

ELECTRIC POWER ASSISTED STEERING (EPAS) FREQUENTLY ASKED QUESTIONS



Question	Product	Answer
I have no power steering	EPAS18 – Ultra ECU EPAS35 – Midi ECU EPAS104 – Pro Race ECU	<ol style="list-style-type: none">1. Check that +12v and Ground is connected and present to both the electronics and motor power/high power connectors.2. Check that both the torque sensor and motor are connected to the wiring harness.3. Ensure the vehicle is down on the ground and the EPAS warning light is not lit.4. Ensure the rotary switch is not in position 1 (off).5. Ensure the motor gearbox has been installed the correct way around (check installation drawing).
	EPAS108 – Pro Street ECU	<ol style="list-style-type: none">1. Check that +12v and Ground is present and connected to the ECU two pin plug.2. Check that the thin red cable is connected to Ignition +12v.3. Check that both the torque sensor and motor are connected to the wiring harness.4. Ensure the vehicle is down on the ground.5. Ensure the motor gearbox has been installed the correct way around (check installation drawing).

ELECTRIC POWER ASSISTED STEERING (EPAS) FREQUENTLY ASKED QUESTIONS



Question	Product	Answer
Steering Wheel turns on its own when power is applied	EPAS18 – Ultra ECU EPAS35 – Midi ECU EPAS104 – Pro Race ECU	Torque sensor requires calibration. Follow calibration procedure in the installation guide
	EPAS108 – Pro Street ECU	Torque sensor requires calibration. Return system to supplier for service. Charges may apply.
Steering is lighter in one direction than the other	EPAS18 – Ultra ECU EPAS35 – Midi ECU EPAS104 – Pro Race ECU	Torque sensor requires calibration. Follow calibration procedure in the installation guide
	EPAS108- Pro Street ECU	Torque sensor requires calibration. Return system to supplier for service. Charges may apply.
What happens if I do not use a steering angle sensor?	EPAS18 – Ultra ECU EPAS35 – Midi ECU	If you hold the steering against the stops, the ECU will continue to apply power to the motor and the motor or the ECU could become damaged.
My steering wheel shakes when I switch off the system	EPAS104 – Pro Race ECU	If only the electronics +12v is switched off and the high power +12v is still live then the steering wheel may shake briefly when powering down – this is perfectly normal

ELECTRIC POWER ASSISTED STEERING (EPAS) FREQUENTLY ASKED QUESTIONS



Question	Product	Answer
What if the electric power steering fails?	EPAS18 – Ultra ECU EPAS35 – Midi ECU EPAS104 – Pro Race ECU EPAS108 – Pro Street ECU	In the unlikely event that the system should fail, then manual steering is still retained.
What is the operating voltage of the system?	EPAS18 – Ultra ECU EPAS35 – Midi ECU EPAS104 – Pro Race ECU EPAS108 – Pro Street ECU	10 to 16v DC
What is the operating temperature of the system?	EPAS18 – Ultra ECU EPAS35 – Midi ECU EPAS104 – Pro Race ECU	-40 to +125C. The EPAS firmware warns of an over temperature condition (by flashing fault LED and reducing power) when the internal ECU heatsink temperature exceeds 100c. The unit shuts down completely at 120c and reverts to manual. It cannot be restarted unless temperature is less than 95c.
	EPAS108 – Pro Street ECU	-40 to +100C. If the ECU overheats then the unit will shut down until the temperature reduces and the power is cycled.
Can this be used on a positive earth vehicle?	EPAS108 – Pro Street ECU	Yes providing the ECU casing is electrically insulated from the chassis.

ELECTRIC POWER ASSISTED STEERING (EPAS) FREQUENTLY ASKED QUESTIONS



Question	Product	Answer
What is the IP rating?	EPAS01 – Motorsport Assy EPAS18 – Ultra ECU EPAS35 – Midi ECU EPAS100 – Pro MGU EPAS102 – Pro Column EPAS104 – Pro Race ECU	IP64. The units are splash proof but should be mounted in a dry environment away from direct heat.
If I damage a component is it serviceable?	EPAS01 – Motorsport Assy EPAS18 – Ultra ECU EPAS35 – Midi ECU EPAS100 – Pro MGU EPAS102 – Pro Column EPAS104 – Pro Race ECU	All EPAS units are serviceable. Minimum service charge applies.
What is the baud rate for the CAN Bus?	EPAS18 – Ultra ECU EPAS35 – Midi ECU	Standard baud rate is 1 Mbit/s. 500 kbit/s or 250kbit/s are also available upon request at time of order.
Does the ECU contain a CAN termination resistor?	EPAS18 – Ultra ECU EPAS35 – Midi ECU	No.
Does it matter which way around I fit the steering motor?	EPAS01- Motorsport Assy EPAS100 – Pro MGU EPAS102 – Pro Column	Yes! They must be fitted the correct way around. Please refer to the individual product datasheet for further information.

ELECTRIC POWER ASSISTED STEERING (EPAS) FREQUENTLY ASKED QUESTIONS



Question	Product	Answer
What type of vehicles have these been used on?	EPAS01 – Motorsport Assembly EPAS18 – Ultra ECU	Used extensively at professional level, yet suitable for all forms of motorsport, the EPAS Ultra is our most powerful system. It is fully programmable and can be tuned exactly to suit your application.
	EPAS01 – Motorsport Assembly EPAS35 – Midi ECU	The system is ideal for applications where overheating of the ECU is unlikely to be an issue, such as lighter vehicles used for track days. The Midi system retains all the programmability of the Ultra system.
	EPAS100 – Pro MGU EPAS102 – Pro Column EPAS104 – Pro Race ECU	Ideal for all forms of motorsport, where a simple plug and play system is required, without the need for the programmability or power of the Ultra or Midi systems.
	EPAS100 – Pro MGU EPAS102 – Pro Column EPAS108 – Pro Street ECU	Designed with road use in mind, Pro Street is perfect for classic cars, kit cars and hot rods – like all of our systems, it is simple to install and easy to configure.
What is the maximum working angle for the UJ	All Universal Joints	Joints are designed to work up to 35 degrees.