



# HYUNDAI Technical Service Bulletin

Group	TRANSAXLE
Number	03-40-010
Date	JUNE, 2003
Model	2001-02 ACCENT 1.6L ATA

Subject  
**SHOCK OR DELAYED ENGAGEMENT DURING  
 PARK TO REVERSE OR PARK TO DRIVE SHIFT  
 TCM REPROGRAMMING INSTRUCTIONS**

**DESCRIPTION:**

Some 2001-2002 MY Accent 1.6L vehicles may experience the following condition:

- Shock or delayed engagement during Park to Reverse or Park to Drive shift

The following procedure describes updating the transaxle control module (TCM) software by using the Hi-Scan Pro.

**VEHICLES AFFECTED:**

MODEL	ENGINE SIZE	BODY TYPE	PRODUCTION DATE RANGE	VIN RANGE
2001 - 2002 Accent with automatic transaxle	1.6L	3 Door	Start of 2001 MY Production to July 11, 2002	Produced through KMHCG35C32U231298
		4 Door	Start of 2001 MY Production to July 11, 2002	Produced through KMHCG45C82U393322

**TCM SPECIFICATIONS:**

MODEL	ENGINE SIZE	TCM PART NUMBER	TCM ID	
			PREVIOUS	NEW
2001 - 2002 Accent	1.6L	95440-22950	AH2A44-F0 AH2A44-F1 AH2A44-F2 AH2A44-F3 AH2A44-90	AH2A44-91

### CAUTIONS BEFORE REPROGRAMMING:

1. Conduct reprogramming with the ignition key in the “ON” position.
2. Be careful not to disconnect any cables connected to the vehicle or Hi-Scan Pro during reprogramming.

**WARNING: If reprogramming is interrupted, the manual update procedure must be used.**

3. Do not start the engine during reprogramming.
4. Do not turn the ignition key off during reprogramming.
5. When the reprogramming is completed, turn off the ignition key for 20 seconds before starting the engine.

### REPROGRAMMING PROCEDURE:

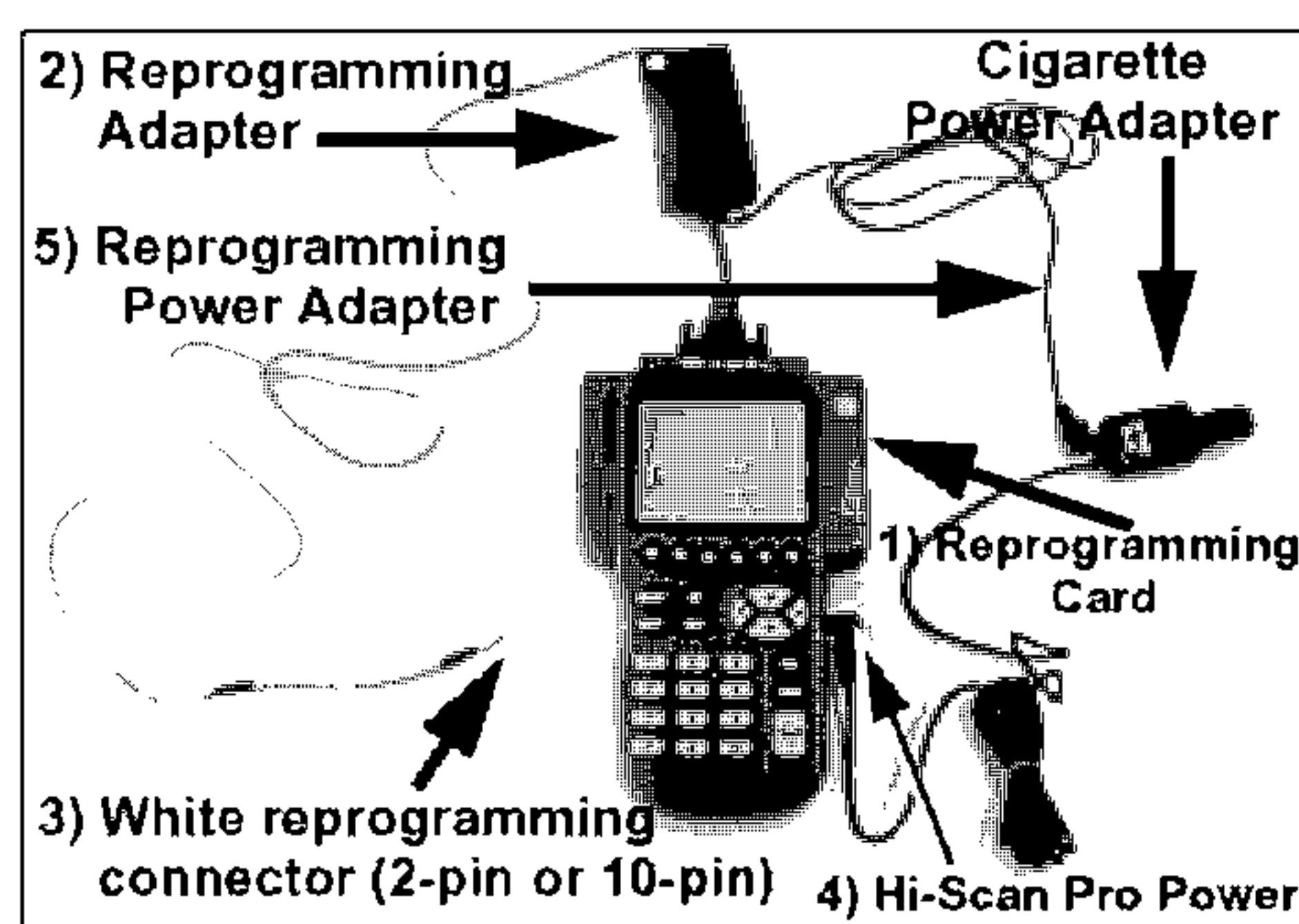
**NOTE: Verify that the vehicle is affected by identifying the vehicle production date and VIN.**

### AUTOMATIC UPDATE PROCEDURE:

1. Remove any software cards from the Hi-Scan Pro and insert reprogramming card into the Hi-Scan Pro top slot.
2. Connect the reprogramming adapter to the Hi-Scan Pro.
3. Connect the white reprogramming connector (2-pin or 10-pin) to the reprogramming adapter.

**NOTE: Use the correct reprogramming connector.**

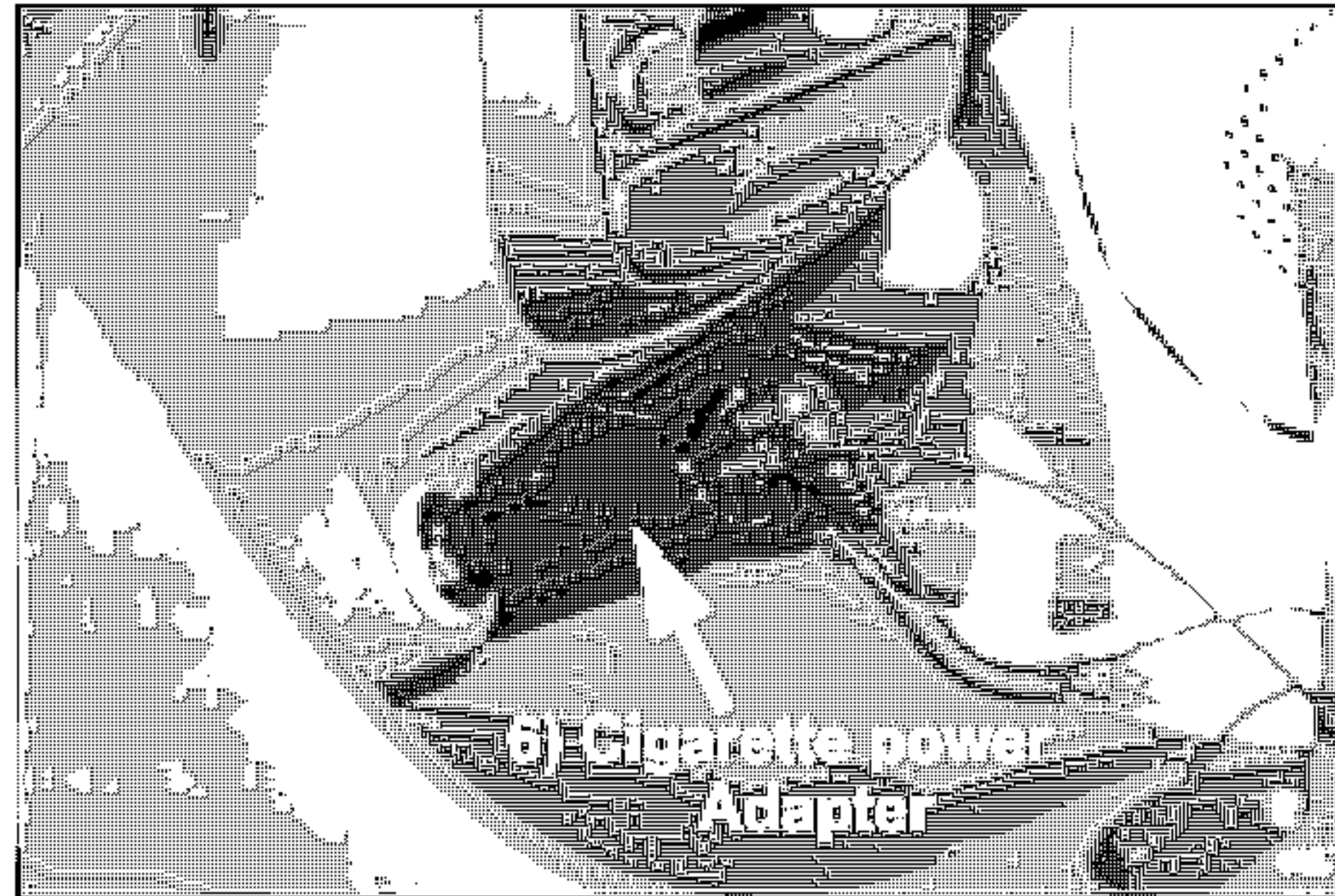
- 2001 Accent produced prior to 3/30/01: White 2-pin reprogramming connector.
- 2001 Accent produced from 3/30/01 and 2002 Accent: White 10-pin reprogramming connector.



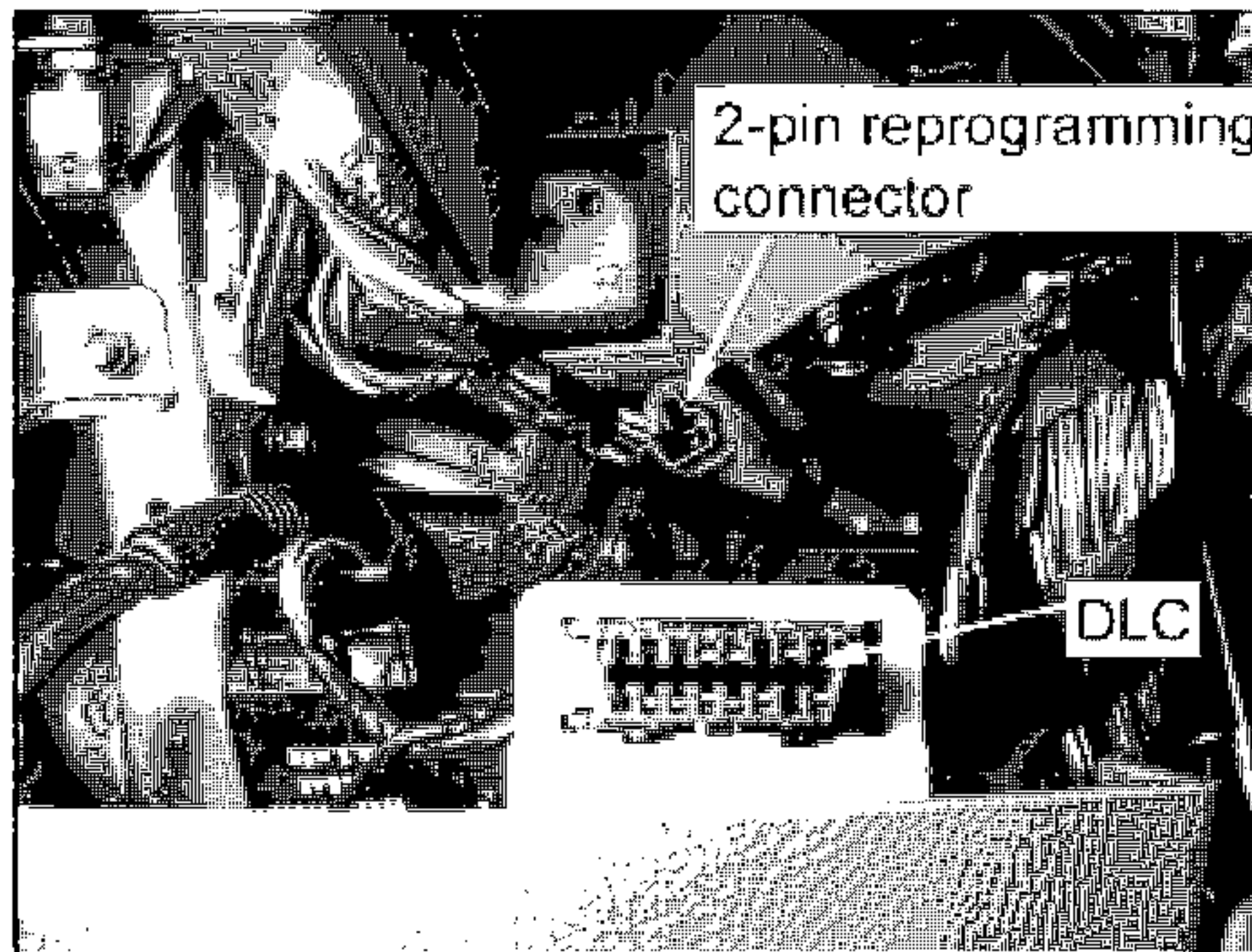


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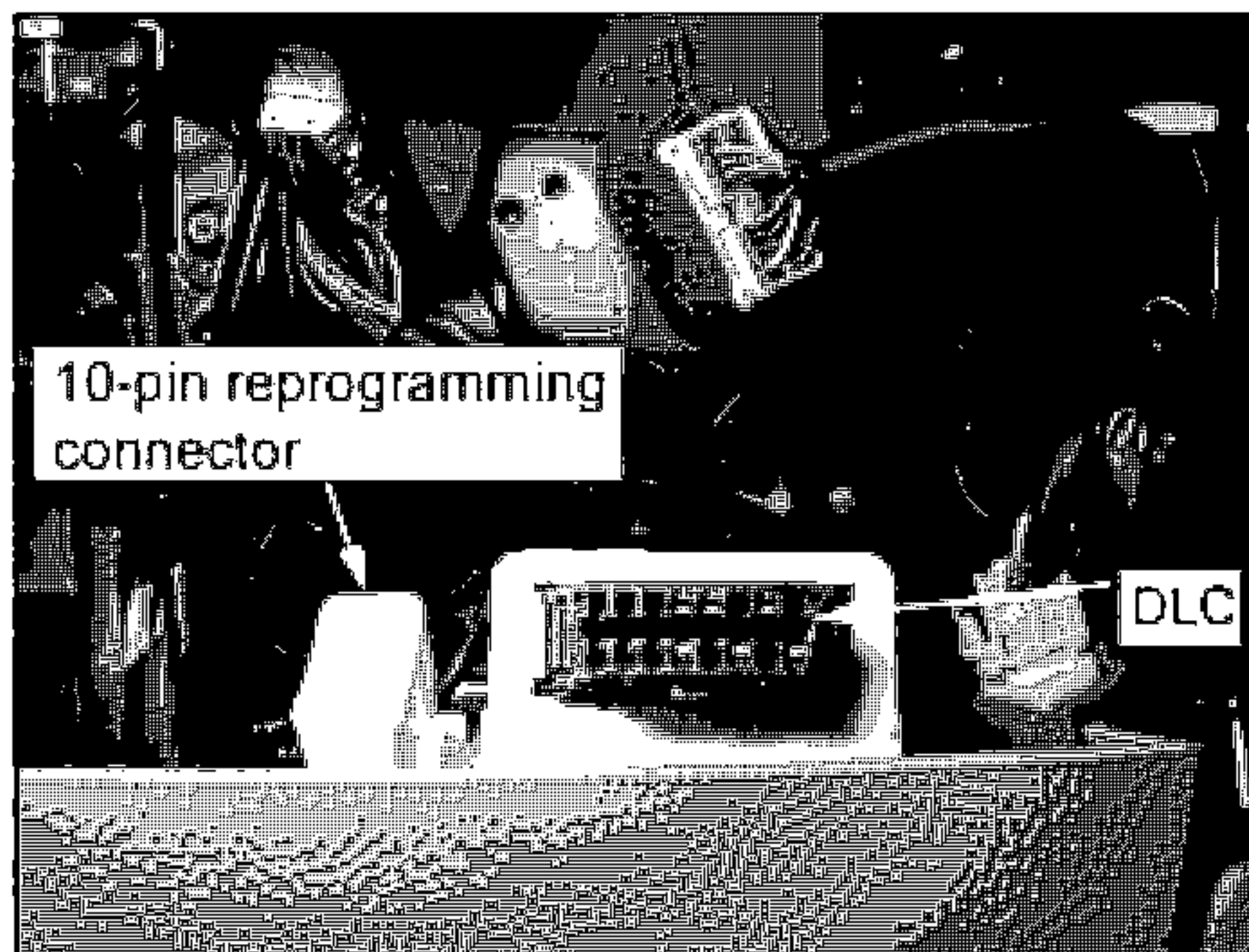
4. Connect power to the Hi-Scan Pro from the cigarette power adapter.
5. Insert the power cable from the reprogramming adapter into the cigarette power adapter.
6. Connect the cigarette power adapter into the vehicle cigarette power socket.



7. **2001 ACCENT produced prior to 3/30/01:** Connect the white 2-pin reprogramming connector to the vehicle black 2-pin TCM reprogramming connector under the dash. The 2-pin connector is located 6" above the Data Link Connector (DLC).



8. **2001 Accent produced from 3/30/01 and 2002 Accent:** Connect the white 10-pin reprogramming connector to the vehicle white 10-pin TCM reprogramming connector under the dash. The 10-pin connector is located next to the DLC.



9. Turn the ignition to the **ON** position.
10. Turn the Hi-Scan Pro **ON**.
11. Select option “**30. LC 1.6D AT P/R-D SHIFT SHUDDER**” and press **ENTER**.

CAMPAIGN SELECTION	
24. XG 300/350 REAR O2 SENSOR	
25. EF 2.4D 99/00MY RR O2 SENSOR(P0139)	
26. EF 2.4D 01/02MY RR O2 SENSOR(P0139)	
27. GK 2.7 BCM COMMUNICATION(CANADA)	
28. XG 300 MORNING SICKNESS (FLORIDA)	
29. XG 300 4-5 SHUDDER & REAR O2 SENSOR	
<b>30. LC 1.6D AT P/R-D SHIFT SHUDDER</b>	

12. Select option “**01. LC 1.6D AT P/R-D [AUTO MODE]**” and press **ENTER**.

LC RE-PROGRAMMING	
<b>01. LC 1.6D AT P/R-D</b>	<b>[AUTO MODE]</b>
02. LC 1.6D AT P/R-D	[ERROR MODE]

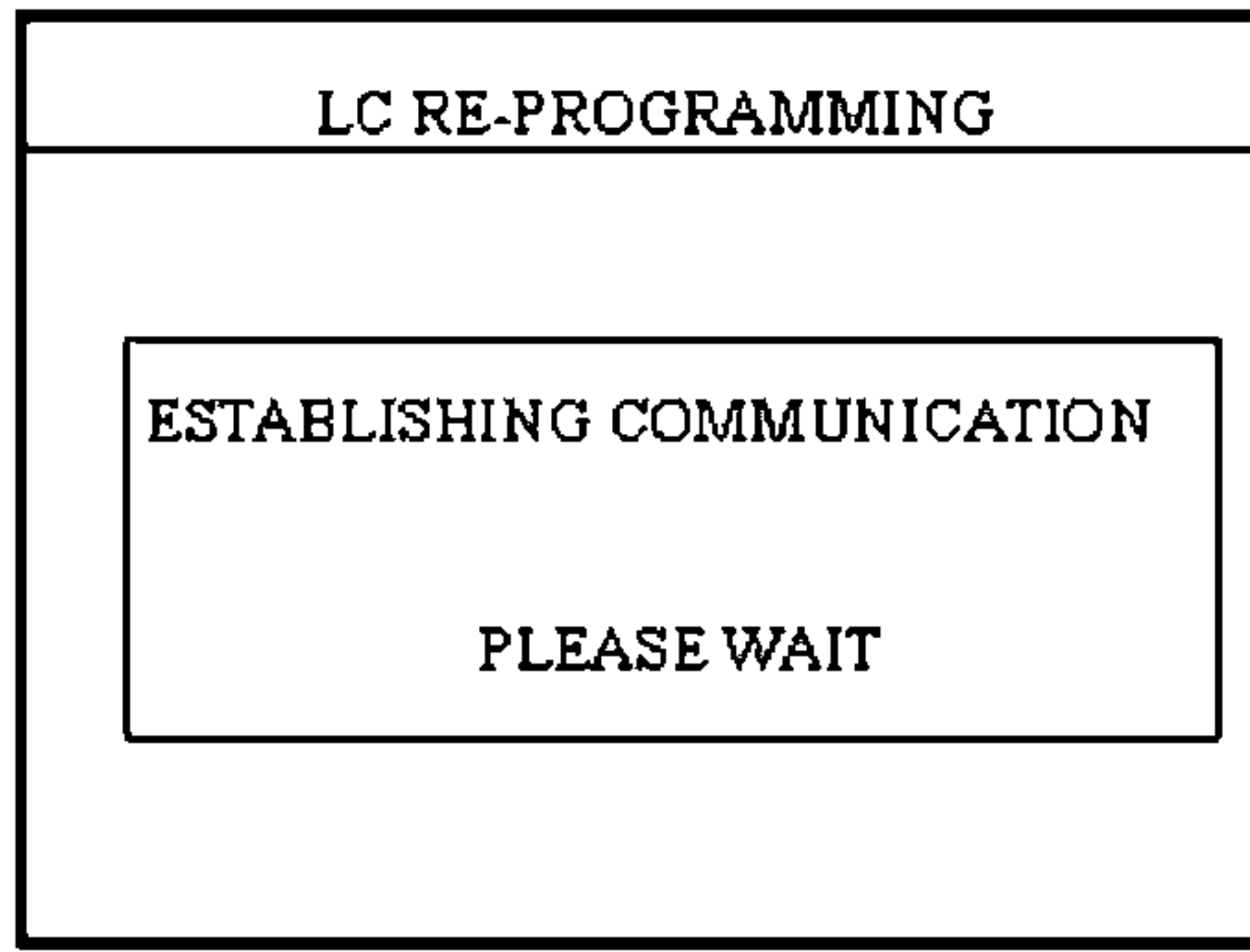
13. Enter “**1229**” as the password for the automatic update mode and press **ENTER**.

LC RE-PROGRAMMING	
<b>01. LC 1.6D AT P/R-D</b>	<b>[AUTO MODE]</b>
02. LC 1.6D AT P/R-D	[ERROR MODE]
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>ENTER YOUR PASSWORD : 1229</b> </div>	



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14. The Hi-Scan Pro will establish communication.



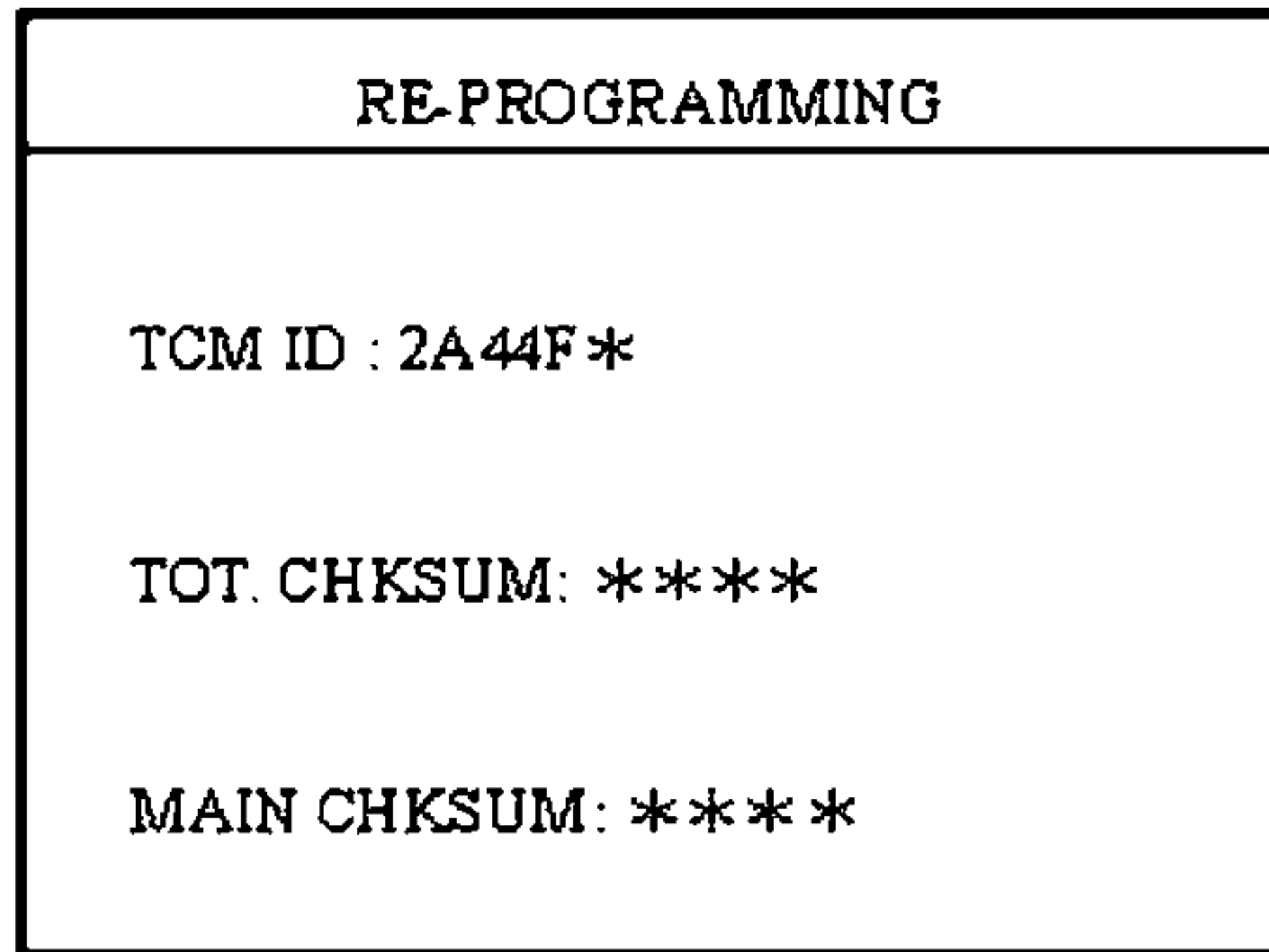
15. Hi-Scan Pro detects the current TCM ID, then displays it for about 1 second.

**NOTE: Example:**

TCM ID: AH 2 A 4 4-E \*



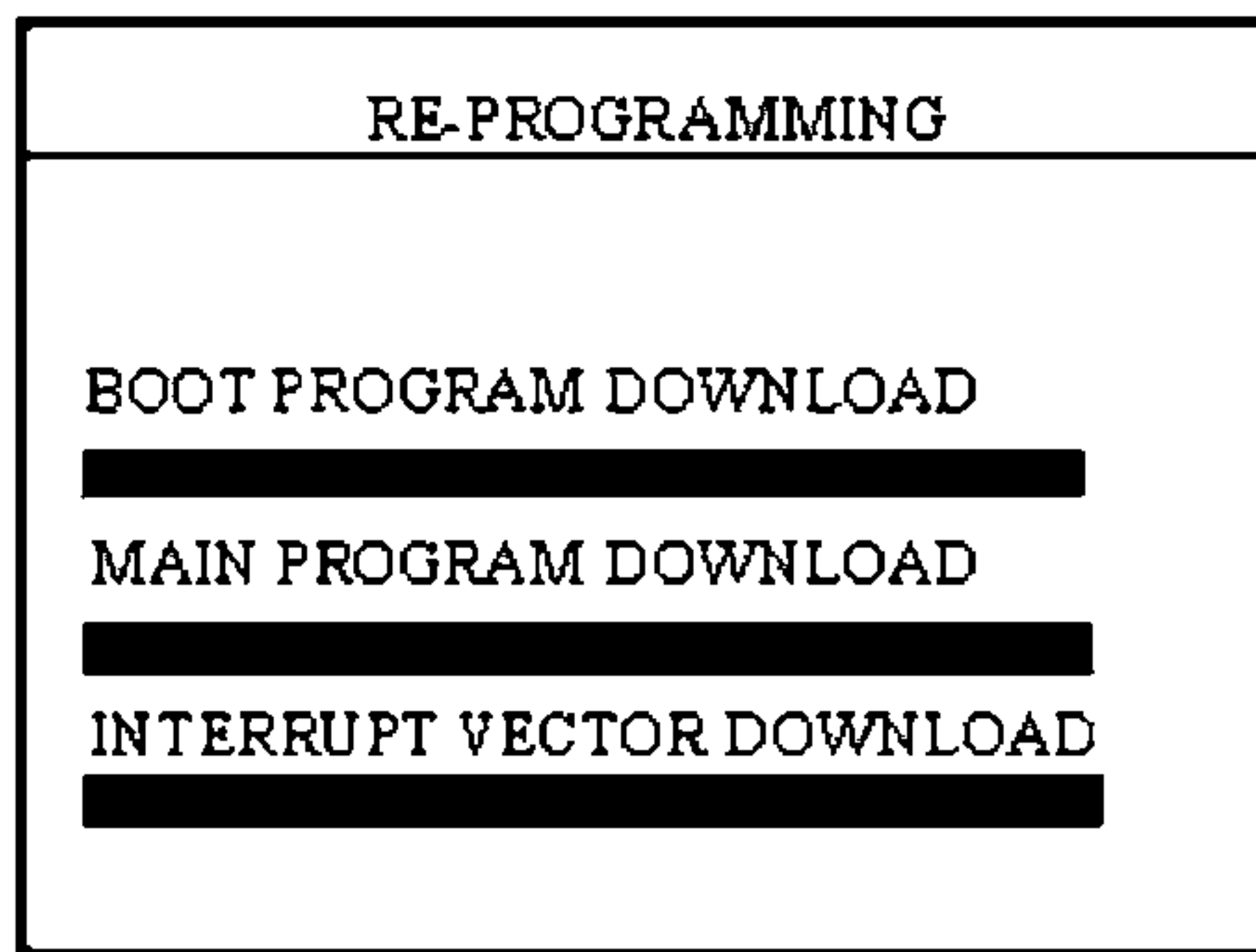
Only 6 letters in the TCM ID are displayed



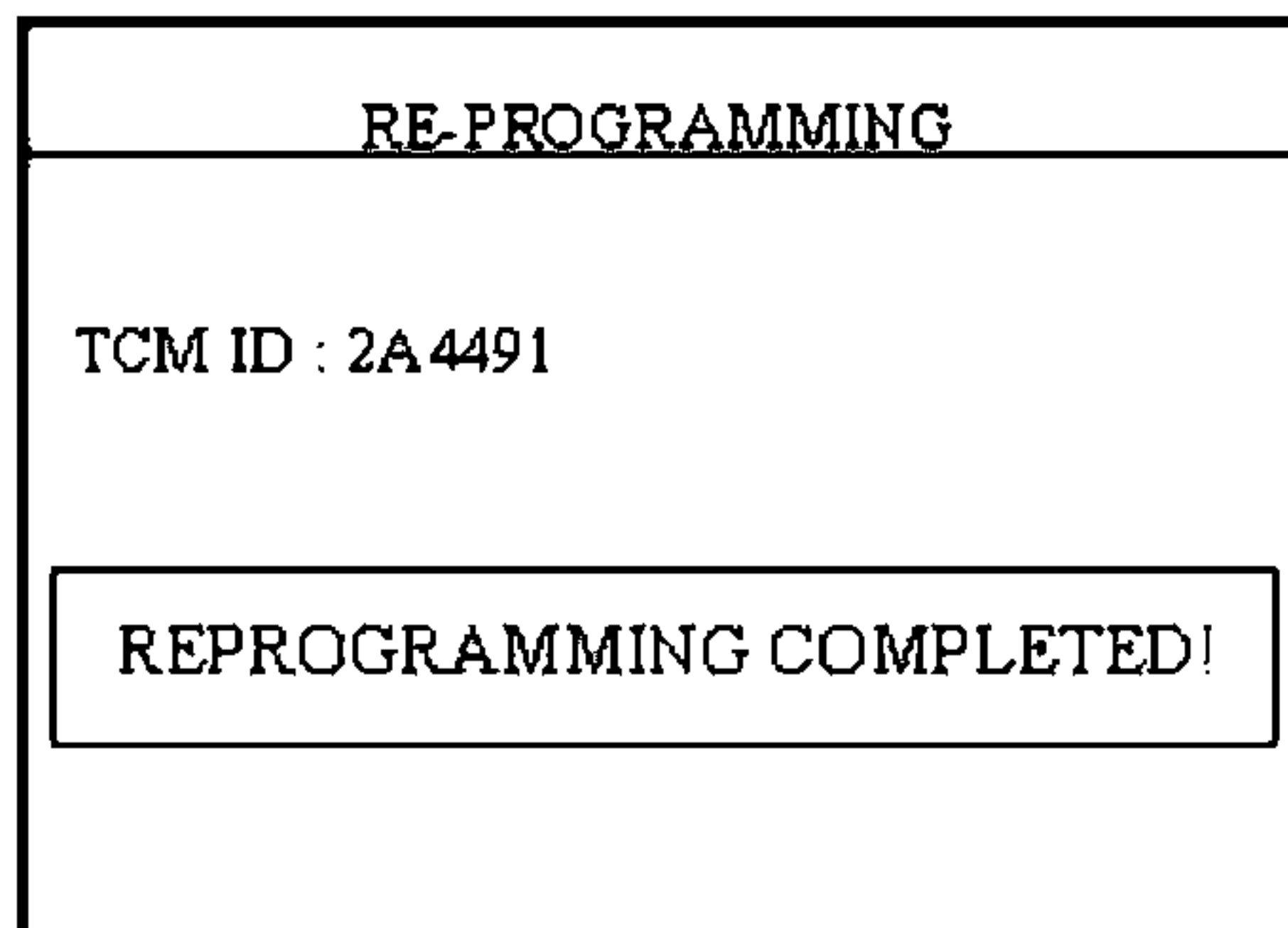
16. The boot program will download first, then the main program and the interrupt vector program.

**NOTE: If the Hi-Scan Pro does not download the program after trying several times, use the Manual Update Procedure following this section.**

**WARNING: Do not interrupt the reprogramming at any time. The TCM may be rendered inoperative if the program does not download completely.**



17. When the “**REPROGRAMMING COMPLETED!**” message is displayed, the TCM reprogramming process is complete.



18. Turn the ignition to the OFF position for 20 seconds and then start the engine for proper operation.

19. Check for DTC in the “**Engine**” and “**Automatic Transaxle**” menus using the Hi-Scan Pro with SOL cards.  
**Erase all DTC.**

**NOTE: The following erroneous DTC may be set in the ECM after reprogramming. Erase all DTC:**

- **P1765: Torque reduction request**
- **P1613: MIL request line - High**
- **P1693: MIL request line - MAL**



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**MANUAL UPDATE PROCEDURE:**

**NOTE:**

- In the event that option “01. LC 1.6D AT P/R-D [AUTO MODE]” fails to download the new TCM program, option “02. LC 1.6D AT P/R-D [ERROR MODE]” must be used.
- Confirm all connections are established as shown in the “AUTOMATIC UPDATE PROCEDURE” before continuing.

1. Turn the ignition to the **ON** position.
2. Turn the Hi-Scan Pro **ON**.
3. Select option “**30. LC 1.6D AT P/R-D SHIFT SHUDDER**” and press **ENTER**.

CAMPAIGN SELECTION
24. XG 300/350 REAR O2 SENSOR
25. EF 2.4D 99/00MY RR O2 SENSOR(P0139)
26. EF 2.4D 01/02MY RR O2 SENSOR(P0139)
27. GK 2.7 BCM COMMUNICATION(CANADA)
28. XG 300 MORNING SICKNESS (FLORIDA)
29. XG 300 4-5 SHUDDER & REAR O2 SENSOR
<b>30. LC 1.6D AT P/R-D SHIFT SHUDDER</b>

4. Select option “**02. LC 1.6D AT P/R-D [ERROR MODE]**” and press **ENTER**.

LC RE-PROGRAMMING
01. LC 1.6D AT P/R-D [AUTO MODE]
<b>02. LC 1.6D AT P/R-D [ERROR MODE]</b>

5. Select **"01. LC 1.6D AT P/R-D: 95440-22950"** and press **ENTER**.

LC RE-PROGRAMMING
01 LC 1.6D AT P/R-D : 95440-22950

6. Enter **"2950"** as the new password for the manual update mode and press **ENTER**.

LC RE-PROGRAMMING
01 LC 1.6D AT P/R-D : 95440-22950
ENTER YOUR PASSWORD : 2950

7. The Hi-Scan Pro will establish communication.

**NOTE:** Once the password is entered and accepted, the rest of the procedure is exactly the same as the automatic update procedure.

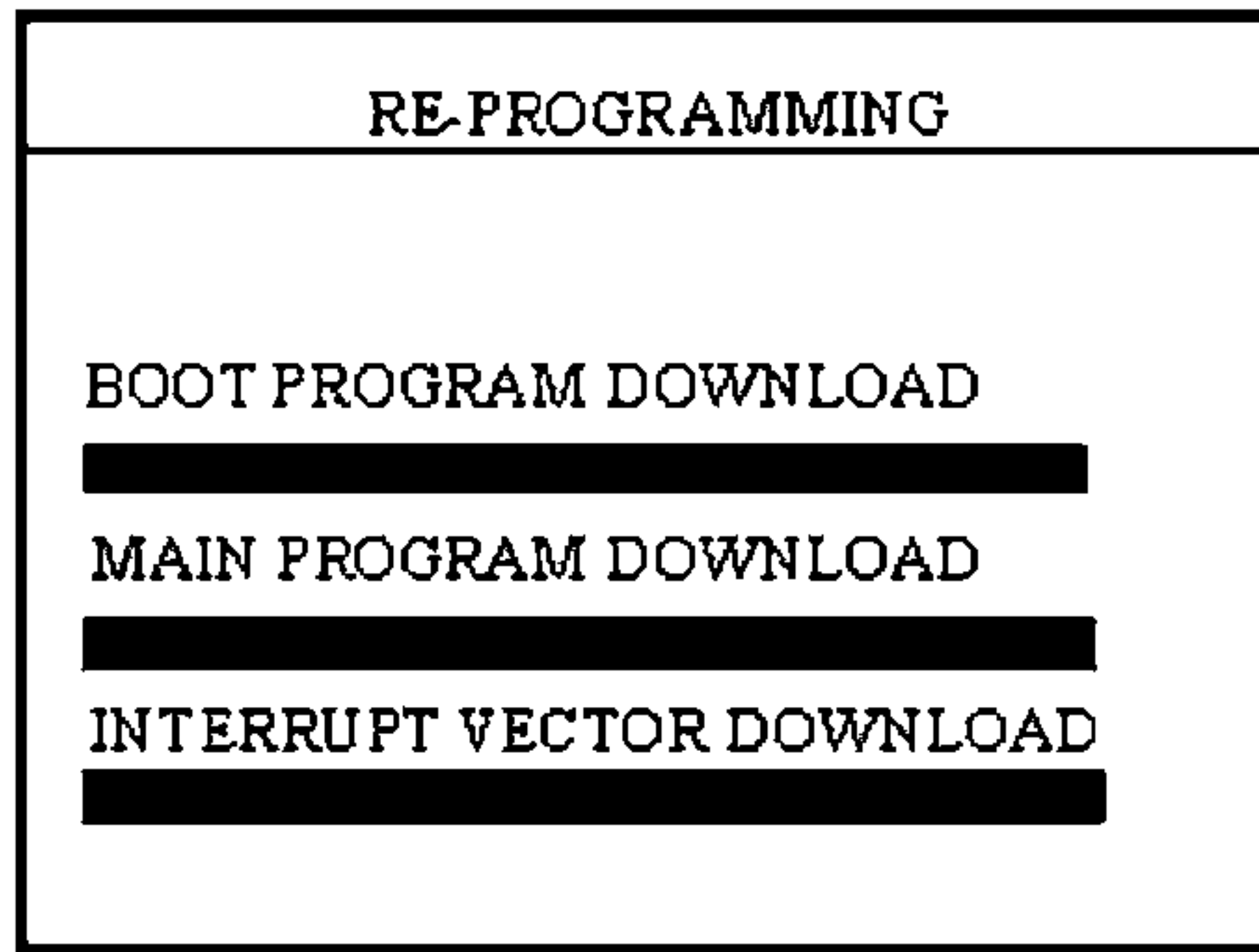
LC RE-PROGRAMMING
ESTABLISHING COMMUNICATION
PLEASE WAIT



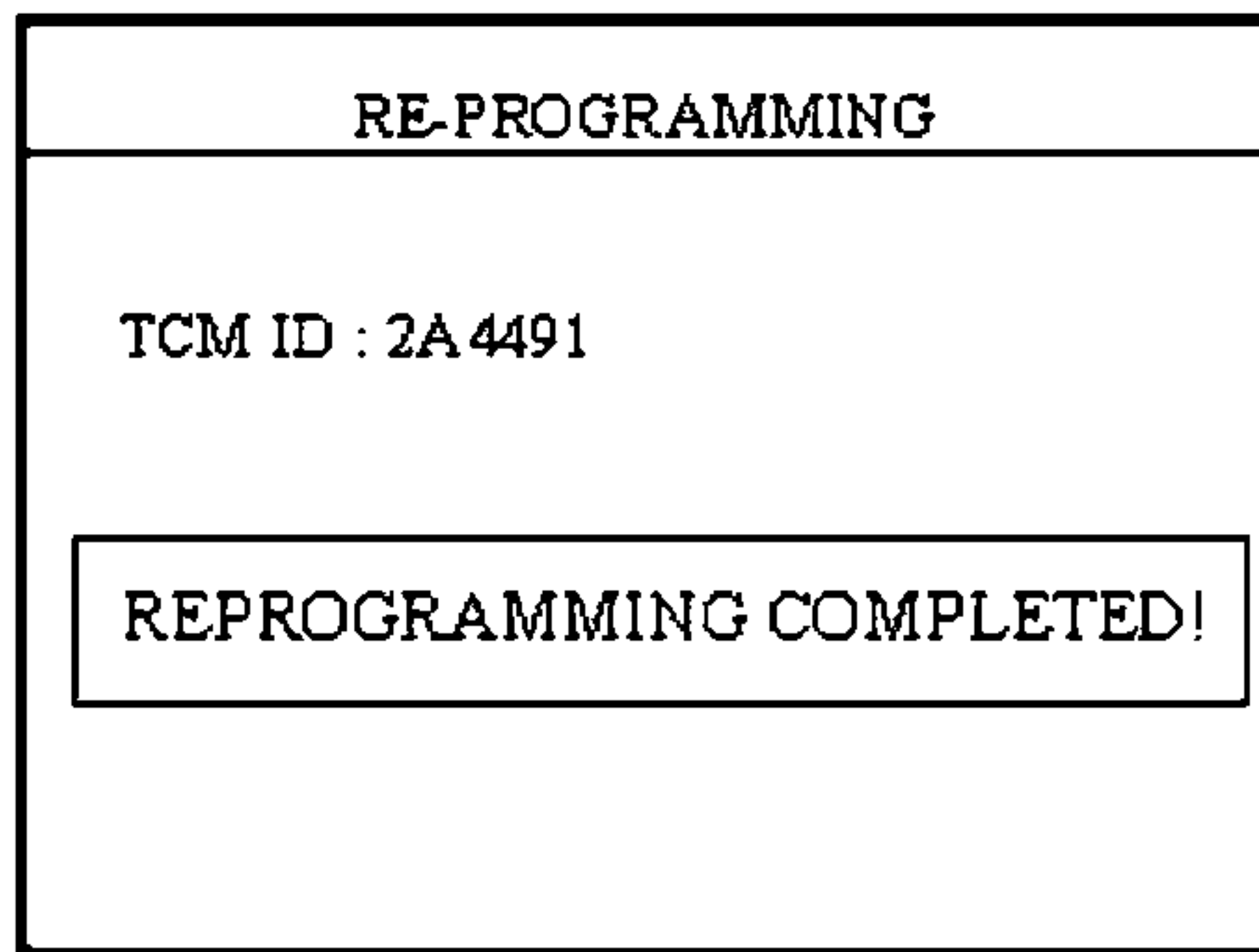
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8. Hi-Scan Pro will reprogram the TCM.

**WARNING:** Do not interrupt the reprogramming at any time. The TCM may be rendered inoperative if the program does not download completely.



9. When the “**REPROGRAMMING COMPLETED**” message is displayed, the TCM reprogramming process is complete.



10. Turn the ignition to the OFF position for 20 seconds and then start the engine to check for proper operation.

11. Check for DTC in the “**Engine**” and “**Automatic Transaxle**” menus using the Hi-Scan Pro with SOL card. **Erase all DTC.**

**EXPLANATION OF ERROR MESSAGE:**

1. **“INVALID PASSWORD”**: Please enter the exact password again.
2. **“REPROGRAMMING ERROR, PLEASE WAIT FOR RETRY”**: An error occurred during reprogramming, the Hi-Scan Pro will retry reprogramming automatically.
3. **“ALREADY REPROGRAMMED” or “INCORRECT TARGET ID”**: The reprogramming has previously been done on this vehicle or the TCM is not the type subject to this reprogramming procedure.
4. **“REPROGRAMMING ERROR, PLEASE CHECK THE SYSTEM”**: In this case, you must reprogram manually after selecting the menu option **“02. LC 1.6D P/R-D [ERROR MODE]”**.

**WARRANTY INFORMATION:**

OP CODE	OPERATION	OP TIME	OP QTY	CAUSAL PART NUMBER	NATURE CODE	CAUSE CODE
45957R0F	TCM Reprogramming	0.3 M/H	1	95440-22950	*N73	**C40

**\*N73: Auto transmission excessive shift shock**

**\*\*C40: Improper adjustment**