

## RECEIVER AERIAL SYSTEM FOR I.C.S.

## SUMMARY OF DATA

## PURPOSE

The Receiver Aerial System provides from a minimum of aerials, a selection of aerial facilities to all LF-MF-HF receivers. The system is for use in frigates and above with ICS.

## BRIEF DESCRIPTION

The ICS Receiver Aerial System includes a Receiver Aerial Exchange Outfit EZ(1), (2) or (3) and in some instances a Common Aerial Outfit EA0(1), (2) or (3). Outfit EZ(1), (2) or (3) provides eight Aerial Lines (Nos. 1 to 8) each having two aerial input connections, a primary output line to receivers and a return input of that line for termination or through connection as a secondary line to receivers. Provision is made in the exchange for a total of 18 plug-in, tunable, Band Suppression Filters, a set number of which may be inserted into each of Aerial Lines 1 to 5 and relay controlled by the keying of a pre-selected transmitter(s). The transmitted signal is rejected by the tuned Band Suppression Filters, to prevent overloading, by the local transmitter, of the input to any receivers connected to the Aerial Line. Facilities are provided for tuning the Band Suppression Filters and for individual monitoring of audio outputs of up to 30 operational receivers. The inclusion of an aerial selector switch at HF receivers enables each receiver to be connected to any one of up to four (normally only three connected) Aerial Lines. Any aerial may be connected to any aerial input on the Exchange; where only a small number of aerials can be accommodated, additional aerial inputs may be provided by the fitting of cross-over filters between the aerials and the Exchange.

Two lines are normally connected from the EZ(1) Exchange to the EA0(1) or (2) Outfit to provide aerial facilities to Receiver Outfits CAY, CAZ and MF-DF Outfit FM12.

## MAJOR UNITS

NSN or other Reference No.	Description	Quantity			Dimensions			
					Height	Width	Depth	Weight
	<u>Aerial Exchanges</u> <u>Outfit EZ(1) or (2) or (3)</u>	(1)	(2)	(3)				
5895-AP 164607	Aerial Exchange Receiver	1	1	1	4 ft 5 in	1 ft 5 in	2 ft 4 in	230 lb
5915-99-580-6578	Filter Band Suppression Tunable 2-5 MHz	5	5	5	6 in	6 in	1 ft 2½ in	6 lb
5915-99-580-6579	Filter Band Suppression Tunable 5-10 MHz	8	8	8	6 in	6 in	1 ft 2½ in	6 lb
5915-99-580-6580	Filter Band Suppression Tunable 10-16.5 MHz	5	5	5	6 in	6 in	1 ft 2½ in	6 lb
-	4-Switch Unit	3	3	3	2½ in	11½ in	2 in	5 lb
-	3-Switch Unit	2	2	2	2½ in	11½ in	2 in	5 lb
-	Filter Tuning Unit	1	1	1	5½ in	7 in	11½ in	7 lb
AP 164531/817	Power Supply	1	1	1	6 in	6 in	6 in	9 lb
5915-99-920-1188	Filter, Low Pass	1	-	1	5½ in	7 in	1 ft 4 in	9½ lb
5915-99-920-1189	Filter, Cross-Over	1	1	-	5½ in	7 in	1 ft 4 in	9½ lb
5915-99-920-1192	Filter, Low Pass	1	-	-	2½ in	2½ in	1 ft 2 in	8 lb
5915-99-519-8188	Filter, Low Pass	-	1	1	1½ in	2½ in	6¼ in	
5895-99-519-9351	Switch Unit, Transmission Line	-	1	-				
5895-99-519-9352	Switch Unit, Transmission Line	-	4	4				
	<u>Common Aerial Outfits</u> <u>Outfit EA0(1) or (2) or (3)</u>	(1)	(2)	(3)				
AP 62124	Connector, Flexible	4	2	15				
AP 62126	Switch Unit Des. 75	4	3	3				
AP 62127	Filter, Cross-Over	2	1	1				
AP 62128	Box Junction	7	6	18				
AP 62129	Resistor Unit Terminating	8	6	6				
	<u>Aerial Switch</u>							
5820-99-916-4657	Switch, Aerial Selector	As required						
	<u>Aerial Outfits</u>							
	Whip and wire Outfits	As required						