.
1	126029 00A	Enclosure, Door W/Gasket	1
2	126085 00A	Harness, Wt. Display to Power Supply	1*
3	118525 00A	Harness, Display to Power Supply	1
4	125269 00A	Dot Matrix Display PCB (Basic Version)	1
	125270 00A	Dot Matrix Display PCB (Enhanced Version)	1
5	R00848 050	Screw, #8-32 x 5/16"	4
6	126088 00A	Harness, Display to Dual Serial Converter	1
7	127238 00A	Weight Display Bracket	1
8	R03298 00A	Nut, #8-32 W/Lockwasher	4

* There may be more than one in your unit.

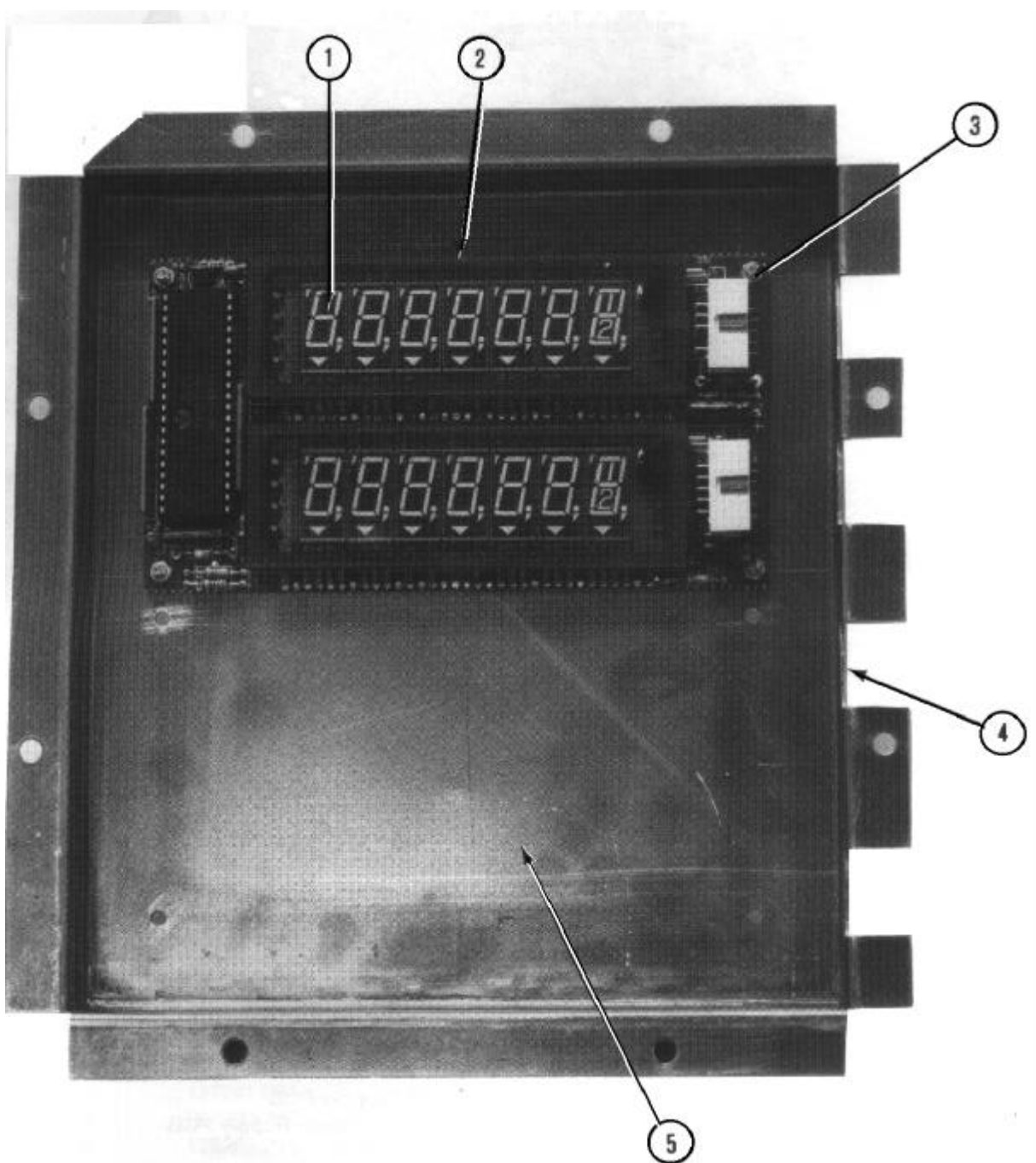
9.2.3 FRONT PANEL AND KEYBOARD



Ref No.	PART NUMBER	DESCRIPTION	QTY.
1	126029 00A	Enclosure Door W/Gasket	1
2	128127 00A	Keyboard Assembly (Basic Version)	1
	128128 00A	Keyboard Assembly (Enhanced Version)	1
3	127243 00A	Keyboard Gasket	1
4	R03298 00A	Nut, #8-32 W/Lockwasher	30
5	126033 00A	Display Lens	1
6	128217 00A	Conductive Lens	1
7	127252 00A	Tension Cables	2
8	127246 00A	Display Lens Clamp	1
9	127247 00A	Display Lens Gasket	1
10	128218 00A	Label "Caution...Do Not Handle..."	1
11	A123501 00A	Standoff	4
12	127245 00A	Wt. Display Lens Gasket	1
13	127244 00A	Wt. Display Lens Clamp	1
14	126032 00A	Wt. Display Lens (WT1, TR1)	1*
	126074 00A	Wt. Display Lens (WT1, TR1, WT2, TR2)	1*
	126075 00A	Wt. Display Lens (WT1, WT2)	1*
	126076 00A	Wt. Display Lens (WT1, WT2, WT3)	1*
	126077 00A	Wt. Display Lens (WT1, WT2, WT3, WT4)	1*
15	309110 00A	Foot Cover Gasket	

* Your unit will have on of the five Wt. Display Lenses listed, make certain your are ordering the correct lens for your installation.

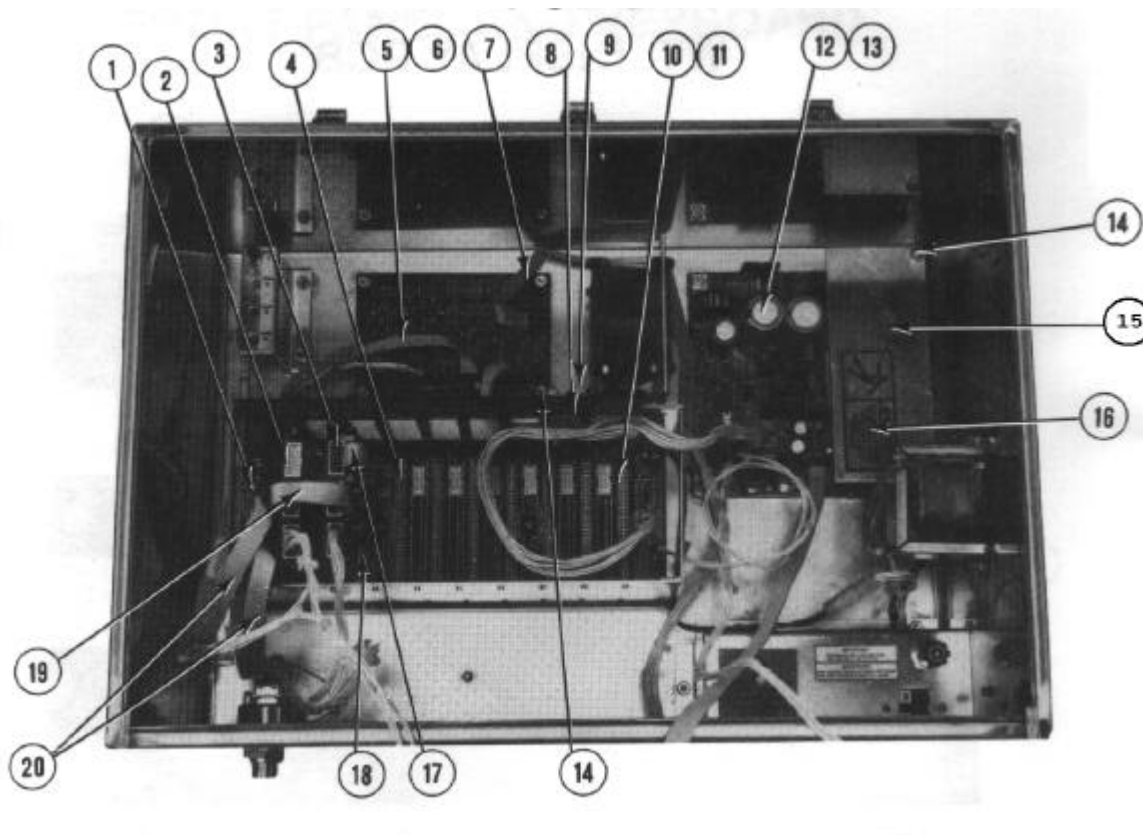
9.2.4 WT. DISPLAY PCB



Ref No.	PART NUMBER	DESCRIPTION	QTY.
1	125252 00A	Wt. Display PCB	1*
2	127486 00A	Insulator, Wt. Display	1*
3	R02101 050	Screw, #4-40 x 3/8"	4
4	279420 002	Caterpillar Grommet	4
5	127238 00A	Wt. Display Bracket	1

* There may be more than one in your unit.

9.2.5 PCB'S

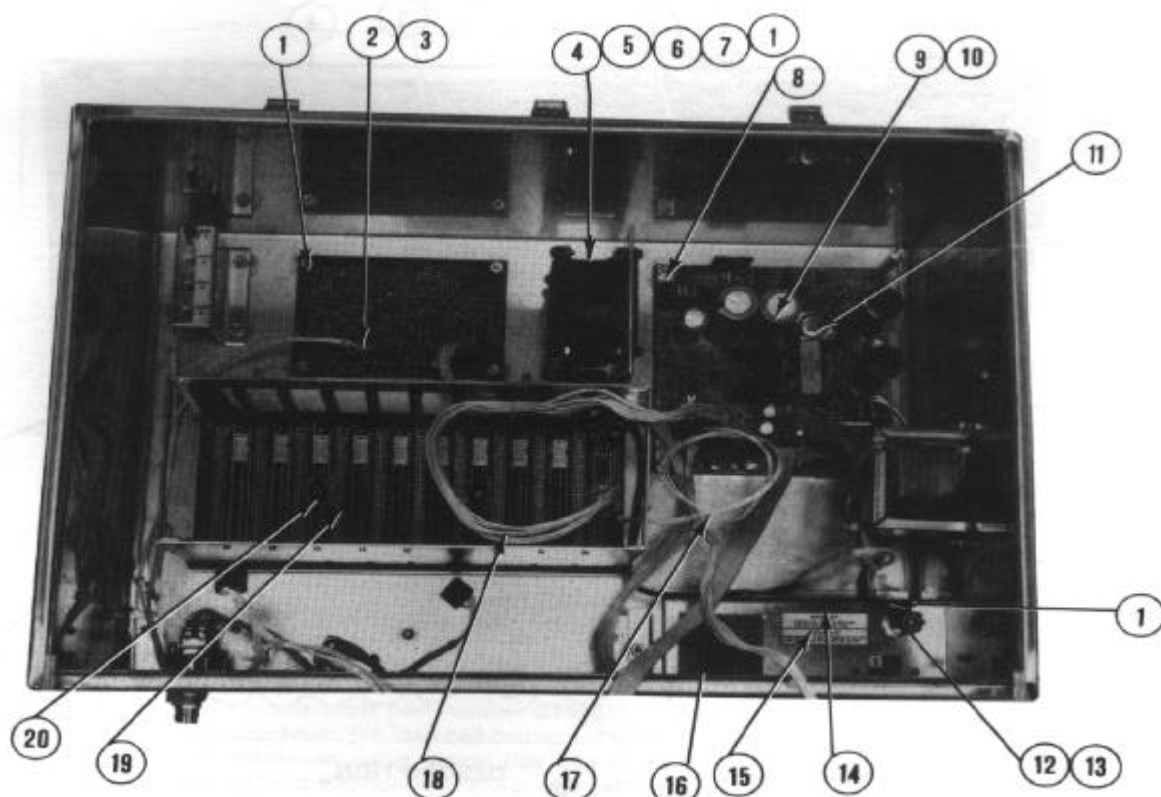


Ref No.	PART NUMBER	DESCRIPTION	QTY.
1	126060 00A	CPU PCB	1
2	120731 00A	ADP51 PCB	1*
3	123018 00A	Analog PCB	1*
4	125258 00A	Motherboard PCB	1
5	125262 00A	Dual Serial Converter PCB	1
6	127489 00A	Insulator, Dual Serial Converter PCB	1
7	126081 00A	Harness, Dual Serial Converter to Power Supply	1
8	126024 00A	PCB Retainer	1
9	R01607 050	Wing Nut, #8-32	2
10	125502 00A	Serial I/O PCB (N.S.)	1*
11	118521 00A	Harness, Serial I/O to Power (N.S.)	1*
12	125268 00A	Power Supply to PCB	1
13	127490 00A	Insulator, Power Supply PCB	1
14	R03298 00A	Nut, #8-32 W/ Lockwasher	6
15	127249 00A	Power Supply Shield	1
16	128224 00A	Label, Caution Shock	1
17	118524 00A	Harness, Analog Power	1*
18	128236 00A**	Harness, ADP51 to Wt. Display	1*
19	118526 00A	Harness, Analog to ADP51	1*
20	126087 00A	Harness, CPU to Dual Serial Converter	1

* There may be more than one in your unit.

** This harness will be part number 1267094 00A if the optional Zero Pushbuttons are installed.
(N.S.) Not Shown.

9.2.6 POWER SUPPLY



Ref No.	PART NUMBER	DESCRIPTION	QTY.
1	R03298 00A	Nut, #8-32 W/Lockwasher	13
2	125262 00A	Dual Serial Converter PCB	1
3	127489 00A	Insulator, Dual Serial Converter PCB	1
4	118476 00A	Finger Guard	2
5	R00845 130	Screw, #8-32 x 5/8"	8
6	120863 001A	Fan and Harness Assembly	1
7	127241 00A	Fan Mounting Bracket	1
8	R01611 050	Nut, #8-32	2
9	125268 00A	Power Supply PCB	1
10	127490 00A	Insulator, Power Supply PCB	1
11	127495 00A	Standoff	2
12	124654 00A	Fuse, 1.5 Amp Slo-Blo	1
13	124801 00A	Fuse Holder	1
14	124220 00A	Label, Fuse Rating	1
15	129138 00A	Label, Warning	1
16	116033 00A	Label, Static Caution	1
17	127497 00A	Harness, Logic	1
18	126086 00A	Harness, Motherboard Power	1
19	125258 00A	Motherboard PCB	1
20	R00848 050	Screw, #8-32 x 5/16"	6

9.2.7 TRANSFORMER AND HARNESS

PART NUMBER	DESCRIPTION	QTY.
126028 00A	Enclosure Assembly (Without Door)	1
127489 00A	Insulator, Dual Serial Converter PCB	1
126023 00B	Card Cage Assembly	1
127490 00A	Insulator, Power Supply PCB	1
126096 00A	Transformer Assembly	1
R03283 00A	Nut, #6-32 W/Lockwasher	3
A118792 00A	Label, Service Warning	1
A124087 00A	Disk Assembly	6
124086 00A	Curved Disk (1.25" O.D./0.50" I.D.)	6
124266 00A	Ground Strap	6
124089 00A	Grommet (1.25" O.D./0.50" I.D.)	3
124626 00A	Grommet (0.50" I.D.)	3
126083 00A	Harness, Printer	1
126092 00A	Harness, Bar Code (N.S.)	1
126090 00A	Harness, Host (N.S.)	1
126092 00A	Harness, Setpoint (N.S.)	1
126093 00A	Harness, Load Cell	1*
115578 00A	Card Guides	20
R03298 00A	Nut, #8-32 W/ Lockwasher	30
108750 00A	Spacer, #8 x 3/16"	4
127252 00A	Tension Cable	2

* There may be more than one in your unit.

9.3 MISCELLANEOUS

9.3.1 KITS OF PARTS

DESCRIPTION	PART NUMBER FOR DESK TYPE	PART NUMBER FOR WALL TYPE
Additional Scale KOP	127480 00A	127481 00A
Serial I/O KOP	127482 00A	127483 00A
Additional Wt. Display KOP	127485 00A	127498 00A
Tool Operated Zero Pushbutton KOP	128235 00A	128235 00A

9.3.2 MATING CONNECTORS, DESK

8146 CONNECTOR	DESCRIPTION	MATING PART #'S
Load Cell*	Male Plug and Clamp KOP	125819 00A
Serial I/O (All)	Male Plug	107187 00A
	Cable Clamp	125389 00A
	Contact Pins	107189 00A
	Grommet	125842 00A

* An adapter cable part number B117611 00A may be used to adapt the older seven pin load cell connector to the newer nine pin D-type. The maximum cable gauge that can be soldered to the nine pin connector is #20 gauge. If #6 gauge cable is used, the B117611 00A adapter cable is required.

9.3.3 MATING CONNECTORS, WALL

8146 CONNECTOR	DESCRIPTION	MATING PART #'S
Load Cell*	Connector KOP	125820 00A**
Serial I/O #1 (Printer) #2 &4 (Setpoint) #3 (Host)	Connector KOP	126232 00A**
	Connector	123480 00A**
	Connector	123482 00A**
BCD/Analog Output	Connector KOP	126274 00A**
	Connector and 20' Cable	126242 00A

* An adapter cable part number 124130 00A may be used to adapt the older seven pin load cell connector to the newer 10 pin type. The maximum cable gauge that can be soldered to the 10 pin connector is #20 gauge. If #156 gauge cable is used, the 123130 00A adapter cable is required.

** Potting and Cleaning KOP's are required.

9.3.4 INTERCONNECTING CABLES

Printer	8146	Length	Part Number
307	DESK	6'	A119714 00A
	DESK	20'	A119715 00A
	WALL	6'	A122570 00A
	WALL	20'	A122571 00A
8622	DESK	25'	125060 00A
	WALL	25'	125058 00A
8804* & 8806 & 8860	DESK	6'	A115544 00A
	DESK	20'	A115545 00A
	WALL	6'	A122574 00A
	WALL	20'	A122575 00A
8840	DESK	6'	128220 00A
	WALL	20'	128221 00A
8855	DESK	6'	B119722 00A
	DESK	20'	B119723 00A
	WALL	6'	A122578 00A
	WALL	20'	A122579 00A