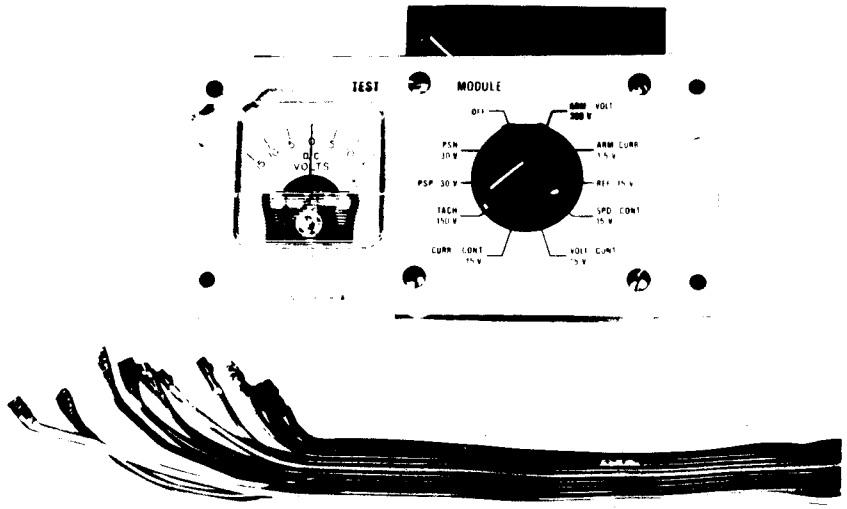
INSTALLATION INSTRUCTION FOR A TEST MODULE KIT FOR 22-1000 DRIVES



22-1000 1- PHASE TEST MODULE KIT

S#1835A56G01

The test module kit, when properly installed enables the sensing of eight test points within a 22-1000 1-phase drive. The module meter is a zero-centered meter to provide monitoring capability for both positive and negative signals. Positive signals will deflect the meter to the right of center and negative signals will deflect the meter to the left of center.

The test module faceplate identifies each of eight test positions as well as the full scale calibration of the meter. Table 1, below, is a tabulation of the selector switch position, test points, and test voltage range for the test module.

Table 1 Test Module Test Positions

Selector Switch Position	Test Points	Test Voltage Range	On Site Reading
Armature Voltage (ARM VOLT)	-V to PSC A	0 to -10 VDC	
Armature Current (ARM CURR)	-I to PSC A	0 to -1.0 VDC @ FLA	
Reference (REF)	REF to PSC	0 to 8 VDC	
Speed Controller Output (SPD CONT)	V to PSC R	-0.5 to 10 VDC	
Voltage Controller Output (VOLT CONT)	V to PSC O	1 to 10 VDC	
Current Controller Output (CURR CONT)	None	None	
Tach Feedback (TACH)	V to PSC T	0 to 150 VDC	
Power Supply Positive (PSP)	PSP to PSC	25 VDC Nominal	
Power Supply Negative (PSN)	PSN to PSC	-25 VDC Nominal	

Following the installation of the test module, it is suggested that the drive be placed in operation and the column marked "On Site Readings" of table 1 be filled in to provide a normal reference level for the eight test points for future reference. Select an operating condition that can be readily duplicated for future comparison.

Test Module Kit S#1835A56G03 Packing List

1. Test module assembly, S#1835A56G03. (1)
2. Nylon spacers, S#487B382H01. (4)
3. .164-32 x 2 in. fil. stl. mach. scr. (4)
4. Wire harness, S#493B312G01. (1)
5. Tie strap, S#472A099H01. (3)
6. Instruction Leaflet, I.L. 22-1000-24.

Check to see that all of the above listed items have been received. If a shortage exist, contact the nearest Westinghouse representative.

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INSTALLATION INSTRUCTIONS

The module is to be mounted adjacent to the Controller Board.

Nylon spacers, S#487B382H01 (4), provide insulated mounting for the module. Always use these insulated nylon spacers when mounting the test module.

1. Mounting Instructions

1.1 Insert the (4) four Nylon spacers, S#487B382H01, into the (4) square mounting holes in the panel provided for the mounting of the test module near the controller. (REFERENCE FIGURE1)

1.2 Using the (4) four, .164-32 x 2in. fil. stl. machine screws, mount the test securely to the Nylon spacers.

1.3 The module is now mechanically mounted.

2. Electrical Installation

The color coded harness has (9) leads and is designed to provide complete interwiring between the test module and the nine (9) test points on the controller board. All connections on the test module and the controller board are "push-on" type, and are connected to the identified lance type terminals.

Figures 2 and 3 show where the harness is connected to the test module and the controller board.

2.1 Connections on test module

One end of the harness has all(9) leads grouped tightly together with approximately the same lead length. This end of the harness connects to the(9) lance terminals on the top of the test module. Using the push-on connectors on the ends of all wires in the harness make the following connections at the test module.

2.1.1 Push the connector on the White lead on lance terminal marked (PSC).

2.1.2 Push the connector on the Red lead on lance terminal marked (V_T).

2.1.3 Push the connector on the Gray lead on lance terminal marked (PSN).

2.1.3 Push the connector on the Violet lead on lance terminal marked (PSP).

2.1.5 Push the connector on the Brown lead on lance terminal marked ($-V_A$).

2.1.6 Push the connector on the Green lead on lance terminal marked (REF).

2.1.7 Push the connector on the Black lead on lance terminal marked ($-I_A$).

2.1.8 Push the connector on the Orange lead on lance terminal marked(VR).

2.1.9 Push the connector on the Yellow lead on lance terminal marked(V_O).

2.2 Connections on the controller board

2.2.1 Push the connector on the Black lead on the lance terminal marked ($-I_A$).

2.2.2 Push the connector on the Brown lead on the lance terminal marked ($-V_A$).

2.2.3 Push the connector on the Red lead on the lance terminal marked (V_T).

2.2.4 Push the connector on the Orange lead on the lance terminal marked (V_R).

2.2.5 Push the connector on the Yellow lead on the lance terminal marked (V_O).

2.2.6 Push the connector on the Violet lead on the lance terminal marked (PSP).

2.2.7 Push the connector on the Green lead on the lance terminal marked (REF).

2.2.8 Push the connector on the Gray lead on the lance terminal marked (PSN).

2.2.9 Push the connector on the White lead on the lance terminal marked (PSC).

2.3 This completes the electrical installation of the test module.

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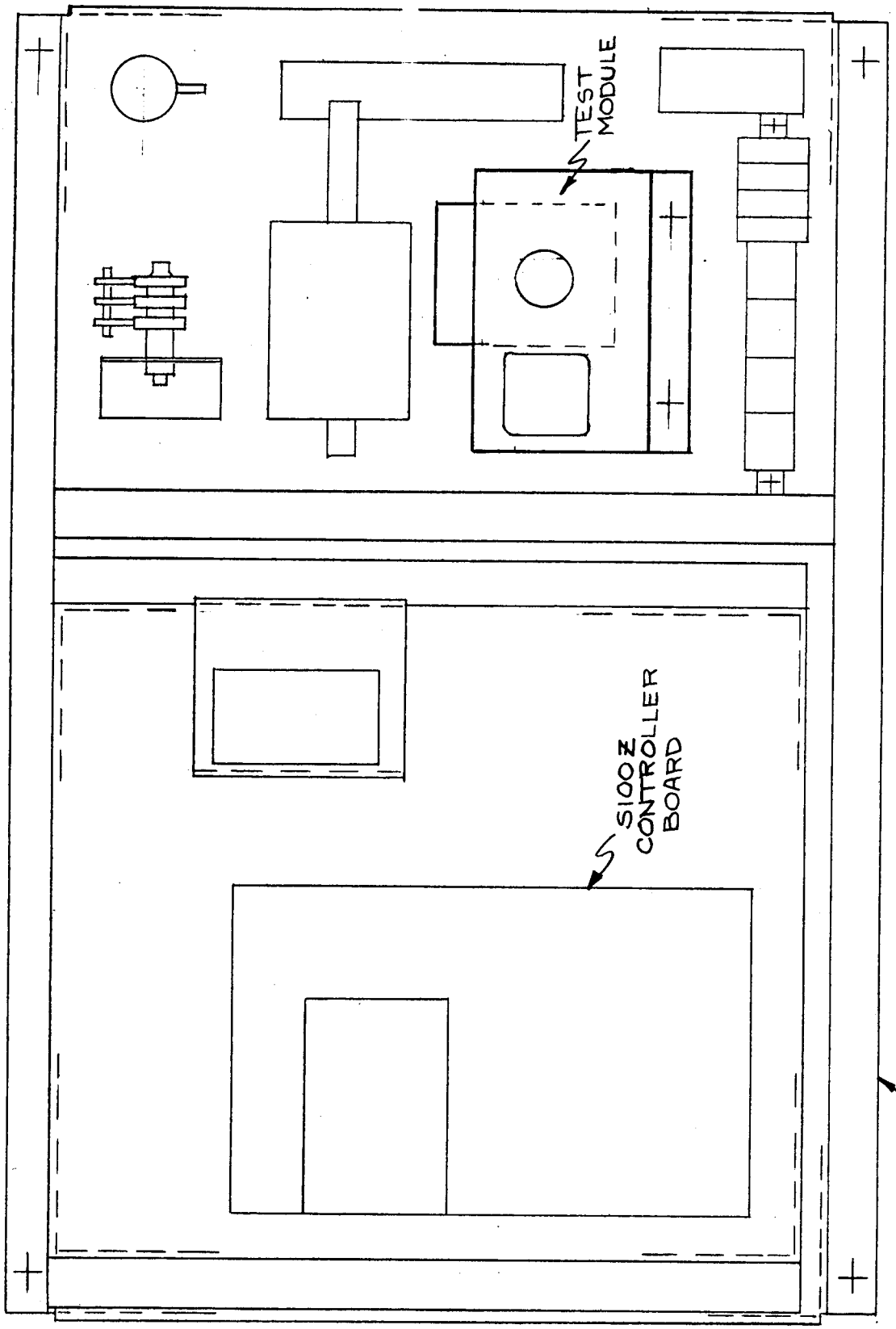

22-1000 1 PHASE TEST MODULE-KIT MOUNTING

FIGURE 1

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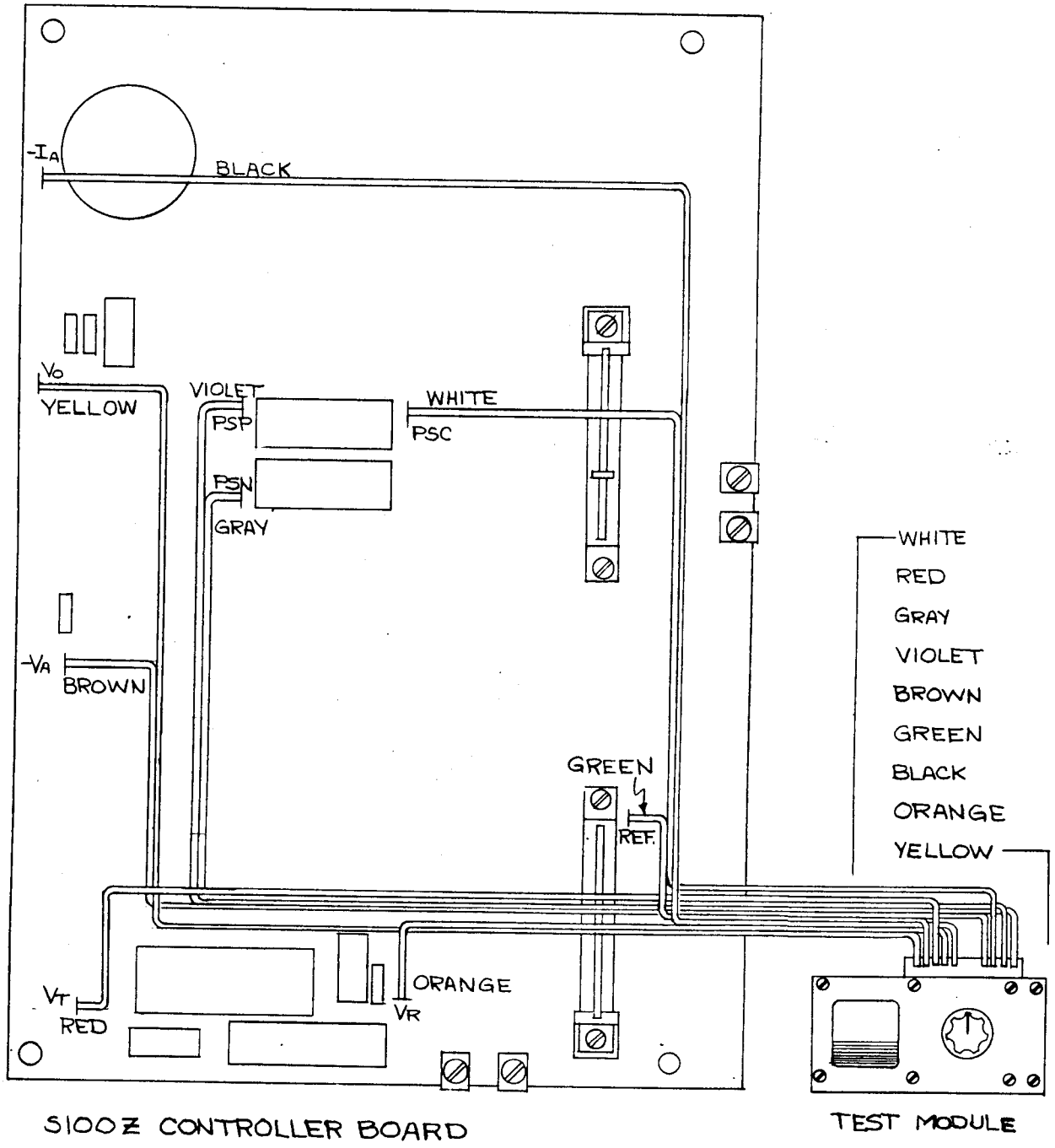
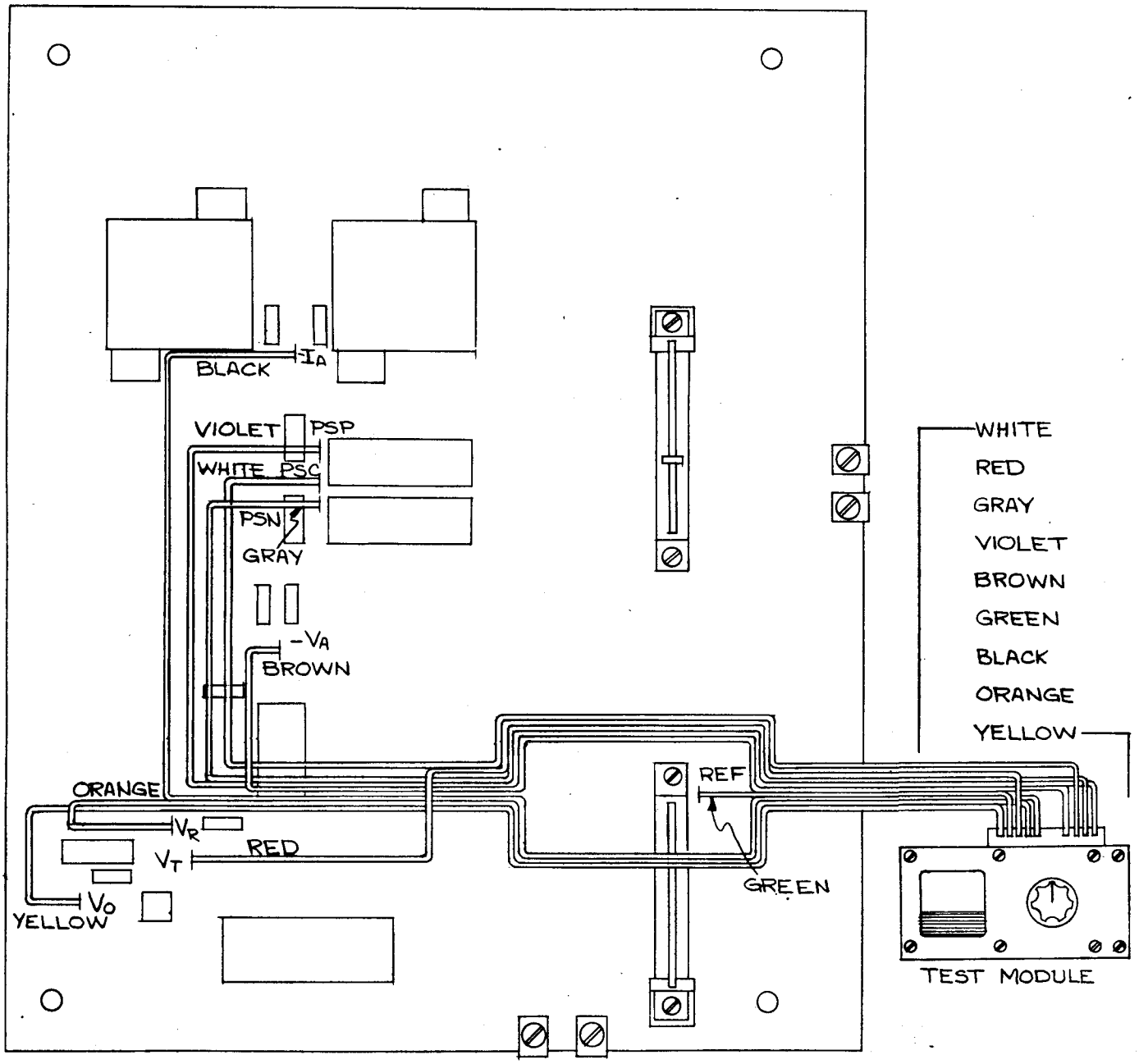


22-1000 1 PHASE TEST MODULE KIT

WIRING DIAGRAM FOR CONTROLLER

SIZE B

FIGURE 2



S100Z CONTROLLER BOARD

22-1000 1 PHASE TEST MODULE KIT

WIRING DIAGRAM FOR CONTROLLER

SIZE A

FIGURE 3

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