



Circuit Diagram Glossary

Rocket 3 GT, Rocket 3 R and Rocket 3 TFC

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All information contained in this publication is based on the latest product information available at the time of publication. Illustrations in this publication are intended for reference use only and may not depict actual model component parts.

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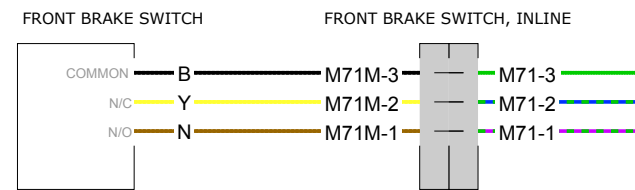
GLOSSARY OF CIRCUIT DIAGRAM SYMBOLS

The following is a description of the symbols and information found in the circuit diagrams for this model.

Note:

- Wire colours and connector pin references shown in the illustrations below are examples and may differ from those contained in circuit diagrams for this model.

Components with a Fly lead and an In-line Connector



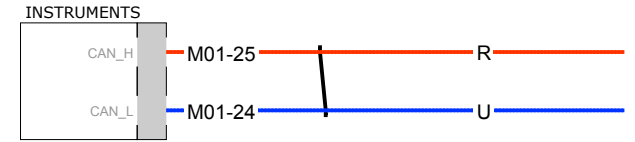
The illustration shows an example of a component with a fly lead and an in-line connector. The component is represented by a white box, with fly lead wires leading to an in-line connector (shaded grey). Information provided with the component includes:

- The component name - located above the component.
- A function reference for each terminal - located inside the component, adjacent to the connecting wire (provided in English only).
- Wire colour references - located on each wire.
- An in-line connector name - located above the in-line connector.
- A component and pin number reference - located on each wire entering the in-line connector.

In the above example, the component and pin number references can be interpreted as follows:

M71	Component reference for the front brake switch
M	Identifies the mating connector (component side only)
-	Separator
1, 2, 3	Connector pin number reference

Components with an Integral Connector



The illustration shows an example of a component with an integral connector.

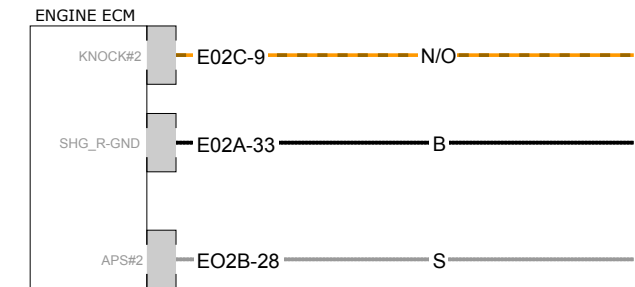
The component is identified by a white box, with a grey shaded area representing the integral connector. Information provided with the component includes:

- The component name - located above the component.
- A function reference for each terminal - located inside the component, adjacent to the connecting wire (provided in English only).
- Wire colour references - located on each wire.
- A component and pin number reference - located on each wire entering the integral connector.

In the above example, the component and pin number references can be interpreted as follows:

M01	Component reference for the instruments
-	Separator
24, 25	Connector pin number reference

Components with Multiple Integral Connectors



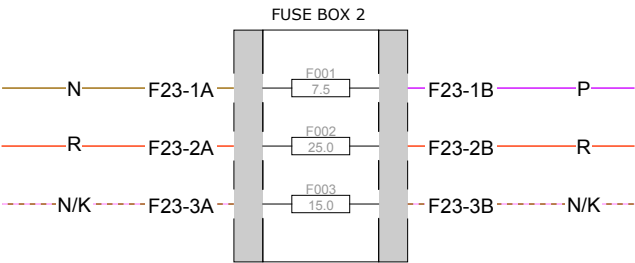
The illustration shows an example of a component with multiple integral connectors.

The multiple integral connectors can be identified by separated grey shaded areas (as shown), or by a grey shaded area that is divided into multiple sections by black line(s).

The above example shows an engine ECM with three integral connectors, connectors A, B and C. The component, connector and pin number references can be interpreted as follows:

E02	Component reference for the engine ECM
A, B, C	Connector reference
-	Separator
9, 28, 33	Connector pin number reference

Fuse Boxes



The illustration shows an example of a fuse box. A fuse is a device which protects a circuit in the event of a fault. The fuse will 'blow' should a short circuit occur, protecting that circuit from further damage.

Information provided with the fuse box includes:

- The fuse box name - located above the fuse box.
- A fuse number/location reference for each fuse - located above the fuse.
- A fuse rating (in Amps) for each fuse - located inside the fuse.
- A fuse box, terminal number and terminal block reference - located on each wire entering the fuse box.

In the above example, the fuse box, terminal number and terminal block references can be interpreted as follows:

F	Reference code for a fuse box
2	Denotes the type of fuse box: 1 = Fuse box 1 (Main fuse) 2 = Fuse box 2 (Individual circuit protection)

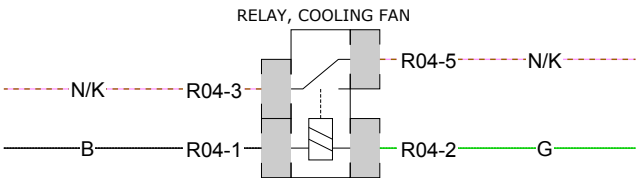
3	Indicates the number of fuses contained in the fuse box
-	Separator
1, 2, 3	Connector terminal number reference
A or B	Terminal block reference A (power in) or B (power out)

Relays

A relay is effectively an electromagnetic switch. To close the relay contacts and complete the circuit, an electromagnet in the relay is energised which causes the relay contacts to close, making the circuit complete.

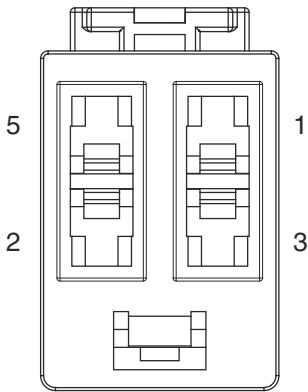
Relays are used when the electrical current is too great for a mechanical switch, usually when the switching must be done quickly to prevent arcing across the switch contacts. If a mechanical switch were used, the mechanical switch contacts would quickly burn away.

Relays Connected with a Single Socket Connector



The illustration above shows an example of a relay connected to the wiring harness with a single socket relay connector.

A pin diagram of a typical single socket relay connector is shown below.



Glossary Of Circuit Diagram Symbols

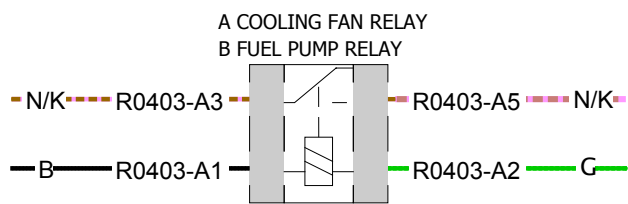
Information provided on the circuit diagram for relays with a single socket harness connector includes:

- The relay name - located above the relay.
- A relay and terminal number reference - located on each wire entering the relay connector terminals.

In the above example, the relay and terminal number reference can be interpreted as follows:

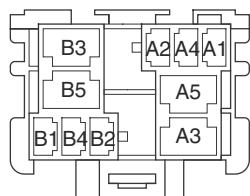
R	Indicates the component is a relay
04	Reference number for the relay (cooling fan relay in the example shown)
-	Separator
1, 2, 3, 5	Connector terminal number reference

Relays connected with a Dual Socket Connector



The illustration above shows an example of a relay connected to the wiring harness with a dual socket relay connector.

A dual socket relay connector provides sockets for two individual relays, socket A and socket B. A pin diagram of a typical dual socket relay connector is shown below.



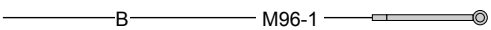
Information provided on the circuit diagram for relays with a dual socket harness connector includes:

- The names of the relays connected to sockets A and B - located above the relay.
- A dual relay and terminal number reference - located on each wire entering the relay connector terminals.

In the above example, the relay and terminal number reference can be interpreted as follows:

R	Indicates the component is a relay
04	Reference number for the relay connected to socket A (cooling fan relay in the example shown)
03	Reference number for the relay connected to socket B (fuel pump relay in the example shown)
-	Separator
A or B	Socket reference (socket A or socket B) In the example above, all references show socket A. This indicates that the component shown is the cooling fan relay.
1, 2, 3, 5	Connector terminal number reference for the socket/relay identified

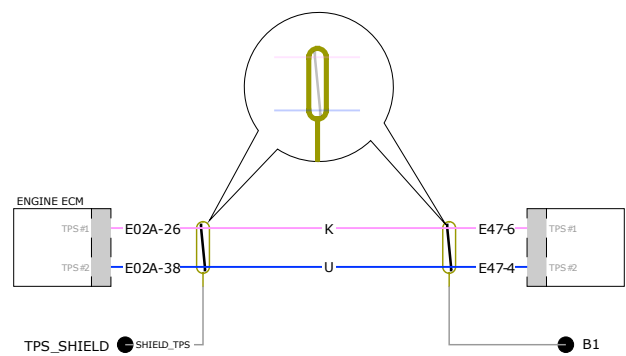
Ring Terminals



The illustration shows the symbol used to identify a ring terminal (commonly used as ground points).

A ring terminal reference is provided on the wire entering the terminal.

Shielded Wires



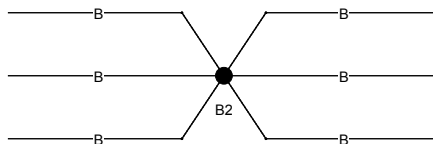
The illustration shows the symbol used to identify wires that are shielded against electromagnetic interference.

Examples of components that have shielded wires include:

- ABS wheel speed sensors
- Immobiliser antenna
- Throttle position sensor
- USB socket

The wire shielding is typically connected to ground.

Splices

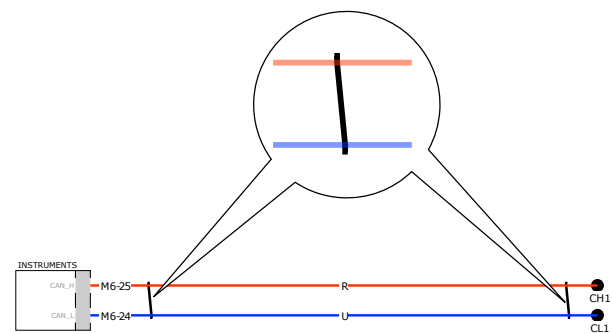


The illustration shows an example of a splice.

A splice is a hard cable joint where two or more cables are joined in the wiring harness. A splice is a potential source of both open and short circuits.

A splice reference code is provided at the nearest convenient location to the splice symbol.

Twisted Wires



The illustration shows the symbol used to indicate a pair of wires that are twisted together, such as CAN circuit wires.

Starter Motor Grounding

Starter motors fitted to Triumph motorcycles are connected to ground through the mating faces of the starter motor body and the crankcase.

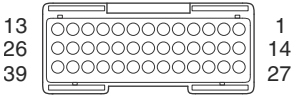
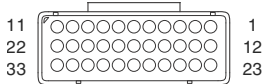
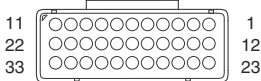
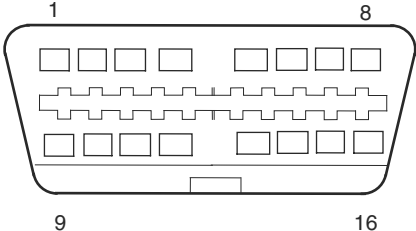
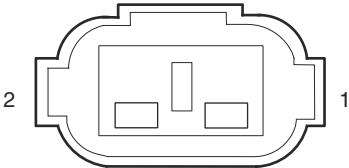
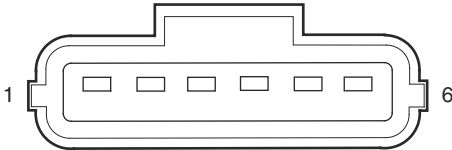
Key To Wiring Colour Codes

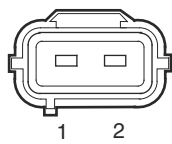
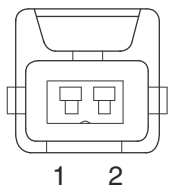
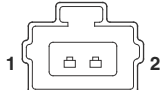

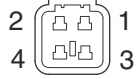
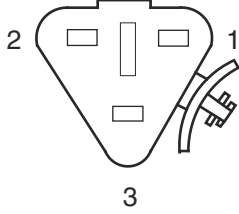
Code	Wiring Colour
B	Black
U	Blue
N	Brown
G	Green
S	Slate/Grey
O	Orange
K	Pink
R	Red
P	Purple
W	White
Y	Yellow
LG	Light Green
LU	Light Blue

Main Wiring Harness Electrical Connectors

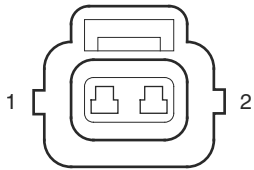
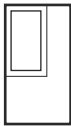
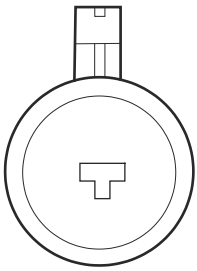
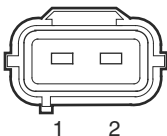
MAIN WIRING HARNESS ELECTRICAL CONNECTORS

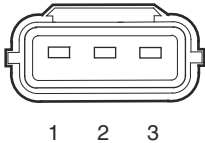

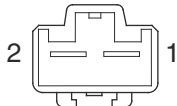
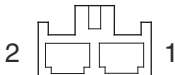
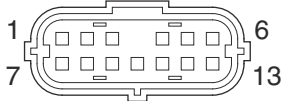
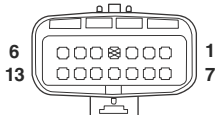
The table below shows the connector pin diagrams for each electrical connector on the main wiring harness for this model.

	
E02A - Engine ECM connector A	E02B - Engine ECM connector B
	
E02C - Engine ECM connector C	E04 - Diagnostic connector
	
E05 - Crankshaft position sensor	E08 - Throttle position sensor

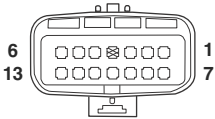
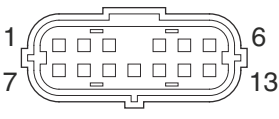
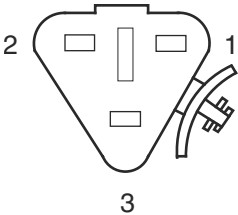
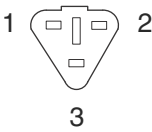
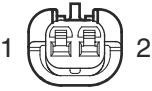
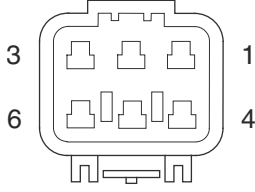
	
E09 - Purge valve	E10 - Coolant temperature sensor
	
E11 - Fuel injector 1-1 E49 - Fuel injector 1-2 E12 - Fuel injector 2-1 E50 - Fuel injector 2-2 E13 - Fuel injector 3-1 E51 - Fuel injector 3-2	E15 - Gear position sensor
	
E16 - Oxygen sensor, bank 1 sensor 1	E17 - Side stand switch

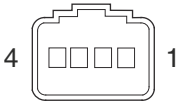


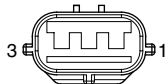
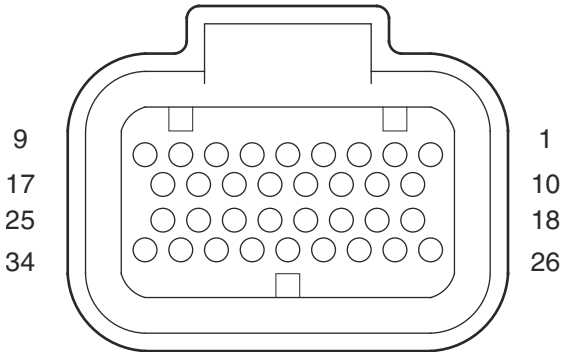
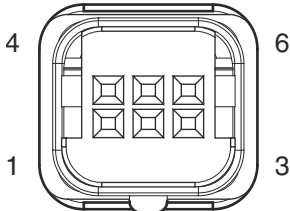
Main Wiring Harness Electrical Connectors

	
E20 - Intake air temperature sensor	E21A - Ignition coil 1 connector A E21B - Ignition coil 1 connector B E22A - Ignition coil 2 connector A E22B - Ignition coil 2 connector B E23A - Ignition coil 3 connector A E23B - Ignition coil 3 connector B
	
E25 - Oil pressure sensor	E37 - Secondary air injection

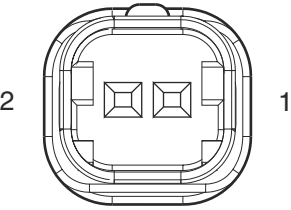
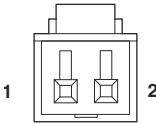
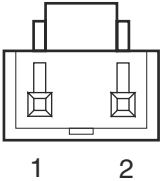

	
E38 - Manifold absolute pressure sensor E39 - Ambient air pressure sensor	E52 - Throttle actuator motor
	
H02 - Battery subharness (harness side)	H02M - Battery subharness (subharness side)
	
H05 - Engine subharness (main harness)	H05M - Engine subharness (subharness)

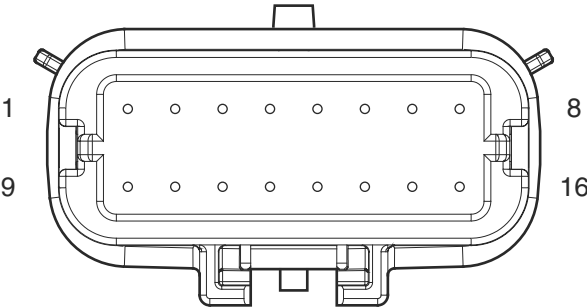
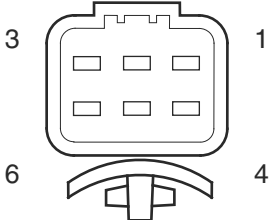
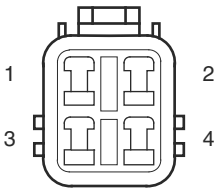
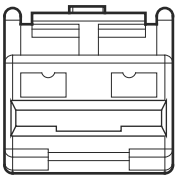
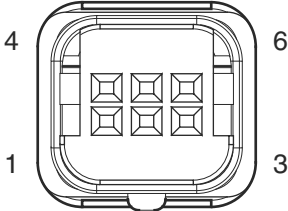
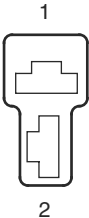
Main Wiring Harness Electrical Connectors

	
H06A - Handlebar switch housing subharness (main harness)	H06AM - Handlebar switch housing subharness (subharness)
	
H06B - Handlebar switch housing subharness (main harness)	H06BM - Handlebar switch housing subharness (subharness)
	
H07 - Master ignition switch link subharness	H11- Fuel tank subharness (main harness)

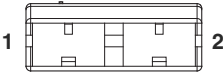


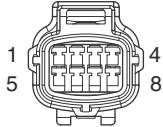
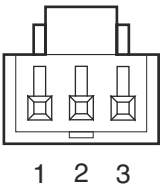
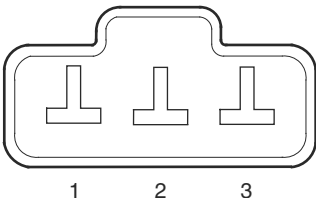
	
H12 - Licence plate subharness (main harness)	H12M - Licence plate subharness (subharness)
	
H14 - Triumph shift assist	H14M - Triumph shift assist
	
M01 - Instruments	M02A - Left handlebar switch housing connector (6 pin)

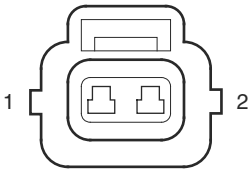
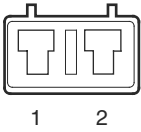
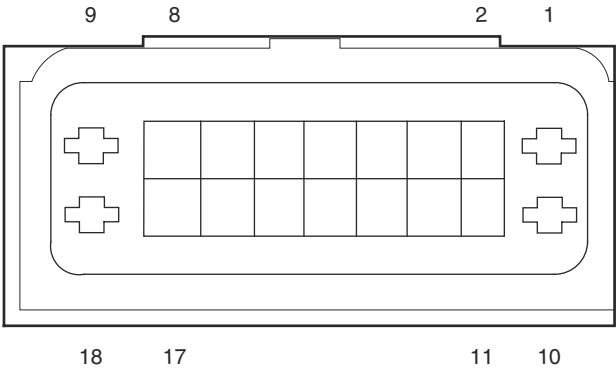
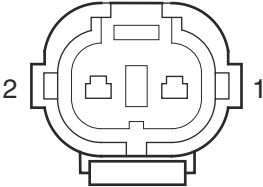

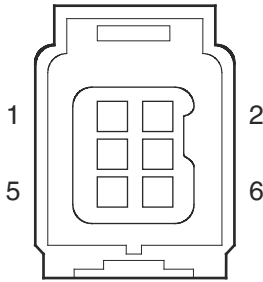
Main Wiring Harness Electrical Connectors

	
M02B - Left handlebar switch housing connector (2 pin)	M02C - Clutch switch
	
M03A - Second LF antenna M03B - LF antenna	M04A - Front left direction indicator connector A M04B - Front left direction indicator connector B M19A - Front right direction indicator connector A M19B - Front right direction indicator connector B M35B - Rear left direction indicator M35B - Rear left direction indicator M38A - Rear right direction indicator M35B - Rear left direction indicator

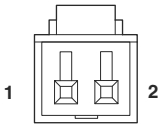
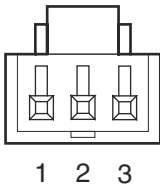

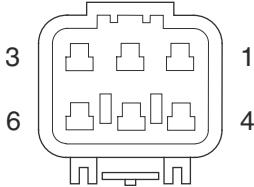
 <p>A large, rectangular electrical connector with a rounded top and bottom. It features two rows of eight circular pins each, totaling 16 pins. The connector has a central locking tab at the top and two side tabs. The pins are numbered 1 through 16: 1 and 9 on the left, 8 and 16 on the right.</p>	 <p>Two diagrams of electrical connectors. The top diagram shows a rectangular connector with six pins arranged in two rows of three, numbered 1 through 6. The bottom diagram shows a smaller, curved connector with two pins, numbered 4 and 6.</p>
<p>M05 - Keyless ignition ECM</p>	<p>M07A - Headlight A M07B - Headlight B</p>
 <p>A rectangular electrical connector with four pins arranged in two rows of two, numbered 1 through 4. The connector has a central locking tab at the top and two side tabs.</p>	 <p>A diagram of a rectangular electrical connector with four pins arranged in two rows of two. The connector has a central locking tab at the top and two side tabs.</p>
<p>M10A - Cooling fan speed controller</p>	<p>M11A - Horn connector A M11B - Horn connector B</p>
 <p>A rectangular electrical connector with six pins arranged in two rows of three, numbered 1 through 6. The connector has a central locking tab at the top and two side tabs.</p>	 <p>A diagram of a rectangular electrical connector with two pins, numbered 1 and 2. The connector has a central locking tab at the top and two side tabs.</p>
<p>M14A - Right handlebar switch housing connector (black) M14B - Right handlebar switch housing connector (grey)</p>	<p>M21 - Accessory socket, live M25 - Front accessory socket, switched</p>

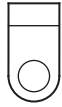
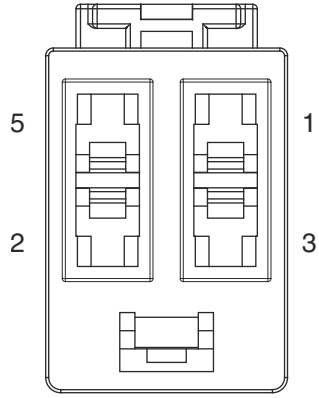
Main Wiring Harness Electrical Connectors

	
M28 - Starter solenoid	M28A - Starter solenoid connector A M28B - Starter solenoid connector B
	
M28C - Starter solenoid connector M28D - Starter solenoid connector	M36 - Alarm
	
M37 - Rear light	M48A - Regulator rectifier connector A

	
M52 - Ambient air temperature sensor	M57 - Front ABS wheel speed sensor M58 - Rear ABS wheel speed sensor
	
M59 - ABS modulator	M70 - USB socket
	
M72 - Bluetooth module	M73 - Twist grip position sensor

Main Wiring Harness Electrical Connectors

	
M83 - Right heated grip	M84 - Left heated grip
	
M29 - Starter motor M86 - Battery positive terminal	M95 - Electronic steering lock

	
<p>M96 - Battery negative terminal M99 - Engine ground</p>	<p>R02 - Ignition relay R03 - Fuel pump relay R05 - Horn relay R07 - Engine management system relay R09 - Starter motor relay R11 - Dip beam relay R12 - Main beam relay R13 - Accessories relay</p>