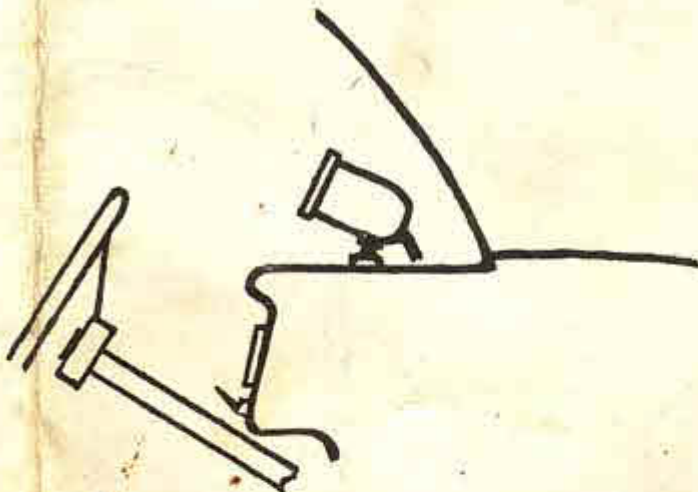


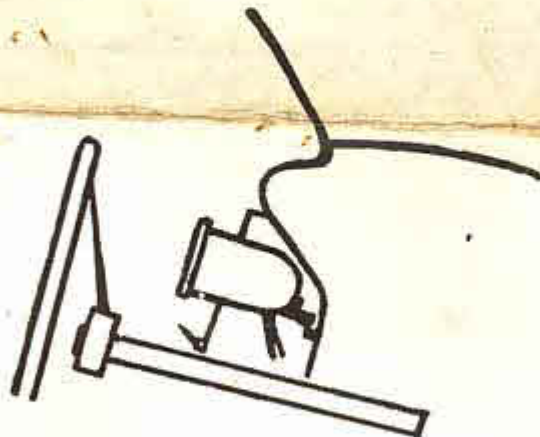
TACHOMETER COWL
SOME EXAMPLES OF MOUNTING POSITIONS

ON TOP OF DASH.

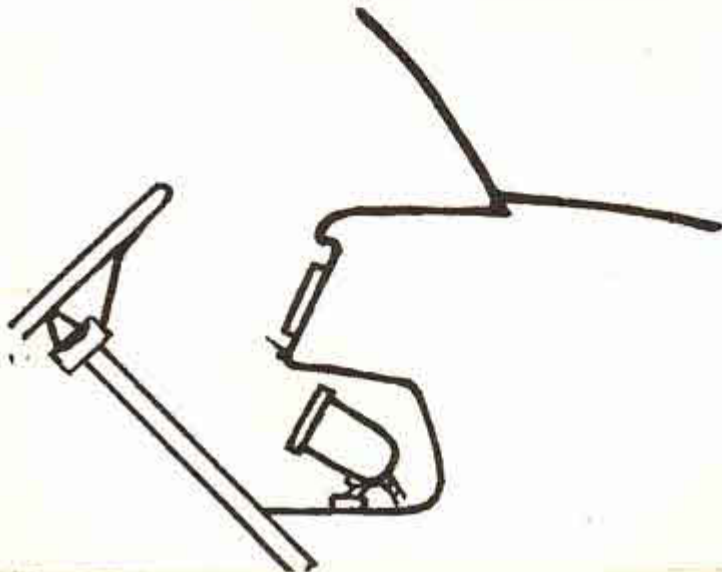


MOUNTED THROUGH DASH

(NOTE: Change of position
of wiring loom and
socket in tachometer
cowl).

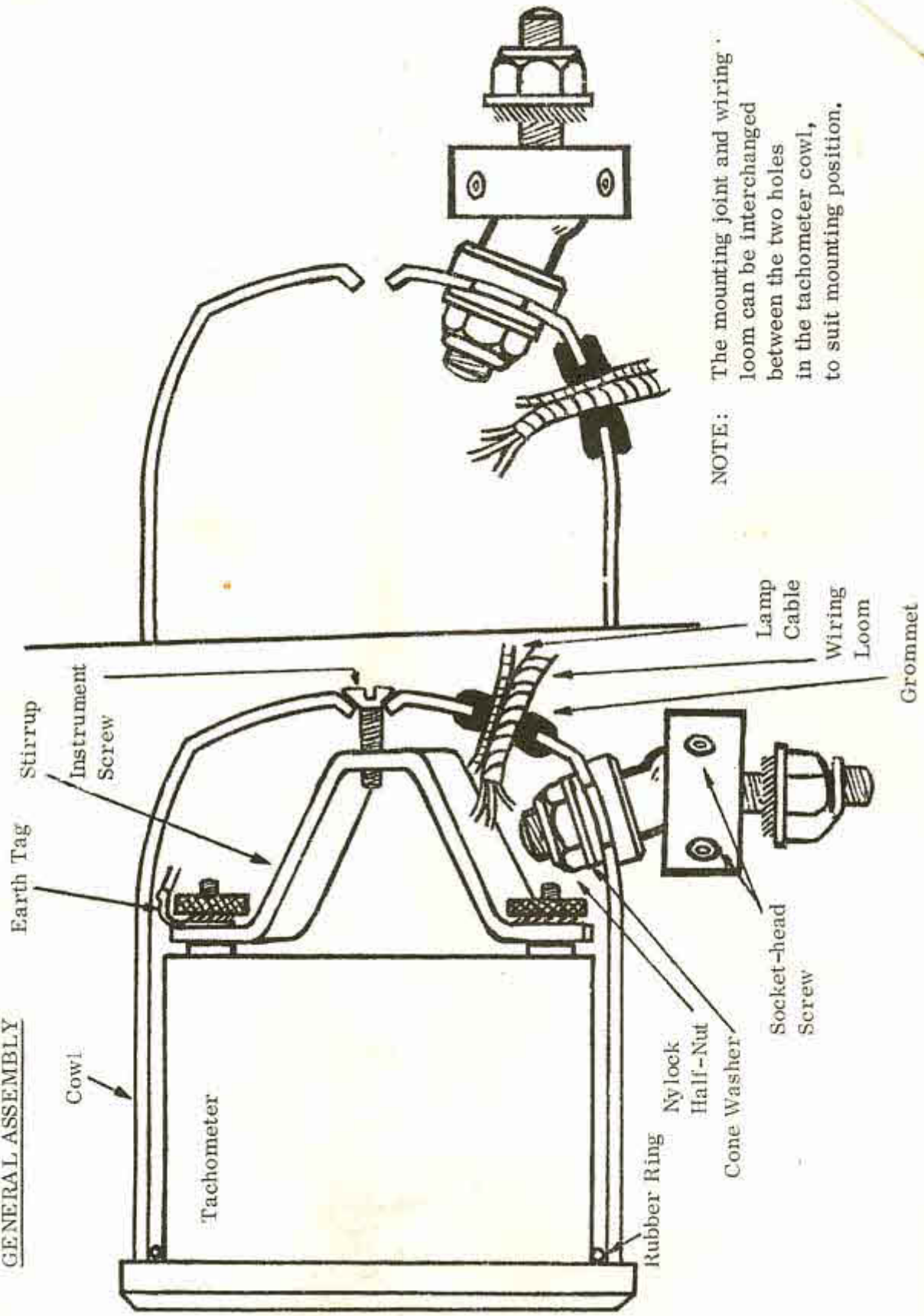


ON PARCEL SHELF.



TACHOMETER COWL

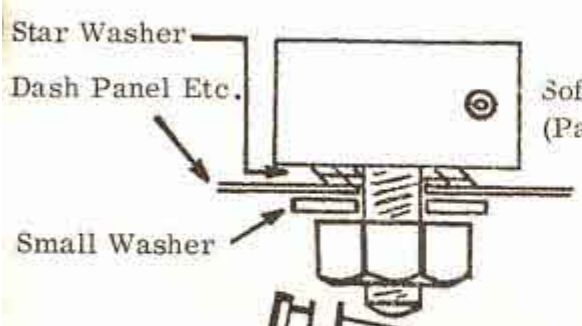
GENERAL ASSEMBLY



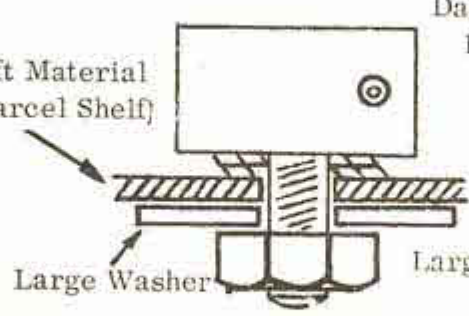
NOTE: The mounting joint and wiring loom can be interchanged between the two holes in the tachometer cowl, to suit mounting position.

TACHOMETER COWL

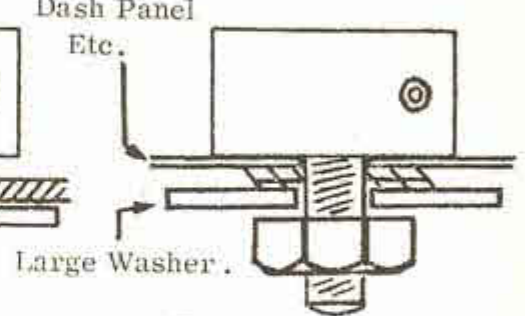
SOME EXAMPLES OF MOUNTING METHODS.



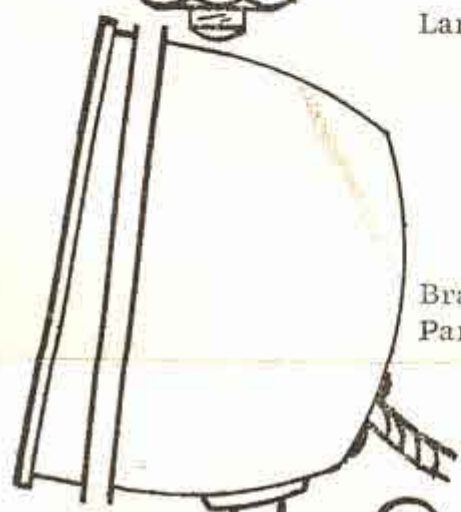
Soft Material
(Parcel Shelf)



Dash Panel
Etc.

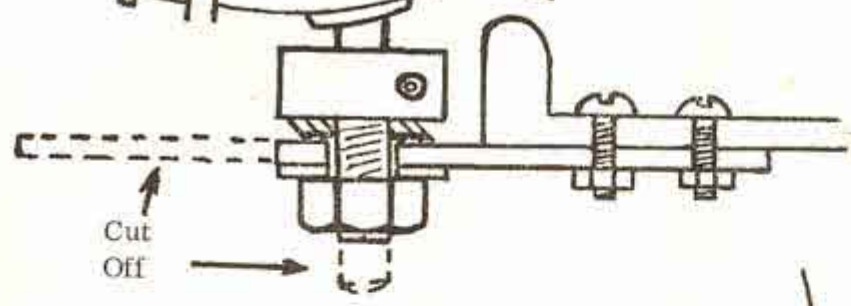


For use where Star Washer is required not to be seen.



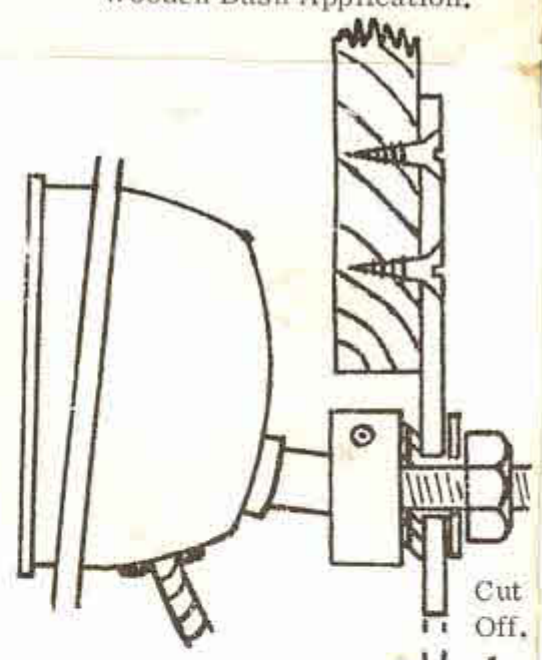
Bracket used in Parcel Shelf Application.

Bracket used in Wooden Dash Application.

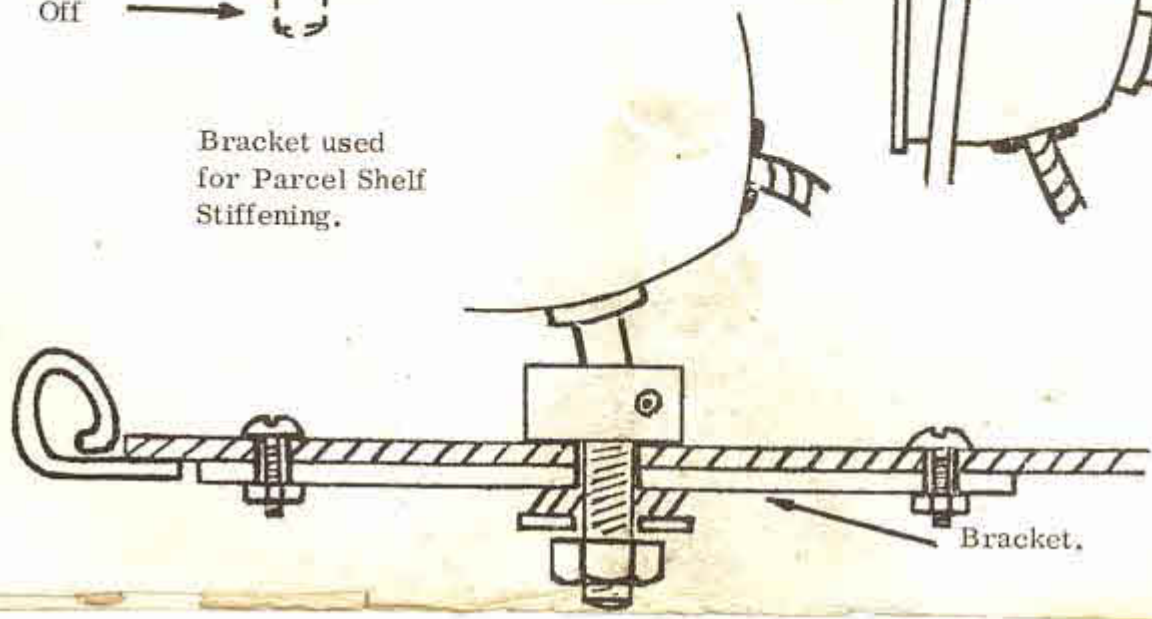


Cut Off

Bracket used for Parcel Shelf Stiffening.



Cut Off.



Bracket.

The following instructions apply to the Speedwell standard tachometer and wiring loom. Where a Smith's tachometer is to be used, the mechanical assembly of instrument and cowl is similar, but the wiring should be carried out in accordance with instructions issued with the Smith's instrument.

1. Pass instrument end of loom (see fitting instruction No. 57, supplied with Speedwell standard tachometer) into cowl through one of the 13/32" diameter holes. The hole chosen is dependent on mounting position in vehicle (see diagrams). If internal illumination is required, remove bulb holder from tachometer and pass cable through same hole from inside cowl. Continue cable through grommet on main loom and position grommet in hole in cowl.
2. Position threaded stud on ball into remaining 13/32" diameter hole. From inside cowl, place cone washer, with cone face to cowl, on to stud followed by 3/8" U. N. F. Nylock half nut and securely tighten. This will necessitate mounting the ball in soft jaws of a vice and tightening nut with a cranked ring spanner.
NOTE:- Ball is not hardened and damage will result if mounted in metal jaws of vice.
3. Connect up wiring loom to tachometer as per fitting instructions No. 57, shortening white wire to approximately 1" either side of tachometer connection.
4. Position stirrup (supplied) on tachometer mounting studs and tighten knurled finger nuts.
5. Check push on connections for insulation and position excess wiring between tachometer and stirrup. Position dial to required location and fit instrument into cowl gently pulling excess wiring loom out through grommet. Check rubber ring for correct location, (see diagrams).
6. Align threaded hole in stirrup with countersunk hole on rear face of cowl and fit instrument-headed screw. Check position of instrument face, which is dependent on mounting position, and tighten screw.
7. Start the two socket headed screws in the tapped holes of the socket part of the swivel joint. Assembly to ball and loosely tighten screws.

FITTING INSTRUCTION NO. 119 (continued).

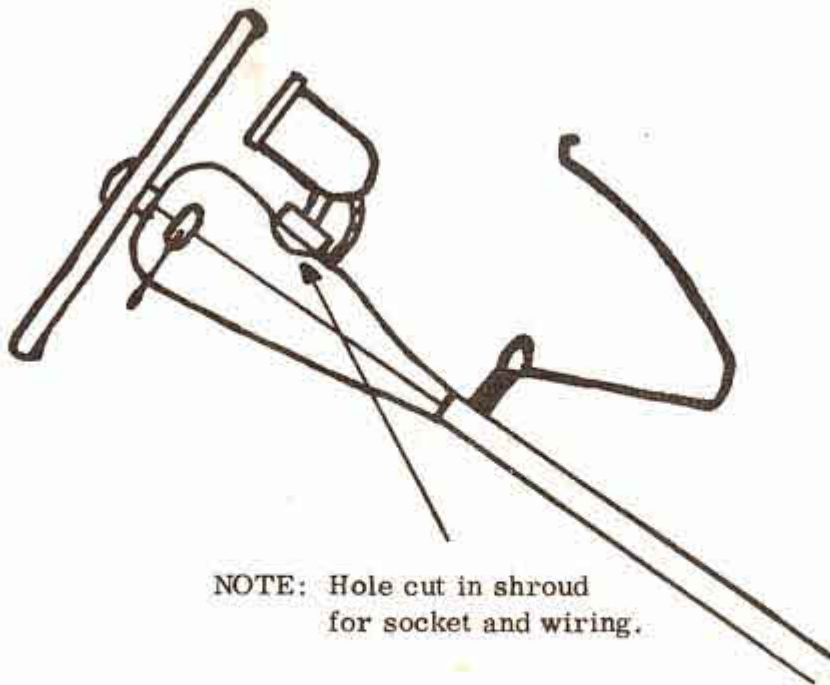
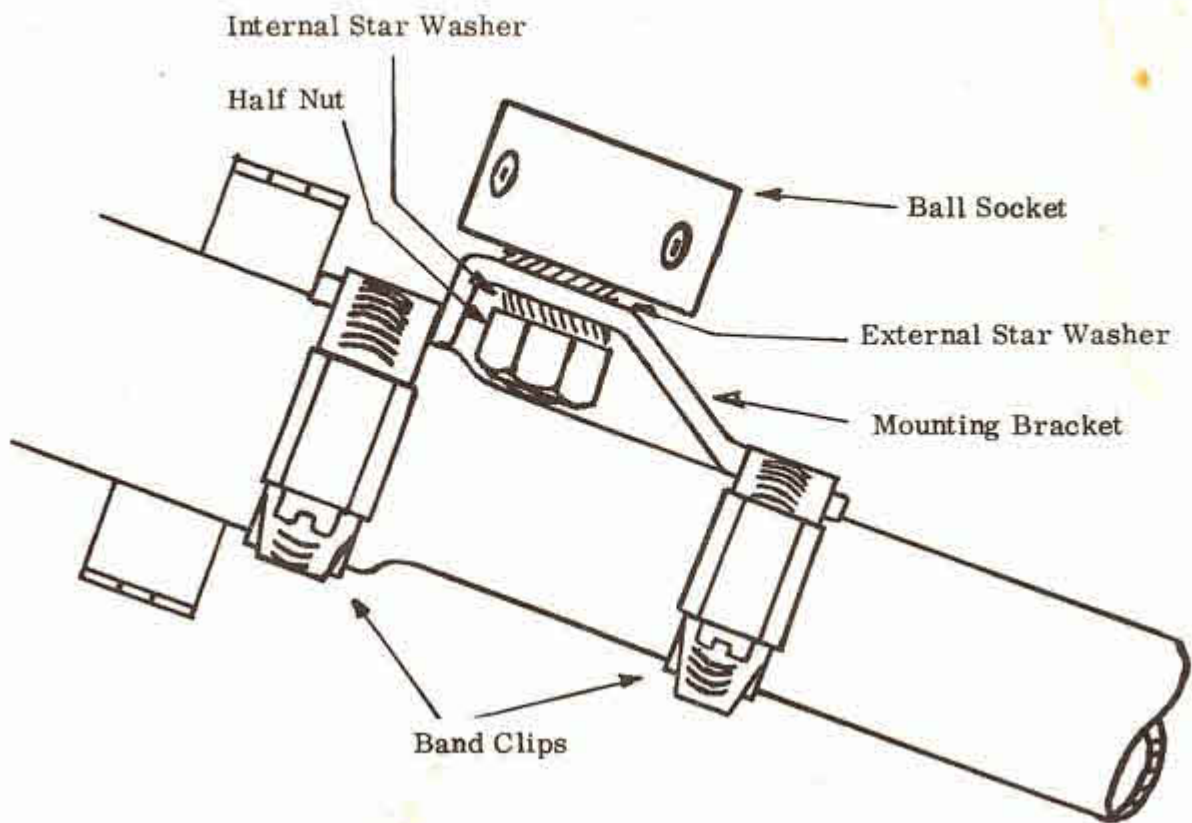
8. Select suitable mounting point on vehicle either for swivel joint stud or mounting bracket (supplied). The mounting bracket can be set or cut to any desired shape. If mounting by stud only, drill 13/32" diameter hole. Remove socket part of joint from ball and mount to vehicle. Socket can be held while tightening nut, by inserting Allen key into socket screw. Mount washers etc. on to stud as in diagram. The mounting bracket can be drilled and fitted as per individual requirements.
9. Mount ball on cowl into socket, position and tighten socket headed screws. Wire up as per fitting instruction supplied with the tachometer.
10. A special kit of parts, comprising bracket, clips, nuts etc., is available for steering column mounting of the cowl on all B.M.C. Minis. This is available from Speedwell Performance Conversions Ltd., under Part No. ITP.14.

TACHOMETER COWL

PARTS LIST

ITEM	DESCRIPTION	PART NO.	QTY.
1.	Tachometer Cowl	ITP. 13A	1
2.	Socket	ITPA. 75	1
3.	Ball	ITPA. 76	1
4.	Cone Washer	ITPA. 77	1
5.	Socket Screws	ITPA. 78	2
6.	Allen Key	ITPA. 79	1
7.	Stirrup	ITPA. 80	1
8.	Mounting Bracket	ITPA. 81	1
9.	Instrument Screw	-	1
10.	Nylock Half Nut 3/8" U. N. F.	-	1
11.	Nylock Nut, 3/8" U. N. F.	-	1
12.	Washer 3/8" Star, External	-	1
13.	Washer 3/8" Plain	-	1
14.	Washer 3/8" Large O.D.	ARP. 6	1
15.	Fitting Instruction	No. 119	1

NOTE:- Loom with grommets is part of tachometer kit.



NOTE: Hole cut in shroud for socket and wiring.

With mounting strip supplied in cowl kit, a bracket can be made, similar to above diagram, for column mounting of tachometer cowl.