SUBJECT:	AUTOMATIC TRANSMISSION OIL PRESSURE DATA TRANSFER

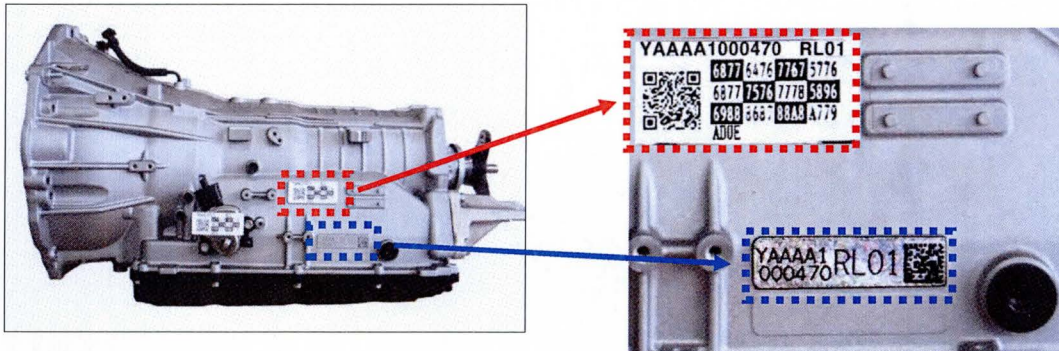*This TSB supersedes TSB 12-AT-010 to add 2015 Genesis Sedan (DH)*

Description:

This bulletin provides two procedures to transfer data to the TCM for 8-speed transmissions.
The purpose of the data transfer is to enable quicker adaptive learning.

1. <u>After replacing an 8-speed transmission</u>: Download the oil pressure data of the new transmission from the GSW server and then input the data into the TCM using the GDS.

2. <u>After replacing a TCM</u>: Back up the oil pressure data from the old TCM into the GDS and then transfer the data into the new TCM.

> **NOTICE**
>
> If the TCM has been replaced and the oil pressure data has not been entered (input) to the new TCM, the shift position indicator lamps on the instrument cluster (BH/DH and VI) or shift lever (BK) will blink with the ignition on and the engine off.

Applicable Vehicles: 2012~ Genesis Sedan 3.8L/4.6L/5.0L, 2012~ Equus 4.6L/5.0L and 2013~ Genesis Coupe 2.0L/3.8L with 8-speed automatic transmission
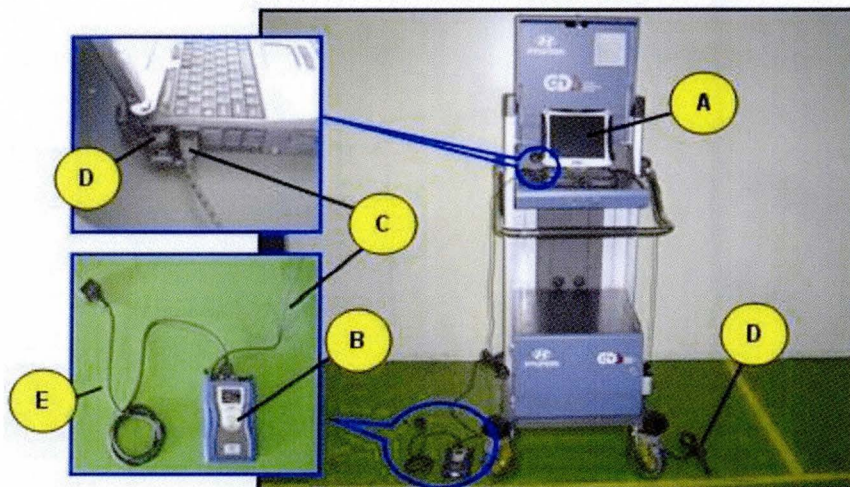
Warranty Information: Normal warranty applies.

Labor operation for automatic transmission or TCM replacement includes the time for data transfer.

Circulate To: General Manager, Service Manager, Parts Manager, Warranty Manager, Service Advisors, Technicians, Body Shop Manager, Fleet Repair

GDS SYSTEM AND TCM UPDATE PRECAUTIONS:

- Connect the power supply connector (D) to the GDS.
- Connect the USB cable (C) between the GDS and the VCI (B).
- Connect the 16-pin DLC connector (E) from the VCI into the DLC located under the driver's side dash.

- Make sure the vehicle's battery is fully charged. If not, run the engine to charge the battery or attach a battery charger.
- Perform the input procedure with the ignition switch in the ON position and the engine off.
- Place the shift lever in Park.
- Turn off all lights (Do not leave the headlight switch in auto mode) and all accessories (including heater/air conditioner/fan, audio, heated seats, rear defroster, etc) to ensure the battery will not be discharged during the update.
- Perform the update with the ignition key in the ON position.
- Do not disconnect any cables connected to the vehicle or the GDS during the update.
- Do not start the engine or turn the ignition switch OFF during the update.
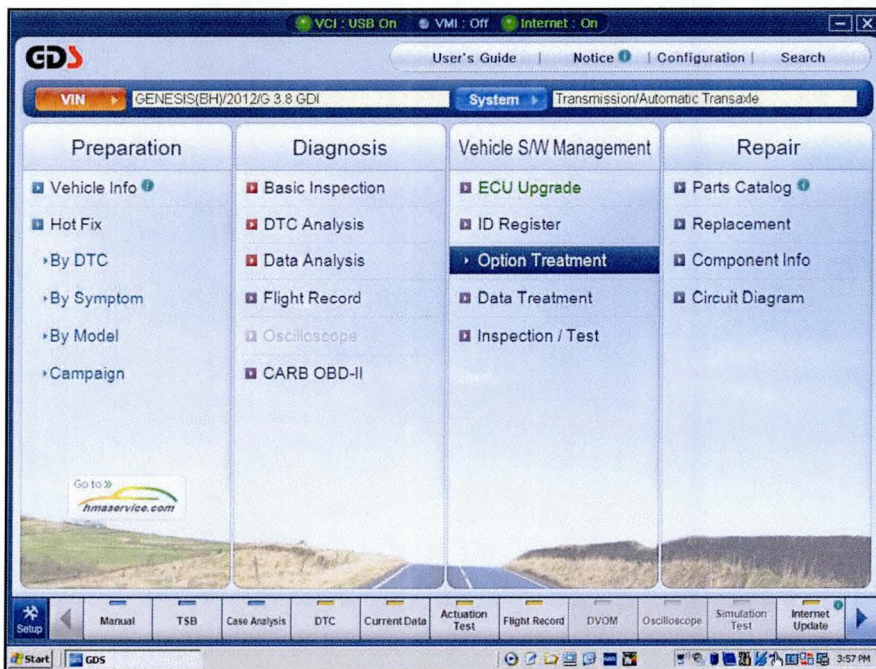
NOTICE

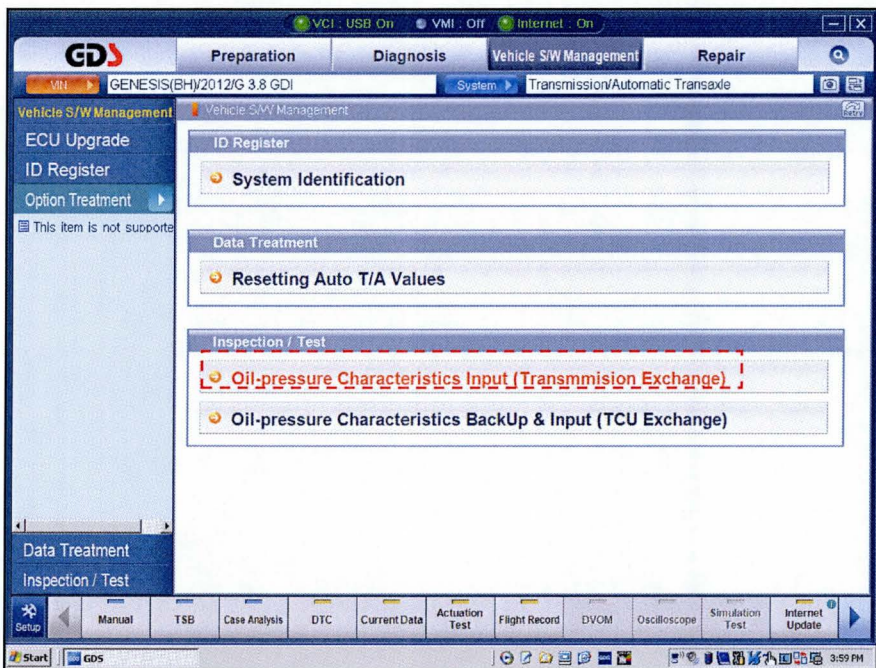If you encounter GDS related problems, call the GIT Helpline at 888-437-0308.

I. Procedure after replacing an automatic transmission

Oil pressure data input procedure using <u>Auto Mode</u> (With Internet connection)

1. Enter the VIN or select the vehicle model and model year and click **A/T** as the system. Click **OK**
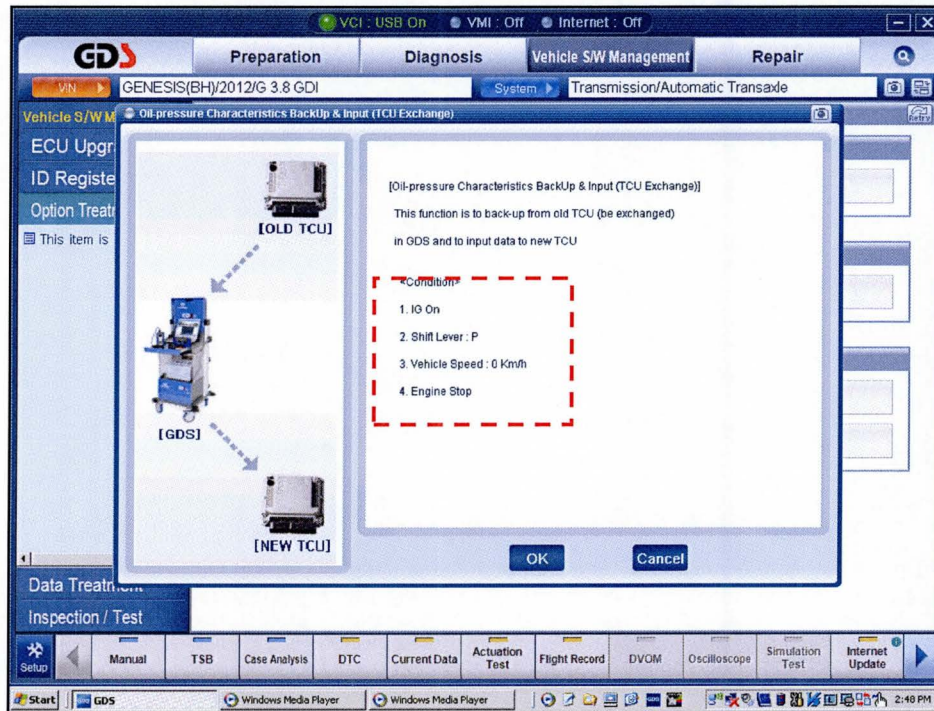2. From the GDS home screen, select **Option Treatment**.

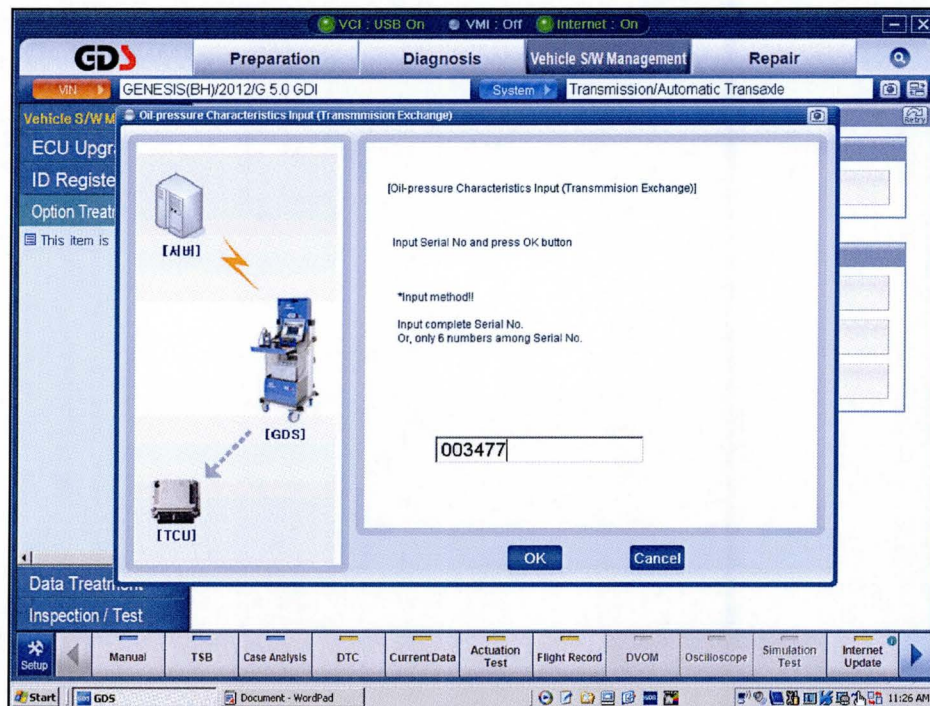3. Select the **oil pressure characteristics input (Transmission exchange).**

---

4. Confirm the vehicle conditions required for the oil pressure characteristics input and then select **OK**.

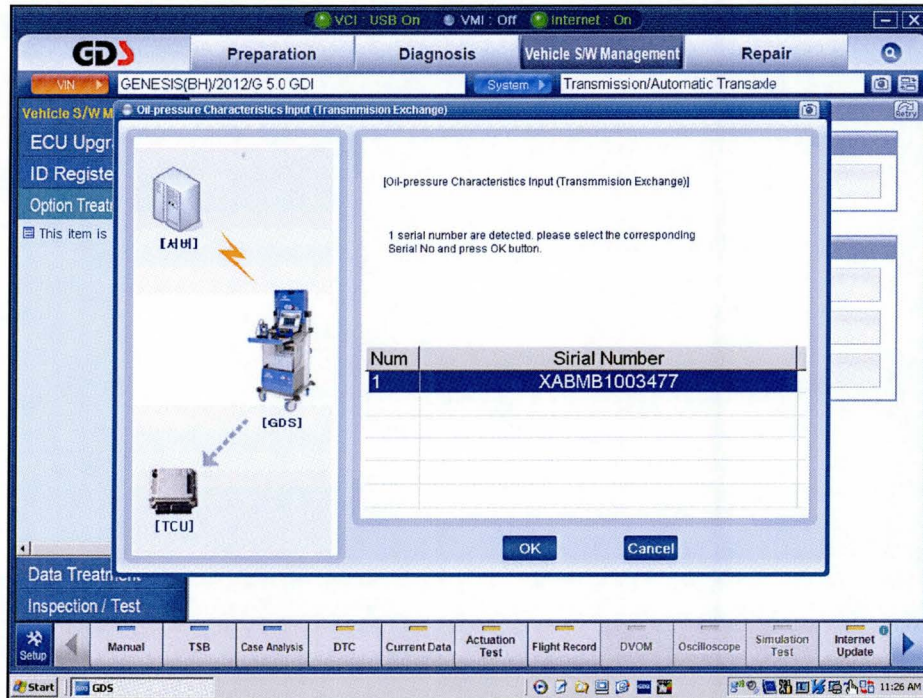5. Input the last six digits of the <u>new</u> transmission serial number and select **OK**.
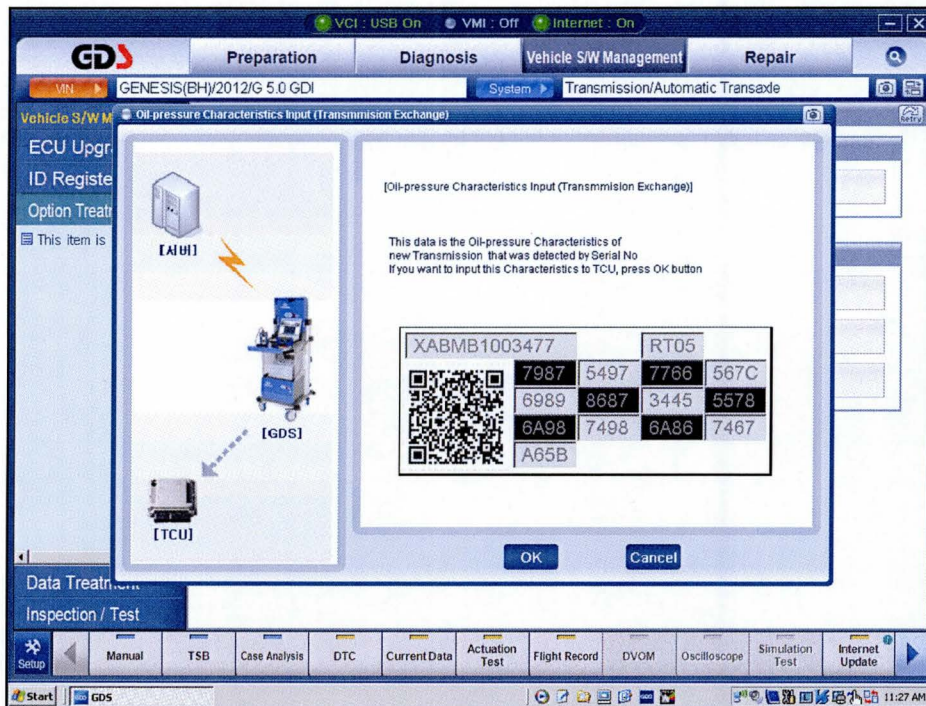

---

6. The serial number will display. Click on the serial number and then select **OK**.

7. The oil pressure data characteristics will display. Select **OK** to input the data.
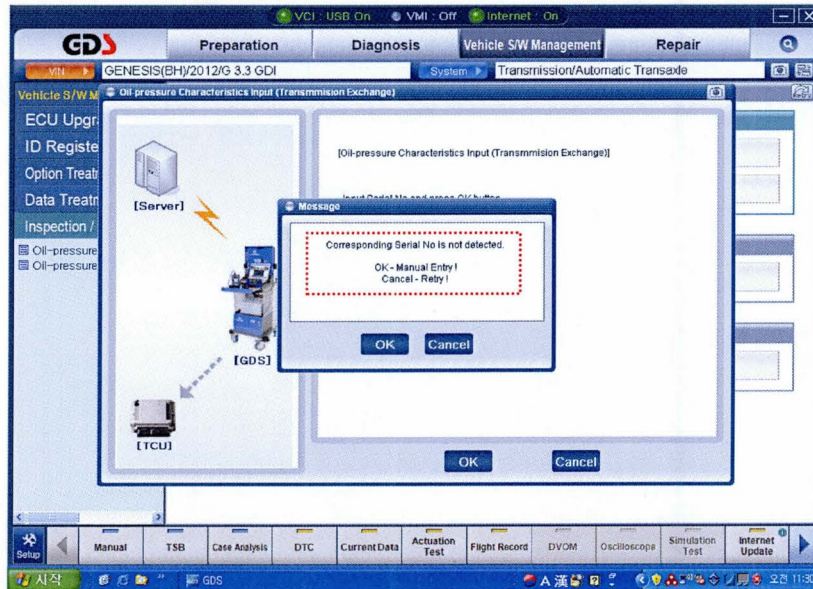

8. At the next screen, select **OK** to finish.

    NOTE: If the GDS cannot display the oil pressure data, go to Page 6, Manual Mode.
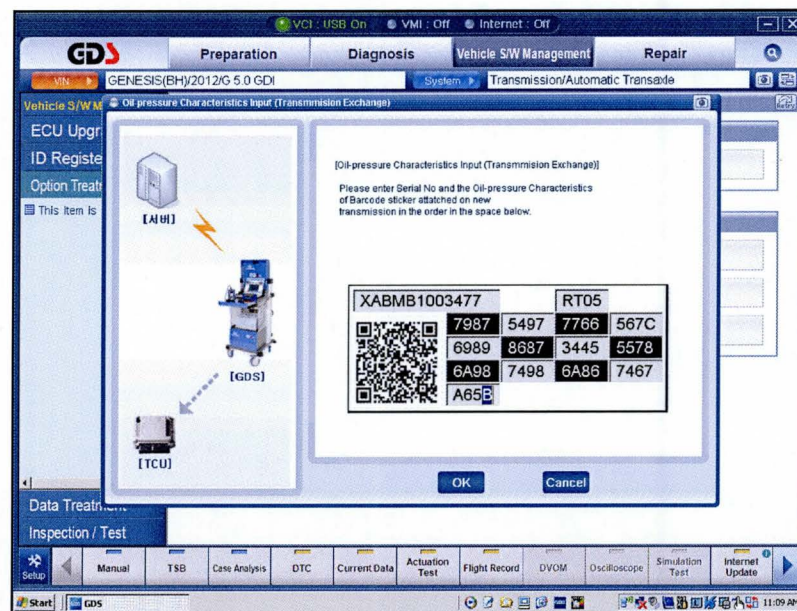
Oil pressure data input procedure using <u>Manual</u> Mode (No Internet connection)

1. If internet is not connected, the pop-up screen shown below will be displayed. Click **OK**.

2. Input the serial number and 56 digit oil pressure data from the new A/T sticker. Select **OK.**
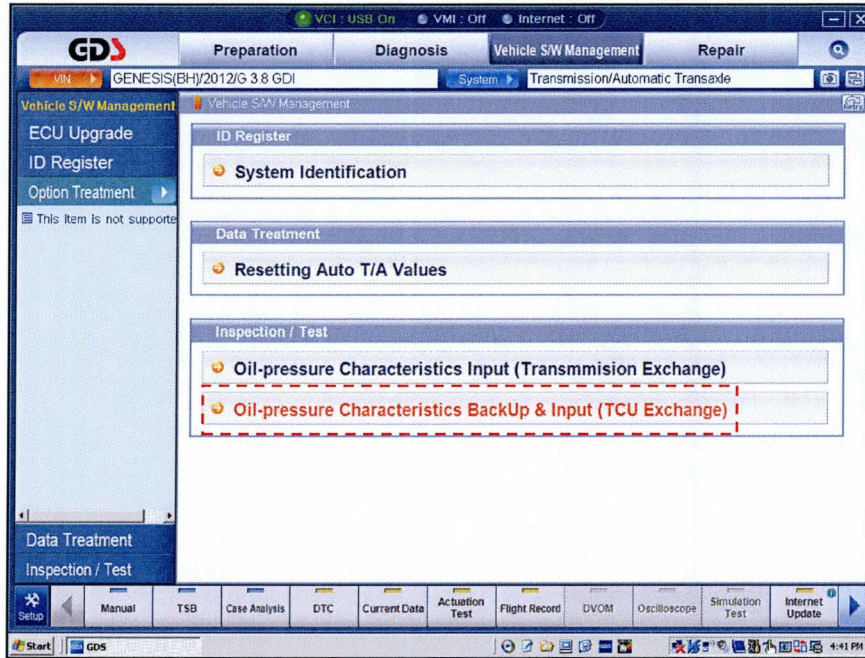

3. At the next screen, select **OK** to finish.

4. Erase any DTC in the Engine, ESC, EPB and SCC menus.

5. Clear any DTCs in the BlueLink system according to instructions in TSB 12-BE-005-2.

6. From the home screen, select **Option Treatment** and **Resetting Auto TA Values** and select **Reset**.

7. Attach a GDS and select A/T Menu, Current Data and TPS (Throttle Position Sensor). Relearn the TCM:
   - Move the shift lever from N->R->N->D five times, pausing for 3 seconds in each gear.
   - Accelerate the vehicle at a steady 15~30% TPS through gears 1-2-3-4-5-6-7-8. Repeat 5 times.
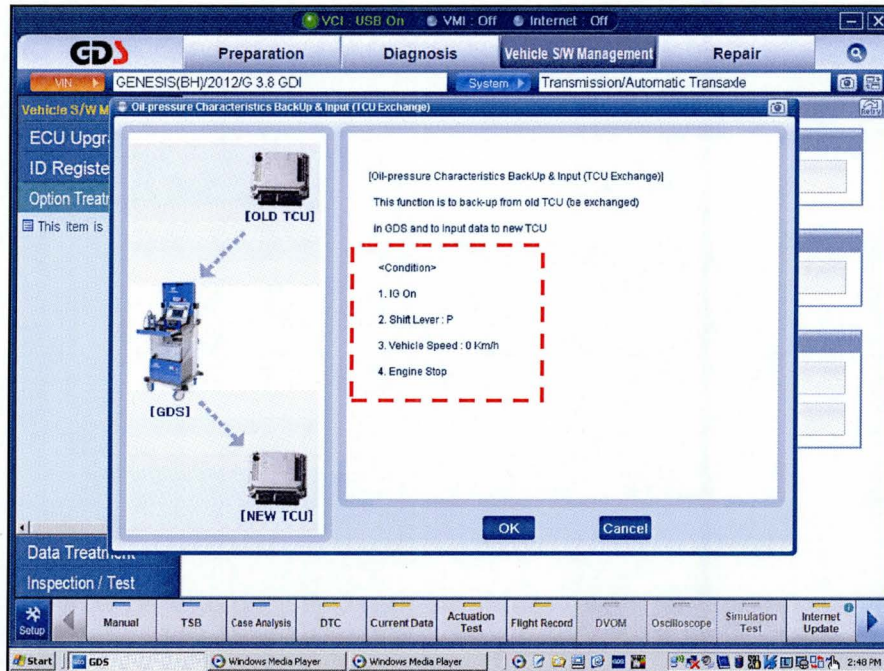

II. Oil pressure data input after replacing or exchanging a TCM

Oil pressure data input procedure using GDS

1. Enter the vehicle information by entering the vehicle's VIN or selecting the vehicle model and model year. Select **A/T** as the system and then click **OK**.

2. From the home screen, select **Option Treatment**. Select **Oil pressure characteristics back-up & input (TCU exchange)**.
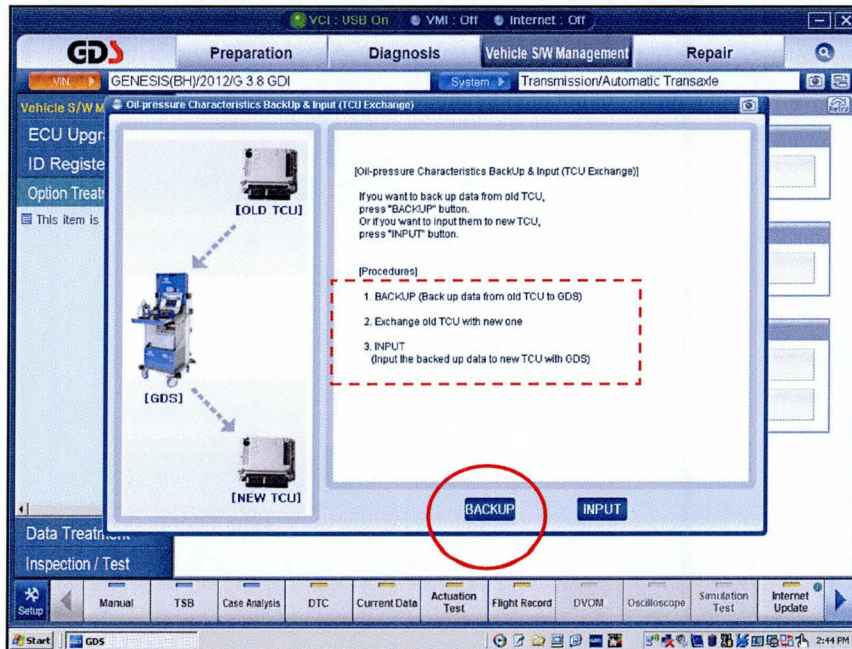

3. Confirm the vehicle conditions required for the **oil pressure characteristics input** before replacing the TCM and then click **"OK"**.
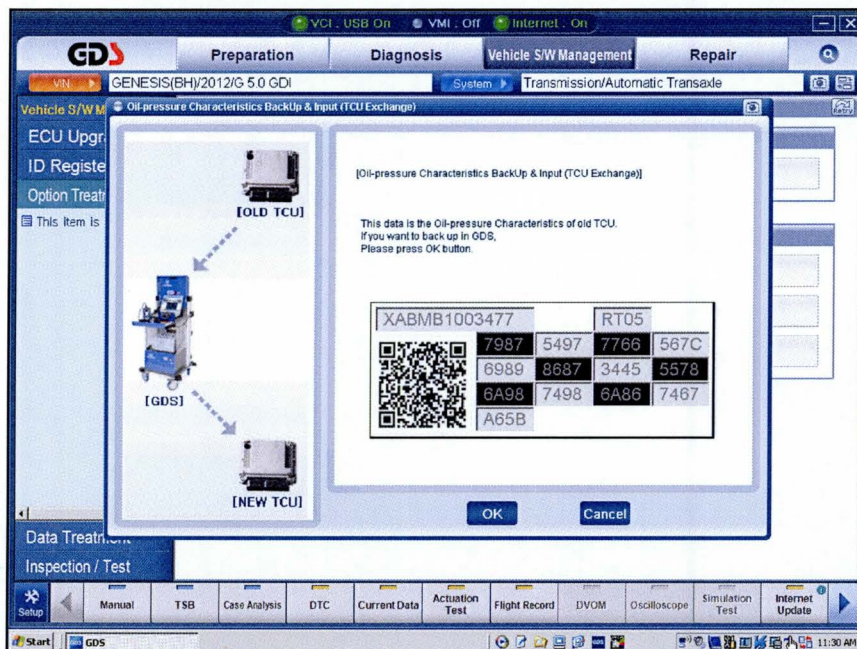
4. Click the **BACKUP** button to back up the oil pressure data of the old TCM in the GDS.

5. The screen will display the oil pressure characteristics of the old TCM. Select **OK** to back up to the GDS.

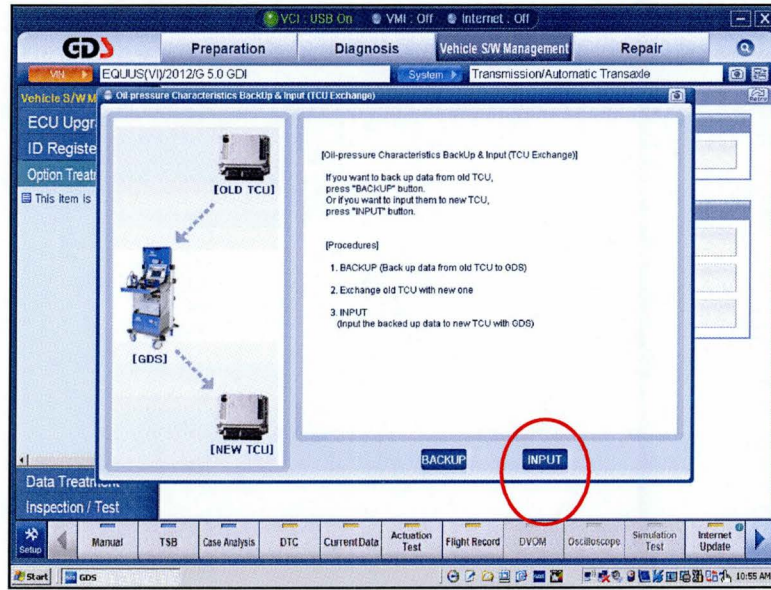6. At the next screen, select **OK** to finish.

   NOTE: If the GDS cannot communicate with the old TCM, go to Page 3 and perform Steps 1-8 (Auto Mode) or Page 6 and perform Steps 1~7 (Manual Mode).

7. Turn the ignition off and <u>install the new TCM</u>. Turn the ignition on.

8. From the Home screen, select Oil Pressure Characteristics Backup & Input (TCU Exchange).

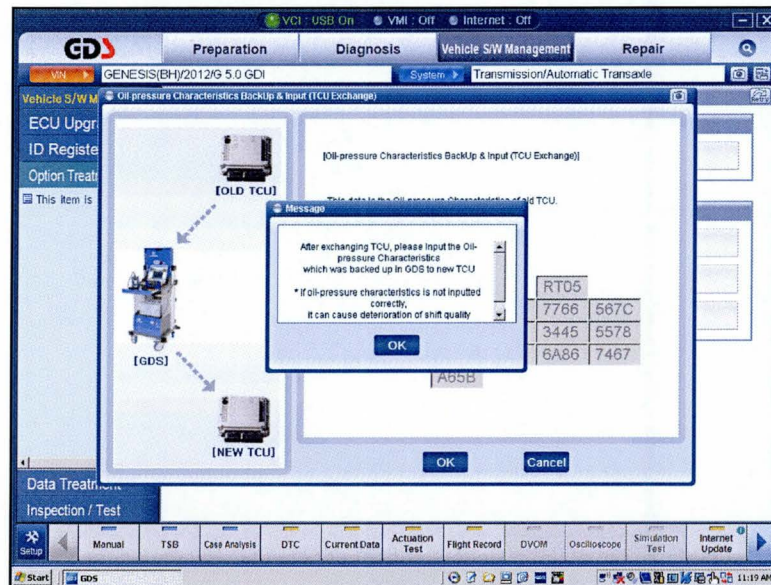9. At the next screen, select **OK**.

10. Select **INPUT** to input the data to the new TCM.

11. Confirm the oil pressure characteristics are identical to those of the A/T sticker. Select **OK** to input the oil pressure data from the GDS into the new TCM. Select **OK** to finish.

12. When the "Completed" message is displayed, confirm the P-R-N-D shift indicator light on the instrument cluster does not blink. If the light blinks, the oil pressure characteristics have not been successfully input to the TCM.

13. Erase any DTCs in the Engine, ESC, EPB and SCC menus.

14. Clear any DTCs in the BlueLink system according to instructions in TSB 12-BE-005-2.

15. From the home screen, select **Option Treatment** and **Resetting Auto TA Values** and then click **OK**.

16. Attach a GDS and select A/T Menu, Current Data and TPS (Throttle Position Sensor). Relearn the TCM:
    - Move the shift lever from N->R->N->D five times, pausing for 3 seconds in each gear.
    - Accelerate the vehicle at a steady 15~30% TPS through gears 1-2-3-4-5-6-7-8. Repeat 5 times.