

INSTRUCTIONS

MODEL AVX-D-PS PULSE GENERATOR

S.N.:

WARRANTY

Avtech Electrosystems Ltd. warrants products of its manufacture to be free from defects in material and workmanship under conditions of normal use. If, within one year after delivery to the original owner, and after prepaid return by the original owner, this Avtech product is found to be defective, Avtech shall at its option repair or replace said defective item. This warranty does not apply to units which have been disassembled, modified or subjected to conditions exceeding the applicable specifications or ratings. This warranty is the extent of the obligation assumed by Avtech with respect to this product and no other warranty or guarantee is either expressed or implied.

TECHNICAL SUPPORT

Phone: 613-226-5772 or 1-800-265-6681

Fax: 613-226-2802 or 1-800-561-1970

E-mail: info@avtechpulse.com

World Wide Web: <http://www.avtechpulse.com>

TABLE OF CONTENTS

WARRANTY.....	2
TABLE OF CONTENTS.....	4
AVX-D SERIES DATA SHEET.....	5
FIG. 1: FRONT PANEL CONTROLS.....	6
FRONT PANEL CONTROLS.....	7
FIG. 2: BACK PANEL CONTROLS.....	8
BACK PANEL CONTROLS.....	9
SYSTEM BLOCK DIAGRAM AND REPAIR PROCEDURE.....	10
SYSTEM DESCRIPTION AND REPAIR PROCEDURE.....	11
PERFORMANCE CHECK SHEET.....	12

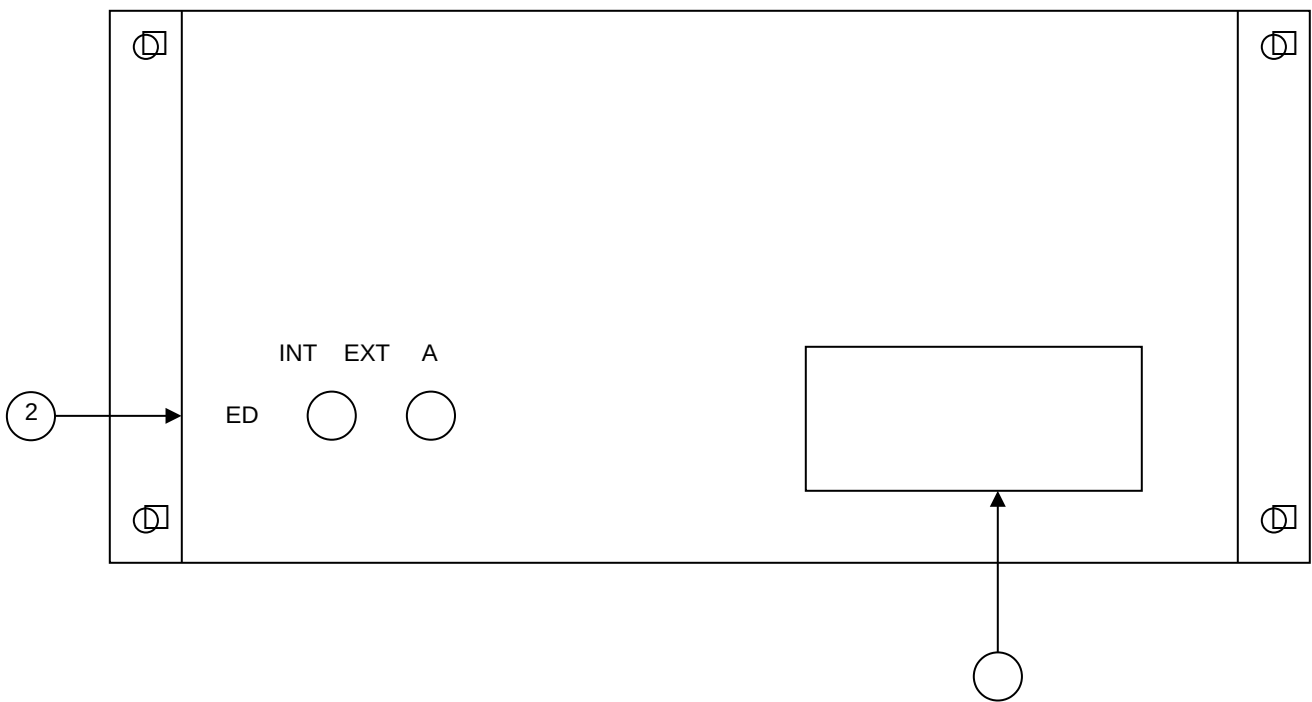
AVX-D SERIES DATA SHEET

FIG. 1: FRONT PANEL CONTROLS

FRONT PANEL CONTROLS

- (1) ON-OFF Switch. Applies basic prime power to all stages.
- (2) DELAY Control. Controls the relative delay between the output pulse provided at OUT (5) and IN (3). This delay is variable over the range of 30 to about 150 ns.
- (3) IN. Apply TTL input at this terminal (PW > 50 ns).
- (4) TRIG. Replica of IN pulse delayed by 30 ns appears here. Will drive 50 Ohms.
- (5) OUT. +5 Volt output to 50 Ohms. This output is delayed 30 to 150 ns with respect to the IN pulse.

FIG. 2: BACK PANEL CONTROLS



BACK PANEL CONTROLS

- (1) FUSED CONNECTOR, VOLTAGE SELECTOR. The detachable power cord is connected at this point. In addition, the removable cord is adjusted to select the desired input operating voltage. The unit also contains the main power fuse (0.25 A SB).
- (2) To voltage control the delay, set the switch in the EXT position and apply 0 to +10V to the "A" BNC connector ($R_{IN} \geq 10K$). (option).

SYSTEM BLOCK DIAGRAM AND REPAIR PROCEDURE

SYSTEM DESCRIPTION AND REPAIR PROCEDURE

The AVX-D-PS consists of a delay generator module (AVX-D-PG) and a power supply board which supplies +15 Volts (600 mA max) to the delay generator module. In the event that the AVX-D unit malfunctions, remove the instrument cover by removing the four Phillips screws on the back panel. The top cover may then be slid off. Measure the voltage at the +15V pin of the PG module. If this voltage is substantially less than +15 Volts, unsolder the line connecting the power supply and PG modules and connect 50 Ohm 10 W load to the PS output. The voltage across this load should be about +15V DC. If this voltage is substantially less than 15 Volts the PS module is defective and should be repaired or replaced. If the voltage across the resistor is near 15 Volts, then the PG module should be replaced or repaired. The sealed PG module must be returned to Avtech for repair (or replacement).

PERFORMANCE CHECK SHEET