

2003 Mini Cooper power steering inoperative

(Will work for other model year Mini Coopers but wire colors may vary)

Courtesy of www.PDXoil.com

1: Locate two-pin harness connector that contains one heavy red and one heavy brown wire on top of Electro-Hydraulic Power Steering Pump Unit (EHPS) EHPS is located behind engine and in front of power steering rack. Remove EHPS cooling fan to gain access to wire connectors.

Check for battery voltage on the heavy red wire.

This wire should have battery voltage at all times coming from fuse FL4.

Check for a good ground at the heavy brown wire next to the heavy red wire.

2: Locate three-pin harness connector on EHPS containing small wires.

Check for switched battery voltage on green/white wire.

This wire should have battery voltage when ignition switch is in run position coming from fuse F39

Note: Engine does not need to be running for this wire to have voltage.

Ignition just needs to be in run position.

Check for voltage at yellow wire with engine running.

Power for this wire comes from Alternator D+ circuit and should be hot with engine running.

Do not probe violet/white wire. This wire sends diagnostic information from the EHPS to the ECU

3: If all power and grounds are good EHPS is faulty and needs to be replaced.

Notes:

1: Check that EHPS cooling fan comes on with engine cooling fan.

If EHPS cooling fan does not function, EHPS will overheat and be damaged.

2: For early production Mini Coopers, up to production date February 2002, there is a wiring update for the EHPS cooling fan that isolates the EHPS cooling fan from the engine cooling fan power supply. See TSB #M32 03 04

3: Dorman makes a good replacement EHPS that I have used and works well.

Dorman P/N: 599-950 Check with your local auto parts store