

The KW „76A“ MOBILE RECEIVER

The KW “76A” Receiver is designed primarily for mobile operation. The compact layout makes it particularly suitable for under dash mounting in a vehicle. When used at a Home station from an A.C. Mains supply, performance can be very favourable compared with much larger equipment.

The Receiver has been designed around the Geloso Coil Unit 2619 which is used in the G209 Receiver. This unit provides good band spread on all amateur bands. A modification has been incorporated which permits excellent performance on top band.

The wiring of the heaters in two balanced systems allows the set to be used from 6 or 12 volts A.C. or D.C. heater supply.

H.T. may be derived from vibrator, rotary transformer, transistor or A.C. Mains supply.

A very efficient Noise limiter is incorporated in addition to a B.F.O. for CW reception.

Provision is made for plugging in an external ‘S’ meter. This may also be used as an R.F. radiation monitor.

The main features of the KW-76 are as follows:

The Receiver is supplied complete with cabinet.

Valve line up: 6BA6 R.F. ; 12AU7 1st osc. & cathode follower;
6BE6 1st mixer; EF91 2nd mixer; EF91 crystal oscillator;
6CQ6 IF-amp. ; 6CQ6 IF amp. ; 6AL5 diode detector & AVC;
12AU7 Noise Limiter and L.F.-amp; 6AQ5 Audio output ;
Stabilovolt.

Power Input : L.T. 1.5 amps at 12V. (double at 6V.)

H.T. 200-250 V. at 70-85 milliampere.

Frequency range:

10m-band (28.0 to 30.0 mc/s);	11m-band (26.0 to 28.0 mc/s);
15m-band (21.0 to 21.5 mc/s);	20m-band (14.0 to 14.4 mc/s);
40m-band (7.0 to 7.3 mc/s);	80m-band (3.5 to 4.0 mc/s);
160m-band (1.78 to 2.02 mc/s).	

Intermediate Frequencies:

1st = 4.6 MC/s ; 2nd = 465 kc/s (crystal for 2nd mixer 5065 kc/s)

I.F. rejection: Better than 50db.

Image rejection: Better than 60db.

Sensitivity: 1 microvolt for 1 watt A.F. Output

Signal-to-noise Ratio: With 1microvolt input S/N better than 6 db.

Noise Limiter: Effective for positive and negative noise pulses, self-adjusting to modulation.

A.F. Output: 2.5 watts maximum.

Physical dimensions: 5 ¾ wide ; 6¾” high, 12 ½ deep.

Weight: 10 lbs.

Controls on Front Panel: Tuning – Wavechange – Aerial trimmer –
BFO/CW/Noise Limiter Off/L:T: switch –
R.f. gain – L.F. gain.

Selectivity: Bandwidth 2 kc/s at 6 db.

Antenna Circuit: Low impedance co-axial input.

Price: Reday wired & tested 10-160m.	... £43.15.0 plus carr.
In Kit form	... £35.10.0 carr. paid in U.K. (by post)
‘S’ Meter in case with ‘zero’ control	
& R.f. radiation monitor	...£6.10.0 extra.

K.W. ELECTRONICS LIMITED

VANGUARD Works, 1 Heath Street, DARTFORD, Kent, England

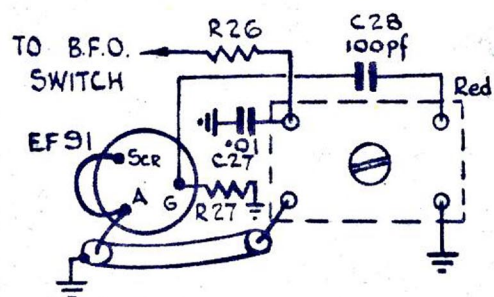
Tel: Dartford 25574

KW"76" RECEIVER - COMPONENTS LIST (continued)

1	Cabinet Chassis
1	Drive bracket
1	Aerial trimmer bracket
1	Front Panel
1	Drive cord
1	Escutcheon
1	Epicyclic drive
1	Dial
1	Drive drum
1	Pointer
1	Dial lamp 6 v.
1	Coil unit
1	Gang Condenser
2	Gang feet special
2	Pointer knobs
1	Tuning knob
3	Round knobs 14"
1	Round knob with Pointer 14"
1	7 pt socket
1	7 pt plug
1	Aerial trimmer
1	Coupler
1	Spindle 6 1/8 "
1	Panel bush
6	2 ft. lengths wire
3	Lengths Co-axial cable
2	Lengths twin screened 20"
1	Lengths lightweight screened 1½
1	Co-axial socket
1	6" length 8 m/m
1	Crystal 5067 kc/s
1	Crystal holder
8	B7G Screens (2 in Coil unit)
2	B9A Screens
8	B7G Valveholders
1	B9A Valveholders
16	PK Screws 1/4 "
12	PK Screws 3/8"
3	4BA Screws 1" C.H.
18	6BA Screws 1/4" C.S.
2	6BA Screws 1" I.H.
30	6BA Screws 1/4" C.H.
2	4BA Nuts I
40	6BA Nuts
2	6BA Washers
26	6BA Solder Tags double ended
	Set of 6 Tag Terminals
1	Shaped piece 16 s.w.g. wire
	Set of drawings.

B.F.O. CONNECTIONS

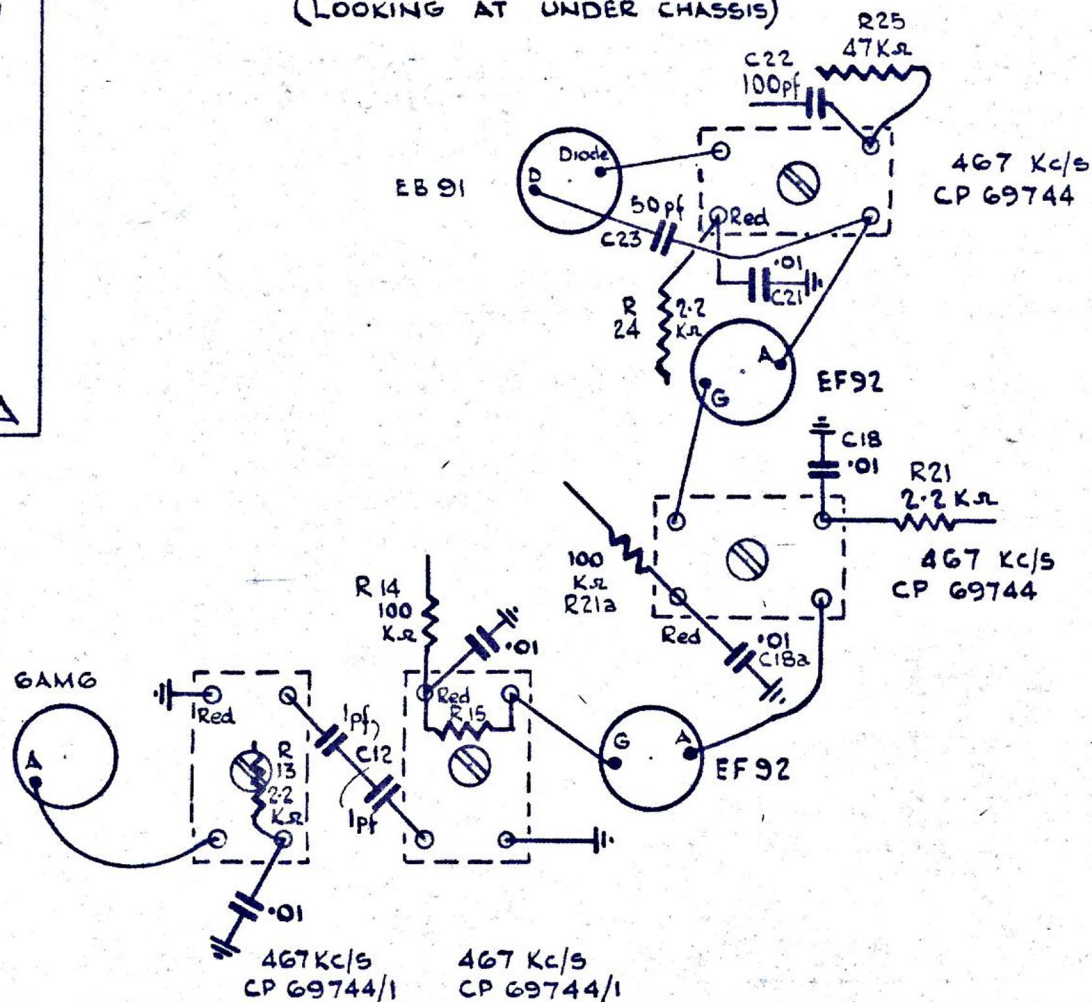
(LOOKING AT UNDER CHASSIS)



A

CONNECTIONS FOR I.F. TRANSFORMERS

(LOOKING AT UNDER CHASSIS)

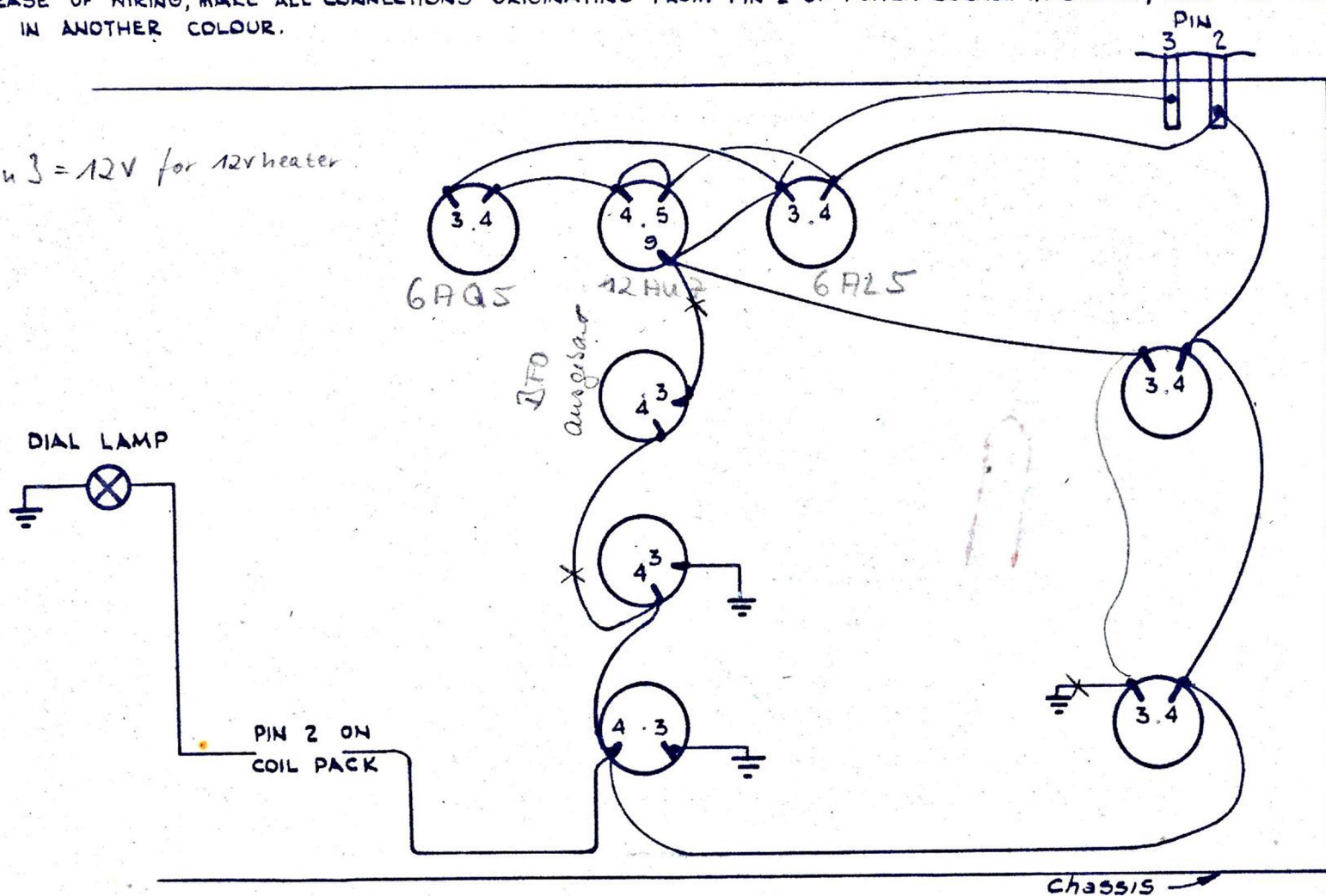


B

HEATER CONNECTIONS (LOOKING AT UNDER CHASSIS)

FOR EASE OF WIRING, MAKE ALL CONNECTIONS ORIGINATING FROM PIN 2 OF POWER SOCKET IN BROWN, AND ALL FROM PIN 3 IN ANOTHER COLOUR.

Pin 3 = 12V for 12V heater



C

160m: von 1765 bis 1850 kHz **K W 76 RECEIVER.**

Greuswelle

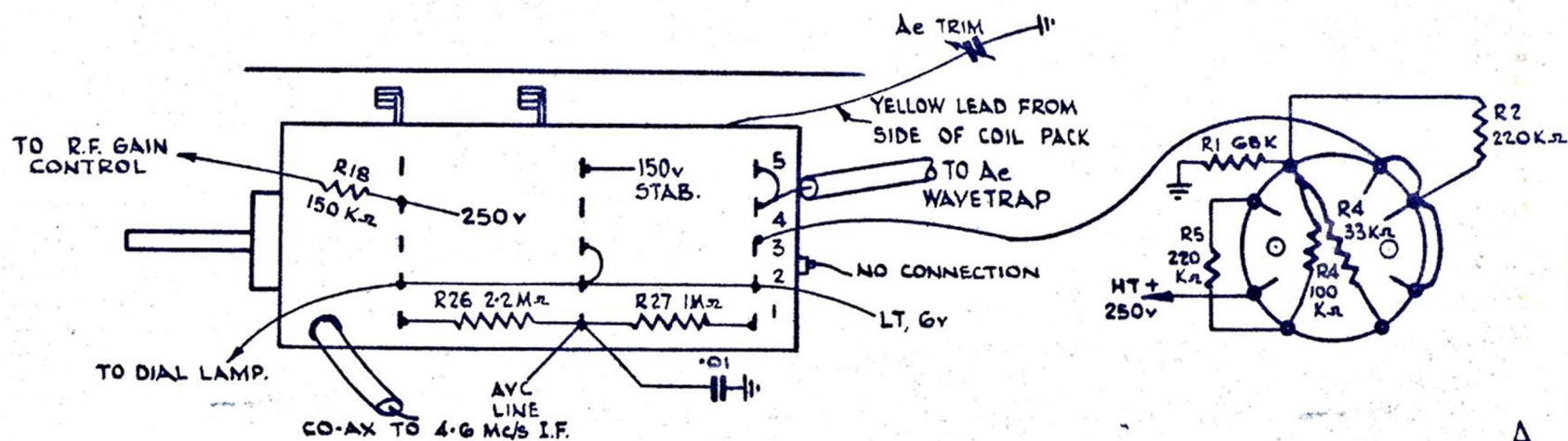
CONSTRUCTIONAL DATA.

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VANGUARD WORKS, 1 HEATH ST., DARTFORD, KENT, ENGLAND.

DRAWING N° RX76-3

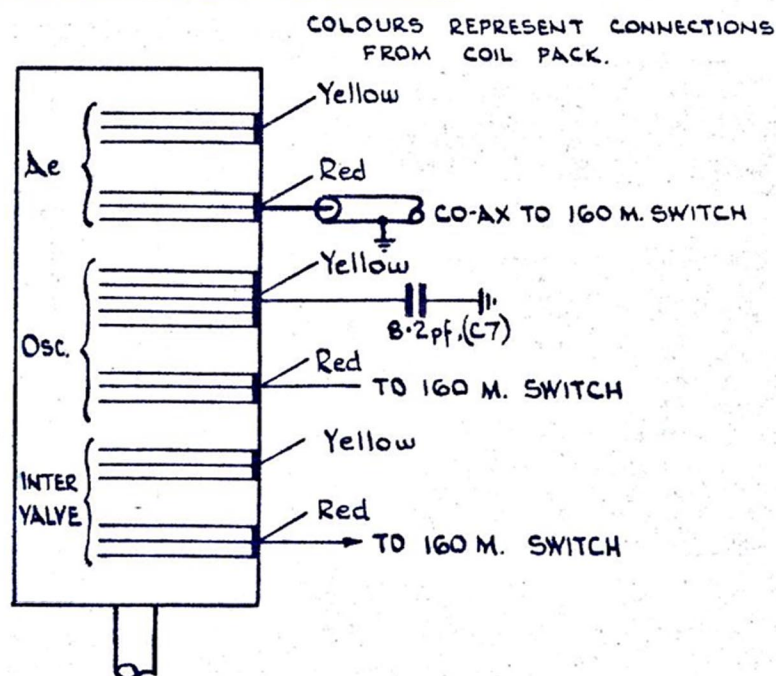
G3MCA 5-11-59

CONNECTIONS TO COIL PACK



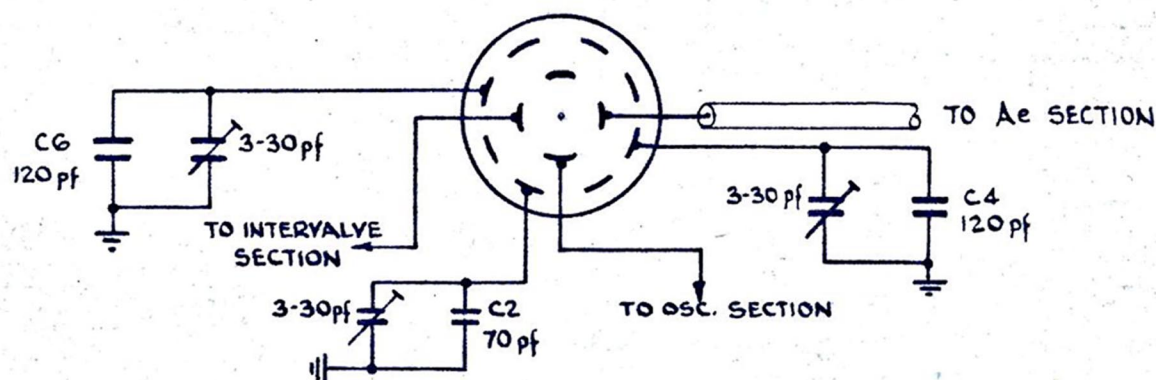
A

CONNECTIONS TO GANG CONDENSER.



B

CONNECTIONS TO 160 M. SWITCH (LOOKING AT REAR).



C

K W - GELOSO CONVERTER & K W 76 RECEIVER.

CONSTRUCTIONAL DATA

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DRAWING N° Rx76-2

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