

# 'diamond-dot'

CAR RADIO DIVISION, ELECTRONIC INDUSTRIES LTD.

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

## SERVICE DATA

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### AUSTIN HEALEY "SPRITE" MK III

#### INSTALLATION INSTRUCTIONS FOR FITTING

#### BMC 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 B.M.C. Part No. HYL 3635

Aerial - 5 Section, telescopic whip, top mount type, B.M.C. Part No. HYL 0426

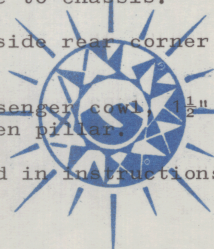
**WARNING:** BATTERY CONNECTION OF INCORRECT POLARITY WILL DAMAGE THE RECEIVER.

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, positive to chassis, "-" position, negative to chassis.

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

THE AERIAL is to be mounted on top of passenger cowl,  $\frac{1}{2}$ " from cowl-fender junction and  $3\frac{1}{2}$ " inward from inside tip of windscreen pillar.

Continue installation of aerial as detailed in instructions supplied with aerial.





THE SPEAKER 10"x 3" assembled into a moulded housing is to be mounted beneath the central instrument panel. A plate attached to the housing supports it between the lip of panel and a flange on the firewall.

- 1 Locate the speaker assy. under the centre of the instrument panel so that mount plate at rear of housing rests on top of firewall flange with the small clips on the plate beneath the flange.
- 2 Press housing toward firewall then mark position of hole in front of mount plate on to lip of instrument panel.
- 3 Withdraw assy. and drill a  $\frac{1}{4}$ " dia. hole in lip of instrument panel at the position marked.
- 4 With the flat surface toward floor, fit a No. 10 captive speednut over the  $\frac{1}{4}$ " hole.
- 5 Reposition speaker assy. and fasten securely to panel with a  $\frac{1}{2}$ "x No. 10 mushroom hd. screw.

THE RECEIVER is mounted beneath the instrument panel on the passenger side of the centre panel. A bracket supports the rear to the firewall and a "U" bracket fastens the front to lip of panel.

- 1 From engine side of firewall mark a position for the rear mount screw of receiver bracket. Measure  $5\frac{1}{8}$ " toward front of car from the firewall below the car identification plate and  $2\frac{1}{4}$ " toward battery from the driving side edge of the left hand drive cover plate.
- 2 Drill a  $7/32$ " dia. hole at the position marked. Clean off all paint and burrs from the metal around the underside of hole for approx.  $\frac{1}{2}$ " with emery paper.
- 3 Remove and discard dust shield from top front of receiver.
- 4 Fit dial pointer to carriage arm.
- 5 Fit dial reading to dial escutcheon. MANUAL RECEIVER ONLY: Fit filler bar to push button opening in escutcheon. Fasten securely with speednuts.
- 6 Place front cover escutcheon and dial escutcheon on to front of receiver. Fasten securely with chrome washers and barrel nuts then fit manual control knobs.
- 7 Locate slot in rear bracket over tapped hole in rear of receiver. Leg of bracket containing speednut is to be at top and pointing away from receiver.
- 8 Fasten bracket securely with a flat washer and a  $\frac{3}{8}$ "x No. 8 bdr. hd. screw.
- 9 Place "U" bracket on top of receiver. Fasten loosely to receiver with flat washer and  $\frac{3}{8}$ "x No. 8 bdr. hd. screws.
- 10 Place receiver beneath passenger side instrument panel. Fasten at rear with a flat washer and a  $\frac{3}{4}$ "x No. 10 bdr. hd. screw through hole in firewall.
- 11 Raise front of receiver and mark the lip of panel corresponding to holes in "U" shaped bracket.
- 12 Withdraw receiver from mount position and drill  $7/32$ " dia. holes in panel lip.
- 13 Remove "U" shaped bracket from receiver. Place bracket against lip of panel and fasten securely with  $5/8$ "x  $3/16$ " Whit. rd. hd. screws, flat washers, shakeproof washers and nuts.
- 14 Reposition receiver. Fasten rear mount bracket and front mount bracket as previous. Securely tighten all screws.
- 15 Insert plug on lead-in cable into socket on passenger side rear corner of receiver.
- 16 Insert plug on speaker lead into receiver socket adjacent to battery lead entry.
- 17 Insert fuse into fuse holder then connect to fuse cover on receiver lead. Feed free end of battery lead across to driving side then through main harness grommet to vehicle fuse block. Connect to terminal No.1 on fuse block.

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 the suppressor, and that good contact is made. Securely bind both ends of suppressor to the lead with adhesive tape.

NOTE: The contacting 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 surface with lanoline.

GENERATOR: .5uF capacitor. Part No. 4009-024-38 (large claw type lug.)  
Remove shroud from armature terminal connector. Slide lug on lead from capacitor on to connector then refit shroud. Loosen one of the bracket bolts of generator. Slide mount foot of capacitor under head of bolt and securely tighten.

Ignition Coil: .5uF capacitor. Part No. 4009-024-04 (small slide type lug.)  
Connect lug to vacant terminal of coil. Loosen one of the mount bracket bolts of coil. Slide mount foot of capacitor 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 (approximately centre of dial) adjust trimmer for maximum volume of signal.

# AUSTIN HEALEY "SPRITE" MK III

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

### COMPONENT PARTS LIST

4077-093-66 Aerial Lead-in Cable (1) 36" overall

### SPEAKER AND MOUNTING ACCESSORIES

7296-001-02 Speaker and Housing Assy (1) black  
consists of:  
4056-010-04 Speaker (1) 10"x 3" permag type 103G36/13/15  
7116-004-01 Housing (1) black  
7201-227-06 Screw (4) 5/8"x No. 8 oval csk. hd. chrome  
7152-661-01 Speednut (4) flat type No. 8  
4077-174-03 Lead assy. (1)  
includes:  
7071-015-01 Plug (1)  
1171-023-08 Lead - 30" required  
7244-034-01 Terminal (2)  
7169-480-01 Mount Plate Assy (1)  
7229-005-02 Metal Strip (1) mount plate to housing  
7152-754-01 Speednut (2) No. 10 captive, short  
7201-080-04 Screw (2) 3/4"x No. 10 bdr. hd.  
7152-754-03 Speednut (1) No. 10 captive long  
7201-330-11 Screw (1) 1/2"x No. 10 mushroom hd.

### RECEIVER AND MOUNTING ACCESSORIES

7173-042-04 Dial Pointer (1)  
7152-752-01 Speednut (2) No. 6 captive  
7084-277-02 Cover Escutcheon (1) black  
7084-147-31 Dial Escutcheon (1)  
includes:  
7081-001-01 "Diamond Dot" emblem  
7008-123-04 B.M.C. metcal  
7261-484-02 Chrome washer (2)  
7150-854-20 Barrel Nut (2)  
7027-602-02 Bracket (1) rear, "L" shaped  
7152-754-01 Speednut (1) No. 10 captive  
7261-218-04 Washer (3) flat steel, 9/16"x 7/32"  
7262-512-01 Washer (2) shakeproof, 3/16" ext.  
7028-638-03 Bracket (1) "U" shaped  
7261-164-02 Washer (3) flat steel, 9/16"x 11/64"  
7201-079-08 Screw (3) 3/8"x No. 8 bdr. hd.  
7201-080-04 Screw (1) 3/4"x No. 10 bdr. hd.  
7198-178-22 Screw (2) 5/8"x 3/16" Whit. rd. hd.  
7148-304-11 Nut (2) 3/16" Whit. hex.  
4071-010-01 Fuse (1) 3 Amp.  
4077-175-40 Lead Assy. (1) Battery  
includes:  
1169-051-08 Lead - 60" required  
7059-001-01 Terminal (1)  
7220-002-01 Shroud (1) terminal  
7113-001-01 Fuse Holder Body (1)  
7225-012-02 Spring (1) Fuse Holder  
7086-125-04 Contact (1) Fuse Holder

### INTERFERENCE ELIMINATION ACCESSORIES

4021-012-01 Suppressor (1) distributor  
4009-024-38 .5uF capacitor (1) generator by-pass  
4009-024-04 .5uF capacitor (1) ignition coil by-pass

### COMPONENTS SUPPLIED WITH RECEIVER

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