

# 'diamond-dot'

CAR RADIO DIVISION, ELECTRONIC INDUSTRIES LTD.

ASTOR HOUSE: 161-173 STURT STREET, SOUTH MELBOURNE Phone: 69 0300

## SERVICE DATA

### FIAT 850 "S"

#### INSTALLATION INSTRUCTIONS FOR FITTING

#### ASTOR 12 VOLT CAR RADIO

#### MODELS PD-C - - and MD-C - - "J" SERIES RECEIVERS

In addition to the selected receiver the installation requires:

Installation Accessory Package, Part No. 721-113-06

Aerial - 5 section, telescopic whip, top mount type, part No. 4074-044-04

or Aerial - 5 section, telescopic whip, lock down type, Part No. 4074-052-04

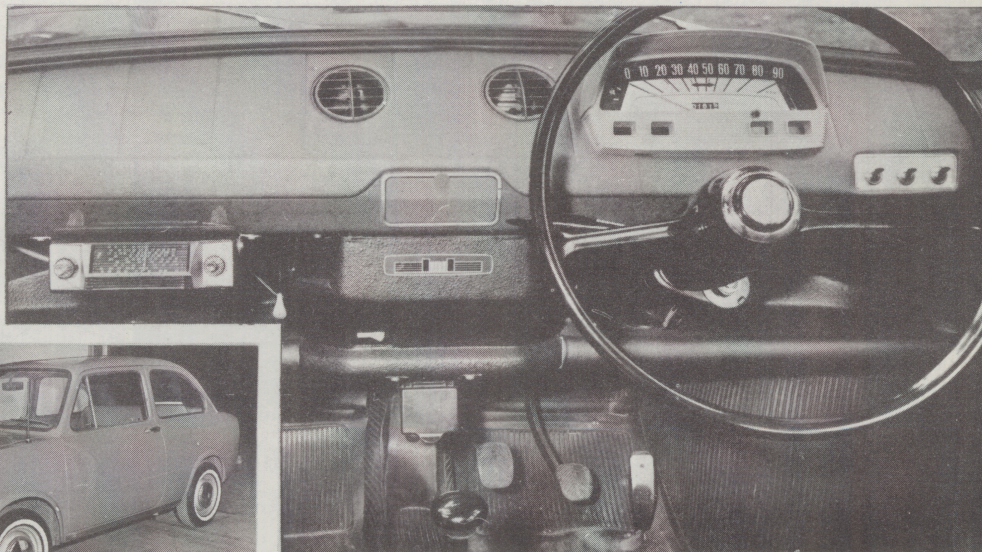
**WARNING :** BATTERY CONNECTION OF INCORRECT POLARITY WILL DAMAGE RECEIVER.

Before commencing installation disconnect leads from car battery. Note polarity of battery terminal which is connected to vehicle chassis then set receiver polarity changeover switch to corresponding position, i.e. "-" position, negative to chassis, "+" position, positive to chassis.

**NOTE:** AERIAL TRIMMER located on rear passenger side corner of receiver is to be adjusted at conclusion of installation.

**THE AERIAL** as selected is to be mounted on top of passenger side fender  $2\frac{1}{8}$ " forward from the tip junction of cowl fender and bonnet and 1" outward from bonnet fender line.

Install aerial as detailed in instructions supplied with aerial.





AERIAL LEAD IN CABLE : Drill a  $\frac{1}{2}$ " dia. hole in the luggage compartment passenger side wall adjacent to the vertical rear wall.

Drill a  $\frac{1}{2}$ " dia. hole in the vertical rear wall adjacent to hole previously drilled.

Feed lead-in cable through luggage compartment wall then fit grommet on lead into  $\frac{1}{2}$ " hole. With excess cable inside compartment fit ferrule on cable into grommet.

Fit grommet into hole in vertical wall. Feed cable through grommet then with excess cable inside the interior of car fit the ferrule on cable into grommet.

THE RECEIVER is mounted to the lip of the instrument panel adjacent to passenger side of heater. A bracket and a clamp plate support the rear and the two side brackets support the front.

- 1 Remove and discard screws and dust shield from top front of receiver.
- 2 Fit dial pointer to carriage arm.
- 3 Place cover escutcheon on to front of receiver.
- 4 Fit dial reading to dial escutcheon. MANUAL RECEIVERS ONLY: Fit filler bar to push button opening fasten securely with speednuts.
- 5 Place dial escutcheon onto front of receiver fasten securely with chrome washers and barrel nuts.
- 6 Fit manual control knobs.
- 7 Place a side mount bracket on to each side of the receiver so that the slot in large arm of bracket locates over thread forms in side of receiver. The wide end of bracket is to be toward front of receiver and the arm which has a small slot is to point away from receiver.
- 8 Fasten brackets to receiver with flat washers and  $\frac{3}{8}$ "x No.8 bdr.hd. screws. Fingertighten.
- 9 Locate the "U" shaped on top of the channel brace which is situated between the instrument panel and luggage compartment wall. Speednut on plate is to locate over the slot in top of brace.
- 10 With short leg of "L" shaped bracket pointing toward front of vehicle, locate bracket inside the channel member. Align hole in bracket with speednut on plate.
- 11 Fasten together with a flat washer and a  $\frac{5}{8}$ "x No.8 bdr. hd. screw. Do not tighten.
- 12 Place receiver against lip of panel so that tapped hole at rear locates with slot in bracket.
- 13 Attach to bracket with a flat washer, and a  $\frac{3}{8}$ "x No.6 hex. hd. screw. Fingertighten.
- 14 Align receiver to panel, adjust and securely tighten screws fastening side brackets to receiver. Mark panel corresponding to slots in brackets then carefully remove rear screw.
- 15 Move receiver aside and securely tighten screw fastening rear bracket to channel.
- 16 Drill two  $\frac{7}{32}$ " dia. holes in lip of panel at the positions marked.
- 17 Reposition receiver and fasten rear bracket.
- 18 Assemble flat washers to  $\frac{1}{2}$ "x  $\frac{3}{16}$ " Whit. rd. hd. screws, then fasten brackets to panel with flat washers, shakeproof washers and  $\frac{3}{16}$ " Whit. nuts.
- 19 Securely tighten all screws.
- 20 Insert aerial lead-in cable plug into socket on passenger side rear corner of receiver.
- 21 Insert 3 amp. fuse into fuse holder then connect holder to fuse cover on receiver battery lead.
- 22 Disconnect black lead connector from rear of ignition switch, Attach black lead connector to double adaptor on receiver lead then connect adaptor to ignition switch terminal.

THE SPEAKER: 8"x 4" attached to a mount baffle is to be mounted against the driving side wall on top of the parcel shelf.

- 1 Locate baffle assy. in position on top of shelf then mark the position of the two holes on wall and the position of speednut on to shelf.
- 2 Drill two 7/64" dia. holes in wall and a 1/4" dia. hole in shelf.
- 3 Reposition assy. and fasten at top with cup washers and 3/4"x No.8 Phillips csk. hd. screws.
- 4 Fasten to shelf with a flat washer and a 5/8"x No. 6 Phillips hd. screw. Securely tighten the screws.
- 5 Feed lead over steering column and behind instrument cluster to receiver.
- 6 Insert plug on end of lead into socket adjacent to battery lead entry on receiver.

INTERFERENCE ELIMINATION: No spark plug suppressors are required.

DISTRIBUTOR SUPPRESSOR: Insert a screw - in type suppressor Part No.4021-012-01 into the high tension lead a few inches from where it enters the distributor. Check that lead is fitted well into the suppressor and that good contact is made. Securely bind both ends of suppressor to the lead with adhesive tape.

NOTE: The surfaces of the nuts and mount position for the by-pass capacitors must be entirely free of paint and varnish to ensure a good electrical contact. Lightly smear cleaned surface with lanoline.

GENERATOR CAPACITOR: .5uF Part No. 4009-024-06 (long lead). Connect lug on lead to armature terminal, NOT THE FIELD TERMINAL. Loosen bolt fastening frame clamp near pulley end of generator. Slide mount foot of capacitor under head of bolt and securely tighten.

IGNITION COIL CAPACITOR: .5uF Part No. 4009-024-01 (short lead). Connect lug on lead to ignition coil battery terminal. Loosen one of the nuts fastening coil bracket in position. Slide mount foot under nut and securely tighten.

Reconnect leads to car battery.

AERIAL TRIMMER ADJUSTMENT: Raise aerial to half extended height. NOTE: If a fully retractable aerial is fitted raise the large diameter outer tube until it is against stop in aerial base. Tune receiver to a weak station near 1000 Kc/s (approximately centre of dial) adjust trimmer for maximum volume of signal.

# FIAT 850 "S"

## MODELS PD-C - - and MD-C - - "J" SERIES RECEIVERS

### COMPONENT PARTS LIST

4077-225-52 Aerial lead-in Cable (1) 36" overall length  
7120-029-02 Grommet (1) lead-in

### SPEAKER MOUNTING ACCESSORIES

4056-015-04 Speaker (1) 8"x 4" permag type C84L36/127/15  
7009-118-03 Baffle (1)  
7104-059-03 Grille (1)  
7084-226-04 Escutcheon (1)  
7261-128-08 Washer (4) flat steel  $\frac{1}{4}$ "x $\frac{1}{8}$ "  
7262-508-01 Washer (4)  $\frac{1}{8}$ " ext.  
7148-302-11 Nut (4)  $\frac{1}{8}$ " Whit.  
7201-629-17 Screw (2)  $\frac{3}{4}$ "x No.8 Phillips oval csk.  
7265-003-02 Washer (2) cup  
7152-752-01 Speednut (1) No.6 captive  
1171-023-08 Lead - 36" required  
7171-015-01 Plug (1) on end of lead  
7244-034-01 Terminal (2) on end of lead  
7201-577-23 Screw  $\frac{5}{8}$ "x No.6 bdr.hd.  
7261-164-02 Washer (1) flat steel,  $\frac{9}{16}$ "x  $\frac{11}{64}$ "

### RECEIVER MOUNTING ACCESSORIES

7173-042-05 Dial Pointer (1)  
7084-277-02 Cover Escutcheon (1)  
7084-147-01 Dial Escutcheon Assy.(1)  
includes:  
7081-001-01 "Diamond Dot" emblem  
7008-123-01 ASTOR metcal  
7261-484-02 Chrome washers (2)  
7150-854-20 Barrel Nut (2)  
7124-425-01 Knob (2) antiference and tone, rear  
7124-424-11 Knob (2) tuning and volume, front  
7027-187-52 Bracket (1) front, passenger side  
7027-187-02 Bracket (1) front, driving side  
7261-164-02 Washer (5) flat steel,  $\frac{9}{16}$ "x  $\frac{11}{64}$ "  
7201-079-08 Screw (4)  $\frac{3}{8}$ "x No.8 bdr. hd.  
7028-550-03 Plate (1) "U" shape  
7152-753-01 Speednut (1) No.8  
7027-524-03 Bracket (1) "L" shape  
7201-079-16 Screw (1)  $\frac{5}{8}$ "x No.8 bdr. hd.  
7201-027-11 Screw (1)  $\frac{1}{2}$ "x No.6 hex. hd.  
7262-512-01 Washer (2) shakeproof,  $\frac{3}{16}$ " ext.  
7261-218-04 Washer (5) flat steel,  $\frac{9}{16}$ "x  $\frac{7}{32}$ "  
7198-178-21 Screw (2)  $\frac{1}{2}$ "x $\frac{3}{16}$ " Whit,rd.hd.  
7148-304-11 Nut (2)  $\frac{3}{16}$ " Whit.  
4071-010-01 Fuse (1) 3 Amp.  
7113-001-01 Fuse Holder Body (1)  
7225-012-01 Spring (1) fuse Holder  
7086-125-04 Contact (1) fuse holder  
1169-051-08 Lead -24" required  
7138-023-01 Terminal (1) lead  
7220-002-01 Shroud (1) terminal  
7138-030-01 Double Adaptor (1) lead connector

### INTERFERENCE SUPPRESSION EQUIPMENT

4009-024-06 .5uF Capacitor (1) generator by pass  
4009-024-01 .5uF Capacitor (1) ignition coil by pass  
4021-012-01 Suppressor (1) screw in type

### COMPONENTS SUPPLIED WITH RECEIVER

7070-115-11 Dial Reading (1)  
7119-046-01 Filler Bar(1) manual receiver, push button opening in escutcheon  
7065-011-01 Fuse Cover (1)  
7152-272-01 Speednut (2) filler bar fastening  
7086-125-01 Contact (1) fuse cover