

Off Road Engineering  
(949) 581 2991  
Electronic Hand Throttle - Model EHT250  
For 2005-2006 Jeep Wrangler

Installation Instructions

Parts included: EHT250 control module, handheld remote, throttle body harness, installation kit.

1. Disconnect the negative cable from the battery to avoid damage to the electrical system during installation.
2. Mount the control module under the dash on the driver's side near a rubber firewall plug. Plug the throttle body wire harness into the control module. Install the handheld remote in a desired location and route the connector to the control module. Plug it into the receptacle labeled "Handheld Remote."
3. Connect power (red wire) and ground (black wire) to the module:  
Connect the red power wire to the supplied fuse tap. Next, remove the radio or auxiliary fuse and plug into the fuse tap. Then push the fuse tap into the vacant radio or auxiliary fuse slot. (The EHT250 must get power from a 12V source which is ignition on, OFF during cranking). Connect the black ground wire to a good chassis ground.
4. Remove one of the rubber plugs in the firewall and feed the wire harness through to the throttle body. Cut a hole in the rubber plug large enough for the wire loom and replace the plug. Unplug the connector going to the idle air control motor located on the throttle body (same connector type that is on the Electronic Hand Throttle harness). To do this, you must first slide the red tab back, then depress the black tab down. Next, plug the vehicle's male connector into the female connector of the EHT wire harness. Then plug the male connector of the EHT into the idle air control motor located on the throttle body. Once all connectors are plugged in, be sure to slide all red tabs forward to lock in.
5. Route the wire harness away from all moving parts and heat, and secure with the supplied wire ties. Reconnect the negative cable to the battery and install all covers.  
After the installation is complete, start the engine and let it warm up for a few minutes. Turn on the EHT. The green light on the handheld remote will indicate that you have manual RPM control. Press the toggle switch up and the engine RPM will increase. Release the toggle switch when the desired RPM is reached. The engine RPM will remain at the set level. Press the toggle switch down to set the engine RPM back to its normal or desired level. Turning the EHT off will also return to normal idle speed. RPM range is typically from below idle to 1500-1800 rpm with no load applied. The rpm level will increase further if the vehicle is moving in gear. If the vehicle is operated below the factory set rpm level for an extended period of time, the EHT250 may feel warm to the touch. This is condition is normal, and results from the aluminum enclosure dissipating heat. No harm to the unit or vehicle will result from this condition.

Applications:

**Rock Crawling:**

Simply adjust the engine RPM to control your speed by pressing the toggle switch up or down. To slow down, the brake may also be applied. The EHT will give vehicles with manual transmissions the feel of an automatic transmission by applying the brake.

**Down Hill Descend:**

On steep downhill descends, adjusting the engine RPM to below the factory set idle speed will dramatically decrease the downhill speed. Just be careful not to stall the motor when reaching level ground.

**Winching:**

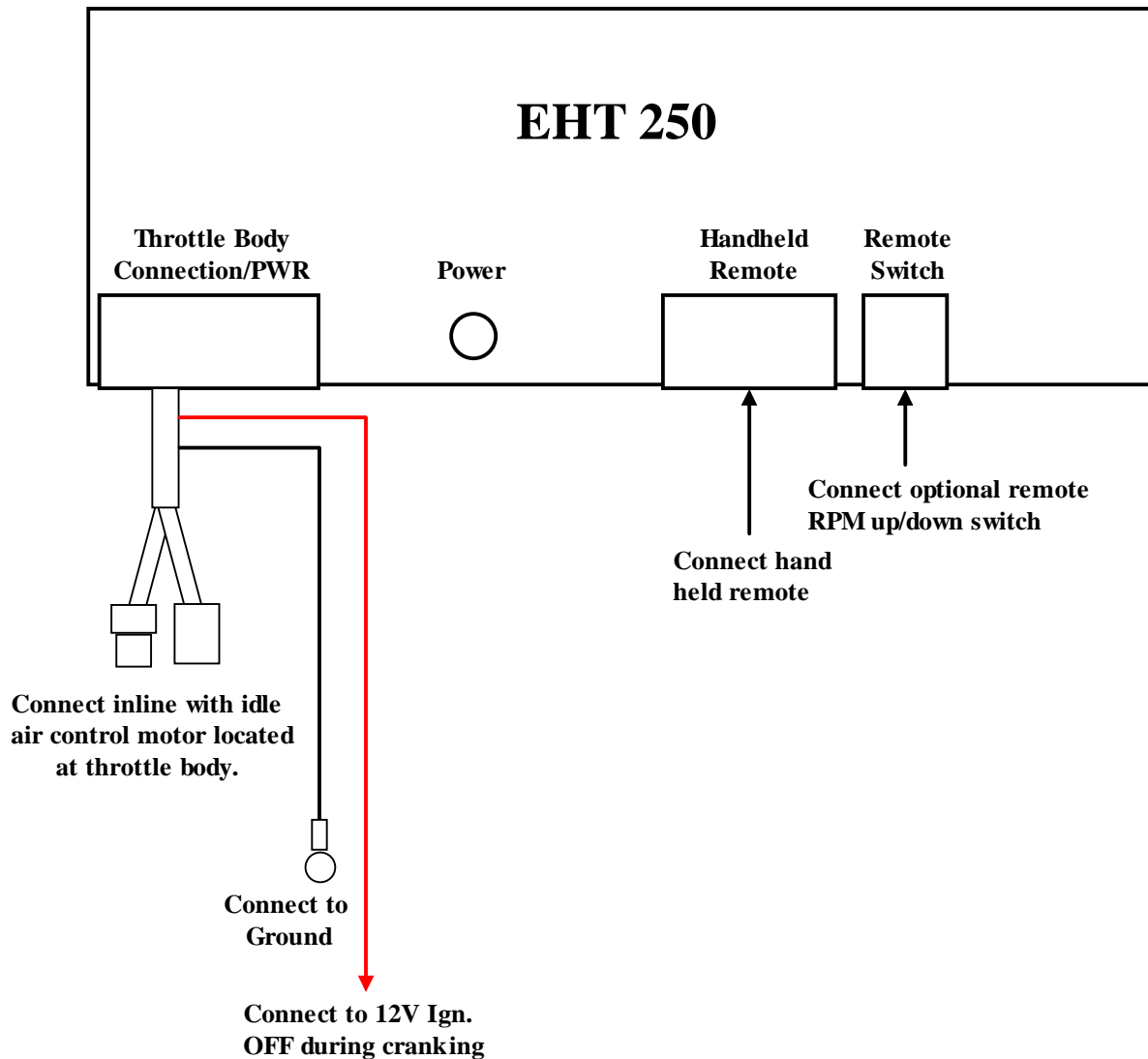
Adjust the EHT to around 1300 RPM to increase the alternator's current output and keep the battery from draining. This allows you to keep your foot off the accelerator pedal and on the brake, if needed.

**Running Air Compressors and Welders:**

Adjust the EHT up to 1800 RPM and your engine will supply sufficient power for welding and electrical air compressors.

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EHT250 Wiring diagram



**WARNINGS:**

- Read and follow the Installation and Operating Instructions thoroughly.
- The EHT is for off-road use only, use only with the transfer case in low range.
- Do not press the toggle switch with the EHT turned on, and the motor not running.
- Do not turn the engine off with the RPM below the factory set level or above 1000 RPM.
- Do not leave your vehicle unattended with the RPM adjusted above the factory set level.
- If the EHT causes the engine to stall (by adjusting the engine RPM too low) turn the EHT off before starting the engine.