

# SERVICE BULLETIN



M-1128A

September 11, 2003

## 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

The Digital Technician module replacement screens have been changed to reflect the revised process covered in Bulletin M1128. Technicians can now follow the screen prompts for setting TSM/TSSM and ECM password. This change is effective September 2003, version 10.14 and beyond.

Use Table 1 for setting TSM/TSSM and ECM password using a Scanalyzer.

Use Table 2 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 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 <b>ON-OFF</b> .	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.
<b>1</b>	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 <b>3.3 TSM/TSSM Vehicle Delivery</b>		
<b>2</b>	Set <b>Run/Off</b> switch to <b>Run</b>		
<b>3</b>	Turn <b>IGN</b> key <b>On</b>	Verify Check Engine Lamp and Security Lamp illuminate then turn off. Note: Security Lamp will not illuminate with TSM on Twin Cam vehicles.	TSM/TSSM enables starter relay.
<b>4</b>	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.
<b>5</b>	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 illuminate 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.
<b>6</b>	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 (calibrations) then select menu item 2 (module replacement). <b>Do not press Enter.</b>		
<b>7</b>	Wait until Security Lamp turns off or a minimum of ten minutes has passed.		
<b>8</b>	Press <b>Enter</b> on Scanalyzer key pad. Wait 5 seconds.		
<b>9</b>	Turn ignition switch <b>OFF</b> . <b>Wait 15 seconds before turning Ignition on.</b> Turn ignition switch <b>ON</b> and start engine to confirm successful Password Learn procedure. Clear trouble codes.		
<b>10</b>	Perform all steps under <b>3.3 TSM/TSSM Vehicle Delivery</b>		

**Table 2: 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 <b>ON-OFF</b> .	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 manually timed.
<b>1</b>	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 <b>3.3 TSM/TSSM Vehicle Delivery</b>		
<b>2</b>	Set <b>Run/Off</b> switch to <b>Run</b>		
<b>3</b>	Turn <b>IGN</b> key <b>On</b>	Verify Check Engine Lamp and Security Lamp illuminate then turn off. Note: Security Lamp will not illuminate with TSM on Twin Cam vehicles.	TSM/TSSM enables starter relay.
<b>4</b>	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.
<b>5</b>	Wait ten seconds.	Security Lamp will illuminate and stay on for V-Rod and Twin Cam with TSSM Note: Security Lamp will not illuminate 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.
<b>6</b>	Wait until Security Lamp turns off or a minimum of ten minutes has passed.		
<b>7</b>	Quickly (within two seconds) turn <b>IGN</b> key <b>OFF-ON</b> .	Security Lamp will illuminate and stay on for V-Rod and Twin Cam with TSSM Note: Security Lamp will not illuminate with TSM on Twin Cam vehicles.	
<b>8</b>	Wait until Security Lamp turns off or a minimum of ten minutes has passed.		
<b>9</b>	Quickly (within two seconds) turn <b>IGN</b> key <b>OFF-ON</b> .	Security Lamp will illuminate and stay on for V-Rod and Twin Cam with TSSM Note: Security Lamp will not illuminate with TSM on Twin Cam vehicles.	
<b>10</b>	Wait until Security Lamp turns off or a minimum of ten minutes has passed.		
<b>11</b>	Quickly (within two seconds) turn <b>IGN</b> key <b>OFF-ON</b> .	Security Lamp will illuminate and then turn <b>off</b> . Note: Security Lamp will not illuminate with TSM on Twin Cam vehicles.	
<b>12</b>	Turn ignition switch <b>OFF</b> . <b>Wait 15 seconds before turning Ignition on</b> . Turn ignition switch <b>ON</b> and start engine to confirm successful Password Learn procedure. Clear trouble codes.		
<b>13</b>	Perform all steps under <b>3.3 TSM/TSSM Vehicle Delivery</b>		