

SECTION 2

INSTALLATION

2.1 CABINET/RACK INSTALLATION

ITT Mackay Marine Type 3020 Radio Receiver mounts in a standard 19" rack, occupying 5-1/4" of panel height and 19" of depth. *Pem* nuts are provided in side panels for installation of slides.

NOTE: *If slides are not used, do not attempt to support the receiver drawer only by the front panel. Provide braces in the cabinet or rack to support the rear of the drawer.*

To permit adequate ventilation for proper heat dissipation, the 3020 should have a minimum 2" clearance on all sides.

2.2 POWER CONNECTIONS

The input ac power to the 3020 Receiver is 115/230 Volts, $\pm 15\%$, 50/60 Hz, single phase. A grounded Standard US plug is provided.

CAUTION

Verify that the power transformer is strapped for the correct ac input voltage.

For 115 Volt operation, transformer primary windings must be connected in parallel (terminals 1 and 3 must be connected together and terminals 2 and 4 must be connected together). 115 Volts is applied to terminals 1 and 4.

For 230 Volt operation, transformer primary windings must be connected in series (only terminals 2 and 3 must be connected together). 230 Volts is applied to terminals 1 and 4.

Transformer strapping is located on the underside of the receiver chassis and access is gained by removal of the underside rear cover plate.

2.3 REAR PANEL CONNECTIONS

A terminal block (TB1) is provided on the receiver rear panel for connections as indicated in Table 2.1.

The 600 ohm audio output terminals (terminals 5 and 6) and the 3 ohm speaker output terminals are provided on terminal block TB1, on the rear panel.

For connection to the 3 ohm speaker terminal, disconnect the jumper on the terminal block and connect the external 3 ohm speaker between terminal 3 and ground (terminal 2). For muting operation, connect terminals 1 and 2 to transmitter key.

NOTE: *Removing the jumper disconnects the front panel speaker.*

TABLE 2.1

TERMINAL BLOCK PIN NO.	AVAILABLE CONNECTION
1	Muting
2	Chassis ground
3*	3 ohm external speaker
4*	3 ohm line to front panel speaker
5	600 ohm Balanced
6	600 ohm Balanced

*Terminals 3 and 4 are normally jumpered.

2.4 FUSES

Three fuses (F1, F2, and F3) are used in the 3020 Receiver. F2 and F3 are located on the rear panel. F1 is located on the Regulator PC Board attached to the inside of the rear panel. Table 2.2 describes the fuses.

TABLE 2.2

DESIGNATION	RATING (AMPS)	FUNCTION
F1	1.5	Fuse following the rectifier bridge and filter for the +28 Volt dc and +24 Volt dc circuitry.

DESIGNATION	RATING (AMPS)	FUNCTION
F2	1/10*	Short circuit protection for the +28 Volt dc and +24 Volt dc circuitry.
F3	**	Primary ac fuse.

*Slo-Blo

**2 amp fuse for 115 Volt ac operation; 1 amp fuse for 230 Volt ac operation.