TEST NOTES FOR HYUNDAI TRANSMISSIONS

General connection notes:

- Always connect Power TranX using battery clip adapter.
- Boot TranX, Select Code and set to “Monitor Computer” before starting vehicle.
- Never perform a solenoid test with vehicle running or ignition powered.
- Never switch to “Shift test” When vehicle is in Park, Reverse or in motion. Always come to a stop and shift to Neutral. If the vehicle is in Park to Reverse the vehicle will go into failsafe throttle mode.
- Shifting gears in “Shift Test” with Lockup (DCC) ON will result in very harsh shifts and could stall engine.

Operational notes for VFS equipped transmissions:

- Codes 421 & 431 let user set VFS current (and therefore pressure) with pressure buttons. If user sets to a high pressure, shifts will be harsh. If user sets to low pressure, shifts will be soft.
- Codes 422 & 432 will drop VFS pressure to a low setting upon a shift, regardless of what user has entered in pressure buttons to perform a soft shift.
- Codes 423 & 433 will set VFS pressure to a medium setting upon a shift, regardless of what user has entered in pressure buttons to perform a firm shift.
- Codes 424 & 434 will set VFS pressure high upon a shift, regardless of what user has entered in pressure buttons to perform a very firm shift.
- F4A w/VFS monitors ECU current on Channel 7 in Monitor mode, but uses Channel 9 to monitor current in Solenoid Test and Shift Test.
- F5A w/VFS monitors ECU current on Channel 9 in Monitor mode, but uses Channel 7 to monitor current in Solenoid Test and Shift Test.
- User must set duty cycle buttons for both VFS and Lockup (DCC) in solenoid test.
- All shift solenoids are driven at 50% duty cycle when powered in Solenoid Test or Shift Test. Since ohms is calculated from voltage powering unit and current supplied to solenoid, the reading will be about 2x as much as the specified resistance of the solenoid in service manuals (9 Ohms for a 4.5 Ohm solenoid).