# TCM ADAPTIVE RELEARN PROCEDURE (NO SCAN TOOL)

# FOR 2008–2010 FORD F-250/F-350 SUPER DUTY – 6.4L POWER STROKE DIESEL

### (NO SGAN TOOL REQUIRED)

#### Step 1: Reset TCM Memory (Optional but Recommended)

- Disconnect both negative battery cables.
- Touch the cables together for 30 seconds to fully drain power (clears TCM adaptive memory).
- Reconnect batteries and ensure tight connections.

#### Step 2: Start and Warm Up

• Start the engine and let it idle for 10–15 minutes until coolant and transmission temps reach normal operating range (around 190–200°F for coolant).

Don't rev the engine — just idle.

#### Step 3: Perform the Adaptive Drive Cycle

You're aiming to expose the transmission to various load conditions so it can relearn shift timing and line pressure.

#### Phase A - Light Acceleration

- From a full stop, gently accelerate using 15-25% throttle.
- Keep RPMs between 1,500-2,200 RPM.
- Shift through all gears up to around 45-55 MPH.
- Let off throttle and coast to a stop (no hard braking).
- Repeat this 3-5 times.

#### Phase B - Moderate Acceleration

- From a stop or rolling start, apply 30-50% throttle.
- Let the truck shift normally up to 60 MPH.
- Keep RPMs under 2,800 RPM.
- Gently coast or brake to a stop.
- Repeat this 2–3 times.

#### Phase C - Highway Cruise

- Maintain steady speed at 55-65 MPH for 5-10 minutes.
- Use cruise control if available, or keep throttle consistent.
- Allow the TCM to learn steady-state and torque converter behavior.

#### Phase D - Stop-and-Go Traffic Simulation

- Drive at low speed (10-30 MPH), including turns and rolling stops.
- Let the truck shift between 1st, 2nd, and 3rd gears repeatedly.
- Do this for at least 10-15 minutes if possible.

#### Step 4: Repeat if Needed

- It may take 2-3 separate drive sessions for full adaptation.
- Avoid towing or heavy throttle during the relearn period.
- Shifting should gradually smooth out as the TCM adapts.

#### **Important Notes:**

- Harsh or delayed shifting at first is normal.
- If shifts remain erratic after relearn, a scan tool may be needed to:
- Reset TCM adaptations
- Check for fault codes
- Flash a calibration update if needed

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