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CAR RADIO DIVISION, ELECTRONIC INDUSTRIES LTD.

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SERVICE DATA

MERCEDES BENZ 220 "SEB"

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. 7281-114-01 (orange purple)

Aerial - 5 section, telescopic whip, top mount type - Part No. 4074-044-02

or Aerial - 5 section, telescopic whip, lock down type - Part No. 4074-052-02

WARNING: BATTERY CONNECTION OF INCORRECT POLARTIY WILL DAMAGE THE RECEIVER.

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

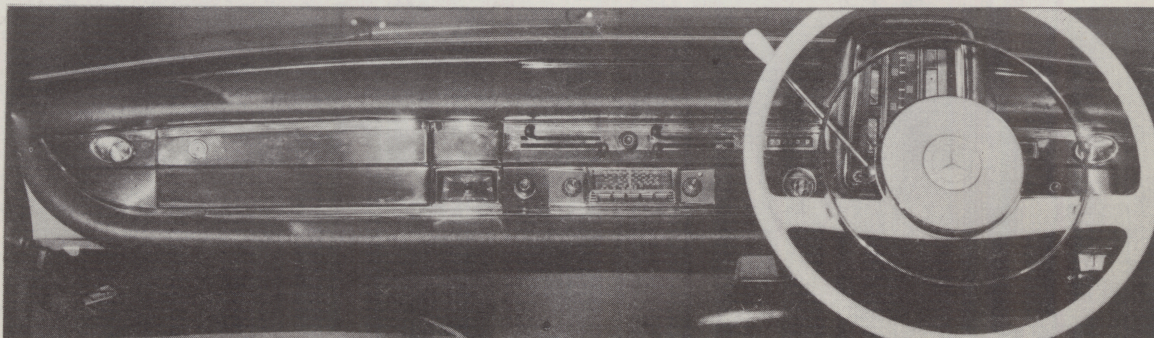
NOTE: AERIAL TRIMMER is to be adjusted at the conclusion of the installation.

THE AERIAL is to be mounted on top of driving side fender at a position 9" out from junction of windscreen, fender and front edge of driving side door and 1 $\frac{3}{4}$ " out from bonnet fender join line.

- 1 Remove and retain the four bolts fastening the splash shield to driving side wheel well. Retain shield.
- 2 Proceed to install selected aerial as detailed on instructions sheet supplied with aerial.

AERIAL LEAD-IN CABLE

- 1 In driving side wall behind kick pad there is a blind grommet accessible from wheel well.
- 2 Pierce a hole in rubber grommet, then feed aerial cable through pierced hole and up behind kick pad to instrument panel.
- 3 Refit splash shield to wheel well and securely tighten the four bolts.



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THE RECEIVER is to be mounted in the position occupied by an oblong cover panel situated on centreline of instrument panel. A front mount plate locates in to the panel opening and an "L" shaped bracket supplied to support receiver to the sealed rail section behind instrument panel.

- 1 Remove and retain the cover trim from beneath instrument panel.
- 2 Remove and discard oblong cover panel from instrument panel.
- 3 When oblong cover panel is removed, an oblong opening will be exposed in metal section of instrument panel; if necessary, carefully trim wooden section of instrument panel so that it will be flush with oblong opening in metal section.
- 4 Fit spacer rings supplied, onto control bush lock nuts. Fit dial pointer to carriage arm.
- 5 Place mount plate supplied onto front of receiver; protruding ledge of oblong cut out is to be at the top driving side corner.
- 6 Fit dial reading supplied with receiver to chrome escutcheon.
MANUAL RECEIVER ONLY: Fit filler bar to push button opening, fasten securely with circular type speednuts.
- 7 Place receiver behind instrument panel; locate front mount plate into oblong opening in panel.
- 8 Fit chrome escutcheon, chrome washers and barrel nuts to panel. Align escutcheon and receiver to panel, securely tighten barrel nuts and fit manual control knobs.

Insert screw through slot in bracket into speednut. Leave screw fingertight.
- 9 Fit the "L" shaped bracket to the rear of receiver so that the short fold is below and toward front of receiver. Fasten to rear thread form of receiver with $\frac{3}{8}$ "x No. 8 bdr. hd. screw and flat washer.
- 10 Mark the position of hole in short arm of "L" shaped bracket on to bottom of sealed rail.
- 11 Rotate bracket out of position, then drill a $\frac{9}{64}$ " hole at the position marked on rail. IMPORTANT: Clean off all paint and burrs from metal around the two holes for approximately $\frac{1}{2}$ " with emery paper or a sharp edged tool to ensure a good electrical contact. Lightly smear cleaned surfaces with lanoline.
- 12 Re-position bracket, then place a flat washer on to a $\frac{1}{2}$ "x No. 10 bdr. hd. screw; insert screw through hole in mount bracket into hole in sealed rail. Securely tighten screw, and the screw fastening mount bracket to receiver.
- 13 Insert 3 amp. fuse supplied into the moulded fuse holder, connect fuse holder to fuse cover on end of lead from receiver; connect receiver battery lead to uppermost terminal of fuse block.
- 14 Insert plug on end of aerial cable into socket on passenger side rear corner of receiver.

THE SPEAKER (6"x 4") is mounted in the cavity situated beneath the grille located on top of instrument panel.

- 1 Prise the edge of the grille nearest to operator upward then lift grille off instrument panel.
- 2 At each end of the exposed oblong opening, there are two square holes. Place a captive nut supplied below each of the four square holes, then press the nuts into each of the holes.
- 3 Feed speaker lead into panel cavity then with the high side of the slopping brackets toward the windscreen, place the speaker assembly beneath the trim of windscreen. Lower the assembly into the cavity.
- 4 Place a flat washer under the head of each of the four $\frac{3}{8}$ "x $\frac{3}{16}$ " Whit, rd. hd. screws; insert screws down through slots in speaker assembly into captive nuts.
- 5 Securely tighten the four screws and refit grille to instrument panel.
- 6 Insert body of fuse holder into clip supplied then attach clip to passenger side vertical section of cover trim nearest to firewall.
- 7 Connect speaker lead plug to receiver socket adjacent to battery lead entry.

INTERFERENCE ELIMINATION: No spark plug suppressors are required.

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

Ignition Coil Capacitor: .5uF Part No. 4009-024-02 (small lug on lead.) Loosen one of the coil mount brackets, then slide capacitor mount foot under head of screw. Securely tighten screw. Connect lead lug to coil battery terminal.

Generator Capacitor: .5uF Part No. 4009-024-01 (large lug on lead.) Loosen off frame nut provided on generator frame. Slide capacitor mount foot under head of nut. Securely tighten nut. Connect lead lug to armature terminal, NOT THE FIELD TERMINAL.

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.

Refit cover trim to inside of instrument panel.

MERCEDES BENZ 220 "SEb"

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

COMPONENT PARTS LIST

4077-093-67 Aerial Lead-in Cable (1) 48" overall

SPEAKER AND MOUNTING ACCESSORIES

7296-004-02 Speaker and Bracket Assy.
includes:-
4056-014-07 Speaker (1) 6"x4" type C64G36/10/15
7028-070-03 Bracket (1) driving side
7028-071-03 Bracket (1) passenger side
7198-127-19 Screw (4) $\frac{1}{2}$ "x $\frac{5}{32}$ " Whit. csk. hd.
7261-180-02 Washer (4) flat steel, $\frac{3}{8}$ "x $\frac{3}{16}$ "
7148-303-11 Nut (4) $\frac{5}{32}$ " Whit.
7262-510-01 Washer (4) shakeproof, $\frac{5}{32}$ " ext.
1171-023-08 Lead - 18" required
7171-015-01 Plug (1) on end of lead
7244-034-01 Terminal (2) on end of lead
7152-363-01 Captive nut (4) $\frac{3}{16}$ " Whit.
7261-180-02 Washer (4) flat steel, $\frac{3}{8}$ "x $\frac{3}{16}$ "
7198-178-20 Screw (4) $\frac{3}{8}$ "x $\frac{3}{16}$ " Whit. rd. hd.

RECEIVER MOUNTING ACCESSORIES

7055-425-02 Spacer Ring (2) control bush lock nuts
7173-042-03 Dial Pointer (1)
7169-296-02 Mount Plate (1)
7084-184-01 Escutcheon Assy. (1)
includes:-
7081-002-01 "Diamond Dot" emblem
7008-123-01 ASTOR metcal
7119-075-02 Insert (1) passenger side
7119-075-01 Insert (1) driving side
7150-854-20 Barrel Nut (2)
7261-484-02 Chrome Washer (2)
7027-625-03 Bracket (1) Rear
7201-079-08 Screw (1) $\frac{3}{8}$ "x No. 8 bdr. hd.
7261-164-02 Washer (1) flat steel, $\frac{9}{16}$ "x $\frac{11}{64}$ "
7201-080-07 Screw (1) $\frac{1}{2}$ "x No. 10 bdr. hd.
7261-218-04 Washer (1) flat steel, $\frac{9}{16}$ "x $\frac{7}{32}$ "
4071-010-01 Fuse (1) 3 Amp.
7113-001-01 Fuse Holder Body (1)
7225-012-02 Spring (1) fuse holder
7086-125-04 Contact (1) fuse holder
1169-051-08 Lead - battery, 30" required
7138-033-01 Clip (1) fuse holder anchor
7124-424-11 Knob (2) tuning and volume, front
7124-425-01 Knob (2) antiference and tone, rear
7138-007-01 Lug (1) on end of lead

INTERFERENCE ELIMINATION ACCESSORIES

4009-024-01 .5uF Capacitor (1) generator by-pass
4009-024-02 .5uF Capacitor (1) ignition coil by-pass
4021-012-01 Resistive Suppressor (1) screw-in type

COMPONENTS SUPPLIED WITH RECEIVER

7070-115-11 Dial Reading (1)
7065-011-01 Fuse Holder Cover (1)
7086-125-04 Contact (1) fuse holder
7119-046-01 Filler Bar (1) push button opening
7152-272-01 Speednut (2) filler bar fastening