

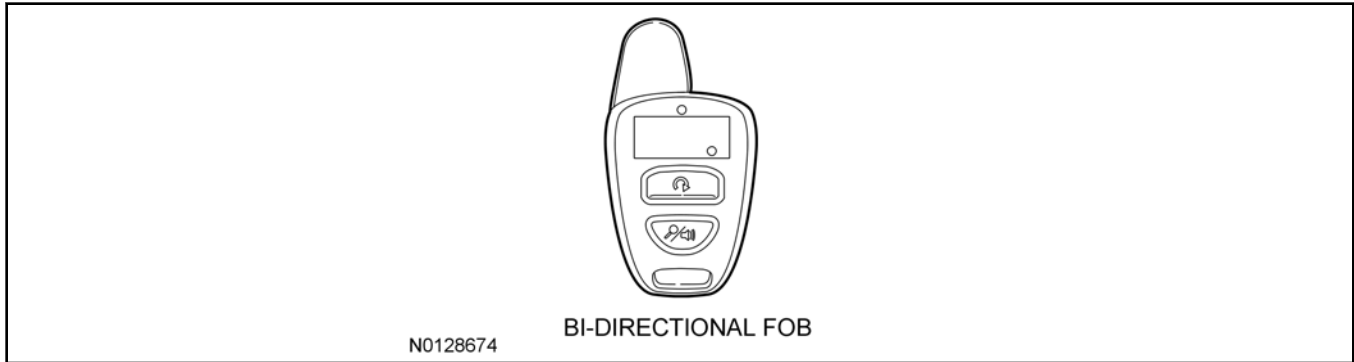
**INSTALLATION (Continued)**

(Continued)

6 Chirps

The remote start system is in SERVICE/VALET mode.

**Programming Bi-directional Remote Start**



**100.NOTE:**

If the remote start options (Key-in sense polarity, door ajar polarity, or tach mode) are not programmed correctly, vehicle will not remote start or operate properly.

**NOTE:**

Make sure that the hood and doors are closed before proceeding.

**NOTE:**

The LED on the remote start harness must be visible to complete module programming.

**NOTE:**

The remote start override button must be accessible.

**Programming Options: Entering Programming Mode**

101. See chart below for programming information.

**Program Bank 2 Chart (5 Honks)**

BANK	OPTIONS	DESCRIPTION	LED
2	1	TACHLESS MODE	ON

102. Press and hold the brake pedal.

103. Turn the ignition key to the RUN position.

- The dome light will turn off.

104. Press and hold the remote start system override button for at least 10 seconds. After 10 seconds the horn will honk 3 times, indicating the system is now in the learn mode. Release the brake pedal and the RMST override button.

105. Press and release the override button. The horn will honk 4 times indicating the system has entered the first program bank. If not, please check the following:

- Brake pedal switch wire solder connection
- Hood closed and Gray hood safety switch wire solder connection
- All doors closed and dome light circuit wire solder connections

**INSTALLATION (Continued)**

- The key is in the RUN position
- The software cartridge is firmly seated in the RMST module
- The RMST harness connections are firmly seated in the RMST module

**NOTE:**

If you require additional assistance: CALL 1-800-FORD KEY.

106. Press and release the override button again. The horn will honk 5 times indicating the system has entered the second program bank.

107. Press and release the brake pedal.

- The horn will honk 1 time indicating the system has entered option 1 of the second program bank.

**NOTICE:**

**When turning LED on or off using remote start fob button, quickly press and immediately release the remote start button. Failure to quickly release the remote start fob button will result in system defaulting to the factory options.**

108. The LED must be on for option 1. If the LED is illuminated, no action is required. If the LED is not illuminated, press the remote start fob button and verify the LED illuminates.

**NOTE:**

If the remote start fob button is held for more than 3 seconds, the system will chirp the horn 4 times, indicating the system has returned to factory default settings. If this occurs, return to step 1 of the programming section and reprogram the remote start module.

**NOTE:**

The remote start module is now programmed.

109. Remove the ignition key.

**Programming the DNA-9 Using Diagnostic Equipment****NOTE:**

This procedure only programs the Passive Anti-Theft System (PATS) portion of the key into the Instrument Panel Cluster (IPC).

110. With an Intelligent Access key in the vehicle, turn the ignition on by pushing the Start button without depressing the brake.

111. From the scan tool, enter TOOLBOX. Select Body>Security>PATS Functions and follow the Integrated Diagnostic System (IDS) on-screen instructions to enter PATS security access.

112. Once security access is granted, prepare the remote start module for PATS programming. Press and hold the brake pedal.

113. Remove the Intelligent Access key from the vehicle and place on a workbench 10 feet from the vehicle.

114. Press and hold the remote start system override button on the remote start harness for at least 10 seconds.

**INSTALLATION (Continued)**

- After 10 seconds the horn will honk 3 times, indicating the system is now in the learn mode.
- Release the brake pedal and the remote start override button.

115. Press and release the override button 1 time. The horn should honk 4 times.

116. Quickly press and release the Remote Start button on the remote start key fob 1 time. Verify that the LED has turned on. This indicates that the remote start module is ready for programming to the vehicle PATS system.

**NOTE:**

You may need to perform the following step **TWICE** in order to successfully program the Remote Start system.

117. From the scan tool menu, select "Program additional transponder key". Follow the on-screen prompts to program additional keys and to program the remote start system to the vehicle.

118. Disconnect the scan tool, and turn off the ignition when complete.

**Functional Test - Bi-directional Remote Start****NOTE:**

If during any of the steps of the functional test, the remote start system or vehicle doesn't react or perform accordingly, please refer to the remote start troubleshooting guide.

**NOTE:**

For remote start troubleshooting guide [click here](#).

119. Make sure all doors are closed but hood is open and windows are down (doors will be locking).

120. Press and hold the Start button on the remote control key fob for 2-3 seconds. The horn should honk once indicating receipt of the start request.

121. The remote start system should turn on the ignition, but then honk the horn twice and shut down indicating the hood is open.

122. Attempt to re-start the vehicle again using the key fob.

123. Remove the key and open a door.

124. Attempt to re-start the vehicle again using the key fob.

125. The remote start system should start the vehicle, then it will detect that a door is open and shut down.

126. Close the door.

127. Attempt to re-start the vehicle again using the key fob.

128. Once the vehicle starts, verify that all heat and A/C functions operate normally and that the doors have locked.

129. Once all systems have been checked, open the door, or press the brake pedal. The remote start system should shut down.

130. Re-start the vehicle then unlock and open the door. The remote start system should shut down.

131. Verify that the vehicle can be re-started with the Intelligent Access key, 3-5 seconds after engine shutdown.

**INSTALLATION (Continued)****Troubleshooting**

132. **NOTE:** When attempting to remote start the vehicle, the system has several safety checks that it performs. If any of these inputs are present that should not be, the system will respond back with several horn "chirps" to help identify which input is present. These "chirps" will occur after initiating a start sequence with the transmitter. The system will turn on the ignition, but then respond back with several horn "chirps" and abort the starting process.

**Example:** Depress the remote start fob button for 3 seconds and then release. The vehicle horn will "chirp" one time to indicate that RMST signal was received. If the vehicle does not start and the horn "chirps" 3 times, there is a fault - "Vehicle Door is Open"

<b>CHIRPS</b>	<b>PROBLEM</b>
1 Chirp	DNA-9 not programmed correctly, or the DNA-9 harness is damaged.
2 Chirps	BRAKE is being pressed, or the HOOD is open.
3 Chirps	One of the vehicle DOORS is open.
4 Chirps	TACH is not programmed.