



## SECTION 19 - ELECTRICAL

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## SECTION 19 - ELECTRICAL

### GENERAL

#### NOTE

Before carrying out any work on the vehicle electrical system disconnect the battery earth lead.

1 Wiring diagrams with an appropriate key showing the layout at the fuse box and connectors for the car electrical system are shown at Fig 1 and Fig 2. Fig 3 details engine wiring layout.

2 It should be noted that 90% of electrical problems are caused by poor earth connections. If problems are experienced check the following vehicle earth points in the first instance.

- Battery to starter motor bolt.
- Engine (block) to engine mount.
- Instrumentation to chassis (at the wiper securing bolt under the dashboard).
- Rear lights to chassis (to rear wing securing bolt).
- Three way brake union in the engine bay.
- Headlamp earth and security of headlamp mounting bracket.
- Engine loom to engine.

3 Ensure that all connections are correctly orientated and are fitted together securely.

4 In the event of continuing problems contact the factory.

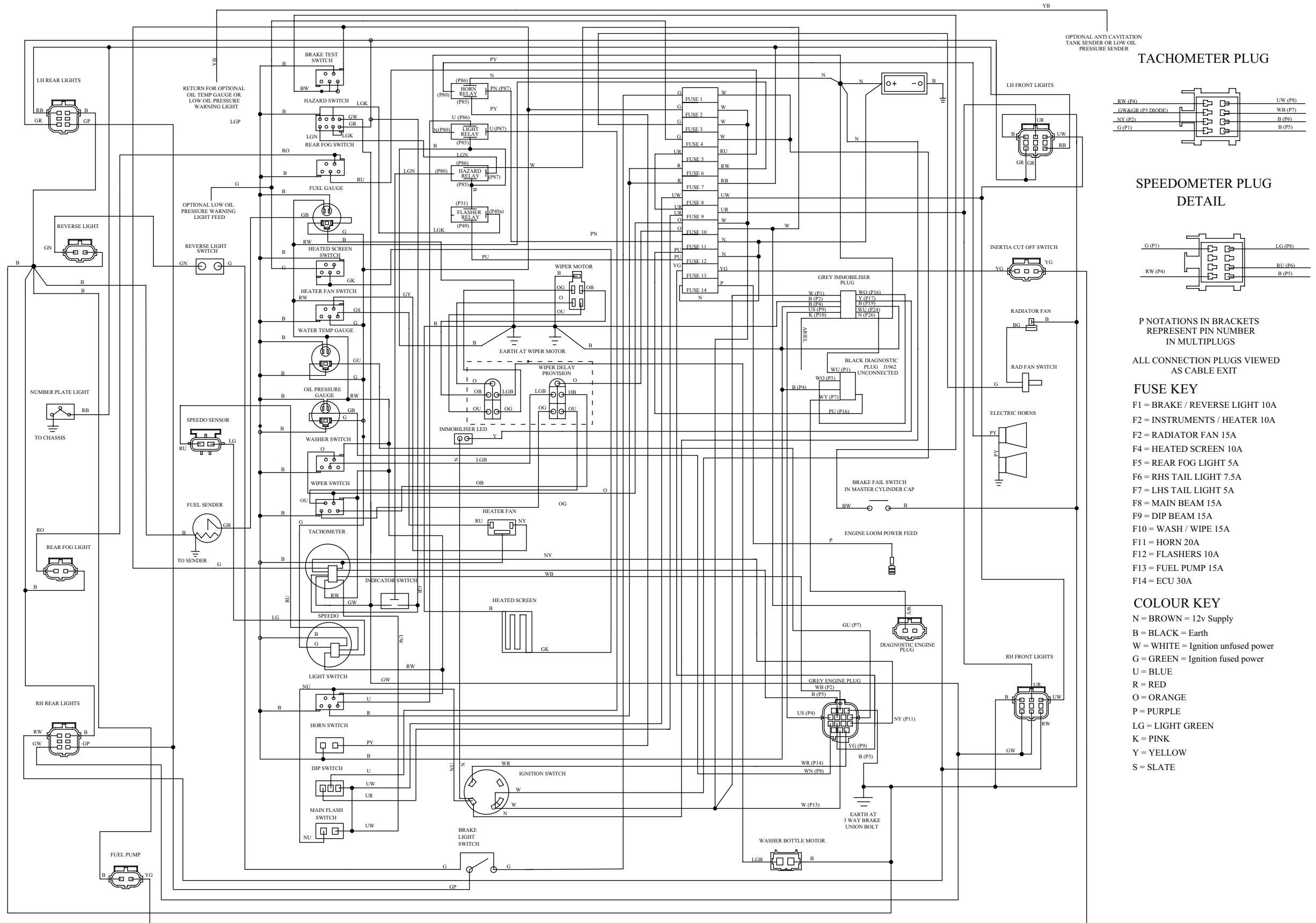


Fig 1 Main vehicle wiring loom for all Rover K-Series variants, 2001 onwards (EU2 and EU3)

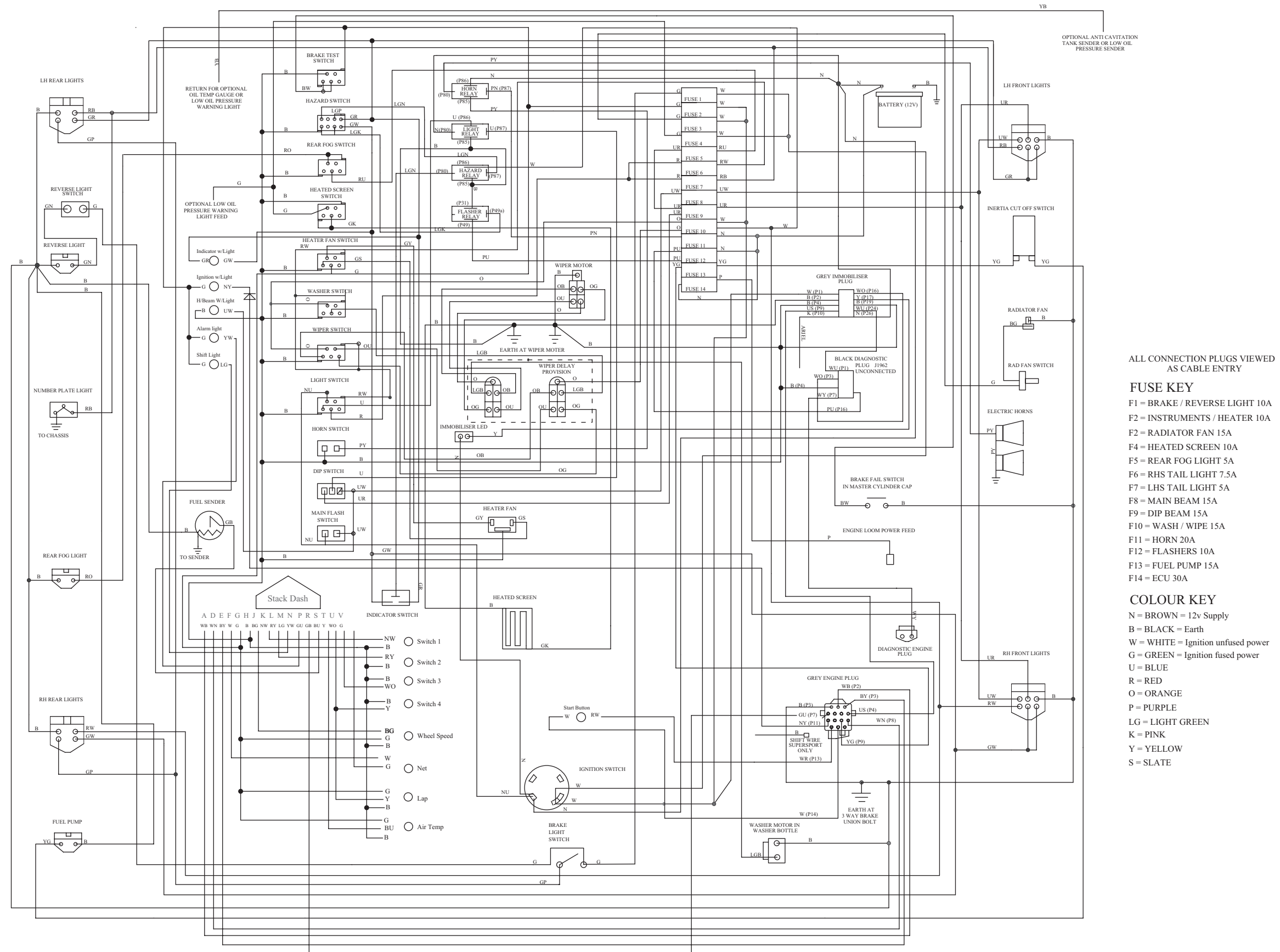
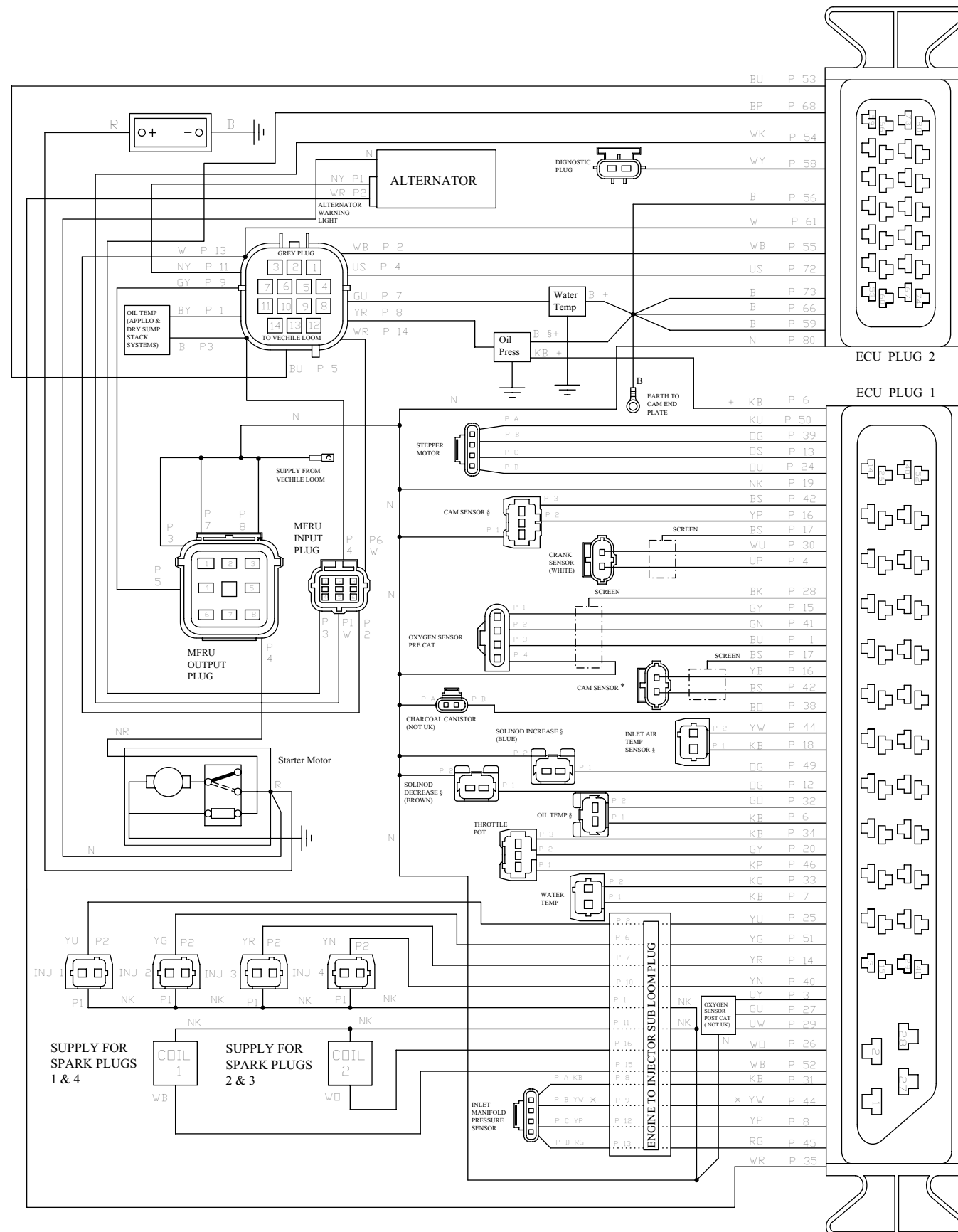


Fig 2 Main vehicle wiring loom for all stack Rover K-Series variants, 2001 onwards (EU2 and EU3)



ECU PLUG 2

PIN	FUNCTION
53	SHIFT LIGHT SUPERSPORT ONLY
54	MAIN RELAY CONTROL
55	TO TACHOMETER
56	EARTH
58	DIGNOSTICS
59	EARTH
61	IGNITION SENSOR
66	EARTH
68	FUEL RELAY CONTROL
72	TO IMMOBILISER
73	EARTH
80	+VE PERMANENT

(MFRU)  
MULTI FUNCTIONAL RELAY UNIT  
PIN DESCRIPTIONS

MFRU OUTPUT PLUG

PIN	FUNCTION
3	FUEL PUMP RELAY POWER SUPPLY
4	OUTPUT TO STARTER SOLINOID SWITCH
5	OUTPUT TO FUEL PUMP
7	STARTER MOTOR RELAY POWER SUPPLY
8	ECU RELAY POWER SUPPLY

ECU PLUG 1

PIN	FUNCTION
1	OXYGEN HEATER DRIVEN 1
3	OXYGEN SENSOR 2 POSITIVE
4	CRANK POSITION
6	OIL TEMP SENSE GROUND
7	COOLANT TEMP SENSE GROUND
8	MANIFOLD PRESSURE
12	AUTO DISPLAY
13	STEPPER MOTOR PHASE B
14	INJECTOR 3
15	OXYGEN SENSOR 1 POSITIVE
16	CAM SIGNAL
17	CRANK/CAM SCREEN
18	INLET AIR TEMP SENSE GROUND
19	MAIN RELAY
20	THROTTLE POTIOMETER
24	STEPPER MOTOR PHASE D
25	INJECTOR 1
26	COIL 2
27	OXYGEN HEATER DRIVE 2
28	OXYGEN SENSOR 1 SCREEN
29	OXYGEN 2 NEGATIVE
30	CRANK NEGATIVE
31	MAP SENSOR GROUND
32	OIL TEMPERATURE
33	COOLANT TEMPERATURE
34	THROTTLE POT GROUND
35	ALTERNATER SENSOR
38	CHARCOAL CANISTER DRIVE
39	STEPPER MOTOR PHASE A
40	INJECTOR 4
41	OXYGEN SENSE 1 NEGATIVE
42	CAM SENSOR GROUND
44	INLET AIR TEMPERATURE
45	MAP SENSOR SIGNAL
46	THROTTLE POT SUPPLY
49	AUTO DISPLAY
50	STEPPER MOTOR PHASE C
51	INJECTOR 2
52	COIL 1

MFRU INPUT PLUG

PIN	FUNCTION
1	ECU RELAY CONTROL FROM ECU
2	FUEL RELAY CONTROL FROM IGNITION
3	FUEL RELAY CONTROL FROM ECU
4	STARTER RELAY CONTROL GROUND
6	STARTER RELAY CONTROL FROM IGNITION

§ - VVC ENGINES ONLY  
+ - STACK DASH BOARD ONLY  
\* - NOT VVC ENGINES

ALL PLUGS ARE COLOURED BLACK UNLESS STATED

ALL PLUGS VIEWED AS CABLE EXIT

P NUMBERS REPRESENT PIN NUMBERS IN MULTIPLUGS

DRAWINGS OF PLUGS NOT TO SCALE

WIRE COLOUR KEY

N	BROWN
B	BLACK
W	WHITE
G	GREEN
U	BLUE
R	RED
O	ORANGE
P	PURPLE
K	PINK
Y	YELLOW
S	SLATE

Fig 3 EU3 1.6 and 1.8 K-Series engine loom wiring diagram, all variants