

RESTRICTED

BR 333(1)
Original

DATA RETRANSMISSION OUTFIT TRE

TRE

SUMMARY OF DATA

PURPOSE

To receive coarse (360°SV) magslip inputs from an aerial and to retransmit coarse (360°SV) magslip signals.

BRIEF DESCRIPTION

The Data Bearing Retransmitter is a servo operated unit which accepts a single coarse transmission of bearing data and provides two retransmission outputs, coarse (360° SV) at 1100 Hz and coarse (360° SV) at 400 Hz from two control transmitters. For testing purposes, signal inputs can be accepted from the dummy director or magslip alignment test set, and internal circuitry can provide a signal to drive the servo system to the zero lined up position.

MAJOR UNITS

Cabinet Electrical Equipment Gear Assembly comprising:-
NSN 6110-99-972-1270 Servo Mechanism Control
23CX4b Control Transmitter (2 in number)

PHYSICAL DATA

	Height	Width	Depth	Weight
Retransmission Unit	33.0 cm (13 in)	36.8 cm (14.5 in)	39 cm (15.5 in)	29 kg (64 lb)

POWER REQUIREMENTS

115 V 400 Hz for Amplifying System and one control transmitter
20 V 1100 Hz for one control transmitter
115 V 60 Hz for heating and cooling.

HANDBOOK

BR 2367(3)

ESTABLISHMENT LIST

E1355

INSTALLATION SPECIFICATION

B1123

DATA RETRANSMISSION OUTFIT TRF

TRF

SUMMARY OF DATA

PURPOSE

To receive coarse (360° SV) and fine (40° SV) synchro analogue and velocity feed forward signals from an aerial, and to retransmit this information as coarse (360° SV) synchro signals and a digital form output.

BRIEF DESCRIPTION

The Data Retransmitter is a servo operated unit which accepts coarse and fine synchro and velocity feed forward signals, and provides (360° SV) synchro outputs for retransmission from two control transmitters, and digital outputs from a digital coder for data handling equipments. For testing purposes, external signals can be accepted from the dummy director or radar recorder. Internal circuitry can provide signals for a constant velocity drive, a zero lined up position, a change digit function to check the coder, and a check on coder lamps.

MAJOR UNITS

5990-99-520-4785	Retransmitter Data Digital Outfit Cabinet Electrical Equipment
6110-99-521-5461	Amplifier Electronic Control
6110-99-521-5462	Power Supply Unit
5990-99-521-5463	Gear Assembly

PHYSICAL DATA

Retransmission Unit	Height	Width	Depth	Weight
	34.3 cm	60 cm	35.6 cm	38.5 kg
	(13.5 in.)	(23.5 in.)	(14 in.)	(85 lb)

POWER REQUIREMENTS

- 115 V 400 Hz single phase at 1 amp
- 115 V 60 Hz single phase at 300 mA
- 115 V 60 Hz 3-phase at 400 mA

HANDBOOK

BR 2367(3)

ESTABLISHMENT LIST

S1544

INSTALLATION SPECIFICATION

B1124