

2 Unit Configurations

2.1 General Information

The S-Band scanner unit and transceiver form only part of a complete BridgeMaster E Series radar, and cannot be operated in isolation. For details of complete system installations refer to the BridgeMaster E, Ship's Manual 65800010B.

S-Band top units are supplied with either, an integral transceiver unit (which is mounted as part of the turning unit), or with a separate transceiver which is suitable for bulkhead mounting.

The motor in the Turnig Unit is fed with its own supply via a Scanner Control Unit. This supply may differ from the Transceiver power supply.

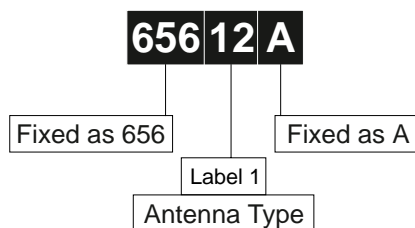
2.2 Unit Type Numbers

BridgeMaster E, S-Band top units are configured from the following unit types:

- Antenna Unit
- Turning Unit (with or without Integral Transceiver)
- Bulkhead Transceiver Unit

2.2.1 Antenna Unit

The Antenna Unit type number consists of a five figure number followed by a single letter suffix. The first three digits and the suffix are fixed (656xxA), and digits four and five identify antenna type as follows:

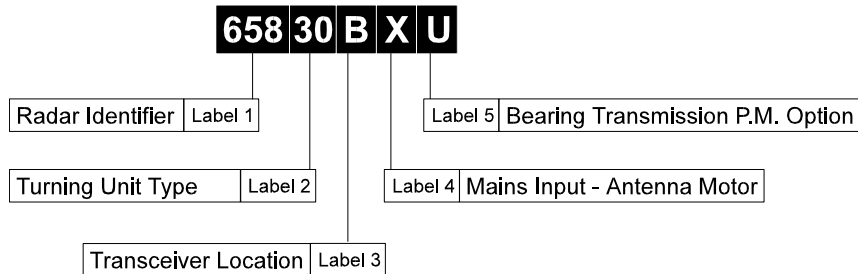


Label 1 **Antenna Type**

Label	Antenna Type
09	9 FT (S-Band)
12	12 FT (S-Band)

2.2.2 Turning Unit

The Turning Unit type numbers are as follows:



Label 1 **BridgeMaster E Identifier** (fixed as **658**)

Label 2 **Turning Unit Type** (fixed as **30** for S-Band 30 kW Transceiver) S-Band Turning Units are correctly set for their turning speed.

Label 3 **Transceiver Location**

Label	Transceiver Mounting
B	Bulkhead
M	Masthead
C	Bulkhead with additional facilities
N	Masthead with additional facilities

Label 4 **Mains Input - Antenna Motor**

Label	Phases	Voltages	Frequency	Speed	Band*
E	1	110 - 120	50/60	S	S
F	1	220 - 240	50/60	S	S
G	3	110 - 120	50/60	S	S
H	3	220 - 240/380 - 440	50/60	S	S
J	1	110 - 120	50	H	S
K	1	220 - 240	50	H	S
L	3	110 - 120	50	H	S
M	3	220 - 240/380 - 440	50	H	S
P	1	110 - 120	60	H	S
Q	1	220 - 240	60	H	S
R	3	110 - 120	60	H	S
S	3	220 - 240/380 - 440	60	H	S

*For **S-Band** Turning Units the motor is fed from its own supply via a Scanner Control Unit and can differ from the Transceiver/Processor Electronics Unit supply.

Chapter 1

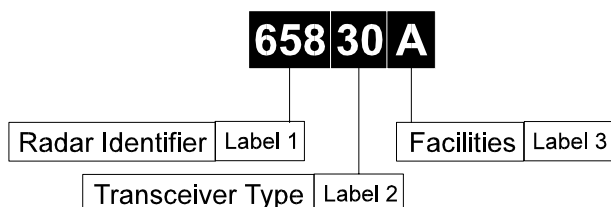
S-Band Scanner Units and Transceivers

Label 5 **Bearing Transmission P.M. Options**

Label	Performance Monitor	Synchro
P	No	No
R	Yes	No
S	No	Yes
T	Yes	Yes

2.2.3 Bulkhead Transceiver Unit

The Bulkhead Transceiver Unit type numbers are as follows:



Label 1 **BridgeMaster E Identifier** (fixed as **658**)

Label 2 **Transceiver Type**

Label	Transceiver Type
30	30 kW S-Band

Label 3 **Facilities**

Label	Facilities
A	Standard
B	With additional facilities