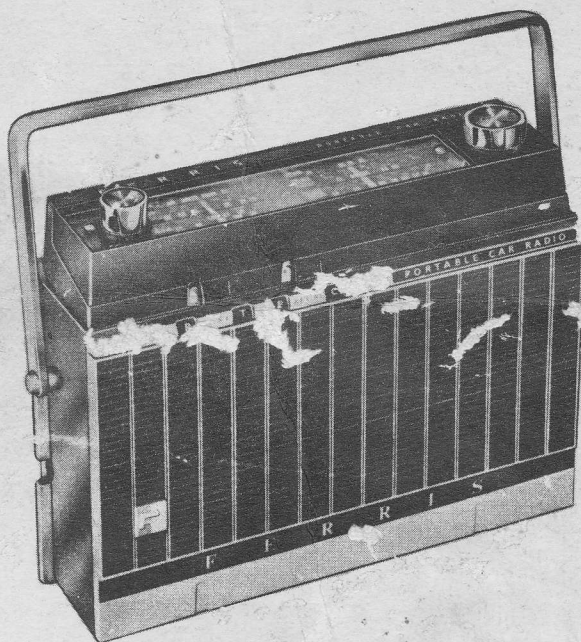


# OWNER'S MANUAL



## **MODEL 184 8 TRANSISTOR PORTABLE CAR RADIO**



### **LIST OF ACCESSORIES SUPPLIED WITH RECEIVER.**

- OPERATING INSTRUCTIONS AS PORTABLE AND HOME RADIO.
- CARE AND MAINTENANCE OF RECEIVER.
- RECOMMENDED INSTALLATION METHODS AS CAR RADIO.
- ELIMINATION OF IGNITION NOISE.
- OPERATING INSTRUCTIONS AS CAR RADIO.
- ADDITIONAL ACCESSORIES AVAILABLE AS OPTIONAL EQUIPMENT.
- SUGGESTED USES FOR THE SET.
- WARRANTY AND SERVICE FACILITIES.

1. Receiver complete with ER 2761 battery
2. Distributor suppressor
3. Generator condenser
4. Owner's Manual
5. Guarantee card.

FOR OPTIONAL ACCESSORIES - SEE PAGE 6.

#### OPERATION OF RECEIVER AS A PORTABLE AND MANTEL HOME RADIO:

Turn aerial switch to 'PORT.' Tuning, volume, on-off switch and tone controls are orthodox. When listening to distant stations or when treble response seems too prominent, set tone control to 'BASS.' Rotate set for maximum volume from distant stations or to reduce static or interference.

For extra long distance DAYTIME reception, plug in a Ferris wire aerial and turn aerial switch to 'CAR.' In addition, an earth wire can be soldered to the body of the aerial plug for maximum performance. If used on a boat, a Ferris car radio or wire type aerial eliminates fading when the boat swings at anchor.

REMEMBER TO MAKE CERTAIN THE SET IS SWITCHED OFF WHEN NOT IN USE.

#### CARE AND MAINTENANCE OF RECEIVER - DRY BATTERY:

The Eveready ER2761 9 volt battery used is a long-life, high capacity cordless radio energiser much larger than the types used in ordinary portables. However, as with all makes of all-transistor portables and cordless mantel radios, current drain is proportional to volume level. For maximum battery life do not exceed a comfortable volume level.

N.B. On weak distant stations the volume control may have to be turned well on. However, this will not take any more battery current than when receiving a strong local station with the volume control turned well down. The actual 'loudness' from the speaker determines battery drain. When volume level drops appreciably and reproduction is poor, check battery and replace if voltage reading is low.

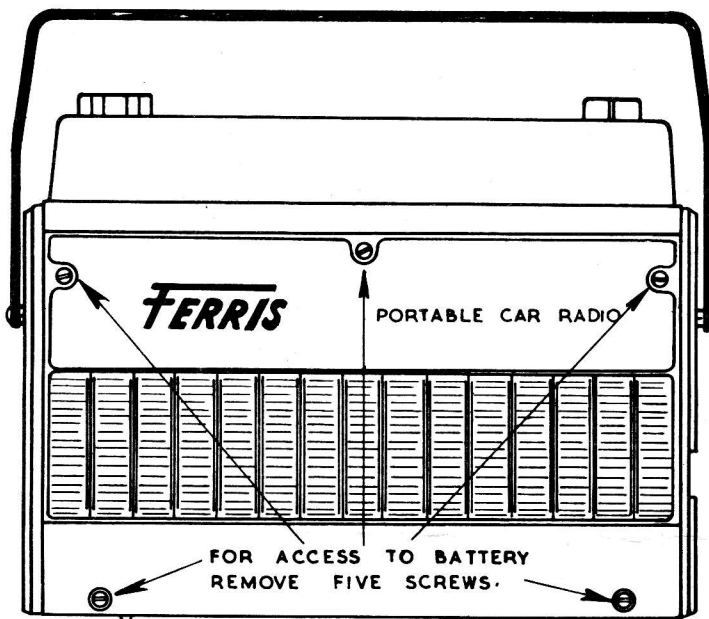
FINISH: The main receiver components are contained in a smartly styled die-cast metal case. With reasonable care the attractive finish will last many years. When used at picnics, on the beach, etc., take care that water does not enter the set.

#### REPLACING THE BATTERY:

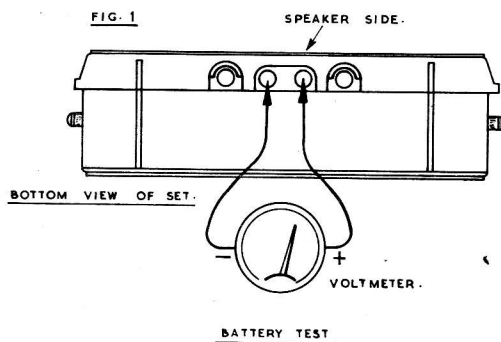
With average use, the ER2761 battery will provide many hours of radio listening. If however, sensitivity, fidelity or power output seem to be below normal, the battery should be replaced if necessary. The battery can be checked by switching the set ON and connecting a voltmeter across the contacts as shown in Fig. 1. Replace if reading is five volts or lower.

HEAT: It is quite safe to operate the set in the sun or in a car which has been closed and parked in the sun.

With average use the ER2761 battery will provide many hours of radio listening. If however, sensitivity, fidelity or power output seem to be below normal the battery should be replaced if necessary. The battery can be checked by switching the set 'ON' and connecting a voltmeter across the contacts as shown in Fig. 1. Replace if reading is five volts or lower.



REAR VIEW OF SET .



#### TO REPLACE BATTERY

1. Remove five screws from rear lid,
2. Remove rear lid,
3. Withdraw and un-plug battery,
4. Reverse procedure to install new battery.

The Model 184 will operate in a car from its own in-built rod aerial on strong local signals and the fitting of the distributor suppressor resistor together with generator condenser (see 'Noise Suppression' diagram) will definitely help in reducing ignition interference. However, results are only fair as fading and ignition noise can spoil performance particularly when used in a closed car.

For completely SATISFACTORY results, one of the following M184 accessory kits MUST be used.

#### INSTALLATION METHOD NO. 1 Ferris Gutter Grip Aerial and Safety Seat Strap.

1. The Aerial should be fitted on the driver's side just behind the centre door pillar (See Figs 1 and 4). The TWO mounting screws must be tightened just sufficiently to make a secure mechanical mounting and to make a sound electrical contact to the car body. If necessary the aerial locking bracket may be bent slightly either towards or away from the car body to give the required alignment.

There are several reasons why this location is best.

- (a) The aerial is kept further away from steep walls of road cuttings, etc., thus signal pickup is slightly better in such locations.
  - (b) Similarly the aerial is further away from overhead power cables, etc., which can slightly reduce 'noise' pickup.
  - (c) The aerial can be raised or lowered from the driving position.
  - (d) When car is parked at kerbside the aerial is least conspicuous, particularly if folded down along gutter.
2. The thin coaxial lead-in should run through the front door opening as shown in Fig. 1. The soft rubber door gasket will easily accept the thin lead without damage when the door is closed. A slight mark may show in the external PVC covering of the lead. On some cars suitable screws are already fitted to secure the lead to the centre pillar with clips, supplied with aerial as shown in Fig. 1. Where screws are not fitted, drill 3/32 dia. holes in pillar and use the self-tapping screws supplied with aerial.

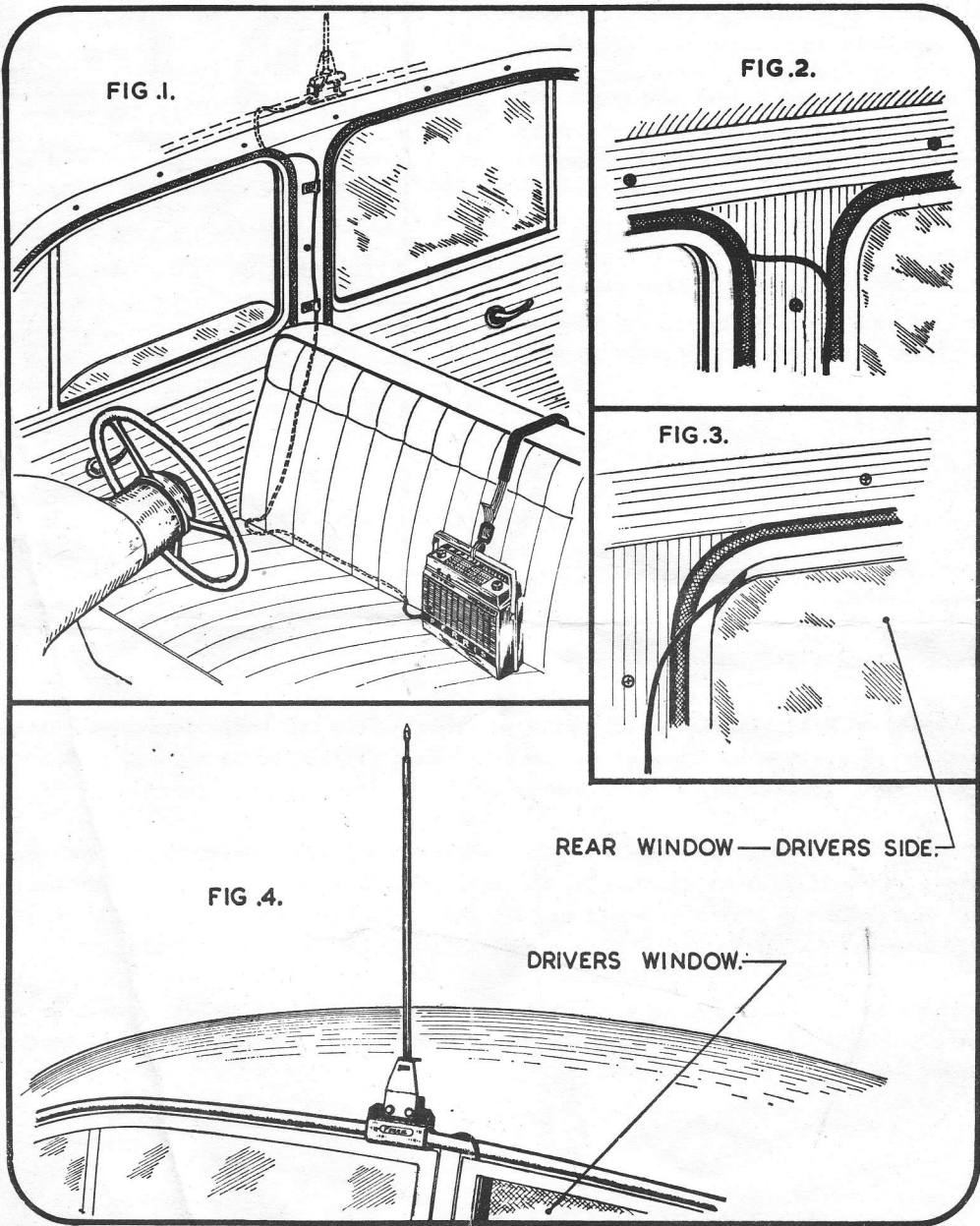
An alternative method is shown in Fig 2 where no screws are required. The thin lead can be tucked behind the trim or secured to it with stitching or suitable plastic or metal clips.

NB Where the lead is shown as a dotted line (fig. 1) this section is concealed in the car by running down the centre pillar to the level of the front seat where it is pushed under the backrest, leaving just sufficient lead protruding to plug into the set. Leave sufficient slack between pillar and seat to permit normal adjustment of front seat.

3. For a temporary fitting such as when changing aerial from one car to another the lead can be brought through the rear offside window as shown in Fig. 3. When winding window up leave a sufficient gap so the lead will not drag when door is opened.

# RECOMMENDED INSTALLATION METHODS:

The set can be quickly fitted to any closed car in minutes from the following instructions:



## POSITIONING OF SET:

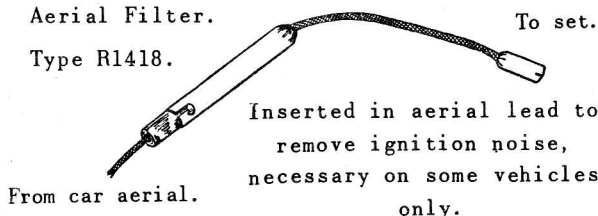
The safety seat strap as shown in Fig. 1 is designed to prevent the set from moving unduly with sudden braking or very sharp cornering and should always be used. Sufficient length of strap is provided so the set may be placed as shown in Fig. 1 or on its back if preferred so the speaker is directed toward both driver and passengers. If a third passenger is carried in the front seat, the set may be turned 'end-on' to give more seating space.

Because the Model 184 is so well shielded and filtered ignition noise is seldom a problem. In addition the location of the gutter grip aerial is most suitable for minimum ignition noise pickup.

If any interference from the motor can be heard follow the directions given in the sketch. Remember a Ferris aerial filter unit is often very effective in stubborn cases.

NB - Do NOT expect noise-free reception in a moving car if the set is used on its inbuilt ferrite or portable aerial.

Aerial Filter.  
Type R1418.

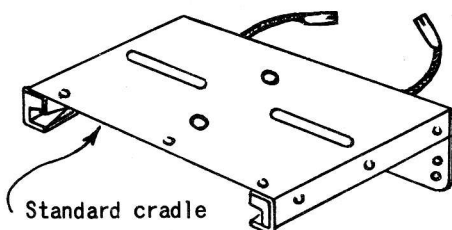


## INSTALLATION METHOD NO. 2

Comprised of M184 standard cradle with suitable Ferris car radio aerial and extension speaker. The extension speaker can be an in dash fitting or be mounted in a housing. a rear shelf speaker may also be employed.

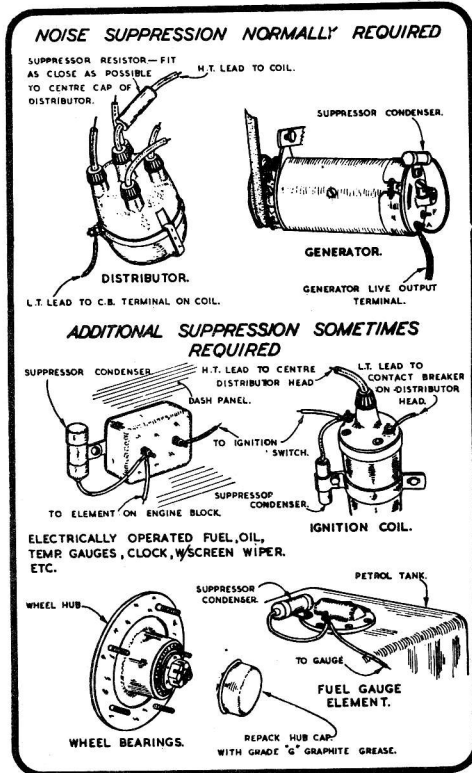
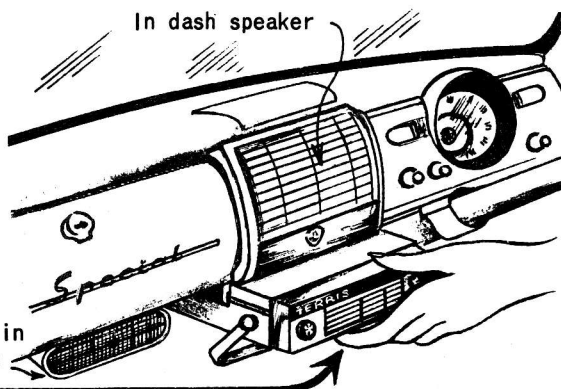
NB - When set is installed in a cradle, a separate 3 ohm. extension speaker MUST be fitted for satisfactory results in the car. The speaker in the set faces the floor when in cradle and cannot be heard clearly particularly at speed. In addition, turning up the volume to overcome road noises seriously reduces dry battery life.

As there is no connection to the car battery system with 'Installation Method No. 2', the set should not be used for prolonged periods or at high volume for prolonged periods as battery life will be reduced.



Cradle mounts under dash.  
Set automatically connects  
to car aerial and  
extension speaker.

Speaker in  
Housing





## INSTALLATION METHOD NO. 3 Powered Cradle

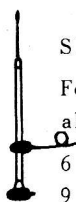
Same kit as No. 2 except cradle has built-in safety filters to operate set from car battery. Automatically reactivates dry battery in set.

NB - Do not operate set from car battery without internal dry battery fitted.

ADDITIONAL ACCESSORIES: available as optional equipment. Complete instruction data is packed with all accessories.

**Gutter Grip Aerial, Safety Seat Bracket & Strap - £2.19.0.**

**Power Cradle for connection to Car Battery,  
Aerial and Extension Speaker - £6.19.0.**

**SIDE MOUNT AERIAL:**

For general use, particularly suitable for trucks & heavy transports.

6 ft. Std. - £2.12.6.  
9 ft. Long - £3. 5.0.

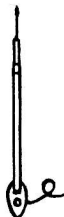
**FULLY RETRACTABLE AERIAL:**

Model 703, 3 piece - £5.19.6.  
Model 704, 4 piece - £6. 9.6.

**TOP COWL AERIAL:**

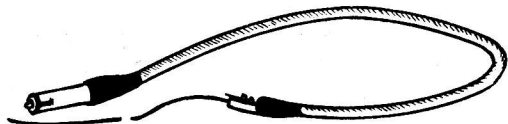
A general purpose aerial.

M620SS, 1 ft. 10 ins. - £3.16.0.  
M620S, 4 ft. 6 ins. - £4. 1.9.  
M620L, 6 ft. - £4. 8.3.  
M620SS, Twin Rear. - £7.12.0

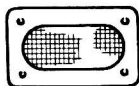
**DE-LUXE SINGLE SIDE MOUNT AERIAL:**

Features cast metal base for attractive styling. Ideal for V.W. and others.

£3.11.0.

**WIRE AERIAL No. R1419 - 6/6d.****AERIAL FILTER, No. R1418 - 9/6d.**

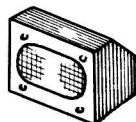
Illustrated Opposite Page.

**EXTENSION SPEAKERS:**

9 in. x 6 in. Holden 1956/62 - £3.9.6.  
6 in. with flush baffle for  
rear shelf mounting - £4.6.6.  
6 in. in headerbar ring - £4.6.6.

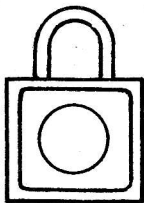
**SPEAKERS IN HOUSING:**

7 in. x 5 in. metal housing - £5. 5.0.  
10 in. x 3 in. plastic - £3.18.6.

**SPEAKERS WITH DASH BAFFLE:**

5 in. or 525 Borgward Isabella, M.G.A, Chrysler Royal 1958) - £3.10.0.  
6 in., 7 in. x 5 in.,  
9 in. x 6 in., 10 in. x  
3 in., all other cars - £3.18.6.

Recommended Type  
Lockwood No. 225



**LOCK:** The Ferris portable car radio has a big advantage over a fixed car radio, since you CAN take it with you when you park your car. However, for owners who may wish to leave the set in the car unattended, provision is made for secure locking. One, or two padlocks of different

makes can be fitted as a double precaution against theft, e.g., in open sports cars.

Provision is made on both the STANDARD and the POWERED CRADLE for a padlock.

#### SUGGESTED USES FOR THE SET -

In the car its performance is comparable with the best 'built-in' sets because of high sensitivity, selectivity and efficient 5 x 4 oval speaker.

As a town or country portable and/or cordless mantel radio its eight transistors plus 3 diode circuitry with 3 gang condenser and tuned RF stage will guarantee you good results.

The set may be used in and around the house, as a portable, taken from car to caravan, week-end, camp, etc., even from car to car. Ideal for use on boats because separate aerial connection overcomes drawback of ordinary valve and transistor portables which often fade right out when boat swings at anchor.

Most suitable for travellers from car to hotel or motel room, etc. Excellent, too, for those driving a Company or Departmental car through the week to transfer to the family car at weekends, holidays, etc. For those who regularly change cars the Model 184 will be as 'modern as tomorrow' for years and can transfer to the new car at - NO COST!

#### **GUARANTEE AND SERVICE FACILITIES:**

Ferris car radio and portable car radio receivers and stereophonic radiograms, are sold and serviced throughout Australia. Should your set fail during the guarantee period it should be returned to the Dealer from whom it was purchased. If this is not convenient any Ferris Retailer will service your set for a reasonable charge.

### **FERRIS BROS. PTY LIMITED**

A Division of Ferris Industries Ltd.

**Manufacturers of Quality Car Radio Since 1934.**

SYDNEY   MELBOURNE   BRISBANE   NEWCASTLE   WOLLONGONG   CANBERRA   ORANGE  
ROCKHAMPTON   TOWNSVILLE

#### **Distributors:**

W.A.   Tedco Pty. Limited., Perth.  
S.A.   Radio Electric Wholesalers Ltd., Adelaide.  
TAS.   W. & G. Genders Pty. Limited, Launceston-  
Hobart-Devonport-Burnie.

