

DATE 2-25-65

SHEET _____ OF _____

TMC SPECIFICATION NO. S

911

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[Signature]
COMPILED

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TITLE:

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APPROVED

[Signature]

AUTOMATIC SWITCH OVER FROM 1. OMC
EXTERNAL STD. TO 1.OMC INTERNAL STD.

DATE 2-25-65
SHEET 1 OF 2

TMC SPECIFICATION NO. S 911



[Signature]
COMPILED

CHECKED

TITLE: AUTOMATIC SWITCH OVER FROM 1.0MC EXTERNAL STD.

[Signature]

APPROVED

TO 1.0MC INTERNAL STD.

PRODUCTION TEST OF AX-546 USED IN KIT-215-216

TEST EQUIPMENT REQUIRED:

STANDARD SIGNAL GENERATOR	TYPT 1001-A	GENERATOR
HEWLETT PACKARD	MODEL 410-BR	VTVM
CON-AVIONICS	MODEL W-32-5	O.V. TO + 50-V. PWR SUPPLY
SIMPSON	MODEL 260	VOM

A. PRELIMINARY CHECK

- (1) Inspect unit for mechanical imperfection, correct placement of parts and obvious wiring defects.
- (2) Check resistance between 24 V. terminal and GND-LUG; with positive probe connective to the GND lug and the negative probe to the 24 V. terminal the value should be--9.0K/OHMS.
- (3) Reverse the positions of the probes in Step #2. The reading should now be 20. K/OHMS.

B. SETTING UP FOR TEST

- (1) On Power Supply Model W-32-5 Set output control full counter clockwise, power switch in off position.
- (2) Connect Positive output of power supply to 24 V. Terminal on AX-546 and negative of power supply to GND Terminal located above 24 V. Terminal.
- (3) Connect output of signal generator to J-1 of AX-546.
- (4) Turn on Model W-32-5 Power supply and adjust the output control clockwise to give 24 V. output.
- (5) With RF Probe of VTVM across the output of the Signal Generator; Feed 1.0 M.C. into the external 1-MC input Jack of AX-546, at RMS Voltage show in the following chart.

DATE 2-25-65
 SHEET 2 OF 2

TMC SPECIFICATION NO. S



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OS
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TO 1. OMC INTERNAL STD.

CONTINUED

RMS VOLTS 1. OMC-INPUT	Q-1 (2N-1308)				Relay
	E_B	I_B	E_C	I_C	
.5	+0.14V	20/MA	+3.1-V	4.9-MA	PULLS IN
.12	+0.1V		+17.V	1.2-MA	DROPS OUT
1.0	+0.16V	40/MA	+0.1V	4.5-MA	IN

C. ALARM CHECK

- (1) Using the Simpson Model 260 set range to RX1 scale and Zero.
- (2) Connect test probes between Terminals 9 and 10 of TB1. Reading should be INFINITY.
- (3) Use the table in section B-5.
 - (a) Reading will be Zero when the relay pulls in.
- (4) Connect test probes between Terminals 8 and 9 of TB-1. Reading should be Zero.
- (5) Reading will be infinity when the relay pulls in.

D. TROUBLE SHOOTING

- (1) Use chart in 'B-5' with CK-913 for servicing.

THE TECHNICAL MATERIEL CORPORATION
MAMARONECK, N.Y.

AUTOMATIC SWITCHOVER FROM 1.0MHz
EXTERNAL STD. TO 1.0MHz INTERNAL STD.

EXT. STD. IN

RELAY ENERGIZED

CONTINUITY TERMINALS 9 & 10 of TB-1

EXT. STANDARD REMOVED

RELAY DE-ENERGIZED

CONTINUITY TERMINALS 8 & 9 of TB-1

DATE: _____

S.O.# _____

TESTER: _____

