

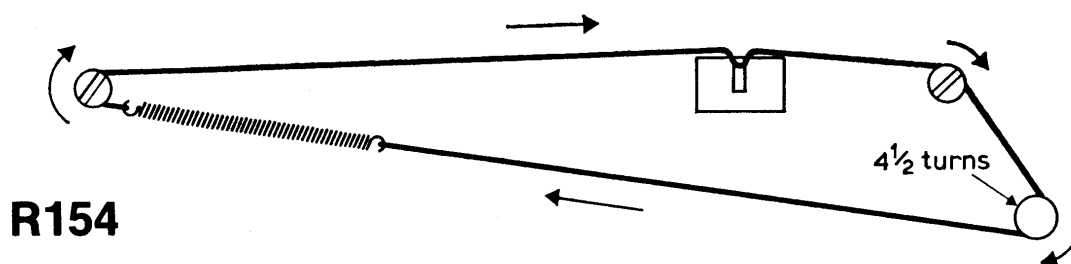
General Description: A two waveband car radio operating from a positive or negative earthed system by means of an internal switch.

Battery: 12 volts.

Fuse: 2 amps.

Wavebands: L.W. 150-272kHz; M.W. 545-1515kHz.

Loudspeaker: 4 ohms impedance.



CORD DRIVE SHOWN WITH CORES FULLY IN.

(R154) DRIVE CORD—MODELS ACR1, ACR4

Dismantling

To obtain access to the component side of the printed circuit board and the drive cord, remove two screws, one each side of the casing metalwork, when the U-shaped top plate can be removed.

To obtain access to the copper side of the printed circuit board, remove the two screws on the cover plate on underside of case; cover plate can then be removed.

To remove escutcheon plate, pull off the two control knobs and remove the hexagon nuts and washers from control spindles; the plate will then lift off. The removal of its two fixing screws will allow the scale moulding to be removed. Note that in replacing the escutcheon plate, that a thick washer is placed on each control spindle behind the plate and a thin washer in front of it.

Alignment

Removal of casing top plate will provide access to all alignment adjustments. Connect A.C. output meter (4Ω impedance) across loudspeaker terminals. Connect A.M. signal generator, via dummy aerial, across aerial socket. Turn receiver Volume control to maximum.

During alignment, progressively reduce signal generator output level to maintain useful output indication on 50mW range of meter.

TR7 4008B

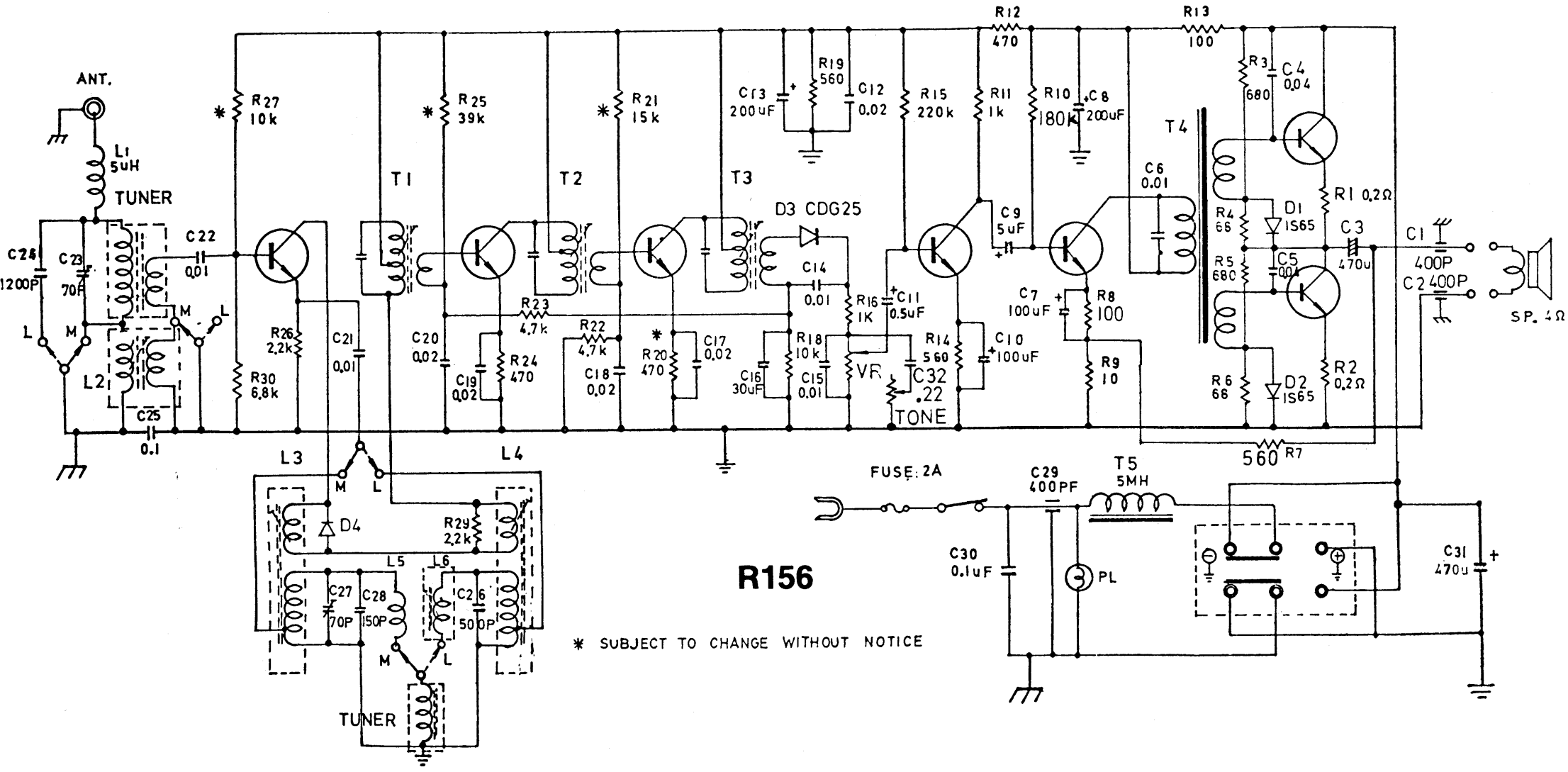
TR6 4008B

TR5 4008D

TR4 4003C

TR3 4003D

TR1 TR2 POWER

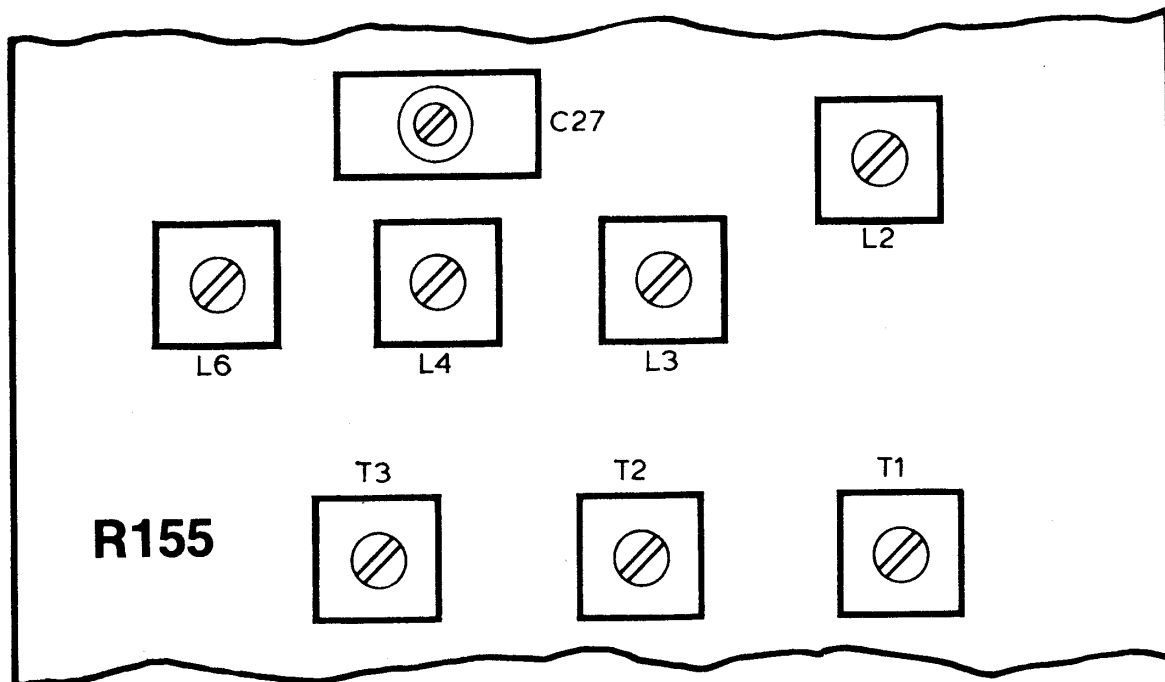


R156

* SUBJECT TO CHANGE WITHOUT NOTICE

(R156) CIRCUIT DIAGRAM—MODELS ACR1, ACR4

ALBA



(R155) ALIGNMENT ADJUSTMENTS—MODELS ACR1, ACR4

Switch receiver to M.W. Tune to a signal-free position at low frequency end of waveband. Inject signal of 470kHz and adjust cores of T3, T2 and T1, in that order, for maximum output. Repeat for optimum sensitivity.

Check that scale pointer is correctly positioned; it should line up with the centre of the 2000 mark on L.W. scale. Tune to 500m (mid-way between 450 and 550 marks), inject signal of 600kHz and adjust core of L3 for maximum output. Retune receiver to 200m, inject signal of 1500kHz and adjust trimmer C27 for maximum output. Repeat these adjustments.

Tune to 300m, inject signal of 1 kHz and adjust trimmer C23 for maximum output. This trimmer should be re-adjusted on installation when connected to car aerial.

Switch to L.W. Tune to 1500m, inject signal of 200kHz and adjust core of L4 for maximum output. Also peak core of L2. Retune receiver to 200m, inject signal of 150kHz and adjust core of L6 for maximum output. Repeat these adjustments.