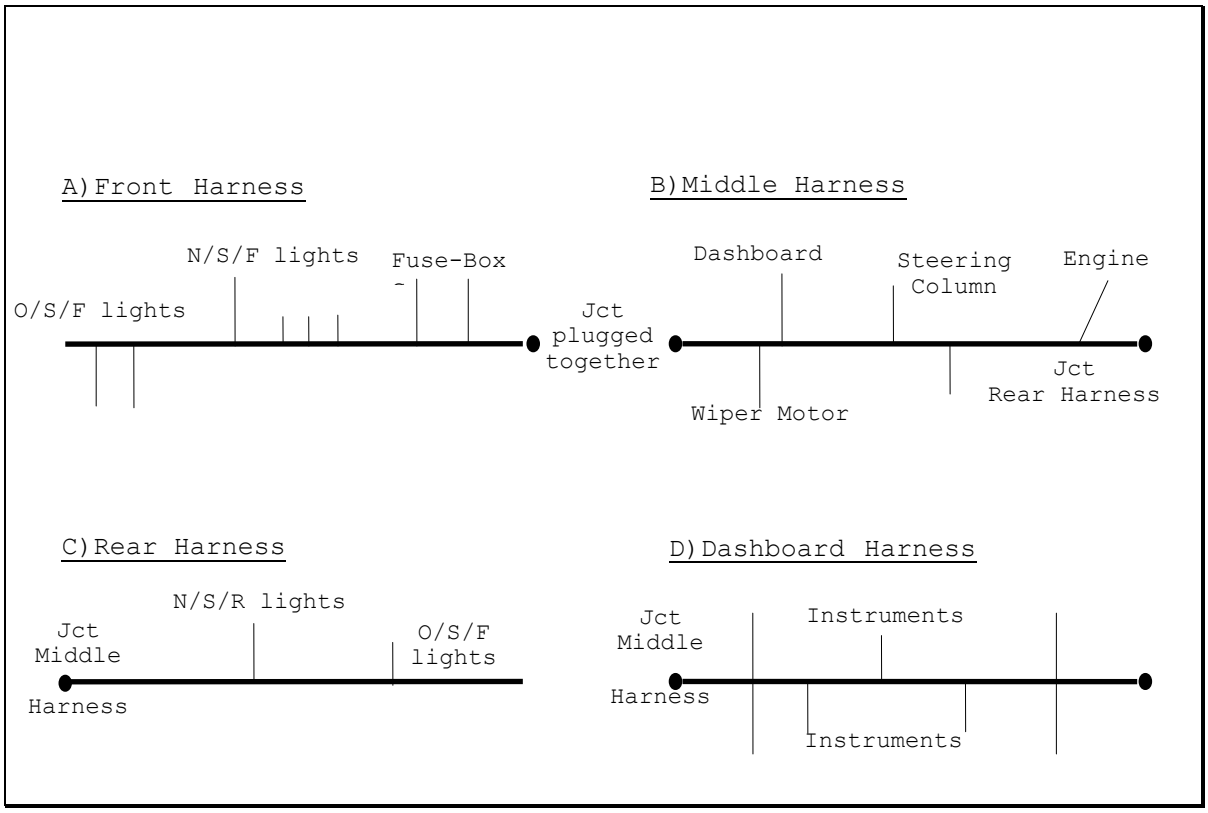
Davrian Developments Limited

Wiring Harness Fitting Instructions

Your wiring harness has been designed and manufactured in 4 parts to facilitate easy handling and fitting.



E) Positive Battery Cable
F) Positive Cable (starter solenoid)
G) Negative Cable (Battery - Bell housing)
H) Fuse - Box

The above drawings are not to scale and do not itemise all the functions of the harness, they are purely there to help you identify each part of harness. The following pages give a detailed description wire by wire of the harness.

The main route of the harness is from the O/SF lights around the front of the spare wheel carrier through a hole in the front bulkhead and then downwards to the prop shaft tunnel. At the rear bulkhead the harness crosses to the N/S of the car and through a hole to the engine compartment and then to the N/S/R lights and O/S/R lights.

WARNING

Before wiring your car, make sure the battery is removed and at no time replace the battery until all the wires have been connected. If any of the optional accessories are not being fitted then the relevant wire ends must be insulated thoroughly: failure to do this may at the very least result in having to purchase a new harness and at worst a new car.

A) Front Harness

1) O/S/F Indicator

G/W) Wire either
B) way round

2) O/S/F Indicator Repeater

G/W) Wire either
B) way round

3) O/S/F Lights

U/W) Plastic Plug
U/R) plugged into
B) H/L bulb

R) Side light
B) bulbholder

4) O/S Spot Lamp

B/G) Wire either
B) way round

5) O/S Horn

W/Y) Wire either
B) way round

6) Fan

R/Y) Wire either
B) way round

7) N/S Horn

W/Y) Wire either
B) way round

8) N/S Spot Light

B/G) Wire either
B) way round

9) N/S/F Indicators

G/R) Wire either
B) way round

10) N/S/F Indicator Repeater

G/R) Wire either
B) way round

11) N/S/F Lights

U/W) Plastic Plug
U/R) plugged into
B) H/L bulb

R) Side light
B) bulbholder

12) Fuel Pumps

P/R - Left fuel pump
P/Y - Right fuel pump
B - Earth

13) Washer bottle

Lt G - Power
B - Earth

14) Spot Lamp Relay

U/B - Input from switch
B - Earth
G - Power input
B/G - To spot lights

15) Horn Relay

P/B - Input from switch
B - Earth
P - Power input
W/Y - To horns

16) Fuse Box

Input	Fuse	Output
N	35A	P
W	25A	G
W/G	25A	W/U
R/W	15A	R

17) Heater

G/Y) Wire either
B) way round

The three plastic plugs should be behind the front bulkhead behind the dashboard and are connected to the centre harness.

NOTE: Spot Lamp Relay and the N/S Spot Lamp connections are used for the Cooling Fan.

B) Middle Harness

Making sure that the wires across the junction are the same colour, connect the middle harness to the front harness behind the dashboard. Then wire as follows:

1) Wiper Motor

B)
U/Lt G) Plug into
N/Lt G)
R/Lt G) wiper motor
W/U)

2) Junction to Dashboard Harness

Leave unconnected at present

3) Junction to the steering column

The 3 plastic plugs should mate with the 3 plugs on the steering column. Check that the wires that connect are the same colour.

4) Brake Light Switch

G) wire either
G/R) way round

5) Battery

B - Leave unconnected at present

6) Starter Solenoid

N (ring terminal)	connect to the power input side
N	connect to the auxillary terminal
W/R	solenoid acitivating wire

7) Reversing Light Switch

G) Wire either
G/N) way round

8) Connection to the rear harness

Leave unconnected at present

9) Oil Pressure Sender Switch

W/N

10) Distributor

W/B - Low tension lead

11) Automatic Choke

Y/G) Plug into choke
Y) and control unit

12) Coil

W	to +ve side
Y + Y/G	to -ve side
W/B	to -ve side

13) Fan Switch

N) Wire either
R/Y) way round

14) Temperature Sender

G/U

15) Alternator

N) Plug into
N/Y) Alternator

C) Rear Harness

This harness should be connected to the middle harness close to the N/S/R wheel arch using the 7-pin plugs on both harnesses. Check that the wires across the junctions are of the same colour.

1) N/S/R Lights

R	-	Tail Light
G/R	-	N/S Indicator
G/P	-	Stop Lights
G/N	-	Reversing Lights
U/Y	-	Rear Fog Lamps
B	-	All Earths

2) Number Plate Light

R) Wire either
B) way round

3) O/S/R Lights

R	-	Tail Light
G/W	-	O/S Indicator
G/P	-	Stop Light
G/N	-	Reversing Lights
U/Y	-	Rear Fog Lamps
B	-	All Earths

D) Dashboard Harness

(See details overleaf)

This harness has been produced separately to enable the dashboard to be wired off the car, then the harness plugs into the centre harness with the plugs provided.

Starting at the top left of the dashboard, wire as indicated:

The "D" harness can now be plugged into the middle harness and the dashboard installed.

The Battery can now be installed and connected up as follows:

1) Positive connection

Using the shorter red heavy duty cable, the positive side of the battery should be connected to the starter solenoid on the same terminal as the brown wires from the middle harness.
The other red heavy duty cable should be connected from the other side of the starter solenoid to the starter motor.

NB: On this particular car, this is **not** correct.
In fact the long heavy duty red cable connects the battery in the front of the car to the starter solenoid, which is mounted in the luggage compartment between the driver and the engine. A shorter black heavy duty cable then links the starter solenoid to the starter motor. 2 extra leads are also required to provide an earth links from the coil body and the starter solenoid body to the engine.

2) Negative connection

The black heavy duty cable and the black leads from the middle harness should be connected to the negative side of the battery and the other end of the heavy duty cable should be connected to a bell-housing bolt.

If any item fails to work or any fuse blows, remove the battery and recheck all the relevant wiring connections.

Definitions

N/S/F	-	Near Side Front	N/S/R	-	Near Side Rear
O/S/F	-	Off Side Front	O/S/R	-	Off Side Rear

Colour Coding

B	-	Black	P	-	Purple
G	-	Green	R	-	Red
Lt G	-	Light Green	U	-	Blue
K	-	Pink	W	-	White
N	-	Brown	Y	-	Yellow

The first colour listed is the main wire colour and the second colour relates to the tracer.

1) Voltmeter
G (with terminal)-Power Input
B (" ")-Earth
R (without terminal)-)4
B (" ")-)Illumination

2) Hazard Flasher Unit
P - Power Input
Lt G/K - to Hazard Switch

3) Flasher Unit
G - Power Input
G/N - to Indicator Switch

4) N/S Indicator Switch
G/R - Wire either
B - way round

5) Main Beam Warning Light
U/W - Wire either
B - way round

6) O/S Indicator Switch
C/W - Wire either
B - way round

7) Clock
P (with terminal) - Power Input
B (" ") - Earth
R (without terminal)-)
B (" ")-)Illumination

8) Oil Pressure Gauge
R - Illumination
2 x B

9) Rear Fog Light Switch *(see note 1)*
R/Y) Plastic plug
U/Y)

U/Y) Plugged into the side of
B) switch for illumination

10) Spot Lamp Switch *(see note 2)*
U/W) Plastic plug
U/B)

U/B) Plugged into the side of
B) switch for illumination

11) Light Switch
N) Plastic Plug
U)
R/W)

R) Plugged into the side of
B) switch for illumination

12) Rev Counter
W/B - from coil (C/B)
G - Power Input
B - Earth

R) Bulb holder
B) illumination

NOTE: If any wires are recorded 2 x without any terminals they must be connected together.

13) Ignition Light
N/Y) Wire either
G) way round

14) Oil Light
W/N) Wire either
G) way round

15) Speedo
2 x B)
R) Illumination

16) Temp Gauge
G/U - to temp sender
G - Power Input

R) Wire either
B) way round

17) Heater Switch
G) Plastic plug
G/Y)

G/Y) Plugged into the
B) side of switch
for illumination

18) Hazard Switch
Lt G/K)
Lt G/K)
G/W) Plastic plug
G/R)
Lt G/N)
Lt G/N)

Lt G/K) Plugged into
B) side of switch
for illumination

19) Fuel Pump Switch
2 x G - Power Input
P/R - Left fuel pump
P/Y - Right fuel pump

Note 1: *not connected*

Note 2: *used for the cooling Fan*