

2021 Technical Seminar Topics



General

All Vehicles

- Unable to Clear DTCs

VW, Toyota, Nissan, Ford, Mercedes, Dodge and ZF

- Shift Related Issues

6L50, 8L45

- Colorado/Canyon Clunk Noise

10L80

- Various ECM, Communication DTCs, Shifting and Driveability Concerns

Chevy Trucks and Vans

- Various ECM DTCs, Shifting and Driveability Concerns
- MAF and Lean DTCs, Shifting and Driveability Concerns

GM Applications

- Swapping Computers, GM Global Electrical Systems

Exhaust Flow Control Valves

- Driveability and Shift Issues

Honda

- Solenoid Electrical Codes, Erratic Shift Complaints

Grounds That Kill a Job

- Solenoid Electrical Codes, Erratic Shift Complaints

GM

10L1000

- Introduction
- Fluid Capacity
- Clutch Layout
- End Play
- T87A Delphi TCM
- Speed Sensors and IMS

- Range Sensor/IMS
- Transmission Temperature Sensor
- Range Sensor and Temp Sensor Schematic
- Lower Valve Body Solenoid/Valve Identification
- Solenoid Schematic
- Linear Solenoids
- Variable Force Solenoid
- Shift Solenoid Range Reference Chart
- Upper Valve Body Identification
- Check Ball and Small Parts Locations
- Upper Valve Body Check Ball Locations
- PUN/TUN Solenoid Characterization (MCVM)
- Fast Learn

10L1000, 8L90, 9T40

- Solenoid Characterization

LCT 1000

- P0776 Set
- Bump When Shifting Into Reverse

6L50 Colorado/Canyon

- Intermittent Slip Into Reverse, No Reverse

6L80, 6L90

- No Movement, Slip, Shudder in 1st Gear Flare on Shifts, 1-2 Bump

6T70/6T75/6T80

- Shudder, Flare, Bump

9T Applications

- P0747 Shift Solenoid Valve 1 Stuck On
- PUN Update RPO M3U, M3D, M3E, M3T, M3V
- No Upshift or Tie-Up on the 1-2 Shift, Possible P02731 Set

8L90

- Clunk Noise/Lack of Acceleration
- Tie-Up, Possible DTCs P2724, P2727 and/or P2729 May Be Set
- 2-3-4-6-8 (C4) Housing Cracks, Possible P2714

8L90, 8L45

- IMS Update

8L90, 8L45

- Burned, Slipping/Flare 2-3-4-6-8 Clutch, Possible P2714 Set
- Cover Difficult to Install
- Shift Concerns
- Harsh 1-2 First Shift of the Day

CVT7, JF015E, RE0F11A, FICJB

- MFL Chevy Spark DTCs Set After Repairs

K Trucks

- Service 4x4 Message Displayed DTC C0398 Stored
- Service 4x4 Message Displayed Multiple DTCs Stored

Ford

5R55S

- Shifter Operation

8F35

- Gear Ratios

6R140

- Noise

Ford PTU

- Fluid Leaks

6F35 Escape 1.5L, 2.0L

- Auxiliary Pump Filter and Seals
- Auxiliary Pump Priming
- Auxiliary Pump Disable

10R80

- Intermittent Stuck in Park
- Pump Noise
- Fluid Level Check Procedure
- Line Pressure Hydraulic Circuit
- Auxiliary Pump
- Solenoid Identification
- Valve Body
- Lower Valve Body

- Valve Body Dampers and Check Valves, Lower Valve Body
- Shift Solenoid Remove and Install
- Lower Valve Body, Variable Force Solenoids
- Solenoid Band Numbers
- Lower Valve Body Identification
- Shift Solenoid Strategy
- Adaptive Learning Drive Cycle
- Diagnostic Trouble Code Strategy
- Coolant Leak, Possible Transmission Overheat
- Various Shifting Concerns
- Pump Drive Gear Failure
- Clutch Identification

6R80/6HP

- 3-4 Bind Up After Overhaul

4WD System

- Grinding Noise in 2WD

6F35

- Case Wear at Differential
- Generation II Valve Body Identification
- Generation II Fluid Pump Identification

Chrysler

68RFE

- 2019 Updates
- Cold Delayed Engagement/Slipping Around Corners
- No Movement After Rebuild

948TE

- Adaptation Memory Cells
- Clutch Adaptation Learn Procedure

M40

- Clutch Hydraulic System/Relearn

NAG 1, 722.6

- Speed Sensor Diagnosis

FCA

- Transmission Sales Codes

Import

Honda

- 5 Speed, V6 Units
- 5 Speed, 3 Shaft, V6 Units
- 5 Speed, 4 Shaft, V6 Units
- 5 Speed 4 Cylinder Units
- Acura 5 Speed 4 Cylinder Units

Honda/Acura 9 Speed

- End Cover Leaks

RE7R01A

- ATF Level Check/Fill Procedures

AC60E

- Introduction
- Gear Ratios
- Clutch Application Chart
- Clutches and Gear Train
- Transmission Tag Information
- Fluid Servicing
- Cooler Lines, Transmission Cooling System
- Line Pressure Testing
- External Sensor Locations
- Speed Sensor Function
- Speed Sensor Testing
- Speed Sensor Malfunction, Fail Safe
- Transmission Fluid Temperature Sensors
- Transmission Fluid Temperature Sensor Testing
- Park/Neutral Position Switch
- Solenoid Application Chart
- Solenoid Identification
- Solenoid Servicing
- Linear Solenoid Testing
- Conventional Linear Solenoid Operation
- Full Flow Linear Solenoid Operation
- SL Solenoid Testing
- Air Check Locations
- Valve Body Check Valve Locations
- Lower Valve Body Exploded View
- Upper Valve Body Exploded View
- Solenoid Fail Safe Modes

- ATF Thermal Degradation Indicator
- Transmission Adaptive Learn Reset
- Torque Converter Clutch Strategy
- Other Failure Shift Strategies