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01841 531102

DTA S40 Wiring Loom Order Form

When ordering an ECU and loom package or just a wiring loom on its own please study the attached wiring diagram and options list.

This wiring loom is a competition ECU only loom and only has the connections relevant to reliable and precise DTA ECU operation.

It is your responsibility to accurately list any modifications or additions to the standard wiring loom that may be required.

Please print the form on the last two pages, fill it in and scan it, and send it back by e-mail to nick@pure-motorsport.co.uk

Or by post to:

Pure Motorsport UK LTD
Rear of 9 Catalina Row
St Eval
Wadebridge
Cornwall
PL27 7TJ

We will then price up the options added and get in contact with you to complete the order.



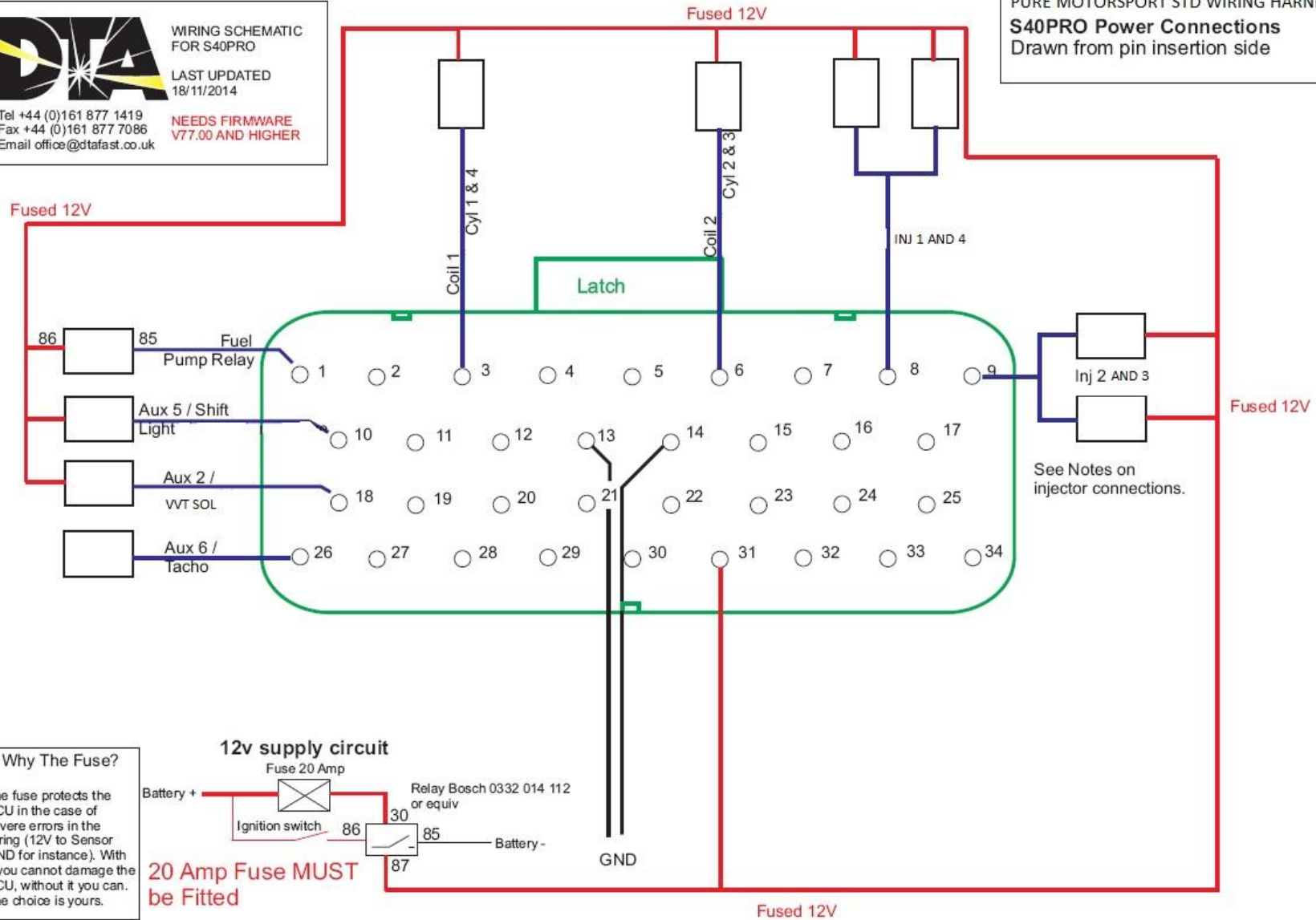
WIRING SCHEMATIC
FOR S40PRO

LAST UPDATED
18/11/2014

Tel +44 (0)161 877 1419
Fax +44 (0)161 877 7086
Email office@dtafast.co.uk

NEEDS FIRMWARE
V77.00 AND HIGHER

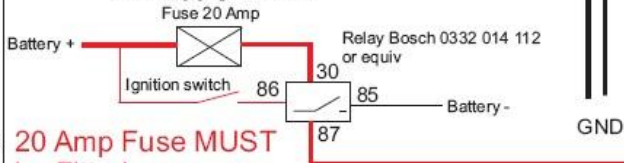
PURE MOTORSPORT STD WIRING HARNESS
S40PRO Power Connections
Drawn from pin insertion side



Why The Fuse?

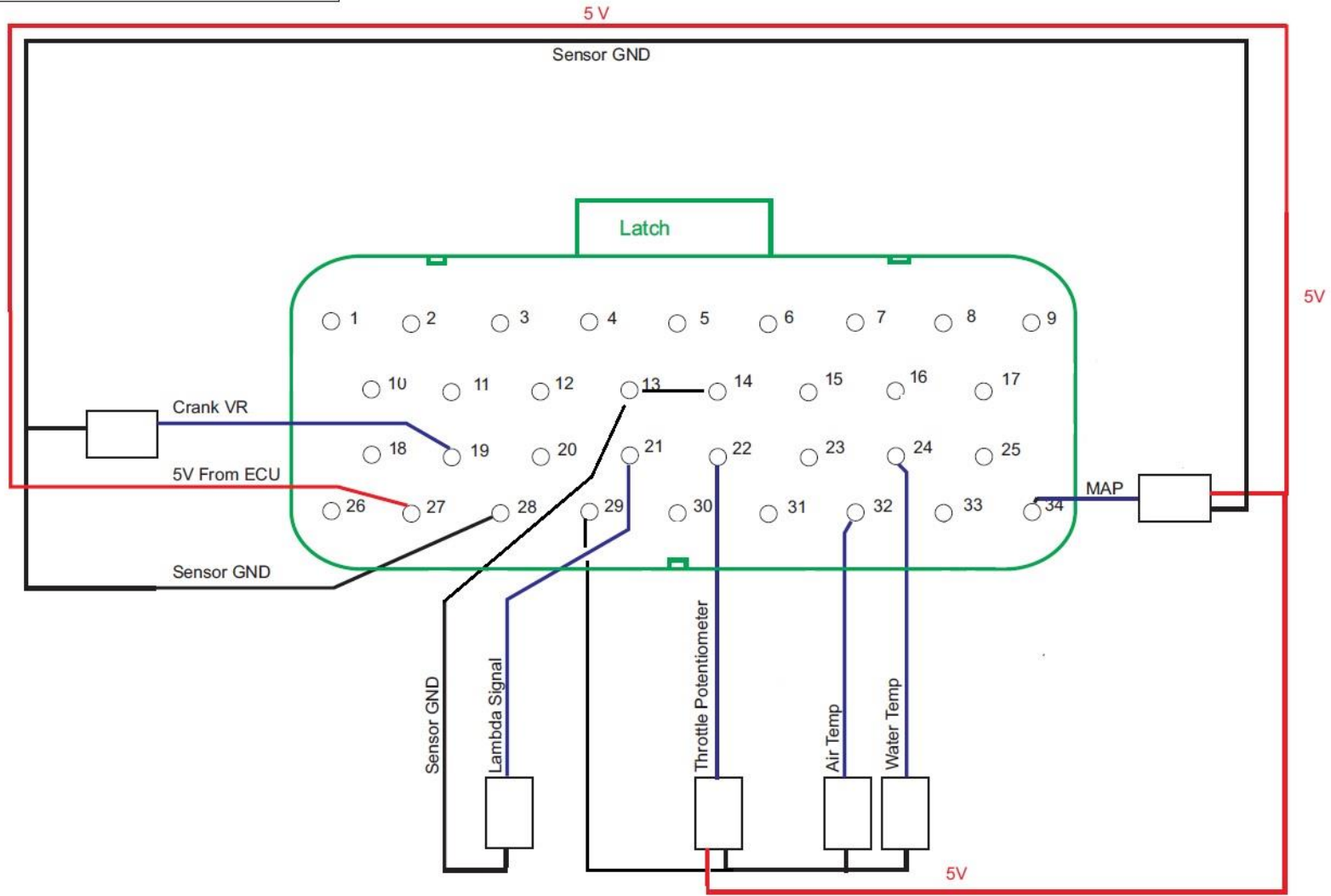
The fuse protects the ECU in the case of severe errors in the wiring (12V to Sensor GND for instance). With it you cannot damage the ECU, without it you can. The choice is yours.

12v supply circuit



20 Amp Fuse MUST be Fitted

PURE MOTORSPORT STD WIRING HARNESS
S40PRO Sensor Connections
Drawn from pin insertion side



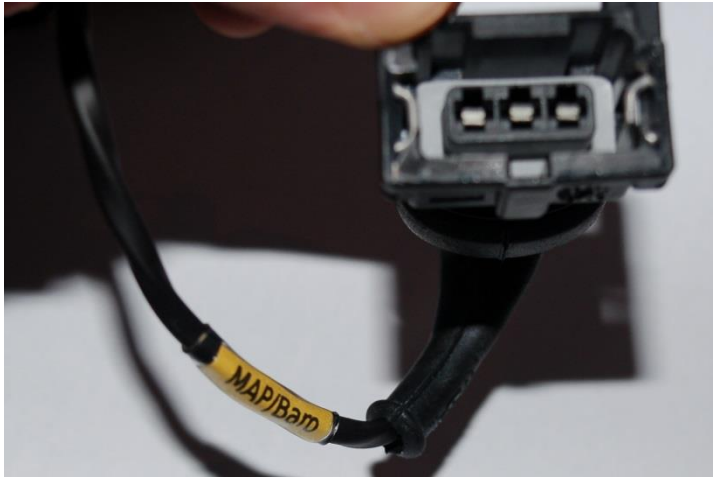
Standard plugs supplied with DTA S40 wiring harness



Crank sensor sub loom, male mini timer plug (to suit loom connector) to blue Renault TDC sensor plug. You must ensure you use the new style crank (TDC) sensor from Renault with the blue plug on the top.



DTA S40 ECU connector.



MAP sensor uses 3 pin mini timer plug. The use of a MAP sensor isn't required unless the car will see large altitude changes from circuit to circuit or very long hill climbs with large variation in altitude from bottom to top.



Wideband lambda input from devices such as the Innovate LC-2 wideband lambda controller:

<http://www.innovatemotorsports.com/products/lc2.php>

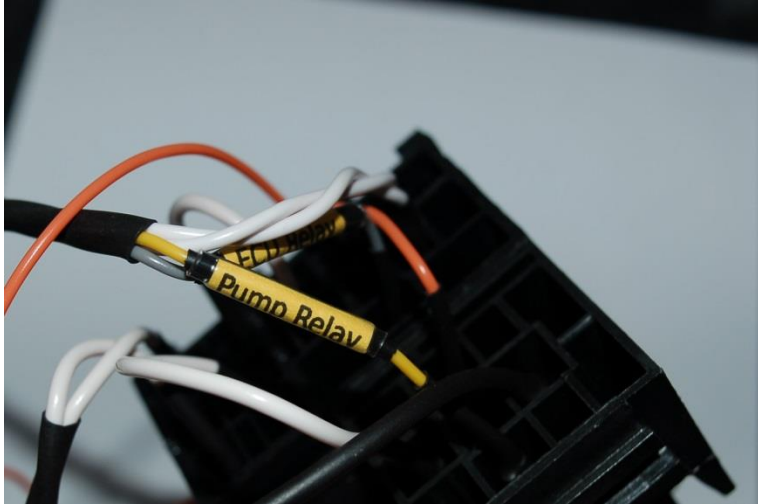
Has a two pin female mini timer plug.



Ignition switch +12v for controlling ECU and fuel pump relays – plain cable end.



Fuel pump +ve feed from fuel pump relay - includes a long single wire for connection directly to the positive terminal of the fuel pump.



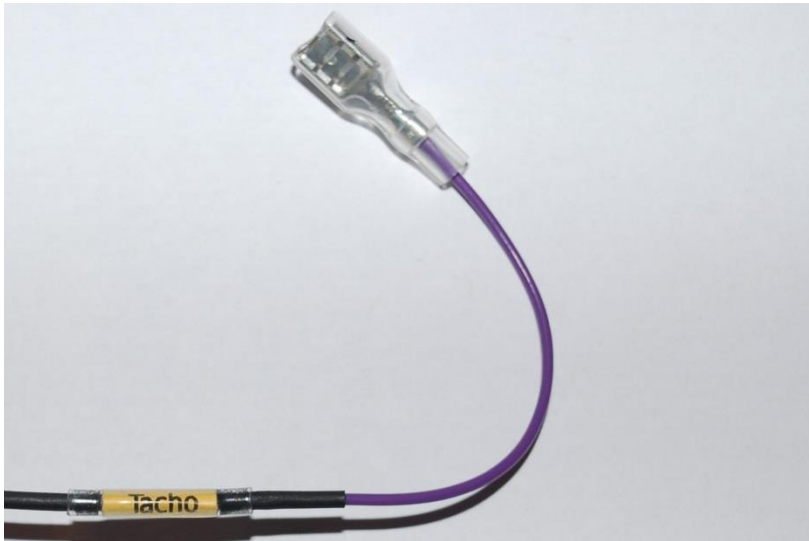
Wiring harness comes complete with two fused relays for the ECU and fuel pump power supply.



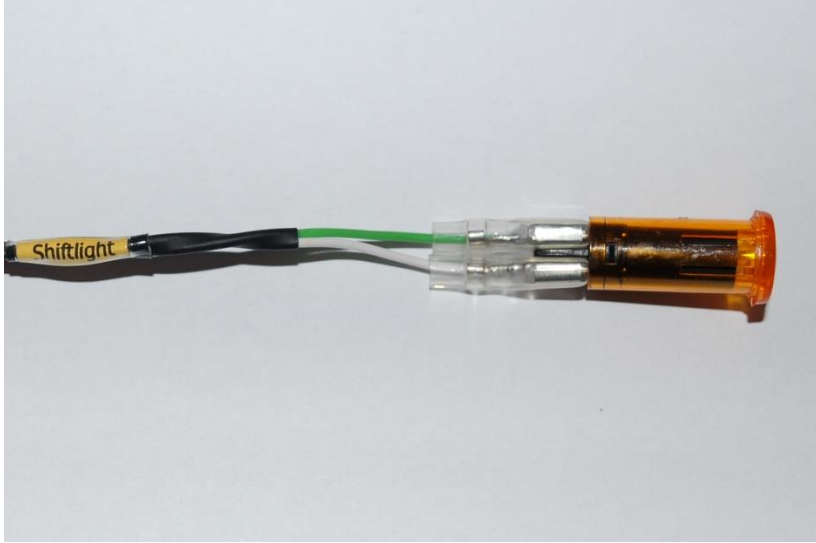
+12v main power supply to be connected to the battery terminal comes with 10mm ring.



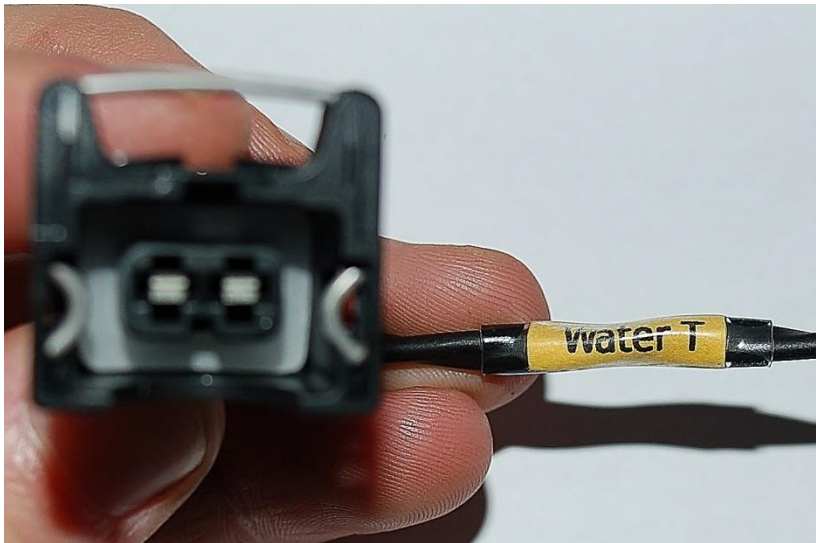
-ve main ground to be connected to the battery terminal comes with 6mm ring.



Tacho output for aftermarket tacho gauges with female spade connector.



Shift light complete with orange warning light with two female spade connectors.



Water temperature sensor with two pin female mini timer plug - to plug directly into the water temp sensor supplied in our sensor kit. The sensor supplied in our kit screws into the original thread on the thermostat housing on F4R engines.



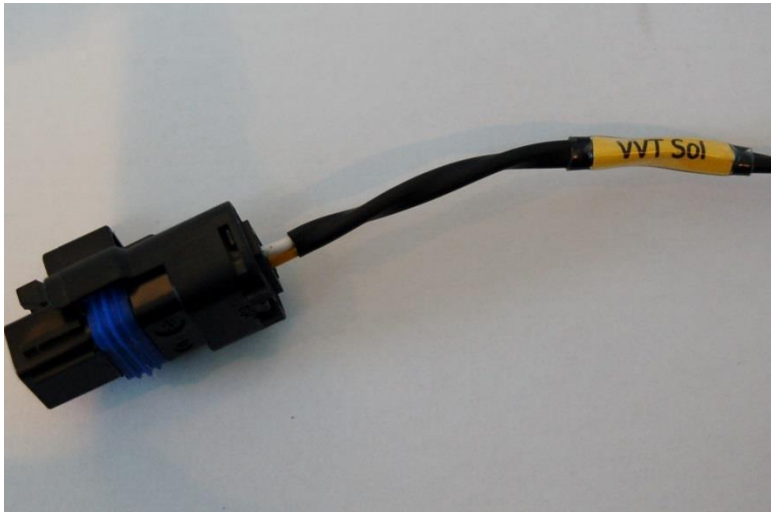
Crank position sensor has female mini timer plug – to plug directly into our crank (TDC) sensor sub-loom



Ignition coil plug has a four pin female mini timer plug – to plug directly into the standard Renault coil.



Injector loom has four, two pin female mini timer plugs – to plug directly into any of the standard or option injectors that we supply.



VVT solenoid plug – is male, two pin plug – to plug directly into the standard Renault VVT solenoid.

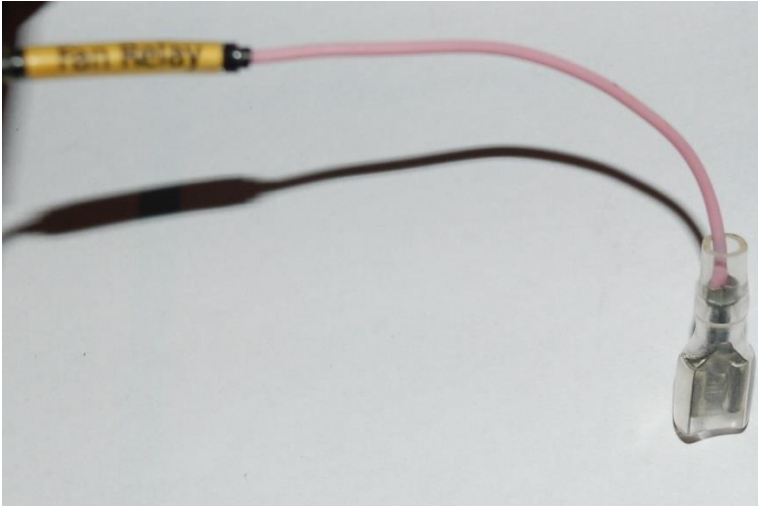


Throttle position sensor is a three pin male plug – to plug directly into the Colvern type TPS supplied in our sensor kit.



Air temperature sensor has a two pin female mini timer plug – to plug directly into the air temp sensor supplied in our sensor kit.

Added options



Fan relay activation wire. This can be added to control the cooling fan relay with the DTA ECU.



Fan relay to add on to fuel pump and ECU relays inside the car. This relay neatly slides onto the other two relays. This will be wired up to the DTA ECU and have a tail of wire to feed the +VE supply on the fan. You will need to complete the +VE wire installation and supply a ground.

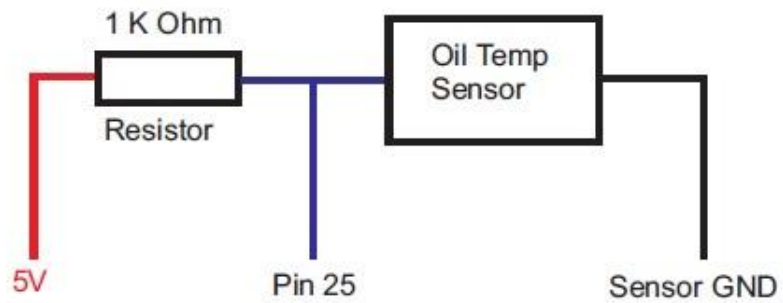


Launch control function including wiring for dash mounted button, and wiring for hall effect wheel speed sensor on rear.

Order Bosch sensor and button separately on order form.

Analogue 1 as Oil Temp

Connect pull up resistor as shown



Oil temperature input option includes wiring with mini timer plug.

Order one additional temperature sensor separately on order form.



Oil pressure transducer connections, includes wiring and plug to use analogue oil pressure input on ECU.

Order transducer and wiring connections separately on order form.



Full throttle gearshift capability. Includes wiring tails to connect to existing gearshift switch/load cell and wiring tails to connect to existing gearshift barrel position sensor.

ECU AND WIRING LOOM ORDER FORM		
YOUR NAME		
VEHICLE MODEL		
YEAR		
ECU TYPE DTA S40/S60 ETC		
PLEASE TICK OPTIONS	COST INC VAT	TICK THIS BOX
VARIABLE VALVE TIMING SOLENOID PLUG	NO COST OPTION	<input type="checkbox"/>
4 INJECTOR WIRING	INCLUDED	<input type="checkbox"/>
8 INJECTOR WIRING	£30.50	<input type="checkbox"/>
SENSOR KIT INC WATER TEMP, AIR TEMP, THROTTLE POSITION SENSOR	£107.00	<input type="checkbox"/>
BOSCH MAP SENSOR 1.05BAR	£44.00	<input type="checkbox"/>
FAN RELAY ACTIVATION WIRE	NO COST OPTION	<input type="checkbox"/>
FAN RELAY WITH WIRE TAIL FOR +VE FEED TO FAN(S) UP TO 20A OUTPUT	£25	<input type="checkbox"/>
LAUNCH CONTROL WIRING AND DASH BUTTON SPECIFY 5V OR 12V WHEEL SPEED SENSOR	£35	<input type="checkbox"/>
LAUNCH RPM ADJUSTER KNOB AND WIRING	£25	<input type="checkbox"/>
BOSCH HALL EFFECT SENSOR FOR REAR WHEEL SPEED - LAUNCH CONTROL	£33	<input type="checkbox"/>
OIL TEMPERATURE SENDER WIRING TO ECU	£20	<input type="checkbox"/>
OIL TEMP SENSOR	£24.24	<input type="checkbox"/>
OIL OR FUEL PRESSURE TRANSDUCER WIRING TO ECU CAN'T BE USED WITH LAUNCH CONTROL ON S40	£25 EACH	<input type="checkbox"/>
VDO 10 BAR OIL PRESSURE TRANSDUCER	£70.68	<input type="checkbox"/>
DTA CONNECTOR LOOM WITH PULLUP RESISTOR FOR ALL DTA ECUs	£18.00	<input type="checkbox"/>
FULL THROTTLE GEARSHIFT CAPABILITY - WIRING TO ECU FOR SHIFT AND POSITION SENSOR PLAIN WIRE TAILS - PLUG AND PINS MUST BE SUPPLIED IF REQUIRED	£10	<input type="checkbox"/>
DTA CONNECTION CABLE FOR SERIAL PORT	£54	<input type="checkbox"/>
SERIAL TO USB CONVERTOR	£24	<input type="checkbox"/>

Please list any other requirements you have below:

If you get stuck please ring for help and advice.

www.pure-motorsport.co.uk

enquiries@pure-motorsport.co.uk

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