

Lead No.	Basic color	Color coding color	Wiring position	Emerges at cable sheaf No.	Terminal	Fuse box connection No.	Cross-section of lead in mm <sup>2</sup>
<b>Cable Sheaf 35 at Flash Signal (With Parking Light), Front, Right</b>							
67	green	—	from toggle switch for parking light to parking light, front, right	15	—	—	0.5
33	brown	—	from flash signal, right, to ground	33	—	—	1.0
14	black	green	from cable connector – steering – to flash signal, front, right	28	—	—	1.0
<b>Cable Sheaf 36 at Regulator</b>							
72	blue	—	from regulator to steering lock (charging light)	7	61	—	1.0
54	red	—	from starter to regulator	37	51	—	2.5
<b>Cable Sheaf 37 at Starter</b>							
25	black	red	from starter push-button switch to starter	12	50	—	2.5
53	red	—	from starter to rotary light switch	14	30	—	4.0
54	red	—	from starter to regulator	36	51	—	2.5

**Note:** It is possible that changes may be made in the color coding system of the individual leads. In this case, the change can easily be seen from a study of the circuit diagram of the main wiring harness (see Fig. 54—1/1).

## C. Removal and Installation of Main Wiring Harness

The cable sheaf and lead numbers shown in the following text all refer to Section A, Fig. 54—1/1.

### Removal:

- Remove the hood (see Job No. 88—6).
- Remove the battery (see Job No. 54—9).
- Remove the cowl insulation panel in the engine compartment (see Job No. 68—2).
- Remove the air duct with heat exchangers, left and right (see Job No. 83—5).
- Remove the scoops with blowers, left and right (see Job No. 83—4).
- Remove both headlights and disconnect Leads Nos. 38, 43, 77 and 64 at headlight left, and Nos. 42, 76, 63 and 35 at headlight right (see Job No. 82—1, Section A). Pull back the Cable Sheaves 20 (left) and 22 (right) into the engine compartment (Fig. 54—1/2).
- Disconnect Cable Sheaf 21 with Leads Nos. 15 and 36 at the fog light (see Job No. 82—19).
- Disconnect Cable Sheaf 25 with Leads Nos. 1 and 2 at horn (see Job No. 54—15).
- Unscrew the two cable sheaf clips on the front cross tube.
- Disconnect Cable Sheaf 26 with Leads Nos. 19 and 20 and Ground Lead No. 37 from Cable Sheaf 27 at cable connector (1) for the heater blower, left.  
Disconnect Cable Sheaf 27 with Ground Leads Nos. 37, 38 and 40 at clip (5) and remove the clip (5) (Fig. 54—1/2).

11. Disconnect Cable Sheaf **23** with Lead No. 20 and Ground Lead No. 34 from Cable Sheaf **24** at cable connector for the heater blower, right. Disconnect Cable Sheaf **24** with Ground Leads Nos. 34, 35 and 36 at the clip and remove the clip.
12. Disconnect Cable Sheaf **29** with Lead No. 21 at the ignition coil (4) (see Fig. 54 — 1/2).
13. Disconnect Cable Sheaf **23** with Leads Nos. 2, 12, 13, 14, 22, 23 and 40 at cable connector (3) for steering tube cable harness (6) (see Fig. 54 — 1/2).
15. Disconnect Cable Sheaf **19** with Leads Nos. 3 and 4 at the brake light switch (see Job No. 54 — 13).
16. Remove the foot dimmer switch at toe-board and disconnect Cable Sheaf **18** with Leads Nos. 61, 62 and 75 (see Job No. 54 — 14). Pull Cable Sheaf **18** through the cowling into the engine compartment.
17. Disconnect Cable Sheaf **31** with Ground Leads Nos. 31, 32, 30, 28, 41 and 39 at the fixing clip (1) at the cowling. Remove the fixing clip (1) (Fig. 54 — 1/3).

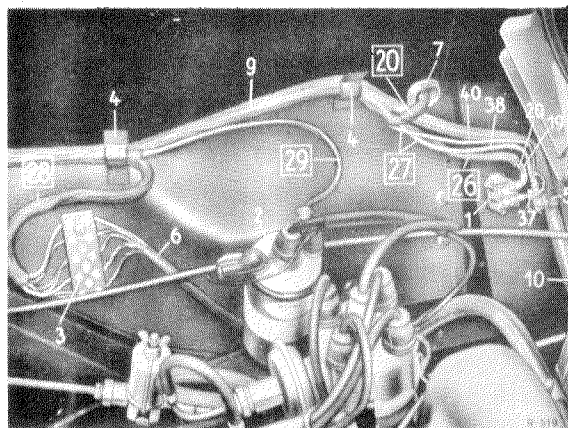


Fig. 54 — 1/2

- 1 Cable connector for heater blower at left wheel arch assembly
- 2 Ignition coil
- 3 Cable connector for steering tube cable harness
- 4 Fixing clip
- 5 Fixing clip
- 6 Cable harness steering tube
- 7 Rubber grommet
- 9 Cable arm
- 10 Cable arm
- 19 Black/yellow/red cable (Lead No. 19) from toggle switch for blower to cable connector, blower, left
- 20 Black/yellow/red cable (Lead No. 20) from cable connector, blower, left, to cable connector, blower, right
- 37 Brown cable (Lead No. 37) from cable connector, blower, left, to ground
- 38 Brown cable (Lead No. 38) from headlight, left, to ground
- 40 Brown cable (Lead No. 40) from cable connector, steering to ground

The figures in white squares are the numbers of the individual cable sheaves (see Sections A and B).

14. Disconnect Cable Sheaf **30** with Leads Nos. 50 and 51 at the cable connector for the reversing light switch and take it out of the fixing clip (1) at the cowling (see Fig. 54—1/4).

**Note:** The cable connector of the reversing light switch is fixed to the bearing assembly for the shift linkage.

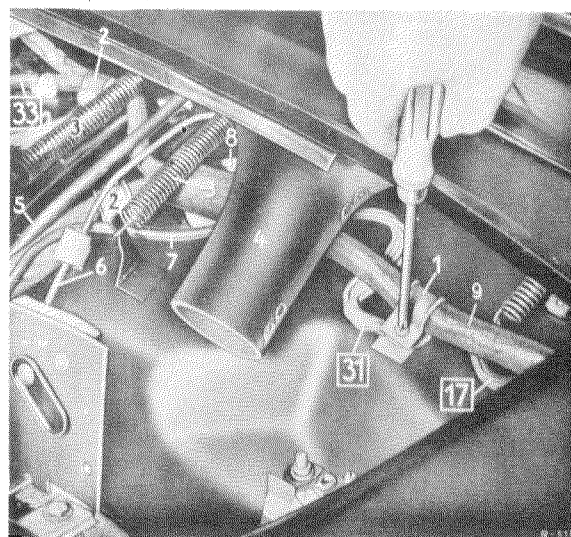


Fig. 54 — 1/3

- 1 Fixing clip
- 2 Fixing clip
- 3 Tension spring
- 4 Defroster jet
- 5 Flexible drive shaft for speedometer
- 6 Oil pressure gage line
- 7 Capillary tube for radiator thermometer
- 8 Rubber grommet
- 9 Cable arm

The figures in white squares are the numbers of the individual cable sheaves (see Sections A and B).

18. Remove the left and right flash signals with parking lights (see Job No. 82 — 3). Disconnect Cable Sheaf **17** (left) with Leads Nos. 13, 39 and 68 and also Cable Sheaf **35** (right) with Leads Nos. 14, 33 and 67 and pull the Cable Sheaf through the wheel arch assembly into the engine compartment (Fig. 54 — 1/4).

19. Remove the bracket for the fuse box (see Job No. 68 — 3, Para 6).

Disconnect the leads to the fuse box (see Job No. 54—0, Section D).

20. Disconnect Cable Sheaf **1** with Leads Nos. 28, 66, 12 and 11 at the flash signal mechanism (see Job No. 54—16, Section A).
21. Disconnect Cable Sheaf **4** with Leads Nos. 27, 65 and 26 at the upper beam flash signal mechanism (see Job No. 54—16, Section B).
22. Take apart the plug at Cable Sheaf **32** for the instrument cluster together with Leads Nos. 73, 74, 17, 31, 45, 66, 5 and 71 and pull it out (see Job No. 54—11, Section A).

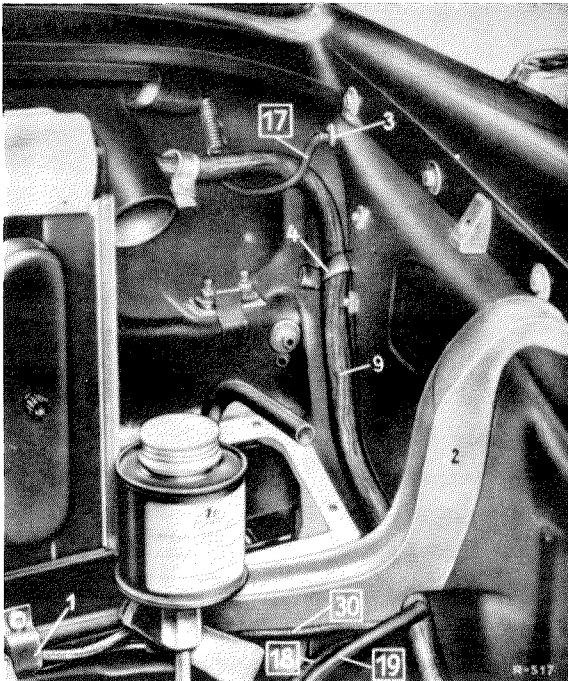


Fig. 54—1/4

- 1 Fixing clip
- 2 Seal, left, at wheel arch assembly
- 3 Rubber grommet
- 4 Fixing clip
- 9 Cable arm

The figures in white squares are the numbers of the individual cable sheaves (see Sections A and B).

23. Disconnect Cable Sheaf **33** with Leads Nos. 7, 8, 29, 33 and 32 at windshield wiper motor (see Job No. 82—4).
24. Remove the clock on the instrument panel (see Job No. 54—12) and disconnect Cable Sheaf **34** with Leads Nos. 29 and 47.

**Note:** Lead No. 59 in Cable Sheaf **34** is the feed for an electrically-driven clock.

25. Disconnect Cable Sheaf **36** with Leads Nos. 54 and 72 at the regulator cut-out switch of the generator (see Job No. 15—14).
26. Disconnect Cable Sheaf **37** with Leads Nos. 54, 53 and 25 at the starter and push it out of the rubber loops with which it is fixed to the starter cable (see Job No. 15—1).
27. Carefully bend up the spot-welded fixing clips (4) at the wheel arch assembly left and right and lift out the cable arms at the left and right (see Figs. 54—1/2 and 54—1/4).
28. Remove the sound-insulating material of the toe-board upper section, operating from inside the car. To do this, carefully bend up the fixing clips which are welded to the bodywork and take off the insulation card-board.
29. Disconnect Cable Sheaf **5** with Leads Nos. 23, 22, 74, 51, 49, 48, 71, 4, 70 and 69 at the cable connector for the tail-light wiring harness under the instrument panel and push it upward through the rubber grommet in the cowl (see Job No. 54—2, Section C).
30. Take out the cable cover behind the mounting plate for the control knobs.
31. Take out the ashtray.
32. Disconnect Cable Sheaf **8** with Lead No. 30 and Cable Sheaf **9** with Lead No. 9 at the cigar lighter (see Job No. 82—11).
33. Reach behind the steering column bracket (4) with the hand and after unscrewing the round nut (3), push back the contact cover (1) above the ignition switch (2) over the leads, far enough for the cable connections to be accessible (see Fig. 54—1/5).
24. Disconnect Cable Sheaf **7** with Leads Nos. 57, 10, 72 and 24 at the steering lock. Take off the contact cover (1) (see Job No. 15—21 and Fig. 54—1/5).
35. Remove the switch for the instrument panel lighting and disconnect Cable Sheaf **11** with Leads Nos. 44, 47 and 45 (see Job No. 54—18).

36. Remove the choke control and disconnect Cable Sheaf **6** with Leads Nos. 16 and 17 (see Job No. 30 — 6).

37. Remove the starter push-button switch and disconnect Cable Sheaf **12** with Leads Nos. 24 and 25 (see Job No. 54 — 19).

38. Remove the push-pull switch for the wind-shield wipers and disconnect Cable Sheaf **10** with Leads Nos. 6 and 8 (see Job No. 82 — 9).

39. Remove the headlight upper beam flash switch and disconnect Cable Sheaf **13** with Leads Nos. 26 and 41 and pull it out of the steering column jacket (see Job No. 54 — 17).

**Note:** Cable Sheaf **13** is taken through the steering column jacket. Its point of entry is at the panel cover plate at the instrument panel below the steering column. It is advisable to fix a length of thin wire to the end of the cable sheaf before pulling it out. This wire can then be used to pull a new sheaf in when re-installing.

40. Remove the panelling of the instrument panel left (see Job No. 83 — 3, Paras. 1 and 4). Disconnect Cable Sheaf **14** with Leads Nos. 58, 60, 61, 56, 46, 57, 52, 15 and 53 at the rotary light switch. Disconnect Lead No. 55 at the cable connector for the roof light (see Job No. 82 — 15).

41. Disconnect Cable Sheaf **15** with Leads Nos. 60, 69, 70, 67 and 68 at the toggle switch for the parking light (see Job No. 82 — 16).

42. Disconnect Cable Sheaf **16** with Leads Nos. 18 and 19 at the toggle switch for the blower (see Job No. 82 — 17).

43. Detach the tension springs (3) for the instrument cluster, disconnect the speedometer drive shaft (see Job No. 54 — 11, Section A) and unscrew the fixing clips (2) of the cable harness on the cowling. Carefully pull Cable Sheaves **5** to **16** through the cowling into the engine compartment. Take care that the speedometer drive shaft is not kinked. After all cable sheaves have been freed, take out the complete main wiring harness.

#### Installation:

44. Before installing, connect Cable Sheaves **2**

and **3** to the fuse box, with the fuse box removed (see Fig. 54 — 0/2).

**Note:** On Fig. 54 — 0/2 the front and rear faces of the fuse box are shown. For the sake of clarity the leads have been omitted from the illustration. Leads are connected to every terminal on which a screw can be seen. Those terminals where only an empty threaded bore is seen, remain free. The numbers of the individual leads on Fig. 54 — 0/2 correspond to those of Fig. 54 — 1/1.

45. Push the rubber grommet (8) over the cable arm which incorporates Cable Sheaves **5** to **16**. Working from the engine compartment side, place the main wiring harness in the opening in the cowling in such a position that Cable Sheaves **5** to **16** are on the inside. When this is done, make sure that the rubber grommet (8) is correctly positioned in the opening (see Fig. 54 — 1/3).

46. Take the cable arm (9) with Cable Sheaves **17** to **31** under the left defroster jet (4) and fix it to the cowling with the fixing clip (1) (see Fig. 54 — 1/3). Cable Sheaf **31**, with Ground Leads Nos. 31, 32, 30, 28, 41 and 39 should be connected at the same time by means of the screw which holds the fixing clip (1). Care must be taken to ensure that the connection is tinned.

47. Take the cable arm (9) along the wheel arch assembly and fix it in the spot-welded fixing clips (4), bending the latter into position (see Fig. 54 — 1/4).

48. Fix the cable arm (10) with Cable Sheaves **21** to **25** by means of the fixing clip (5) and at the same time connect Cable Sheaf **27** with the Ground Leads Nos. 40, 37 and 38 (see Fig. 54 — 1/2). Care must be taken to ensure that the connection is tinned.

49. Take the cable arm (10) with Cable Sheaves **21** to **25** in front of the radiator over the cross tube and fasten it to the cross tube with two fixing clips.

50. Pass Cable Sheaf **22** with Leads Nos. 42, 76, 63 and 35 through the cable conduit of the right front fender and connect it to right headlight (see Job No. 82 — 1, Section A).

Install the right headlight.

51. Pass Cable Sheaf **20** with Leads Nos. 64, 77, 43 and 38 through the cable conduit of the left front fender (see Fig. 54 — 1/2) and connect it to the left headlight (see Job No. 82 — 1, Section A).

Install the left headlight.

52. Connect Cable Sheaf **23** with Lead No. 20 and Ground Lead No. 34 from Cable Sheaf **24** to the cable connector for the heater blower, right.
53. Connect Cable Sheaf **26** with Leads Nos. 19 and 20 and Ground Lead No. 37 from Cable **27** to the cable connector (1) for the heater blower, left (see Fig. 54 — 1/2).

54. Connect Cable Sheaf **25** with Leads Nos. 1 and 2 to the horn (see Job No. 54 — 15).

55. Connect Cable Sheaf **21** with Leads Nos. 15 and 36 to the fog light (see Job No. 82 — 19).

**Note:** If no fog lights are fitted to the vehicle, insulate the end of cable No. 15 and roll up Cable Sheaf **21** and stow it away safely.

56. Connect Cable Sheaf **29** with Lead No. 21 to the ignition coil (see Fig. 54 — 1/2).

57. Connect Cable Sheaf **28** with Leads Nos. 23, 14, 22, 13, 12, 2 and Ground Lead No. 40 to the cable connector (3) for the cable harness (6) for the steering tube (see Fig. 54 — 1/2). The individual leads must be so connected that the color coding of the leads of the main wiring harness corresponds to the color coding of the leads of the cable harness for the steering tube.

58. Take Cable Sheaf **30** along the cowl and fix it with the pipe clip (1) (see Fig. 54 — 1/4). Connect Leads Nos. 50 and 51 to the cable connector.

**Note:** The cable connector for the reversing light switch is fixed to the bearing assembly for the shift linkage.

59. Connect Cable Sheaf **19** with Leads Nos. 3 and 4 to the brake light switch (see Job No. 54 — 13).

60. Push Cable Sheaf **18** with Leads Nos. 61, 62, and 75 through the cowl into the

foot space at the toeboard and connect it to the foot dimmer switch. Install the foot dimmer switch (see Job No. 54 — 14).

61. Take Cable Sheaf **17** with Leads Nos. 13, 39 and 68 through the left front wheel arch panelling and the left front fender (see Fig. 54 — 1/4). To do this, insert a hooked wire through the hole in the fender from above and push it through the hole in the wheel arch panelling. Push the rubber grommet (3) over the wire and then fix Cable Sheaf **17** to the wire. Pull the Cable Sheaf through the hole in the fender. Fix in position the rubber grommet (3) at the wheel arch panelling and the rubber grommet at the fender. Connect the leads to the flash direction signal and parking light and install the flash direction signal and parking light (see Job No. 82 — 3).

62. Push the cable arm with Cable Sheaves **32** to **37** under the flexible speedometer drive shaft and fix it in position along the cowl by means of the push-in clips provided for this purpose.

Continue taking the cable arm with Cable Sheaves **36** and **37** along the front right wheel arch panelling. The fixing clips provided for this purpose are spot-welded to the wheel arch panelling (see Fig. 54 — 1/2).

63. Connect Cable Sheaf **36** with Leads Nos. 54 and 72 to the regulator cut-out switch for the generator (see Job No. 15 — 14).

64. Connect Cable Sheaf **37** with Leads Nos. 25, 53 and 54 to the starter (see Job No. 15 — 1).

65. Connect Cable Sheaf **35** with Leads Nos. 14, 33 and 67 to the front right flash direction signal and parking light in the same way as was done at the left (see Para. 61).

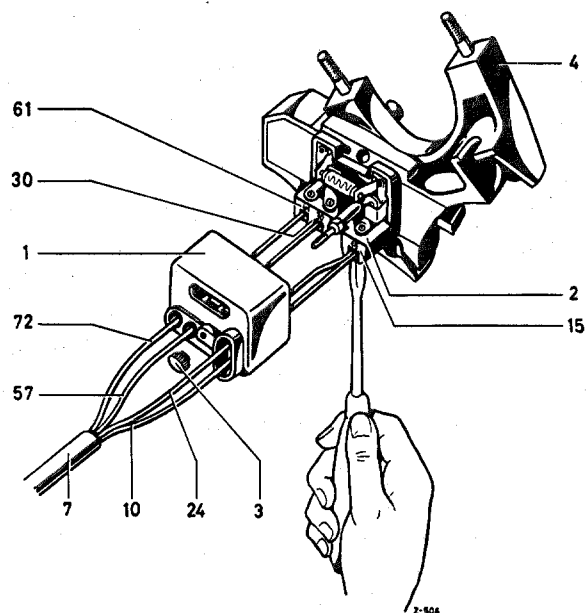
66. Connect Cable Sheaf **34** with Leads Nos. 29 and 47 to the clock and install the clock (see Job No. 54 — 12).

**Note:** Lead No. 59 which is inside Cable Sheaf **34** is incorporated for connecting an electrically-driven clock.

67. Connect Cable Sheaf **33** with Leads Nos. 7, 8 and Ground Leads Nos. 29, 32 and 33 to

the windshield wiper motor (see Job No. 82—4).

68. Fix Cable Sheaf **32** with Leads Nos. 73, 74, 17, 31, 45, 66, 5 and 71 under the speedometer drive shaft in the push-in clip and assemble the eight-way plug of the instrument cluster and screw it up (see Job No. 54—11, Section A).
69. Install the fuse box bracket and the fuse box, which has already been connected to the wiring harness (see Para. 44) (see Job No. 68—3, Para. 6).
70. Connect Cable Sheaf **1** with Leads Nos. 11, 12, 66 and Ground Lead No. 28 to the flash direction signal mechanism (see Job No. 54—16, Section A).
71. Connect Cable Sheaf **4** with Leads Nos. 27, 65 and 26 to the upper beam flash mechanism (see Job No. 54—16, Section B).
72. Pull Cable Sheaf **5** through the hole in the left glove-locker into the foot space at the toeboard and take it as far as the cable connector to the tail light wiring harness.



- |  |                                  |
|--|----------------------------------|
| 1 Contact cover                              | 15 Terminal 15                   |
| 2 Ignition switch                            | 24 Lead No. 24 (black/red cable) |
| 3 Round nut                                  | 30 Terminal 30                   |
| 4 Steering column bracket assembly with lock | 57 Lead No. 57 (red cable)       |
| 7 Cable sheaf                                | 61 Terminal 61                   |
| 10 Lead No. 10 (black cable)                 | 72 Lead No. 72 (blue cable)      |



Connect Leads Nos. 23, 22, 74, 51, 49, 48, 71, 4, 70 and 69 to the cable connector in such a way that the color coding of the cables of the main wiring harness corresponds to that of the cables of the tail light wiring harness.

73. Install the sound-insulating material of the toeboard upper section, operating from inside the car. Bend the fixing clips into position.
74. Connect Cable Sheaf **8** with Lead No. 30 and Cable Sheaf **9** with Lead No. 9 to the cigar lighter (see Job No. 82—11).
75. Push the contact cover (1) of the ignition switch over Leads Nos. 57, 10, 72 and 24 of Cable Sheaf **7** and connect the leads at the ignition switch (2) to terminals 15, 30 and 61 (Fig. 54—1/5).

(For further details see Job No. 15—21).

76. Push the contact cover (1) over the ignition switch (2) and screw it up tight with the round nut (3) (see Fig. 54—1/5).
77. Connect Cable Sheaf **11** with Leads Nos. 44, 47 and 45 to the switch for the instrument panel lighting and install the switch (see Job No. 54—18).
78. Connect Cable Sheaf **6** with Leads Nos. 16 and 17 to the choke control and install the choke control (see Job No. 30—6).
79. Connect Cable Sheaf **12** with Leads Nos. 24 and 25 to the starter push-button switch and install the switch (see Job No. 54—19).
80. Connect Cable Sheaf **10** with Leads Nos. 6 and 8 to the push-pull switch for the windshield wipers and install the push-pull switch (see Job No. 82—9).

81. Pull Cable Sheaf **13** into the steering column jacket with the aid of a piece of wire. Connect Leads Nos. 26 and 41 to the upper beam flash signal switch and install the upper beam flash signal switch (see Job No. 54—17).

**Note:** The point at which Cable Sheaf **13** enters the steering column jacket is near the panel

cover plate at the instrument panel beneath the steering column (see Note, Para. 39).

82. Connect Cable Sheaf **14** with Leads Nos. 58, 60, 61, 56, 46, 57, 52, 15 and 53 to the rotary light switch and install the rotary light switch. Connect Lead No. 55 to the cable connector for the roof light (see Job No. 82—15).
83. Connect Cable Sheaf **15** with Leads Nos. 60, 69, 70, 67 and 68 to the tumbler switch for the parking light and install the tumbler switch (see Job No. 82—16).
84. Connect Cable Sheaf **16** with Leads Nos. 18 and 19 to the tumbler switch for the blower and install the tumbler switch (see Job No. 82—17).
85. Install the panelling at the instrument panel at the left (see Job No. 83—3, Paras. 1 and 4).
86. Install the cable cover behind the mounting plate for the control knobs.  
Put in the ashtray.
87. Attach the two tension springs for the instrument cluster. Connect up the speedometer drive shaft (see Job No. 54—11, Section A).
88. Install the left and right scoops and blowers (see Job No. 83—4).
89. Install the left and right air ducts with heat exchangers (see Job No. 83—5).
90. Install the cowling insulation panel in the engine compartment (see Job No. 68—2).
91. Install the battery (see Job No. 54—9).
92. Install the hood (see Job No. 88—6).