



Technical Manual
BSP-1
BARRIER STRIP PANEL

October 1981

7A0040 REV A

WARRANTY

All equipment designed and manufactured by Moseley Associates, Inc., is warranted against defects in workmanship and material that develop under normal use within a period of (2) years from the date of original shipment, and is also warranted to meet any specifications represented in writing by Moseley Associates, Inc., so long as the purchaser is not in default under his contract of purchase and subject to the following additional conditions and limitations:

1. The sole responsibility of Moseley Associates, Inc., for any equipment not conforming to this Warranty shall be, at its option:
 - A. to repair or replace such equipment or otherwise cause it to meet the represented specifications either at the purchaser's installation or upon the return thereof f.o.b. Santa Barbara, California, as directed by Moseley Associates, Inc.; or
 - B. to accept the return thereof f.o.b. Santa Barbara, California, credit the purchaser's account for the unpaid portion, if any, of the purchase price, and refund to the purchaser, without interest, any portion of the purchase price theretofore paid; or
 - C. to demonstrate that the equipment has no defect in workmanship or material and that it meets the represented specification, in which event all expenses reasonably incurred by Moseley Associates, Inc., in so demonstrating, including but not limited to costs of travel to and from the purchaser's installation, and subsistence, shall be paid by purchaser to Moseley Associates, Inc.
2. In case of any equipment thought to be defective, the purchaser shall promptly notify Moseley Associates, Inc., in writing, giving full particulars as to the defects. Upon receipt of such notice, Moseley Associates, Inc., will give instructions respecting the shipment of the equipment, or such other manner as it elects to service this Warranty as above provided.
3. This Warranty extends only to the original purchaser and is not assignable or transferable, does not extend to any shipment which has been subjected to abuse, misuse, physical damage, alteration, operation under improper conditions or improper installation, use or maintenance, and does not extend to equipment or parts not manufactured by Moseley Associates, Inc., and such equipment and parts are subject to only adjustments as are available from the manufacturer thereof.
4. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, SHALL BE APPLICABLE TO ANY EQUIPMENT SOLD BY MOSELEY ASSOCIATES, INC., AND NO REPRESENTATIVE OR OTHER PERSON IS AUTHORIZED BY MOSELEY ASSOCIATES, INC., TO ASSUME FOR IT ANY LIABILITY OR OBLIGATION WITH RESPECT TO THE CONDITION OR PERFORMANCE OF ANY EQUIPMENT SOLD BY IT, EXCEPT AS PROVIDED IN THIS WARRANTY. THIS WARRANTY PROVIDES FOR THE SOLE RIGHT AND REMEDY OF THE PURCHASER AND MOSELEY ASSOCIATES, INC. SHALL IN NO EVENT HAVE ANY LIABILITY FOR CONSEQUENTIAL DAMAGES OR FOR LOSS, DAMAGE OR EXPENSE DIRECTLY OR INDIRECTLY ARISING FROM THE USE OF EQUIPMENT PURCHASED FROM MOSELEY ASSOCIATES, INC.

WARNING

This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits of FCC rules which are designated to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his/her own expense will be required to take whatever measure may be required to correct the interference.

Note: All peripherals connected to this equipment, for example VDTs, printers, etc., must be connected with shielded cables to maintain this compliance.

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1. Purpose

The BSP-1 Barrier Strip Panel has been designed to provide a convenient barrier strip interface for use with Moseley MRC microprocessor-based remote control systems. Up to four input or output boards may be interfaced with a single Barrier Strip Panel.

2. Specifications

The BSP-1 Barrier Strip Panel has been designed to interface with any MRC input or output board which uses a 37-pin "D" connector for its interface.

Inputs (per board 4 max.)	
Number of Inputs	37 lines
Termination	37-pin "D" Connector

Outputs (per board 4 max.)	
Number of Inputs	37 lines, 13 chassis grounds
Termination	45° wire-clamp terminal strip AWG 24-14

Operational Temperature Range: 0°C to 50°C

3. Unpacking

The BSP-1 should be carefully unpacked and inspected for any shipping damage. Keep all packing material until performance is verified. Should inspection reveal shipping damage, or should hidden damage be revealed, immediately file a claim with the carrier. This inspection should include ascertaining that all the various components are mechanically secure.

4. Installation

The BSP-1 Barrier Interface Panel is designed to be rack-mounted within two feet of an MRC system. The BSP-1 comes supplied with extended brackets that are useful for rear rack mounting configurations. However, these brackets may be removed if the BSP-1 will be mounted on the front of a rack.

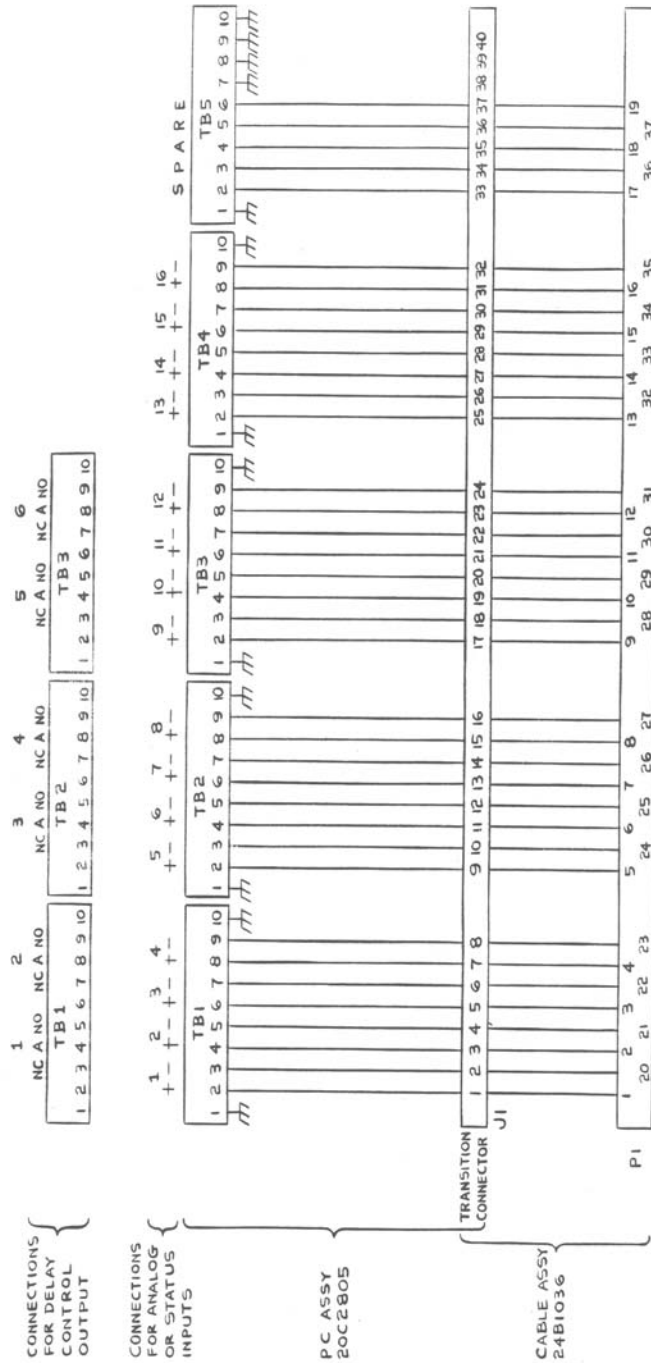
After the BSP-1 is secured to the rack, its input "D" connectors should be connected to the corresponding connectors of the appropriate I/O boards. The terminal strip connections for various MRC boards are given in Table 1. (See also 91B7257).

5. Troubleshooting

If a particular line is not working, remove the corresponding "D" connector and inspect the pins for any damage. An ohm-meter may be used to check the continuity between the connector and the terminal strips, for example, between TB2-5 and P1-25. If the connection is not open or not shorted to another pin, then the problem probably lies with the appropriate I/O interface board. Consult the MRC manuals for further troubleshooting.

Table 1

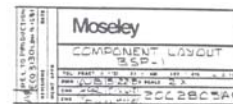
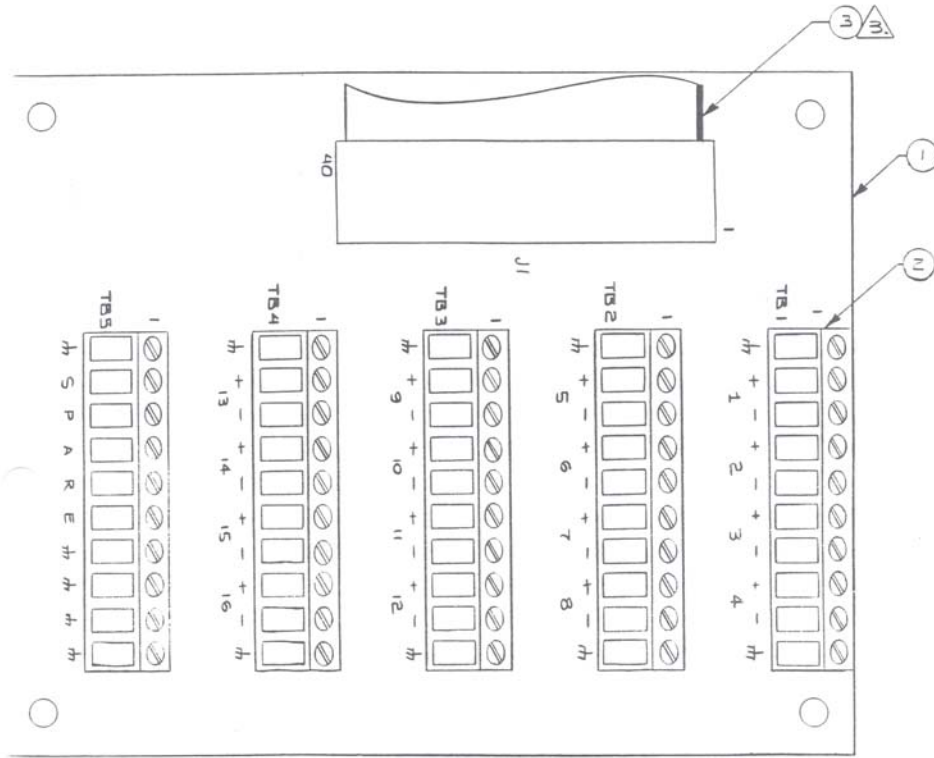
P1	Terminal Connection	Analog or Status Input	Command Output	Delay Control	Parallel Input
	TB1 - 1				Chassis
1	2	1+	1+	Spare	D15
20	3	1-	1-	1 NC	G15
2	4	2+	2+	1 A	D14
21	5	2-	2-	1 NO	G14
3	6	3+	3+	Spare	D13
22	7	3-	3-	2 NC	G13
4	8	4+	4+	2 A	D12
23	9	4-	4-	2 NO	G12
	10				Chassis
	TB2 - 1				Chassis
5	2	5+	5+	Spare	D11
24	3	5-	5-	3 NC	G11
6	4	6+	6+	3 A	D10
25	5	6-	6-	3 NO	G10
7	6	7+	7+	Spare	D9
26	7	7-	7-	4 NC	G9
8	8	8+	8+	4 A	D8
27	9	8-	8-	4 NO	G8
	10				Chassis
	TB3 - 1				Chassis
9	2	9+	9+	Spare	D7
28	3	9-	9-	5 NC	G7
10	4	10+	10+	5 A	D6
29	5	10-	10-	5 NO	G6
11	6	11+	11+	Spare	D5
30	7	11-	11-	6 NC	G5
12	8	12+	12+	6 A	D4
31	9	12-	12-	6 NO	G4
	10				Chassis
	TB4 - 1				Chassis
13	2	13+	13+	Spare	D3
32	3	13-	13-	Spare	G3
14	4	14+	14+	Spare	D2
33	5	14-	14-	Spare	G2
15	6	15+	15+	Spare	D1
34	7	15-	15-	Spare	G1
16	8	16+	16+	Spare	D0
35	9	16-	16-	Spare	G0
	10				Chassis
	TB5 - 1				Chassis
17	2	Spare	Spare	Spare	C1
36	3	Spare	Spare	Spare	GND
18	4	Spare	Spare	Spare	C2
37	5	Spare	Spare	Spare	GND
19	6	Spare	Spare	Spare	GND
	7				Chassis
	8				Chassis
	9				Chassis
	10				Chassis



NOTES:

1. *th* = CHASSIS GROUND
2. PC ASSY 20C2805 REV. Aφ.
3. PC BD 51C5923 KEY -10,-20.

Moseley		SCHEMATIC	
		BSP-1	
DATE	REV.	BY	CHK.
10/11/77	1	JL	9IB7257
TITLE		PART NO.	
BSP-1		9IB7257	
DRAWN		SCALE	
JL		1:1	
CHK		DATE	
JL		10/11/77	
APP		BY	
JL		JL	



Qty.	Description	Ref Des	Stock Number	Item
*	BSP-1 Component Layout, 20C2805	Rev A0	9204074	*
1	Cable Assy MAI 24B1036	Rev B1	2250017	3
	Alternate Terminal Weidmueller	MK8/10 (3026.6)		
5	Terminal Strip Electrovert	TB1-TB5	3291036	2
1	PC Board 51C5923	Rev. -11, -21	3472958	1

Figure 2 – Component Layout

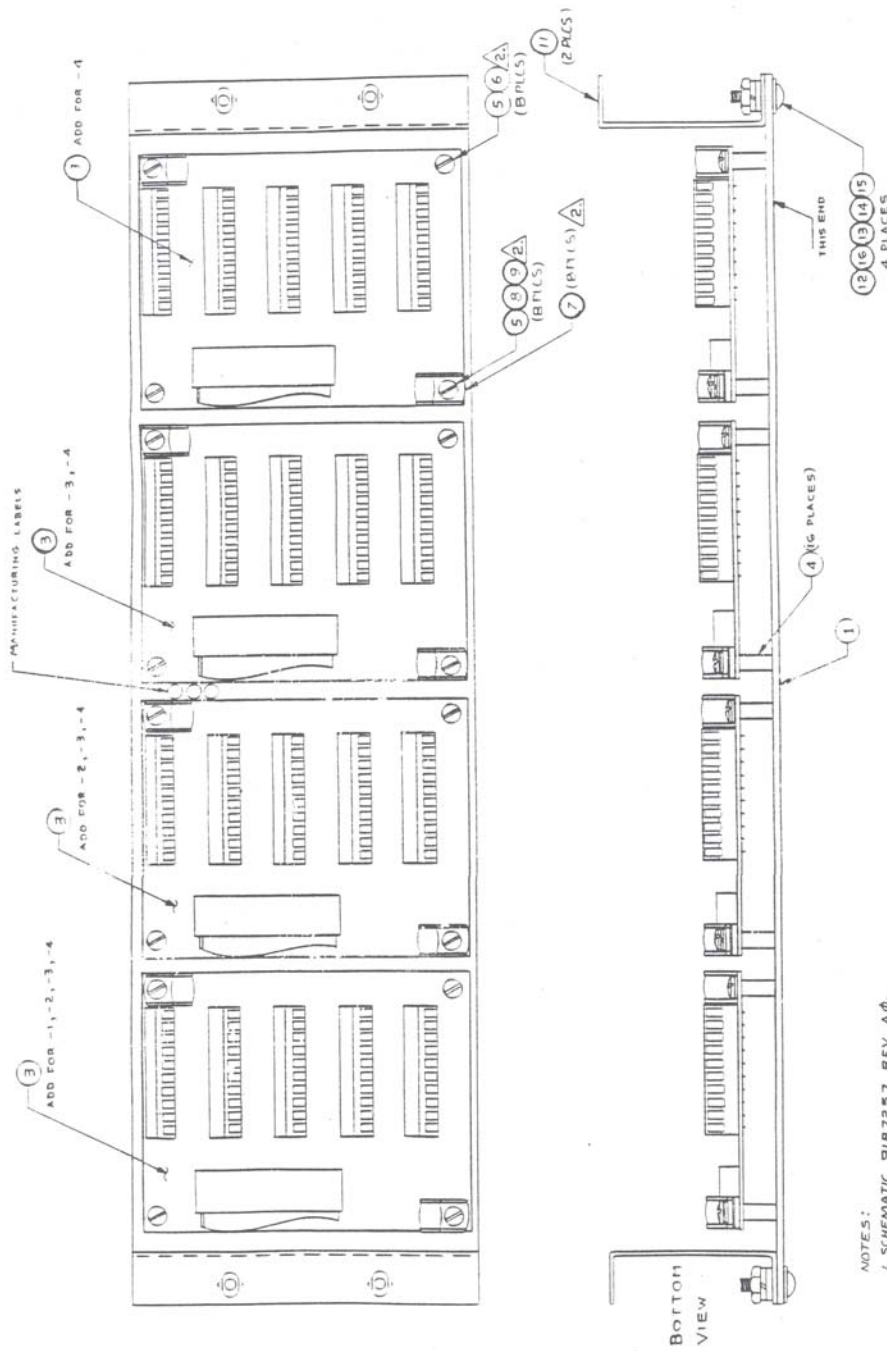


Figure 3 – Final Assy BSP1

Qty				Description	Ref. Des.	Stock No.	Item
*				Final Assy BSP-1, 4 PC Boards		9503210	*
	*			Final Assy BSP-1, 3 PC Boards		9503228	*
		*		Final Assy BSP-1, 2 PC Boards		9503236	*
			*	Final Assy BSP-1, 1 PC Board		9502741	*
4	4	4	4	Washer Fiber #io		1150150	16
4	4	4	4	Nut; Hex #10=32		1150093	15
4	4	4	4	Washer, Lock #10 S.R.		1150135	14
4	4	4	4	Washer, Flat #10		1150143	13
4	4	4	4	Screw, Button Head #10-32 x ½		1150077	12
2	2	2	2	Extender Bracket MAI 5B2696	Rev A0	2060507	11
							10
8	8	8	8	Screw, BH #6-32 x ½		1090224	9
8	8	8	8	Washer, Flat #6		1090604	8
8	8	8	8	Cable Clamp H-1/2		1270073	7
8	8	8	8	Screw, BH #6 – 32 x 5/16		1090190	6
16	16	16	16	Washer, Lock #6 Int. Tooth		1090562	5
16	16	16	16	Standoff #6, 32 x ½		1230317	4
4	3	2	1	PC Assy. SBSP-1 MAI 20C2805	Rev A0	9204074	3
							2
1	1	1	1	Panel Detail MAI 5D2792	Rev A0	2010858	1

Component Layout