

## 7.7. TYPE 631 (C42)

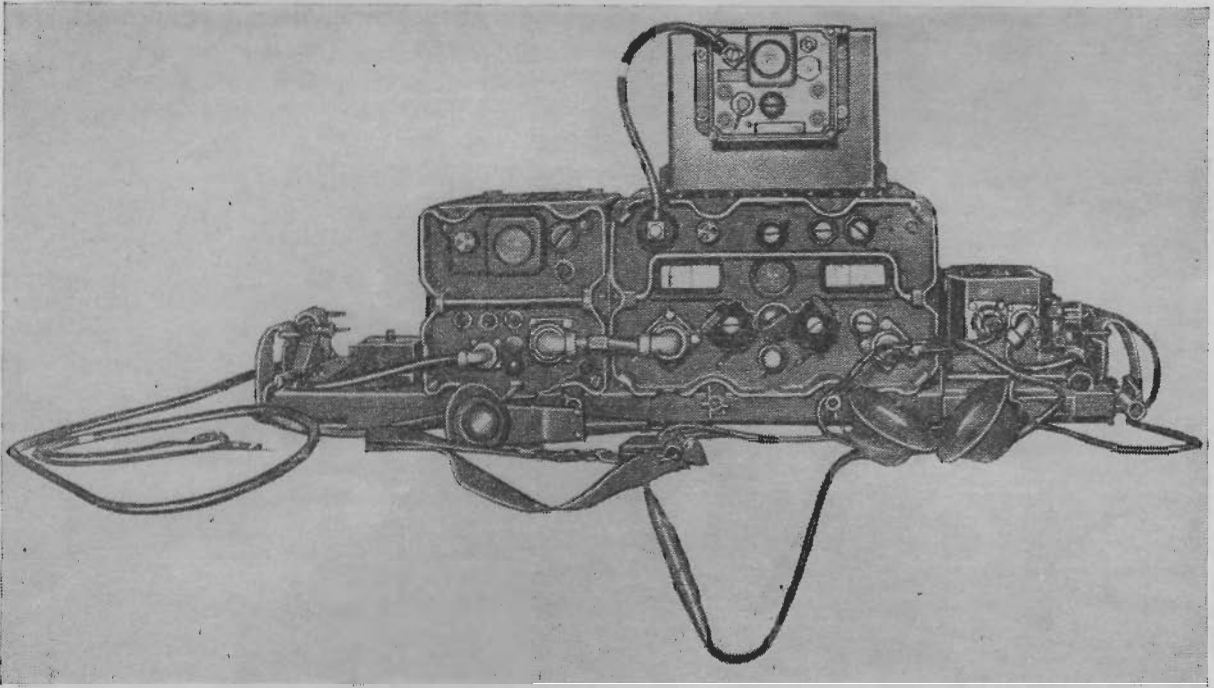


FIG. 1

**FREQUENCY.** 36–60 Mc/s

**RANGE.** 10 miles

**WEIGHT.** 90 lb

**MODULATION.** FM Voice

**POWER SUPPLY.** 12 V or 24 V Battery

**POWER OUTPUT.** 15 W

**HANDBOOK.** (Not yet available)

**ESTABLISHMENT LIST.** (Not yet available)

### **DESCRIPTION**

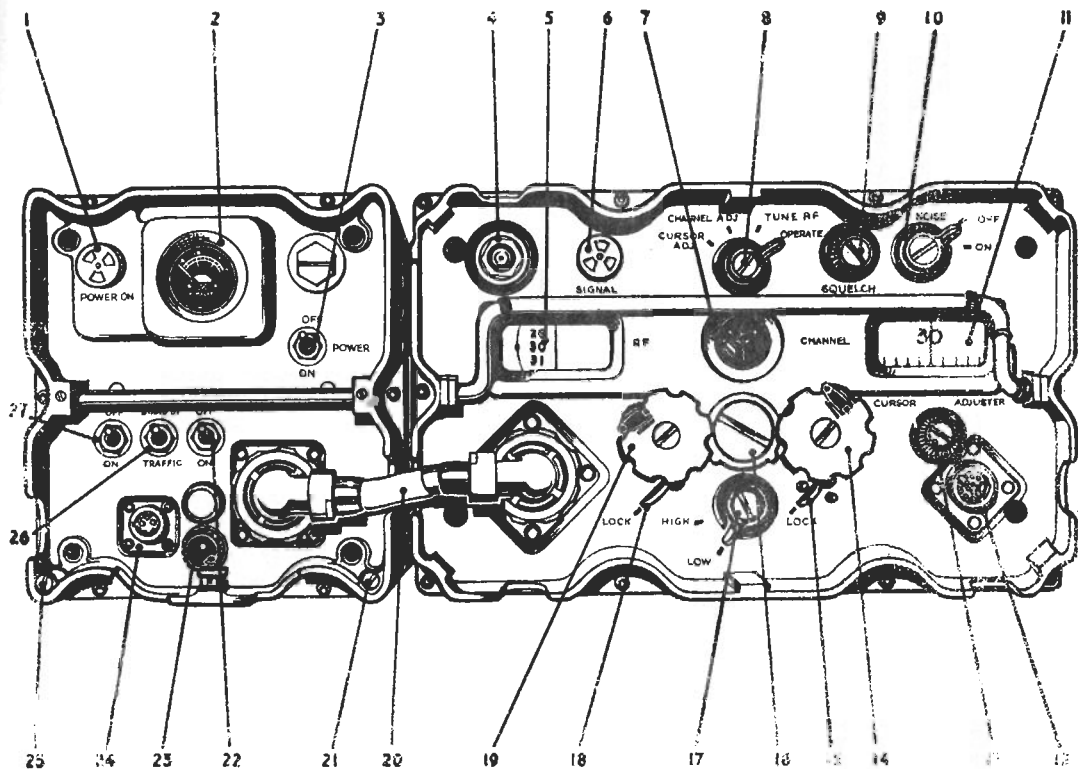
The Army Type C42 Transceiver, fitted in ships to provide communication with forces ashore using Types 620 and 615.

Not fitted into KH series.

241 separate channels, at 100 kc/s separation, are available.

Tuning is by VFO, thus each channel must be tuned separately.

The transmitter works into a whip aerial through a remote controlled aerial tuning unit fitted near the base of the whip.



### KEY

- |                              |                                   |
|------------------------------|-----------------------------------|
| 1. POWER ON LAMP             | 14. CHANNEL TUNING                |
| 2. BATTERY VOLTMETER         | 15. LOCKING LEVER                 |
| 3. POWER ON-OFF              | 16. DIAL LAMP (UNSCREW TO CHANGE) |
| 4. A.T.U. CONNECTOR PLUG     | 17. HIGH/LOW POWER SWITCH         |
| 5. R.F. SCALE                | 18. LOCKING LEVER                 |
| 6. SIGNAL LAMP               | 19. R.F. TUNING                   |
| 7. CENTRE ZERO METER         | 20. CONNECTOR                     |
| 8. CALIBRATOR SWITCH         | 21. SPARE FUSE                    |
| 9. SQUELCH CONTROL           | 22. 1/C ON-OFF                    |
| 10. NOISE ON-OFF SWITCH      | 23. FUSE IN SUPPLY LINE           |
| 11. CHANNEL SCALE            | 24. POWER SUPPLY CONNECTOR        |
| 12. HARNESS CONNECTOR SOCKET | 25. SPARE FUSE                    |
| 13. CURSOR ADJUSTER          | 26. STAND BY TRAFFIC              |
|                              | 27. WIRELESS SET ON-OFF           |

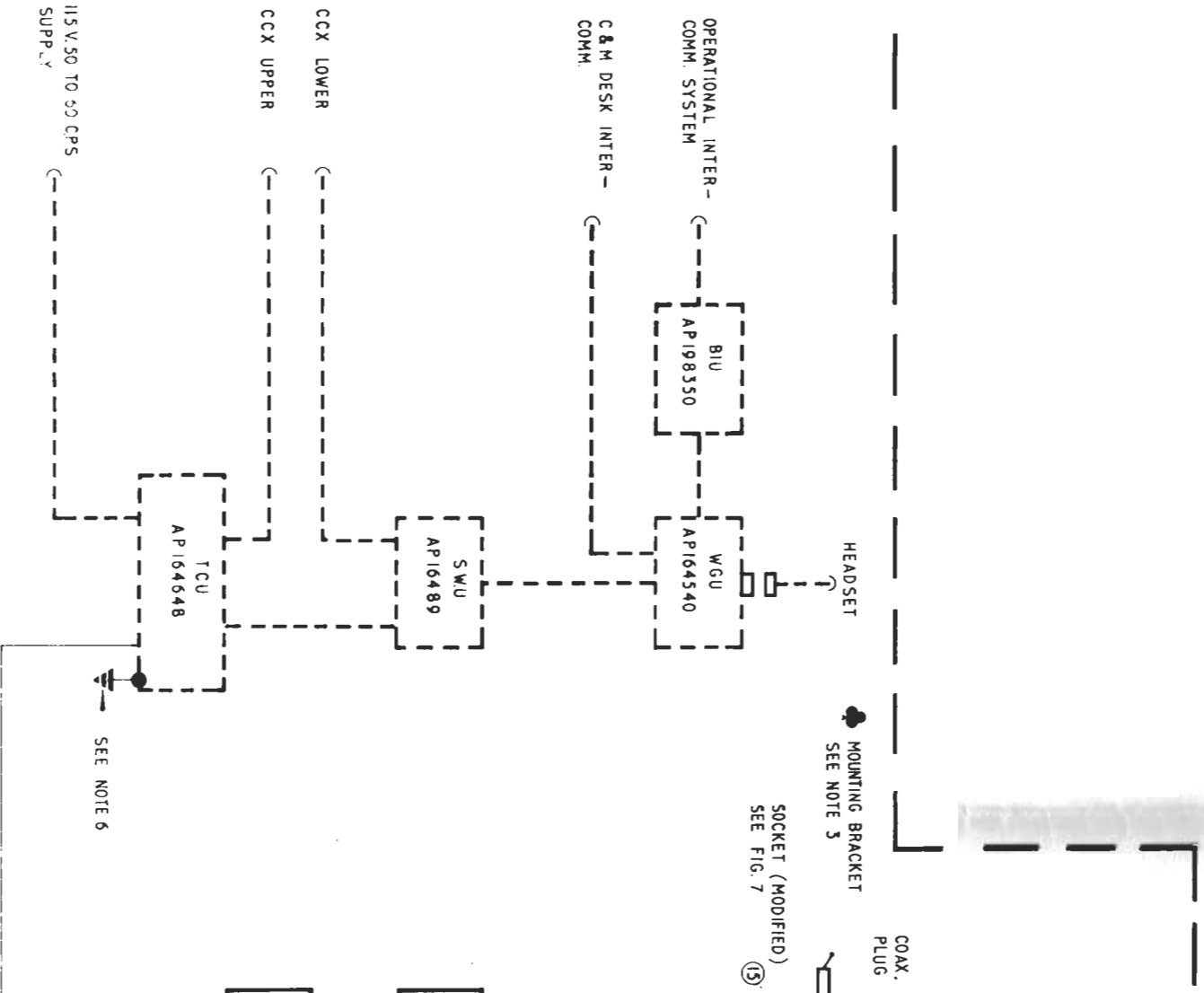
TYPE 631 or TYPE 636  
with  
POWER SUPPLY UNIT

## TYPES 631 AND 636

**Type 631 [Army Type C42] and Type 636 [Army Type C45] were fitted into Naval vessels for use with COVERED VOICE [encrypted circuits] using VHF frequencies in lieu of UHF frequencies when the 692/CUJ was used.**

**The only difference between a 631 and a 636 is the frequency range, otherwise they are identical. The 631 covers 36-60MHz and the 636 22-38MHz. Both are FM transceivers, and when fitted into HM ships they are wired into KMP/KMM and used the facilities provided by KKA/KKB [plug and socket interfaces for adding either the BID150 or the KY8 {U.S. On line voice system} in-line].**

- NOTES:-
1. ALL ITEMS WILL BE ADMIRALTY SUPPLY, UNLESS OTHERWISE STATED, AND ARE TO BE FITTED BY THE DOCKYARD OR SHIPBUILDER
  2. ITEMS MARKED THUS ARE TO BE SUPPLIED AND FITTED BY THE DOCKYARD OR SHIPBUILDER.
  3. THE MOUNTING BRACKET IS TO BE SITED ADJACENT TO THE TRANSCIEVER AND REJECTION UNIT.
  4. UNITS SHOWN DOTTED ARE PART OF OUTFIT KMM OR KMP.
  5. EARTHING IS TO BE DONE BY THE MEANS OF A COPPER STRIP
  6. THE TRANSCIEVER AND TCU MUST BE TAKEN TO A COMMON EARTH POINT.
  7. TSI IN THE TCU IS TO HAVE A LINK FITTED FROM PIN 7 TO PIN 17.



SOCKET (MODIFIED)  
SEE FIG. 7 (15)

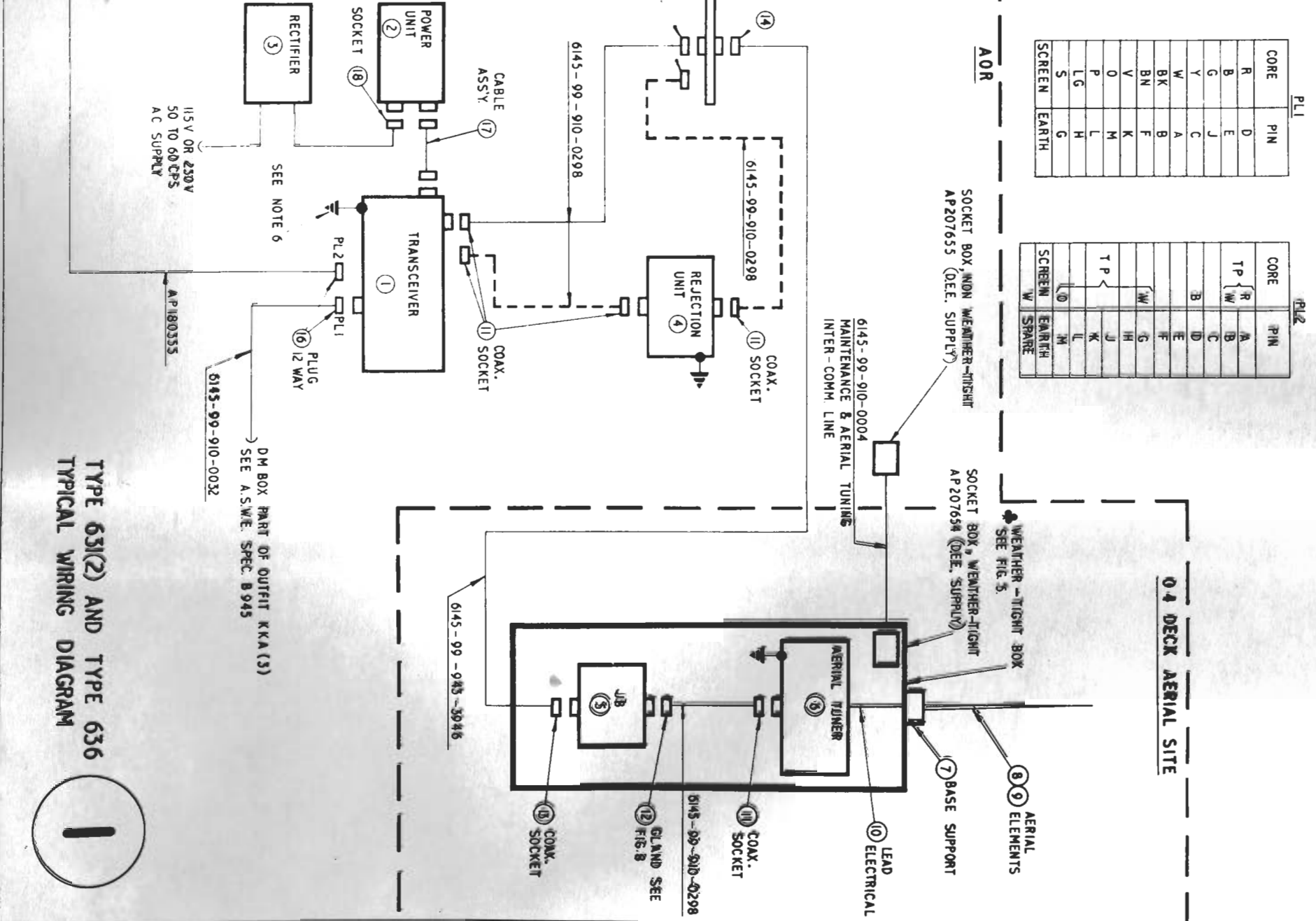
CONNECTIONS TO TRANSCIVER MULTI-POLE PLUGS

PL1

CORE	PIN
R	D
B	E
G	J
Y	C
W	A
BK	B
BN	F
V	K
O	M
P	L
LG	H
S	G
SCREEN	EARTH

PL2

CORE	PIN	
T P	R	A
	W	B
	W	C
	B	D
		E
		F
		G
		H
		I
		J
		K
		L
		M
SCREEN	EARTH	
W	SPARE	



TYPE 631(2) AND TYPE 636  
TYPICAL WIRING DIAGRAM

