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INSTRUCTION MANUAL

VIBRATION MONITOR

MODEL 610B

Rev	Date	Drawing No.	Serial No.
B	5/14/87	1220	440 & UP

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DRAWING LIST

NAME: Vibration Monitor

MODEL: 610B

DESCRIPTION:	P/L#	REMARKS
Vibration Monitor, Chassis Assembly	1218G	
Vibration Monitor, Chassis Schematic	1219G	
Vibration Monitor, Instruction Manual	1220B	
Front Panel, Vibration Monitor	1279-1	
Rear Panel	1214-1	
PC Mounting Rail	1290-3	
Side Brace	1211	
Cover	1652-1	
*Side Plate-rack mount	1900-1	
*Handle, Side Panel	3671-1	
P. C. Board Assy, Vibration Monitor	1215G	
P. C. Board,Vibration Monitor	1216	
P. C. Board Schematic, Vibration Monitor	1217G	
DVM Meter Assembly	1620	**
DVM Meter Schematic	1621	
DVM Indicator & Conv. Assy	1599	
DVM Indicator & Conv. P.C. Board	1600	
DVM Indicator & Conv. Schematic	1601	Ref. 1621
DVM Accessory Assy.	1602	
DVM Accessory P.C. Board	1603	
DVM Accessory Schematic	1604	Ref. 1621

* (Use either TTI 1900-1 or TTI 3671-1 - Never Both)

** (This assembly appears in Models 500A,500B,610B,E,F,G,M.)

NOTE: N/C & A Revision documents S/N 101 to 439.
B Revision documents S/N 440 & Up.

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VIBRATION MONITOR

SYSTEM

General

The Vibration Monitor is designed for application where signals from accelerometers are to be monitored. A rear panel INPUT switch selects either (PICO-COULOMB) or (MILLIVOLT) INPUT. Through this INPUT switch, either a charge or a voltage output-type accelerometer can be accommodated. For either type accelerometer, a 1-110 pC/g or mV/g sensitivity adjust allows the pick-up to be normalized for 10 millivolts /g at the ACCEL OUTPUT jack. This acceleration signal is integrated to velocity and normalized for 10 millivolts RMS/peak in/sec and brought out at the VEL OUTPUT jack. The velocity signal is again integrated and normalized to 5 millivolts RMS/mil DA and brought out at the DISPL OUTPUT jack.

The unit has a 3 1/2 digit meter to indicate the input level of the parameter selected by the SELECTOR switch-ACCEL-g, VEL-PEAK/IN/SEC, or DISPL-P-P MILS.

System Description

Block Diagram Figure 1-1 is a simplified functional diagram showing the signal flow.

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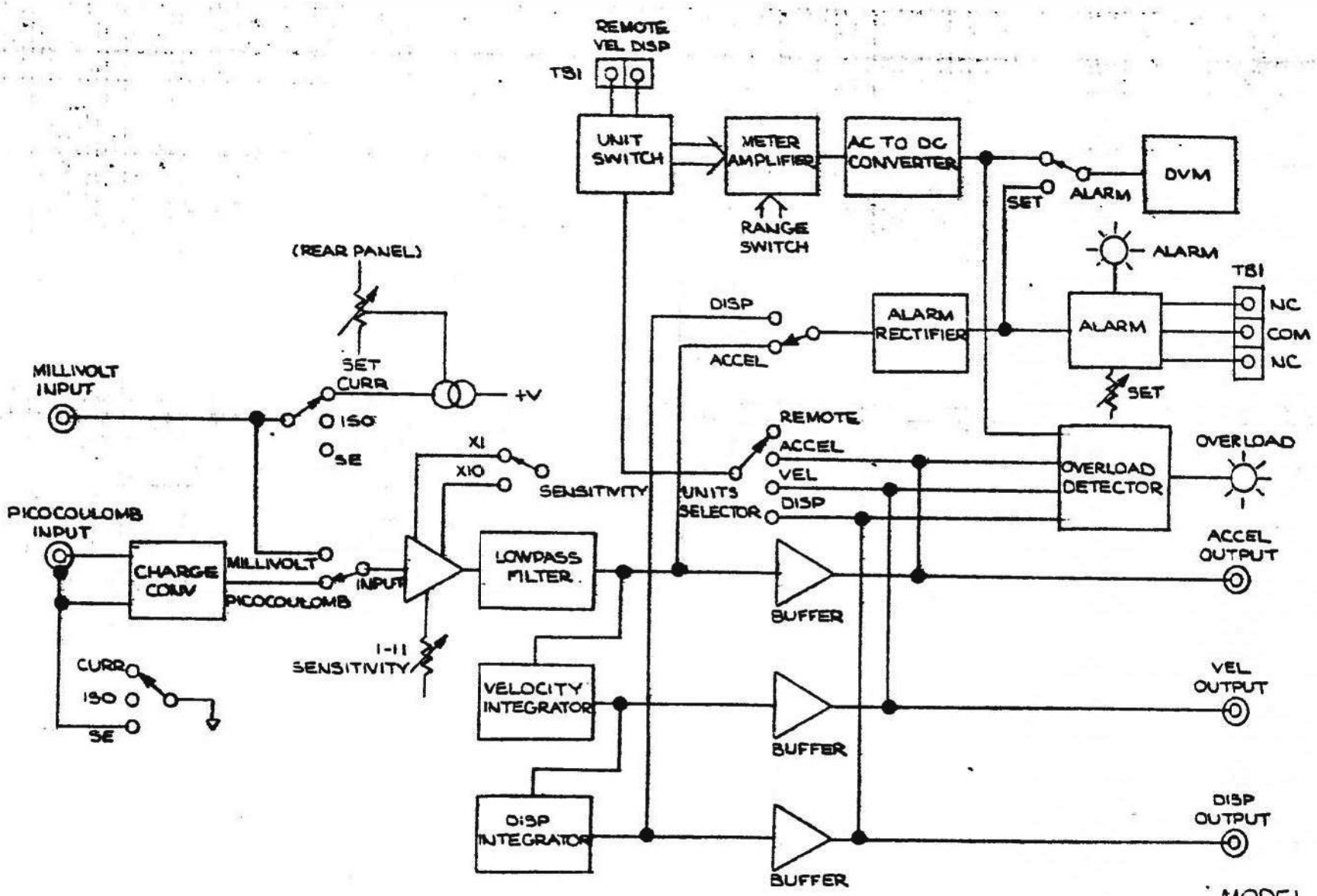
System - Vibration Monitor

The unit will accept inputs from either a charge output accelerometer at the (PICO-COULOMB) INPUT or a voltage output (built-in electronics) at the (MILLIVOLT) INPUT. When the accelerometer with built-in electronics is used, the current is supplied by the Monitor. The acceleration signal from either type pickup is normalized by the SENSITIVITY switch and control, then buffered and brought out at the ACCEL OUTPUT jack. The acceleration signal is integrated, buffered, and brought out at the VEL OUTPUT jack. This velocity signal is integrated, buffered, and brought out at the DISPL OUTPUT jack.

The ACCEL, VEL, or DISPL signals are the input to the SELECTOR switch. One is selected and fed to the Range Amplifier where the RANGE switch scales the level. The signal is then rectified and the DC voltage drives the digital voltmeter to indicate the level of the selected parameter. The levels of the three outputs and the input to the digital meter are simultaneously monitored by an Overload Detector to alert when an overload condition exists.

The alarm circuit operates either from acceleration or displacement, selected by a front panel switch, with a separate AC to DC converter. The output is on the RELAY contacts and also, illuminates the ALARM LED.

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MODEL 610
VIBRATION MONITOR
BLOCK DIAGRAM
FIGURE # 1-1

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VIBRATION MONITOR

PERFORMANCE TEST

This performance test procedure should be run to verify that the unit is performing within the manufactured specification. The unit uses integrated circuits and very stable parts and should not require calibration more often than once every six months, unless a part fails. In the event that a reading is out of tolerance, the unit may require calibration. (See Section 4 of this manual.)

Test Equipment

Equivalent test equipment can be substituted.

1.	AC-DC Voltmeter	Fluke Model 8000A
2.	Voltage to Charge Converter	Trig-Tek Model 2030
3.	Function Generator	Trig-Tek Model 345A

Procedure

Connect the line cord to AC power. Place the POWER switch to the ON position and observe that the LEVEL METER light illuminates.

1. Place the INPUT switch on the rear panel to (PICO-COULOMB) ACCEL, the SENSITIVITY switch to X10, the SE-ISO switch to SE, and the 10 mV/g-100 mV/g switch (rear panel) to 10 mV/g.

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2. Place the METER UNITS switch to ACCEL, the RANDOM-SINE switch to SINE, and the RANGE switch to 100 g's.

3. Turn the SENSITIVITY Dial on the front panel fully counterclockwise. Dial must indicate 1.0.

4. Connect the function generator to the (PICO-COULOMB) ACCEL INPUT via the voltage-to-charge converter. Set the generator for approximately 500 Hz and 707 ± 4 millivolt RMS.

5. Connect the AC voltmeter to the ACCEL OUTPUT jack.

6. Observe an indication of 707 ± 14 millivolts RMS on the AC voltmeter.

7. Place the 10 mV/g-100 mV/g switch on the rear panel to 100 mV/g.

8. Observe an indication of 7.07 ± 0.3 volts RMS on the AC Voltmeter.

9. Return the 10 mV/g-100 mV/g switch to 10 mV/g.

10. The front panel meter should indicate 100 ± 3 g's.

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11. Place the SENSITIVITY switch on the rear panel to X1. Turn the SENSITIVITY Dial to 10.0 position.

12. Observe an indication of 707 ± 14 millivolts RMS on the AC voltmeter. The front panel meter should indicate 100 ± 3 g's.

13. Hold the ALARM switch down and adjust the ALARM LEVEL control until the front panel meter indicates about 107 g's.

14. Release the ALARM switch and turn the ALARM LEVEL control counterclockwise until the ALARM light comes on.

15. Depress the ALARM switch and observe an indication of 100 ± 5 g's on the front panel.

16. Connect the DC voltmeter to DC output jack.

17. Observe an indication of 10.0 ± 0.3 volts on the DC voltmeter.

18. Set the generator frequency for 5 Hz. (Do not change the level of the generator.)

19. Observe an indication of 100 ± 3 g's on the front panel meter. The OVERLOAD light may blink because the displacement is overloaded.

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20. Set the generator frequency for 5 kHz. (Do not change the level of the generator.)

21. Observe an indication of 100 ± 3 g's on the front panel meter.

22. Set the generator frequency for 61.4 ± 0.1 Hz. (Same level as before, 707 ± 4 millivolts RMS).

23. Connect the AC voltmeter to VEL OUTPUT jack, and place the METER UNITS switch to VEL position. (The PEAK IN/SEC LED should illuminate.)

24. Observe an indication of 1000 ± 30 millivolts RMS on the AC voltmeter. The front panel meter should indicate 100 ± 3 IN/SEC.

25. Set the generator frequency for 139.9 ± 0.2 Hz. (Same level as before, 707 ± 4 millivolts RMS.)

26. Connect the AC voltmeter to DISP OUTPUT jack, and place the METER UNITS switch to DISP position. (The P-P mils LED should illuminate.)

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27. Observe an indication of 500 ± 15 millivolts RMS on the AC voltmeter. The front panel meter should indicate 100 ± 3 mills.

28. Set the generator level for 223 ± 2 millivolts RMS at about 500 Hz.

29. Place the METER UNITS switch to ACCEL position and the RANGE switch to 31.6 g range.

30. Observe an indication of 31.6 ± 0.9 on the front panel meter.

31. Place the SINE-RANDOM switch to RANDOM.

32. Observe an indication of 25.0 ± 0.8 on the front panel meter.

33. Set the generator level for 22.3 ± 0.01 millivolts RMS.

34. Place the RANGE switch to 3.16 g range.

35. Observe an indication of 2.50 ± 0.08 on the front panel.

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VIBRATION MONITOR

OPERATION

The front panel of the Vibration Monitor provides a digital indication of the amplitude of Acceleration in g's inches/second peak in Velocity, and Displacement in mils DA (double amplitude). The UNITS or REMOTE are selected by a four-position switch labeled SELECTOR; the fourth position is REMOTE. When the SELECTOR switch is placed in the desired units, a LED, found directly below the digital meter, will be illuminated indicating which unit has been selected. When the SELECTOR is in the REMOTE position, ACCEL, VEL, or DISPL units can be selected by the two REMOTE INPUTS on TB1 labeled VEL and DISPL. When both are minus five volts, ACCEL units are selected. When VEL is plus five volts, VEL units are selected, and when DISPL is plus five volts, DISPL units are selected. The REMOTE inputs are intended to be driven from the CH1, CH2 HIGH outputs from the Model 801 Compressor to automatically switch units when the Compressor changes control parameters by switching from Channel 1 to Channel 2 or vice versa.

A five-position RANGE switch selects the full-scale range of the parameter selected. Please note there are two scales, one printed in black and one printed in red. The black scale refers to the units of acceleration and velocity, and the red scale indicates units of displacement; i.e., the red scale covers the full scale

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ranges from 10 mils to 1,000 in DA, the black scale covers the ranges from 3.16 to 316 inches per second peak, or g's. Directly below the g's LED is the g's switch with two positions, SINE and RANDOM. The random position scales the DVM to indicate TRMS g's at the input.

On the far left side of the front panel is a calibrated ten-turn dial labeled SENSITIVITY 1-10 mV/g or 1-10pC/g. This dial adjusts the sensitivity of the acceleration input. The two acceleration input jacks are found on the rear of the chassis; one for direct accelerometer outputs of pico-coulombs, the other for millivolt outputs from accelerometers with built-in charge amplifiers. These two inputs on the rear of the chassis are labeled MILLIVOLT, and PICO-COULOMB. A switch labeled INPUT allows the operator to select the correct input for the type accelerometer in use. When the PICO-COULOMB position of the INPUT switch is selected, a switch with SE-ISO positions allows selecting either SE (single ended) input with the common side tied to signal ground, or ISO (isolated) where the input is floating. When the MILLIVOLT input is selected, a switch with CURR-OFF positions permits selecting the current supply to power the pickup. When the current is selected, it can be set using the CURR ADJ potentiometer next to the switch. Directly below the INPUT switch is another switch labeled SENSITIVITY with two positions, labeled X1 and X10. This sensitivity switch works in

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conjunction with the SENSITIVITY dial on the front panel. When the X1 position is selected, the dial sensitivity is 1-10 mV/g or pC/g; when the X10 position is selected, the dial sensitivity is 10-100 mV/g or pC/g.

To the left of the input jacks and switches there are two BNC connectors and a switch labeled FILTER. When the filter IN position is selected, an internal filter can be inserted in series with the acceleration signal before it is double integrated to velocity and displacement. Thus, the three parameters acceleration, velocity, and displacement are filtered when a filter is used.

In the middle of the rear panel are three AC output connectors. These are labeled ACCEL, VEL, and DISP. These outputs are always present and are normalized as follows: 10 mV/g,or 100 mV/g (rear panel switch), 10 mV rms/in/sec peak, and 5 mV rms/mil DA, respectively.

The meter is calibrated as follows:

INPUT	g's SWITCH	METER INDICATES	OUTPUT
1 g TRMS	RANDOM	1 g	10 mV TRMS
		(rear panel switch)	100 mV TRMS
1 g peak	SINE	1 g	7.07 mV rms
		(rear panel switch)	70.7 mV rms
1 in/sec/peak	SINE	1 inch/second	10 mV rms
1 mil (DA)	SINE	1 mil	5 mV rms

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In the event the meter circuit or any of the three outputs are overloaded, the front panel LED, labeled OL, will be illuminated and flash. A further explanation may be of benefit here. There are four separate cases that will cause an overload indication:

a. if the meter range is too low;

b. if the acceleration output is overloaded;

c. if the velocity output is overloaded; or,

d. if the displacement output is overloaded.

Please note that the three outputs, ACCEL, VELOCITY, and DISPLACEMENT, are always functioning, although the front panel meter is only showing the amplitude of the one that is selected by the front panel SELECTOR switch. Therefore, if the meter range is correct, but any one of the three outputs become overloaded, an overload condition will be indicated.

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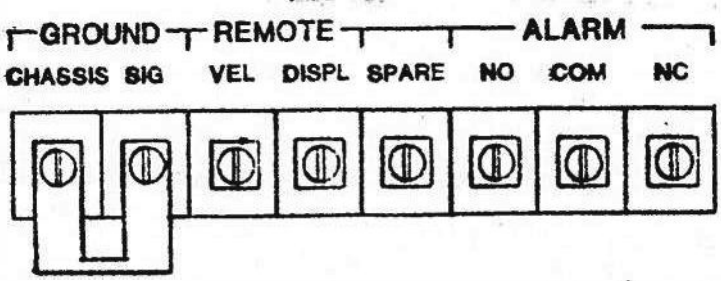
Operation - Vibration Monitor

To the far right on the front panel is a LED light, a screwdriver adjustment, and a toggle switch labeled ALARM. The alarm is designed to come on when a preset level from 0 to 100 g's is exceeded. The preset level can be set by holding the SET (momentary switch) in the SET position and setting the screwdriver adjustment for the desired level on the digital meter. When this preset level is exceeded, the LED illuminates and the ALARM contacts at the terminal strip TB1 close. To RESET, press the SET switch to the SET position.

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TERMINAL STRIP



1. The signal and chassis grounds are separate; normally, they will be strapped together. They are separated for the convenience of the operator to obtain the best grounding system.

2. Remote VEL and DISPL terminals allow remote control of the units when REMOTE is selected by the front panel UNITS switch.

	REMOTE	
UNITS	VEL	DISP
Accel	Open	Open
Vel	+5	Open
Displ	Open	+5

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3. The ALARM contacts are marked. The NO and COM will close when there is an alarm.

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VIBRATION MONITOR

CALIBRATION PROCEDURE

The Vibration Monitor adjustments are all accessible from the top when the cover is removed, and the location of the various adjustments is provided by Figure 4-1. The following procedure provides a method for setting each adjustment.

Test Equipment

Equivalent test equipment may be substituted.

1.	AC-DC Voltmeter	8000A Fluke
2.	Voltage-to-charge converter	Model 2030 Trig Tek Inc. (1000pf ± 1%)
3.	Frequency counter	1900A Fluke
4.	Function Generator	Model 701LM Sweep Oscillator Trig Tek Inc.

Test Procedure

Remove the top cover of the Vibration Monitor unit and connect the power cord to AC power. Place the POWER switch to the ON position. Set the RANGE switch to the 316/1000 in range and the METER UNITS switch to ACCEL. Place the INPUT switch on the rear panel to (PICO-COULOMB) ACCEL and the SENSITIVITY switch to X10. Place the sensitivity pot on the front panel to 1.0. Place the 10 mV/g-100mV/g switch on the rear panel to 10 mV/g.

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Calibration Procedure - Vibration Monitor

Common Mode Adjustment

1. Connect the generator output signal to the input and common of the voltage-to-charge converter. Connect the charge converter output to the (PICO-COULOMB) ACCEL INPUT jack. Set the generator for 5 V rms at approximately 100 Hz.

2. Connect the AC Voltmeter to the ACCEL OUTPUT jack.

3. Set the INPUT switch to ISO.

4. Set the CM ADJ R1 for a minimum indication on the AC voltmeter which should be less than 30 millivolts rms.

5. Return the INPUT switch to SE.

X1 Sensitivity Adjust

1. Connect the signal to the (PICO COULOMB) ACCEL INPUT via the voltage-to-charge converter. Set the generator for approximately 100 Hz and 500 $\pm$ 3 millivolts RMS indication on the AC voltmeter at the ACCEL OUTPUT jack.

2. Place the SENSITIVITY switch to the X1 position.

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3. Set the X1 ADJUST R2 for a 5.000 ± 0.025 V rms indication of the AC voltmeter.

4. Set the generator level for 1.000 ± 0.003 V rms.

5. Turn the SENSITIVITY dial on the front panel clockwise until the dial indicates 10.00 (one turn from the clockwise end of the pot).

6. Set the GAIN ADJ R4 for a 1.000 ± 0.005 V rms indication on the AC voltmeter at the ACCEL OUTPUT jack.

7. Place the SENSITIVITY switch on the back panel to X10.

8. Turn the SENSITIVITY dial fully counterclockwise. Dial must indicate 1.00.

9. Set the DIAL CAL ADJ R3 for a 1.000 ± 0.005 V rms indication on the AC voltmeter at the ACCEL OUTPUT jack.

Velocity and Displacement Adjust

1. Set the generator for 61.4 Hz ± 0.1 Hz and a .707 ± 0.004 V rms indication on the AC voltmeter at the ACCEL OUTPUT jack.

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2. Connect the AC voltmeter to the VEL OUTPUT jack. The X1-X10 switch (rear panel) is at X10 and the SENSIVITITY Dial at 1.0.

3. Set the VEL ADJ R5 for a 1.000 ± 0.005 V rms indication on the AC voltmeter.

4. Set the generator frequency for 139.9 Hz ± 0.2 Hz.

5. Connect the AC voltmeter to the DISP OUTPUT jack.

6. Set the DISPL ADJ R7 for a 500 ± 2 mV rms indication on the AC voltmeter.

Unit and Meter Full-Scale Adjust

1. Connect a DC voltmeter to the DC OUTPUT jack on the rear panel. Place the METER RANGE switch to 316 g's and remove the input signal.

2. Set the DC ZERO ADJ R16 for an 0 ± 5 mV indication on the DC voltmeter.

3. Connect the AC voltmeter to the ACCEL OUTPUT jack.

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4. Connect the generator to the input and set it for approximately 500 Hz and a 2.23 ± 0.02 V rms indication on the AC voltmeter.

5. Set the DC FS ADJ R10 for a 10.00 ± 0.01 Volt indication on the DC voltmeter at the DC OUTPUT.

6. Set the function generator for 61.44 ± 0.1 Hz. The indication on the Ac voltmeter should be 2.23 ± 0.02 Volts.

7. Connect the AC voltmeter to the VEL OUTPUT jack. It should indicate 3.16 ± 0.025 V rms. The OVERLOAD light may blink because the displacement is overloaded.

8. Place the METER UNITS switch at the VEL position.

9. Set the VEL FS ADJ R8 for 10.00 ± 0.01 Volts indication on the DC voltmeter at the DC OUTPUT.

10. Set the generator for 139.9 ± 0.1 Hz.

11. Connect the AC voltmeter to the DISP OUTPUT jack. It should indicate 1.58 Volts rms. (See Velocity and Displacement Adjust.)

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12. Set the generator frequency for a 5 ± 0.05 V indication on the AC voltmeter at the DISPL OUTPUT.

13. Place the METER UNITS switch to the DISP-MILS position and the SINE-RANDOM switch to SINE position.

14. Set the DISP FS ADJ R9 for a 10.00 ± 0.01 Volts indication on the DC voltmeter.

15. Set the meter FS ADJ R1 on the front panel DVM for a 1000 mil indication on the front panel DVM.

16. Place the METER UNITS switch to ACCEL.

17. Connect the AC voltmeter to the ACCEL OUTPUT jack and set the generator level for a 2.23 Volt indication on the AC voltmeter. The indication on the DC voltmeter should be 10.00 ± 0.05 Volts.

18. Set the X3 ADJ R2 on the front panel DVM for a 316g indication on the front panel DVM.

19. Place the SINE-RANDOM switch to RANDOM.

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20. Set the RANDOM ADJ R13 for a 250g indication on the front panel DVM.

21. Place the SINE-RANDOM switch to SINE.

Range Adjustments

1. Set the generator level for an 0.707 ± 0.004 rms indication on the AC voltmeter at the ACCEL OUTPUT jack.

2. Connect the DC voltmeter to TP14 (Pin 14 of IC6).

3. Set the ALARM ADJ R12 for a 1.00 ± .01 Volt indication on the DC voltmeter. Meter should read 100 g's.

4. Select the 100g range.

5. Set the X3 ADJ R14 for a 10.00 ± 0.01 Volts indication on the DC voltmeter at the DC OUTPUT jack and a 100 g indication on the front panel DVM.

6. Select the 31.6g range.

7. Set the generator level for an 0.223 ± 0.002 V rms indication on the AC voltmeter at the ACCEL OUTPUT jack.

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8. Set the X100 ADJ R11 for a 10.00 ± 0.01 Volt indication on the DC voltmeter at DC OUTPUT jack and 31.6g on the front panel DVM.

9. Set the generator level for a 22.3 ± 0.01 millivolts indication on the AC voltmeter at the ACCEL OUTPUT jack.

10. Place the RANGE switch to a 3.16g.

11. Set the X10 ADJ R15 for a 10.00 ± 0.01 indication on the DC voltmeter and 3.16g on the front panel DVM.

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