SERVICE BULLETIN



M-1128

November 14, 2002

New Password Learn Procedures

Purpose

Some problems have been experienced with the Password Learn procedure after ECM or TSSM module replacement. The following tables have improved procedures.

Motorcycles Affected

All motorcycles equipped with Delphi electronic fuel injection.

- 2001 and newer Softail models
- 2002 and newer VRSCA models
- 2002 and newer Touring models

Required Dealer Action

Use Table 1 for setting TSM/TSSM and ECM password using Digital Technician.

Use Table 2 for setting TSM/TSSM and ECM password using a Scanalyzer.

Use Table 3 for setting TSM/TSSM and ECM password without Scanalyzer (manual mode).

| IMPORTANT NOTE In the interest of preserving customer safety and satisfaction, always check for outstanding recalls whenever any motorcycle is brought into your dealership for either maintenance or service. | | | | | | | | | |
|--|--------------------|------------------|------------------|--------------------|--------------------|---------------------|---------------------|---------------------|-------------------|
| ROUTING | SERVICE MANAGER | SALES MANAGER | PARTS MANAGER | LEAD TECHNICIAN | TECHNICIAN NO.1 | TECHNICIAN NO. 2 | TECHNICIAN NO. 3 | TECHNICIAN NO. 4 | RETURN THIS TO |
| INITIAL HERE | | | | | | | | | |
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Table 1: Setting TSM/TSSM and ECM Password Using Digital Technician

| No. | Action | Confirmation | Notes |
|-----|--|--|---|
| | Before beginning, the Scanalyzer should not be connected and the ignition must be turned off for at least 15 seconds. | With ignition turned off, Check Engine Lamp and Security Lamp will be off. If Security Lamp is illuminated, cycle IGN switch ON-OFF . | V-Rod Security Lamp is active with either TSM or TSSM. TSM (non-security modules) do not have a Security Lamp function on Twin Cam Vehicles. Step 11 of this procedure must be manually timed. |
| 1 | Install new TSM/TSSM or ECM. If vehicle has EFI, continue with Step 2. If vehicle is carbureted, Password Learn is not required. Perform all steps under 3.3 TSM/TSSM Vehicle Delivery | | |
| 2 | Set Run/Off switch to Run | | |
| 3 | Turn IGN key On | Verify Check Engine Lamp and Security Lamp illuminate then turn off. Note: Security Lamp will not illu- minate with TSM on Twin Cam vehicles. | TSM/TSSM enables starter relay. |
| 4 | Attempt normal start one time. | Engine starts and stalls. Check Engine Lamp illuminates and stays on. | Password has not been learned. ECM sets DTC P1009. Fuel flow is stopped. |
| 5 | Wait ten seconds. Then begin 10 minute countdown cycle for TSM replacement. | Security Lamp will illuminate and stay on. Note: Security Lamp will not illu- minate with TSM on Twin Cam vehicles. | ECM enters Password Learning mode for ten minutes. Do not cycle ignition switch or interrupt vehicle power or Password Learn will be unsuccessful. |
| 6 | Connect Scanalyzer to connector [91A]. After Scanalyzer initializes, verify ECM and TSSM part numbers using System ID. Check for trouble codes. Verify that ECM set DTC P1009. Select tab for Module Replacement. Press the BEGIN button. | | |
| 7 | Ignore screen "Make sure scanalyzer is connected and operational". Click OK | | |
| 8 | Ignore screen "Set Run/Stop switch to RUN position". Click OK | | |
| 9 | Ignore screen "Press starter button". Do not press starter button. Click OK | | |
| 10 | Ignore screen "Leave the ignition on. Wait for 10 seconds". Click OK . | | |
| 11 | Next screen will read "The ECM will remain in password learn for 10 minutes". Wait until Security Lamp goes out (or a minimum of ten minutes for TSM replacement). Then click OK. | | |
| 12 | When first segment of timer bar fills in, turn IGN OFF. Wait 15 seconds , then turn IGN ON and start engine to verify Password Learn was successful. | | |

Table 2: Setting TSM/TSSM and ECM Password Using Scanalyzer

| No. | Action | Confirmation | Notes |
|-----|--|---|--|
| | Before beginning, the Scanalyzer should not be connected and the ignition must be turned off for at least 15 seconds. | With ignition turned off, Check Engine Lamp and Security Lamp will be off. If Security Lamp is illuminated, cycle IGN switch ON-OFF . | V-Rod Security Lamp is active with either TSM or TSSM. TSM (non-security modules) do not have a Security Lamp function on Twin Cam Vehicles. Steps 5 and 7 of this procedure must be manually timed. |
| 1 | Install new TSM/TSSM or ECM. If vehicle has EFI, continue with Step 2. If vehicle is carbureted, Password Learn is not required. Perform all steps under 3.3 TSM/TSSM Vehicle Delivery | | |
| 2 | Set Run/Off switch to Run | | |
| 3 | Turn IGN key On | Verify Check Engine Lamp and Security Lamp illuminate then turn off. Note: Security Lamp will not illu- minate with TSM on Twin Cam vehicles. | TSM/TSSM enables starter relay. |
| 4 | Attempt normal start one time. | Engine starts and stalls. Check Engine Lamp illuminates and stays on. | Password has not been learned. ECM sets DTC P1009. Fuel flow is stopped. |
| 5 | Wait ten seconds. Then begin 10 minute countdown cycle for TSM replacement. | Security Lamp will illuminate and stay on for V-Rod and Twin Cam with TSSM. Note: Security Lamp will not illu- minate with TSM on Twin Cam vehicles. | ECM enters Password Learning mode for ten minutes. Do not cycle ignition switch or interrupt vehicle power or Password Learn will be unsuccessful. |
| 6 | Connect Scanalyzer to connector [91A]. After Scanalyzer initializes, verify ECM and TSSM part numbers using System ID. Check for trouble codes. Verify that ECM set DTC P1009. Return to main menu and select menu item 7 (calibra- tions) then select menu item 2 (module replacement). Do not press Enter. | | |
| 7 | Wait until Security Lamp turns off or a minimum of ten minutes has passed. | | |
| 8 | Press Enter on Scanalyzer key pad. Wait 5 seconds. | | |
| 9 | Turn ignition switch OFF . Wait 15 sec- onds before turning Ignition on . Turn ignition switch ON and start engine to confirm successful Password Learn pro- cedure. Clear trouble codes. | | |
| 10 | Perform all steps under 3.3 TSM/TSSM Vehicle Delivery | | |

Table 3: Setting TSM/TSSM and ECM Password Without Scanalyzer (Manual Mode)

| No | Action | Confirmation | Notes |
|----|---|---|--|
| | Before beginning, the Scanalyzer should not be connected and the ignition must be turned off for at least 15 seconds. | With ignition turned off, Check Engine Lamp and Security Lamp will be off. If Security Lamp is illuminated, cycle IGN switch ON-OFF . | V-Rod Security Lamp is active with either TSM or TSSM. TSM (non-security modules) do not have a Security Lamp function on Twin Cam Vehicles. Steps 6, 8 and 10 of this procedure must be manu- ally timed. |
| | Install new TSM/TSSM or ECM. If vehicle has EFI, continue with Step 2. If vehicle is carbureted, Password Learn is not required. Perform all steps under 3.3 TSM/TSSM Vehicle Delivery | | |
| 2 | Set Run/Off switch to Run | | |
| 3 | Turn IGN key On | Verify Check Engine Lamp and Secu- rity Lamp illuminate then turn off. Note: Security Lamp will not illumi- nate with TSM on Twin Cam vehicles. | TSM/TSSM enables starter relay. |
| 4 | Attempt normal start one time. | Engine starts and stalls. Check Engine Lamp illuminates and stays on. | Password has not been learned. ECM sets DTC P1009. Fuel flow is stopped. |
| 5 | Wait ten seconds. | Security Lamp will illuminate and stay on for V-Rod and Twin Cam with TSSM Note: Security Lamp will not illumi- nate with TSM on Twin Cam vehicles. | ECM enters Password Learning mode for ten minutes. Do not cycle ignition switch or interrupt vehicle power or Password Learn will be unsuccessful. |
| 6 | Wait until Security Lamp turns off or a min- imum of ten minutes has passed. | | |
| 7 | Quickly (within two seconds) turn IGN key OFF- ON . | Security Lamp will illuminate and stay on for V-Rod and Twin Cam with TSSM Note: Security Lamp will not illumi- nate with TSM on Twin Cam vehicles. | |
| 8 | Wait until Security Lamp turns off or a min- imum of ten minutes has passed. | | |
| 9 | Quickly (within two seconds) turn IGN key OFF- ON . | Security Lamp will illuminate and stay on for V-Rod and Twin Cam with TSSM Note: Security Lamp will not illumi- nate with TSM on Twin Cam vehicles. | |
| 10 | Wait until Security Lamp turns off or a min- imum of ten minutes has passed. | | |
| 11 | Quickly (within two seconds) turn IGN key OFF- ON . | Security Lamp will illuminate and then turn off . Note: Security Lamp will not illumi- nate with TSM on Twin Cam vehicles. | |
| 12 | Turn ignition switch OFF. Wait 15 seconds before turning Ignition on . Turn ignition switch ON and start engine to confirm suc- cessful Password Learn procedure. Clear trouble codes. | | |
| 13 | Perform all steps under 3.3 TSM/TSSM Vehicle Delivery | | |