

'diamond-dot'

CAR RADIO DIVISION, ELECTRONIC INDUSTRIES LTD.

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

SERVICE DATA

ASTOR - 5

File - ASTOR UNIVERSAL

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INSTALLATION INSTRUCTIONS FOR FITTING

ASTOR 12 VOLT UNIVERSAL CAR RADIO

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

and a

6 in. diameter speaker in a round housing

In addition to the selected receiver the installation requires:-

- Installation Accessory Package - Part No. 7281-108-06
- Aerial - 5 section, telescopic whip, top mount type - Part No. 4074-044-02
- or Aerial - 3 section, telescopic whip, side cowl type - Part No. 4074-035-02
- or Aerial - 5 section, telescopic whip, lock down fully retractable type - Part No. 4074-052-02

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

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

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

GENERAL: These car radio receivers have been designed for mounting between the lower lip of instrument panel and firewall. Two side mount brackets are supplied to fasten the receiver to the lower lip of instrument panel.

The rear of the receiver is to be supported by a metal bracket. This bracket has holes along its length; it may be shortened, bent or twisted to provide the most suitable support between the rear of receiver and the car firewall or a cross member.

The 6" dia. speaker encased in a moulded housing is to be mounted by the single rear stud provided.

THE AERIAL as selected is to be installed in accordance with the instructions supplied with aerial.

7135-273-78.

ASTOR UNIVERSAL FITTING - 6 in. round speaker

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

COMPONENT PARTS LIST

4077-093-68
7054-004-02

Aerial Lead-in Cable (1) 60" overall
Spiral Washer (1) aerial optional mount

SPEAKER AND MOUNTING ACCESSORIES

7296-027-02

Complete Assy.

includes:-

4056-003-09
7116-040-01
7006-097-05
7102-039-01
7028-241-03
7201-077-07
7198-030-21
7148-306-14
7261-370-01
7201-227-07
7152-661-01
7262-020-01
7106-044-01
1171-023-08
7171-015-01

Speaker (1) 6" dia. type 6M36/80/15
Housing (1)
Back Plate (1)
Gasket (1) back plate
Bracket (1)
Screw (3) $\frac{1}{2}$ "x No. 6 bdr.hd.
Screw (1) rear stud 2"x 5/16" Whit. hex. hd.
Nut (3) 5/16" Whit. hex.
Washer (3) flat steel, 1"x $\frac{3}{8}$ "
Screw (4) 7/8"x No.6 oval esk.hd., speaker to housing
Speednut (4) flat type, speaker to housing
Washer (2) shakeproof, 5/16" int.
Grommet (1) lead
Lead - 48" required
Plug (1) on end of lead

RECEIVER MOUNTING ACCESSORIES

7261-164-02
7201-079-08
7027-187-52
7027-187-02
7173-042-03
7084-147-01

Washer (5) flat steel, 9/16"x 11/64"
Screw (5) $\frac{3}{8}$ "x No. 8 bdr.hd.
Bracket (1) passenger side, front
Bracket (1) driving side, front
Dial Pointer (1)
Dial Escutcheon (1) chrome
includes:-

7081-001-01
7008-123-01
7084-277-02
7150-854-20
7261-484-02
7124-425-01
7124-424-11
7027-015-02
7198-178-22
7148-304-11
7262-012-01
7261-218-04
7198-029-23
7261-234-02
7262-016-01
7148-105-11
4071-010-01
7113-001-01
7225-012-01
7086-125-04
1169-051-08
7138-023-01
7220-002-01
7055-364-01

"diamond dot" emblem
"ASTOR" metcal
Black Escutcheon (1)
Barrel Nut (2)
Chrome Washer (2)
Knob (2) antiference and tone, rear
Knob (2) tuning and volume, front
Bracket (1) rear
Screw (2) 5/8"x3/16"Whit.rd.hd.
Nut (2) 3/16"Whit.
Washer (2) shakeproof, 3/16" int.
Washer (4) flat steel, 9/16"x7/32"
Screw (1) 1 $\frac{1}{4}$ "x $\frac{1}{4}$ "Whit.hex.hd.
Washer (2) flat steel, 1"x $\frac{1}{4}$ "
Washer (1) shakeproof $\frac{1}{4}$ "int.
Nut (1) $\frac{1}{4}$ "Whit.hex.
Fuse (1) 3 amp.
Fuse Holder Body (1)
Spring (1) fuse holder
Contact (1) fuse holder
Lead - 48" required
Terminal (1) on end of lead
Shroud (1) terminal
Clip (1) fuse holder support

INTERFERENCE ELIMINATION ACCESSORIES

4009-024-01
4009-024-02
4021-012-01
7138-074-01
7138-108-01

.5uF Capacitor, generator by-pass
.5uF Capacitor, ignition coil by-pass
Suppressor, screw-in type
Lug, large claw type, alternative connection generator by-pass
Lug, small claw type, alternative connection ignition coil by-pass

COMPONENTS SUPPLIED AS PART OF RECEIVER

7070-115-11
7119-046-01
7152-272-01
7065-011-01
7086-125-04
7124-366-01
7124-285-03

Dial Reading (1)
Filler Bar (1) Push Button opening in escutcheon
Speednut (2) filler bar fastening
Fuse Cover (1)
Contact (1) fuse cover
Knob (5) push button
Knob (1) aerial trimmer

AERIAL LEAD-IN CABLE:

- 1 Route lead-in cable to interior of car. NOTE: Check that cable does not foul any moving parts (windscreen wiper mechanism etc.)
- 2 A shroud grommet is supplied on the aerial lead-in cable and should be utilized when the cable is fed through a hole in metal wall.
- 3 Where necessary, drill a $\frac{1}{2}$ " dia. hole in metal wall. Feed cable through the hole in wall then insert body of shroud grommet into hole; pull through hole with a wriggling motion until head of grommet locates in and seals $\frac{1}{2}$ " hole.

THE RECEIVER: Select a mount position which will provide convenient operation of the controls without interfering with the functions of the car mechanisms.

- 1 Remove and discard dust shield from top front of receiver.
- 2 Fit dial pointer to carriage arm.
- 3 Fit dial reading to dial escutcheon. MANUAL RECEIVER ONLY: Fit filler bar to push button opening in escutcheon then securely fasten with speednuts.
- 4 Fit black escutcheon then dial escutcheon on to front of receiver. Fasten securely with chrome washers and barrel nuts.
- 5 Fit manual control knobs.
- 6 Place a side mount bracket on to each side of receiver so that the slot in large arm of bracket locates over thread forms in sides of receiver; the wide ends of brackets are to be toward the front of receiver and the arm which has a small slot is to be at the top and point away from receiver.
- 7 Fasten brackets with flat washers and $\frac{3}{8}$ "x No. 8 bdr.hd. screws. Fingertighten.
- 8 Locate slot in rear mount bracket over thread form in rear of receiver. Fasten loosely with a flat washer and a $\frac{3}{8}$ "x No.8 bdr. hd. screw.
- 9 Hold receiver against lip of panel in selected position for mounting.
- 10 Fashion rear mount bracket into a position which will allow one of the mount holes to be flat against the firewall or metal cross member. Check that there is sufficient clearance behind mount position to enable nut to be tightened.
- 11 Using receiver as a template, mark the positions of the slots in side mount brackets on to lip of panel also mark the position of the rear mount holes.
- 12 Remove receiver and drill a $\frac{7}{32}$ " dia. hole in lip of panel and a $\frac{9}{32}$ " dia. hole at position marked for rear mount. Clean off all paint and burrs from the metal around the holes for approx. $\frac{1}{2}$ " with emery paper.
- 13 Securely tighten the screws fastening front brackets to receiver then reposition receiver at the mount position.
- 14 Fasten brackets to panel with flat washers and $\frac{5}{8}$ "x $\frac{3}{16}$ " Whit.rd.hd.screws, then flat washers, shakeproof washers and $\frac{3}{16}$ " Whit. nuts. Leave fingertight.
- 15 With a flat washer under the head, insert a $\frac{1}{4}$ "x $\frac{1}{4}$ " Whit.hex.hd. screw through the selected hole in rear mount bracket and hole in firewall or cross member. Fasten loosely with a flat washer, shakeproof washer and a $\frac{1}{4}$ " Whit. nut.
- 16 Align receiver to panel then securely tighten the three mount screws.
- 17 Insert aerial lead-in cable into socket on passenger side of receiver.
- 18 Insert a 3 amp. fuse supplied into the fuse holder, connect fuse holder to fuse cover on end of lead from receiver. Connect free end of lead to battery side of headlamp or ignition switch, or to the radio or accessory terminal if provided on ignition switch or fuse block.

THE SPEAKER: 6"dia. permag in a moulded housing is to be mounted to the firewall or other suitable panel in a position which will not hinder the drivers' or passengers' feet. A stud protruding from rear of housing fastens the assembly to the selected position.

- 1 Determine a position for mounting. Check that nut on mount stud will be accessible for tightening also note that assembly will be clear of operating mechanisms and that speaker lead length is adequate.
- 2 Mark the position of stud then drill a $\frac{3}{8}$ " dia. hole at this position.
- 3 Remove the 5/16" Whit.hex.nut, shakeproof washer and two large flat washers from the mount stud.
- 4 Screw remaining nut on stud toward housing until face of nut nearest end of stud is 3/16" below ends of spacer bracket legs.
- 5 Refit one of the flat washers on to stud. Position assembly at the mount position with the stud protruding through $\frac{3}{8}$ "dia. hole.
- 6 Turn assembly so that spacer bracket is parallel to car floor then refit large flat washer, shakeproof washer and nut on to stud. Securely tighten nut.
- 7 Feed lead behind speaker and instrument panel to receiver. Insert plug on end of lead into receiver socket adjacent to battery lead entry.

INTERFERENCE ELIMINATION: No spark plug suppressors are required.

Distributor Suppressor: Some vehicles are equipped with resistive type plug leads which are identified with the words "TVRS"; RADIO SUPPRESSION or similar printed labels. DO NOT fit an external suppressor to vehicles so equipped.

Vehicles not so fitted are to have a screw-in type suppressor Part No. 4021-012-01 inserted 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.

Two claw type clips are supplied and are to be fitted to the by-pass capacitors when installing the components in vehicles fitted with push-on type connectors.

Generator Capacitor: .5uF Part No. 4009-024-01 (large hole in lug) connect lug on lead to the armature terminal, NOT THE FIELD TERMINAL. Loosen one of the mount bolts which fasten generator swivel mount bracket to engine block. Slide capacitor mount foot under head of bolt. NOTE: The capacitor is to be placed as far as possible away from exhaust manifold. Securely tighten bolt.

Ignition Coil Capacitor: .5uF Part No. 4009-024-02 (small hole in lug.) Connect lug to battery terminal of coil. Loosen one of the bolts fastening ignition coil mount bracket. Slide capacitor mount foot under head of bolt and securely tighten.

Reconnect leads to car battery.

AERIAL TRIMMER ADJUSTMENT: Raise aerial to half extended height, tune receiver to a weak station near 1000 Kc/s (approx. centre of dial.) Adjust knob on passenger side of receiver for maximum volume of signal. NOTE: If a fully retractable aerial is fitted, raise the large diameter outer tube until it is against stop in aerial base before adjusting trimmer.