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CAR RADIO DIVISION, ELECTRONIC INDUSTRIES LTD.

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SERVICE DATA

INSTALLATION INSTRUCTIONS FOR FITTING

ASTOR 12 VOLT UNIVERSAL CAR RADIO

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

and a 10" x 3" permag speaker in a moulded housing

ASTOR - 6

File - ASTOR UNIVERSAL

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In addition to the selected receiver the installation requires:-

Installation Accessory Package - P/No. 7281-108-05

Aerial - 5 section, telescopic whip, top mount type - P/No. 4074-044-02
or Aerial - 3 section, telescopic whip, side cowl type - P/No. 4074-035-02
or Aerial - 5 section, telescopic whip, lock down fully retractable type -
P/No. 4074-052-02

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

Before commencing installation disconnect 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, 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 10"x3" slot type speaker encased in a moulded housing is supplied with two types of mount brackets.

"L" shaped brackets are used when mounting the speaker assembly to the underside of receiver. A straight mount strap is used when mounting the speaker assy. to a flat surface at a convenient position.

THE AERIAL may be a fully retractable, telescopic whip type, a top mount, telescopic whip type or a side mount cowl mount telescopic whip type.

Aerial installation instructions are supplied in the selected aerial carton.

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 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: NOTE: When it is intended to mount the speaker assy. to the underside of the receiver, the speaker assy. is first attached with the "L" shaped brackets before receiver is mounted to car, Refer **SPEAKER** section for these instructions.

- 1 Fit dial pointer to carriage arm.
- 2 Fit dial reading to chrome escutcheon. MANUAL RECEIVER ONLY: To the push button opening fit filler bar then securely fasten with speednuts.
- 3 Fit plastic escutcheon, plated escutcheon, chrome washers and barrel nuts to receiver; securely tighten the barrel nuts. Fit manual control knobs to control spindles.
- 4 Place a flat washer on to a $\frac{3}{8}$ "x No.8 bdr. hd. screw; insert screw through slot in rear mount bracket into thread form in rear of receiver. Leave screw fingertight.
- 5 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 side of receiver; the wide end of bracket is to be toward the front end of receiver, and the arm which has a small slot is to be at the top and point away from receiver.
- 6 Place a flat washer on to each of four $\frac{3}{8}$ "x No.8 bdr. hd. screws; insert screws through slots in brackets into thread forms. Leave screws fingertight.
- 7 Hold receiver against lower lip of instrument panel in selected position for mounting.
- 8 Fashion rear mount bracket into a position which will allow one of the holes in bracket to be flat against firewall or a metal cross member. Make sure there is sufficient clearance on the other side of firewall or cross member to tighten the mount nut.
- 9 Using receiver as a template, mark the positions of the slots in side mount brackets on to lower lip of instrument panel; mark the position for the rear mount hole.
- 10 Remove receiver and drill a $\frac{7}{32}$ " hole at each of the positions marked for side mount brackets and a $\frac{9}{32}$ " hole at position marked for rear mount hole.
- 11 IMPORTANT: Clean off all paint and burrs from metal around the three mount holes for approx. $\frac{1}{2}$ " with emery paper or a sharp edged tool to ensure a good electrical contact. Lightly smear cleaned surfaces with lanoline.
- 12 Securely tighten the screws fastening side mount and rear mount brackets to receiver.
- 13 Place receiver in position for mounting.
- 14 Place a flat washer on to each of two $\frac{5}{8}$ "x $\frac{3}{16}$ " Whit. rd. hd. screws, insert screws through slots in side mount brackets and holes in lip of instrument panel. Place a flat washer, a sh/proof and a $\frac{3}{16}$ " Whit. nut on to each of the two screws. Leave nuts fingertight.
- 15 Place a flat washer under the head of a $1\frac{1}{4}$ "x $\frac{1}{4}$ " Whit. hex. hd. screw then insert through hole in rear mount bracket and hole in firewall or cross member, place a flat washer, a sh/proof washer and a $\frac{1}{4}$ " Whit. hex. nut on to screw. Leave nut fingertight.
- 16 Align receiver to desired position and securely tighten the three mount screws.
- 17 Insert plug on end of aerial cable into socket on passenger side rear corner of receiver.
- 18 Insert the 3 amp. fuse supplied into the moulded fuse holder, connect fuse holder to fuse cover on end lead from receiver; connect free end of lead to battery side of headlamp switch, battery side of ignition switch, or to the radio terminal on the terminal box if a radio terminal is provided.

SPEAKER ASSY. MOUNTED TO UNDERSIDE OF RECEIVER

- 1 Place speaker assy. on a flat surface with speaker grille toward the operator and the moulded insert at rear of speaker housing uppermost.
- 2 Place the "L" shaped brackets on top of speaker housing so that the formed holes in short arm of mount brackets locate into the countersunk holes in speaker housing, the arms of brackets which contain a slot are to be toward each end and above speaker housing.

- 3 Insert two $\frac{1}{2}$ "x $\frac{3}{16}$ " Whit. csk. hd. screws through the holes in mount brackets and speaker housing. Place a large flat washer, a sh/proof washer and a $\frac{3}{16}$ " Whit nut on to each of the screws. Securely tighten screws.
- 4 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 side of receiver; the wide end of bracket is to be toward front end of receiver and the arm which has a small slot is to be toward the top and point away from receiver.
- 5 Place a flat washer on to each of two $\frac{3}{8}$ "x No. 8 bdr. hd. screws. Insert screws through slots in mount brackets into thread form nearest to control knob end of receiver. Leave screws fingertight.
- 6 Place speaker assy. beneath receiver so that the slots in upright arms of mount brackets locate over the slots in side mount brackets and thread forms toward centre of receiver.
- 7 Place a flat washer on to each of two $\frac{3}{8}$ "x No.8 bdr. hd. screws. Insert screws through slots in speaker mount brackets, slots in side mount brackets into thread forms attached to sides of receiver. Leave screws fingertight.
- 8 Place a sh/proof washer and a flat washer under the head of the $\frac{3}{8}$ "x No.8 bdr.hd. screw supplied, then insert screw through slot in rear mount bracket into thread form in rear of receiver. Leave screws fingertight.
- 9 Insert plug on end of speaker lead into receiver socket adjacent to battery lead entry.
- 10 Proceed to install the receiver as detailed in paras. 7 to 18, of the RECEIVER.

TO MOUNT SPEAKER ASSY. ON A FLAT SURFACE:

- 1 Select a position in the car to mount the speaker.
- 2 Make sure there is sufficient length of speaker lead for connection to the receiver. The speaker leads may be lengthened.
- 3 Place the mount strap on to speaker housing so that the formed holes in mount strap locate into the two holes in housing.
- 4 Insert two $\frac{1}{2}$ "x $\frac{3}{16}$ " Whit. csk. hd. screws through holes in mount strap and holes in housing. Place a large flat washer, sh/proof washer and a $\frac{3}{16}$ " Whit. nut on to each of the screws. Securely tighten screws.
- 5 Place speaker in the selected mount position and mark position of slots in mount strap on to the surface to which speaker assy. is to be mounted.
- 6 Remove the speaker assy. and drill a $\frac{9}{64}$ " hole at each of the positions marked.
- 7 Reposition the speaker assy. then place a flat washer on to each of two 1"x No.8 bdr. hd. screws, insert screws through slots in mount bracket into the $\frac{9}{64}$ " holes. Securely tighten screws.
- 8 Insert plug on end of speaker lead into receiver socket adjacent to battery lead entry.

INTERFERENCE ELIMINATION: No spark plug suppressors are required.

Distributor suppressor: Insert a screw-in type suppressor, P/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 well fitted 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 positions for the by-pass capacitors must be entirely free of paint and varnish to ensure a good electrical contact. Lightly smear cleaned surfaces with petroleum jelly.

Generator Capacitor: .5uF Part No. 4009-024-01, (large hole in lug.) Loosen the front bolt of the two 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 from exhaust manifold. Securely tighten bolt. Connect lug on end of lead to the armature terminal NOT THE FIELD TERMINAL.

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

Reconnect leads to car battery.

AERIAL TRIMMER ADJUSTMENT: Raise aerial to half extended height. NOTE: If a fully retractable aerial is fitted raise 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.

ASTOR UNIVERSAL FITTING 10" x 3" oval speaker

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

COMPONENT PARTS LIST

4077-093-68 Aerial Lead-in Cable (1) 60" overall
7054-004-02 Spiral Washer (1) aerial optional mount

SPEAKER AND MOUNTING ACCESSORIES

7296-029-02 Speaker and Housing Assy. (1)
includes:-
74056-010-04 Speaker (1) 10"x3" permag type 103G36/13/15
7116-004-01 Housing
7201-227-06 Screw (4) 5/8"x No. 6 oval csk.
7152-661-01 Speednut (4) No. 6
4077-174-06 Lead Assy. (1)
includes:-
1171-023-08 Lead - 48" required
7171-015-01 Plug (1)
7244-034-01 Terminal (2)
7027-186-02 Bracket (2) "L" shape
7229-012-02 Mount Strap (1)
7201-079-09 Screw (2) 1"x No.8 bdr. hd.
7198-128-14 Screw (2) 1/2"x 3/16" Whit. csk. hd.

RECEIVER MOUNTING ACCESSORIES

7261-164-02 Washer (5) flat steel, 9/16"x 11/64"
7201-079-08 Screw (5) 3/8"x No.8 bdr. hd.
7027-187-52 Bracket (1) passenger side, front
7027-187-02 Bracket (1) driving side, front
7173-042-03 Dial Pointer (1)
7084-147-01 Dial Escutcheon (1) chrome
includes:-
7081-001-01 "diamond dot" emblem
7008-123-01 "ASTOR" metcal
7084-277-02 Black escutcheon (1)
7150-854-20 Barrel Nut (2)
7261-484-02 Chrome Washer (2)
7124-425-01 Knob (2) antiference and tone, rear
7124-424-11 Knob (2) tuning and volume, front
7027-015-02 Bracket (1) rear
7198-178-22 Screw (2) 5/8"x 3/16" Whit. rd. hd.
7148-304-11 Nut (2) 3/16" Whit.
7262-012-01 Washer (2) shakeproof, 3/16" int.
7261-218-04 Washer (4) flat steel, 9/16"x 7/32"
7198-029-23 Screw (1) 1 1/4"x 1/4" Whit. hex. hd.
7261-234-02 Washer (2) flat steel, 1"x 1/4"
7262-016-01 Washer (1) shakeproof 1/4" int.
7148-105-11 Nut (1) 1/4" Whit. hex.
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 - 48" required
7138-023-01 Terminal (1) on end of lead
7220-002-01 Shroud (1) terminal
7055-364-01 Clip (1) fuse holder support

INTERFERENCE ELIMINATION ACCESSORIES

4009-024-01 .5uF Capacitor, generator by-pass
4009-024-02 .5uF Capacitor, ignition coil by-pass
4021-012-01 Suppressor, screw-in type
7138-074-01 Lug, large claw type, alternative connection generator by-pass
7138-108-01 Lug, small claw type, alternative connection ignition coil by-pass

COMPONENTS SUPPLIED AS PART OF RECEIVER

7070-115-11 Dial Reading (1)
7119-046-01 Filler Bar (1) push button opening in escutcheon
7152-272-01 Speednut (2) filler bar fastening
7065-011-01 Fuse Cover (1)
7086-125-04 Contact (1) fuse cover
7124-366-01 Knob (5) push button
7124-285-03 Knob (1) aerial trimmer