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**GROUP:** Electrical

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**THIS BULLETIN SUPERSEDES TECHNICAL SERVICE BULLETIN 08-007-08, DATED MARCH 04, 2008. THIS IS A COMPLETE REVISION AND NO ASTERISKS HAVE BEEN USED TO HIGHLIGHT REVISIONS.**

**DO NOT ORDER PART NUMBER 05026070AP UNTIL JULY 21, 2008. ALL OTHER PART NUMBERS ARE AVAILABLE NOW.**

***SUBJECT:***

No Engine Crank Or No Engine Start Due To Electronic Lockup Of The WCM / SKREEM

***OVERVIEW:***

This bulletin involves the replacement of the Wireless Control Module (WCM), and if equipped, the replacement of the Electric Steering Column Lock (ELV). The WCM is also referred to as the Sentry Key Remote Entry Module (SKREEM).

***MODELS:***

2007 - 2008	(DR/DH/D1/DC/DM)	Ram Truck (1500/2500/3500/4500/5500)
2007 - 2008	(JK)	Wrangler
2007 - 2008	(J1)	Sebring (China)
2007 - 2008	(JS)	Avenger/Sebring
2007 - 2008	(KA)	Nitro
2008	(KK)	Liberty/Cherokee
2007 - 2008	(MK)	Compass/Patriot
2007 - 2008	(PM)	Caliber
2006 - 2008	(PT)	Chrysler PT Cruiser

**NOTE: This bulletin applies to vehicles built on or before May 05, 2008 (MDH 0505XX).**

***SYMPTOM/CONDITION:***

The customer will experience a no engine crank **AND** a no engine start condition. Also, the remote keyless entry (RKE) system will not operate. This condition may be due to an electrostatic discharge (ESD) from the ignition key into the Wireless Control Module (WCM), causing the WCM to electronically lockup. This condition may occur more frequently in dry and/or cold weather conditions where a sufficient electrostatic charge is



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more easily produced. This condition is corrected by the replacement of the WCM.

**DIAGNOSIS:**

1. With the condition present (i.e. the vehicle in the no crank / no start condition), connect the StarSCAN® scan tool to the vehicle.
2. Turn the ignition switch to the "ON" position, and power up the StarSCAN®.
3. If the WCM is electronically locked up, the StarSCAN® will display the WCM as being "off bus".
4. If the no crank / no start condition is present, and the WCM is "off bus", then reset the WCM by temporarily removing the IOD fuse (with the key out of the ignition switch), wait for 10 seconds and then reinstall the IOD fuse.
5. With the IOD fuse reset having been performed, verify that the vehicle will now crank, start, and run.
6. If the condition is temporarily corrected by performing the above steps, and if the part number of the WCM is earlier than the part number of the WCM listed in the part reference table in the Service Bulletin Parts Required Section below, then perform the Repair Procedure.

**PARTS REQUIRED:**

**NOTE: The part numbers listed in the following part reference table are to be used as A GUIDE to help determine if the WCM, that is currently in the vehicle, may require replacement. If it is determined that the WCM requires replacement, then ALWAYS REFER TO THE PARTS MANUAL to determine the correct WCM for the specific vehicle in question. In some earlier model years, the WCM may rule (supersede) to one of the part numbers listed in the table below. ALWAYS REFER TO THE PARTS MANUAL (not the part reference table below) to determine the correct part number ruling (supercedence / substitution). MAKE CERTAIN THAT THE CORRECT WCM IS ORDERED THE FIRST TIME FOR THE SPECIFIC VEHICLE IN QUESTION.**

Qty.	Part No.	Description - Refer To Parts Manual For Determining Correct Application
(AR) 1	05026070AP	Module, Keyless Entry (WCM/SKREEM) - JK <b>DO NOT ORDER THIS PART UNTIL JULY 21, 2008</b>
(AR) 1	05026071AQ	Module, Keyless Entry (WCM/SKREEM) - JK/KA/KK/K1
(AR) 1	05026072AQ	Module, Keyless Entry (WCM/SKREEM) - KA/KK/K1
(AR) 1	05026073AR	Module, Keyless Entry (WCM/SKREEM) - JK/KA/KK
(AR) 1	05026074AQ	Module, Keyless Entry (WCM/SKREEM) - JK/KA/KK
(AR) 1	05026800AD	Module, Keyless Entry (WCM/SKREEM) - KJ/KA/KK
(AR) 1	05026157AP	Module, Keyless Entry (WCM/SKREEM) - JS/J1
(AR) 1	05026162AP	Module, Keyless Entry (WCM/SKREEM) - JS
(AR) 1	05026164AO	Module, Keyless Entry (WCM/SKREEM) - JS/J1
(AR) 1	05026165AP	Module, Keyless Entry (WCM/SKREEM) - JS/J1
(AR) 1	05026216AM	Module, Keyless Entry (WCM/SKREEM) - MK/PM
(AR) 1	05026218AM	Module, Keyless Entry (WCM/SKREEM) -

Qty.	Part No.	Description - Refer To Parts Manual For Determining Correct Application
		MK/PM/PT/P3/P5
(AR) 1	05026219AG	Module, Keyless Entry (WCM/SKREEM) - DH
(AR) 1	05026220AN	Module, Keyless Entry (WCM/SKREEM) - DC/DM
(AR) 1	05026221AN	Module, Keyless Entry (WCM/SKREEM) - DR/D1/DC/DM
(AR) 1	05026222AM	Module, Keyless Entry (WCM/SKREEM) - MK/PM/PT
(AR) 1	05026223AN	Module, Keyless Entry (WCM/SKREEM) - DC/DM
(AR) 1	05026224AN	Module, Keyless Entry (WCM/SKREEM) - DR/DH/D1/DC
(AR) 1	05026225AM	Module, Keyless Entry (WCM/SKREEM) - MK, PM, PT
(AR) 1	05026226AM	Module, Keyless Entry (WCM/SKREEM) - MK, PM/P3
(AR) 1	05026228AM	Module, Keyless Entry (WCM/SKREEM) - MK/PM/PT
(AR) 1	05026132AC	Module, Shaft Lock - Steering Column - JS/J1 (International Markets)

### **REPAIR PROCEDURE:**

**NOTE:** If the vehicle (a JS model vehicle in certain International markets) is equipped with an Electric Steering Column Lock (ELV), then the WCM and the ELV must be replaced. Replace the WCM and then the ELV. Next program the WCM and at least one ( 1 ) ignition key BEFORE programming the ELV. **IMPORTANT:** Not following this repair process correctly will cause the new ELV to fail.

**NOTE:** Insert the ignition key into the ignition lock cylinder. This will move the shaft lock module locking bolt to the unlocked position. **LEAVE** the key in the lock cylinder while the shaft lock module is being removed.

1. If vehicle is equipped with a Steering Shaft Lock Module (JS - Avenger / Stratus - some International Markets), then the Shaft Lock Module will require replacement. From the Service Info tab select: 8 - Electrical > Vehicle Theft Security - Security Information > Module, Shaft Lock > Removal and Installation.

**NOTE: The shaft lock module cannot be removed from the steering column while the locking bolt is in the locked position without irreversibly damaging the column. Before attempting service, the ignition key must have been inserted into the ignition lock cylinder. Then rotate the steering wheel from side to side. If the steering wheel can be rotated, the locking bolt is in the unlocked position. Leave the key in the ignition lock cylinder until shaft lock module removal has been completed. If the steering wheel cannot be rotated, test and repair the wiring circuits between the module and the ignition switch as required. If no problem is found in these circuits, the module has failed with the locking bolt in the locked position and both the module and the steering column must be replaced with new units.**

2. Replace the WCM/SKREEM. Refer to TechCONNECT for detailed service information. From the Service Info tab select: 8 - Electrical > Vehicle Theft Security - Service Information > Module, Sentry Key Remote Entry > Removal and Installation.

**NOTE: Obtain the vehicle PIN number prior to programming WCM/SKREEM or ELV.**

**NOTE: If during the following steps the PIN number is properly entered but is rejected, then reenter the PIN number again until it is accepted.**

3. After both the WCM/SKREEM and the ELV (if equipped) have been replaced, Program the WCM/SKREEM as follows;
  - a. Turn the ignition key to the ON position, (Engine Off)
  - b. Connect the scan tool (StarSCAN®) to the data link connector and turn the ignition to the RUN position, (engine off).
  - c. Select "ECU View."
  - d. Scroll down and select "WCM" in the list of modules.
  - e. Select "Misc. Functions."
  - f. Scroll to "WCM Replaced."
  - g. Press "Start."
  - h. Press "Next."
  - i. Select "Show Keyboard."
  - j. Enter the vehicle PIN number.
  - k. Select "Next."
  - l. Verify PIN is correct.
  - m. Select "Next."
  - n. Follow on-screen prompts to complete WCM function programming for Tire Pressure Monitoring (TPM) and so on.
  - o. Turn the ignition key to the OFF position. Wait 30 seconds.
  - p. Turn the ignition key to the ON position, (Engine Off)
  - q. Select "ECU View."
  - r. Scroll down and select "WCM" in the list of modules.
  - s. Select "Misc. Functions."
  - t. Select "Program Ign. Keys" and follow on-screen prompts.
  - u. Select "Complete."
  - v. Verify ignition key will start vehicle and the Remote Keyless Entry (RKE) functions operate.

**CAUTION: If the vehicle is equipped with a Shaft Lock Module (used in some International Markets on JS model vehicles), then at least one ( 1 ) ignition key must have been programmed to the new WCM BEFORE the new Shaft Lock Module is “married” to the new WCM.**

- 4. Is the vehicle equipped with Steering Shaft Lock Module (ELV)?
  - a. Yes >>> Proceed to [Step #5](#).
  - b. No >>> Repair is complete.
- 5. Program the ELV as follows;
  - a. Select “ECU View.”
  - b. Scroll down and select “WCM” in the list of modules.
  - c. Select “Misc. Functions.”
  - d. Scroll to “ELV Replaced.”
  - e. Press “Start.”
  - f. When complete, verify steering shaft lock mechanism is operating. Remove and insert key from the ignition lock cylinder and listen for solenoid “click” at lower end of column.

**POLICY:**

Reimbursable within the provisions of the warranty.

**TIME ALLOWANCE:**

Labor Operation No:	Description	Amount
08-80-28-96	Module, Wireless Control (WCM) - Replace, includes Reprogram Ignition Keys (B) - For JS, J1	1.0 Hrs.
08-80-28-97	Module, Wireless Control (WCM) - Replace, includes Reprogram Ignition Keys (B) - For DR, DH, D1, DC, DM, JK, KA, KK, MK, PM, PT P3, P5	0.5 Hrs
08-19-54-90	ADD: Shaft Lock Module - Replace (B) [JS - International Markets]	0.3 Hrs.

**FAILURE CODE:**

ZZ	Service Action
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