

**CAUTION**: All involved customers must be notified, all involved units must be corrected as per instructions herein.

Campaign no.: 2010–0003		
December 18 <sup>th</sup> , 2009 Subject: Spyder™ RT Electronic Modules Software	No.	2010-3
Update	<b>REVIS</b>	<u>ION 1</u>
	<u>Janua</u>	ry 14, 2010

YEAR	MODEL	MODEL NUMBER	SERIAL NUMBER
2010	Spyder™ RT	A4AA, A4AD, B5AA, B5AB, B5AG	See attached list

Underlined text(s) between arrows is (are) added element(s) to the original publication.

## PROBLEM

A new and improved software is available for early release Spyder RT vehicles. This new software will optimize vehicle performance and improve overall function of controls.

# SOLUTION

Update ECM, Cluster, LCD, DPS, WPM, and TCM (SE5 only) software with the new improved version.

# PROCEDURE

## **Computer and Vehicle Preparation**

**NOTICE** Continuous power to the computer and to the vehicle is mandatory during this operation. Be sure to disable the computer screen saver. If using a portable computer, be sure to provide a continuous supply of electrical power by connecting it to a wall outlet. This software update of the vehicle modules will take some time to complete and MUST NOT be interrupted or damage to a module will occur.

1. Ensure you have B.U.D.S. version P2.3.28 available on BOSSWeb installed on your computer. **NOTE:** The required update file (219 800 159 fc) is provided with B.U.D.S. version 2.3.28. This version of B.U.D.S. allows you to see and re-flash the LCD module in the cluster, in addition to the other modules previously available.

- 2. Ensure the vehicle battery is fully charged.
- 3. Connect a portable power pack, or a 2 amp battery charger to the vehicle battery to ensure there is enough power to complete the software updates.



PORTABLE POWER PACK OR A 2 AMP BATTERY CHARGER

**NOTE:** The updates will take up to 35 minutes. If you are using a 2 amp battery charger and encounter communication problems during an update, your battery charger may be producing excessive electrical noise and a battery pack will need to be used. Some battery chargers are electrically "noisier" than others.

4. Connect all components before starting B.U.D.S. to ensure proper operation. Refer to *CAN-AM 2010 SPYDER RT SHOP MANUAL*Section 03 ELECTRONIC MANAGEMENT SYSTEMS (Subsection 2) *COMMUNICATION TOOLS AND B.U.D.S. SOFTWARE* for details.





NOTE:AN EXTENSION CABLE AVAILABLE AT ELECTRONIC RETAIL OUTLETS CAN BE USED. DO NOT EXCEED 7.6 M (25 FT).



5. Turn ignition key to ON.



6. Start B.U.D.S. and logon.



NOTE: The following message will be displayed momentarily. If it does not disappear automatically, click on the "Try active detection mode" button.

🔁 Information			
No vehicle, the protocol.	detected. Make sure that the MPI® is p module is powered-up and that you ha	roperly conr ve selected	nected to the the appropriate
	Try active detection mode	N	OK

NOTE: The Kw2000 (500K) icon will appear at the bottom of the screen indicating a successful connection. The number to the right indicates the quantity of modules detected.



bg2010-003-002

TYPICAL — SM5 ILLUSTRATED 1. Icon indicating a successful connection

7. Ensure all modules are detected.

SPYDER RT MODEL	QUANTITY OF MODULES
SM5	6
SE5	7

8. In B.U.D.S., click on Read Data button.



READ DATA BUTTON

9. Clear any faults using B.U.D.S., refer to appropriate SHOP MANUAL.

Vehicle	Setting	Monitoring	Activation	Faults	History
Summary	·	· · ·		<b>A</b> '	-
Code	State	Module	Count	C sie Time	Total Time
"P0107	Active	ECM		1	
"P0122	Active	ECM		1	
"P0222	Active	ECM		1	
"P081B	Active	ECM		1	
"P212C	Active	ECM		1	
"P2228	Active	ECM	2	1	
C006C	Active	ECM		1	
"U0302	Active	ECM		1	
clive and Occurred	Faults	-	•	1	
		Clear D	courred Faults		

Select the Faults page tab Click on the Clear Occurred Faults button 1. 2.

# **Modules Software Update**

## **ECM** Update

1. Click on Module drop down list and select ECM, then Update.

NOTE: If Update is greyed out (not accessible), the most recent software version may already be installed. Proceed with following module update.



MODULE, ECM, UPDATE

2. Select the "File Name" 219 800 159.fc then click the "OK" button.



Step 1: Select file number 219 800 159.fc Step 2: Click OK

3. When the following message appears, click the "**Yes**" button to initiate the update.

Comments		
This will update	the ECM (219 800 159)	· 스
		<u>×</u>

CLICK ON YES BUTTON

**NOTICE** While the software is being updated, an hour glass will appear on the computer. The computer screen may also blank out. DO NOT TOUCH ANYTHING until the following message appears. Then, click the "OK" button.



CLICK ON OK BUTTON

**IMPORTANT:** If a problem updating the ECM is encountered, please contact your dealer technical support before replacing it.

4. When the update is completed, B.U.D.S. will automatically read data (all modules), then the following message will appear. Click the "Yes" button.



CLICK ON YES BUTTON

#### **Cluster Update**

1. Click on **Module** drop down list and select **Cluster**, then **Update**.



MODULE, CLUSTER, UPDATE

2. Select the "File Name" **219 800 159.fc** then click the "**OK**" button.



Step 1: Select file number 219 800 159.fc Step 2: Click OK

3. When the following message appears, click the "**Yes**" button to initiate the update.

rou are about to update the internal CLUSTER software. Make sure that interface power and connections are stable. The update will take around 2 minutes. Do you want to proceed now?			
Comments			
This will upda	te the Cluster (219 800 159)		<u></u>
			<u>~</u>

CLICK ON YES BUTTON

**NOTICE** While the software is being updated, an hour glass will appear on the computer. The computer screen may also blank out. DO NOT TOUCH ANYTHING until the following message appears. Then, click the "OK" button.

Informatio	m 🗵
¢	Update has been successfully transfered into the CLUSTER.
	QKB
rbg2010-003-	009

CLICK ON OK BUTTON

4. When the update is completed, B.U.D.S. will automatically read data (all modules), then the following message will appear. Click the "Yes" button.

Warning		×
4	The cluster coding does not match with the ECM connected. Do you want to change it?	
	Yes No	
rbg2009-0	05-105	_

CLICK ON YES BUTTON

#### LCD Update

1. Click on **Module** drop down list and select **LCD**, then **Update**.



2. Select the "File Name" **219 800 159.fc** then click the "**OK**" button.



Step 1: Select file number 219 800 159.fc Step 2: Click OK

3. When the following message appears, click the "**Yes**" button to initiate the update.

**NOTE:** IMPORTANT: The LCD software may take up to 14 minutes to update.

4 · · · · · · · · · · · · · · · · · · ·				
Comments				
This will upd	ate the LCD (219 8	300 159)		<u> </u>
				~
,				



**NOTICE** While the software is being updated, an hour glass will appear on the computer. The computer screen may also blank out and an error code may appear. If this occurs, select CANCEL and proceed with next step.



1. Click Cancel

**NOTICE** If update is successful, the following message will appear. Click "OK" button.

Informatio	n 🛛
Ę,	Update has been successfully transfered into the LCD module.
	OK R
rbg2010-003	-013

4. When the update is completed, B.U.D.S. will automatically read data (all modules).

#### **DPS** Update

1. Click on **Module** drop down list and select **DPS**, then **Update**.



2. Select the "File Name" **219 800 159.fc** then click the "**OK**" button.



Step 1: Select file number 219 800 159.fc Step 2: Click OK

3. When the following message appears, click the "**Yes**" button to initiate the update.

stable. The up	date will take a	internal DPS softwar iround 2 minutes. Do	e. Make sure you want to	proceed now?	ind connections are
Comments	iate the DPS (2	219 800 159)			
	[			1	

CLICK ON YES BUTTON

**NOTICE** While the software is being updated, an hour glass will appear on the computer. The computer screen may also blank out. DO NOT TOUCH ANYTHING until the following message appears. Then, click the "OK" button.

Informatio	m 🗵
¢	Update has been successfully transfered into the DPS.
	QK b
vbs2010-008-0	010

CLICK ON OK BUTTON

4. When the update is completed, B.U.D.S. will automatically read data (all modules).

## TCM Update

#### SE5 Model Only

1. Click on **Module** drop down list and select **TCM**, then **Update**.



MODULE, TCM, UPDATE

2. Select the "File Name" **219 800 159.fc** then click the "**OK**" button.

CLICK ON OK BUTTON



Step 1: Select file number 219 800 159.fc Step 2: Click OK

3. When the following message appears, click the "Yes" button to initiate the update.

Werning You are about to update the internal TCM software. Make sure that T(	CM power and connections are
stable. The update will take around 2 minutes. Do you want to proceed	now?
This will update the TCM (219 800 159)	<u>م</u>
	.≊
Yes b No 22010-003-024	

CLICK ON YES BUTTON

**NOTICE** While the software is being updated, an hour glass will appear on the computer. The computer screen may also blank out. DO NOT TOUCH ANYTHING until the following message appears. Then, click the "OK" button.

Informatio	n	X
¢	Update has been successfully transfered into the TCM.	
	QK k	
rbg2010-003-0	025	

CLICK ON OK BUTTON

4. When the update is completed, B.U.D.S. will automatically read data (all modules).

#### WPM Update

1. Click on **Module** drop down list and select **WPM**, then **Update**.



MODULE, WPM, UPDATE

2. Select the "File Name" 219 800 159.fc then click the "OK" button.



Step 1: Select file number 219 800 159.fc Step 2: Click OK

3. When the following message appears, click the "Yes" button to initiate the update.

2 march		
This will updat	e the WPM (219 800 159)	. ~
		×



**NOTICE** While the software is being updated, an hour glass will appear on the computer. The computer screen may also blank out. DO NOT TOUCH ANYTHING until the following message appears. Then, click the "OK" button.



CLICK ON OK BUTTON

4. When the update is completed, B.U.D.S. will automatically read data (all modules).

## **Software Update Validation**

1. Turn ignition key to OFF.

IGNITION KEY
OFF
Let vehicle shut down completely (LCD OFF, approximately 30 seconds).

2. Turn ignition switch to ON.



IGNITION KEY	
ON	

3. In B.U.D.S., click on the **Read Data** button.



READ DATA BUTTON

4. Clear any faults that may have occurred during the software update using B.U.D.S. Refer to appropriate *SHOP MANUAL*.



1. Select the Faults page tab

2. Click on the Clear Occurred Faults button

5. Ensure the software updates have been successfully carried out by selecting the **Module** drop down list, choosing a module (such as the **ECM**), then selecting the **Information** function.



Step 1: Select the Module drop down memu Step 2: Choose a module Step 3: Select the Information function

**NOTE:** Note: if any of the modules are missing from the drop down menu, shut the vehicle down and allow it to power down completely prior to validating the software updates. If the missing module(s) do not appear on power up, shut down and restart BUDS. If the missing module(s) still do not appear, keep the vehicle and BUDS live and wait for the update to fully initialize and for the module to appear in the drop down list. This may take 15 minutes. If after 15 minutes the module does not appear, contact your service representative.

6. Repeat the previous step for each module ensuring the applicable module information concurs with the appropriate illustration that follows.

**NOTE:** If the proper number is not recorded, repeat the update procedure for that module.

#### **ECM** Validation

BRP Assembly Number:	420666300
Rotax Part Number:	666300
Rotax Hardware Number.	666060
Serial Number.	086478520101090609113822
Code Modification Fingerprint	09/12/14 01400
Diagnosis Code Bytes:	02810000
	Close

1. Validate ECM BRP Assembly Number



#### **Cluster Software Validation**

BRP Assembly Number:	710001389
BRP Software Number	710002264
Supplier Part Number:	556225
Serial Number:	FFFFFFFFF
Diagnosis Code Bytes:	02600000
Software Manufacturing Date	191109
CD Software Number:	0000211348
CD Software Manufacturing Date:	091009
Code Modification Fingerprint:	09/12/14 01400
/ehicle Model:	000B5AA00
∕ehicle Serial Number (∨IN):	2BXJBLC10AV000065
Delivery Date:	090821
	Close

1. Validate Cluster BRP Software Number 710002264

## LCD Software Validation

BRP Assembly Number:	710001389
BRP Software Number:	710002263
Supplier Part Number:	556225
Serial Number:	FFFFFFFFF
Diagnosis Code Bytes:	02620000
LCD Software Number:	0710002263
LCD Software Manufacturing Date:	201109
	Qlose

#### DPS Software Validation

BRP Assembly Number:	709400770
Supplier Part Number:	E02453A00
Supplier Software Number:	S01269B00
BRP Calibration Number:	709400771
Calibration Checksum:	
Serial Number:	139334380912
Code Modification Fingerprint:	09/12/14 01400
Diagnosis Code Bytes:	02B40000
Manufacturing Date:	20090527
	(

1. Validate DPS Supplier Software Number S01269B00

## TCM Software Validation

R	
BRP Assembly Number:	710001772
Supplier Part Number:	E02391A00
Supplier Software Number:	S01212B14
BRP Calibration Number:	710002262
Calibration Checksum:	VALID 1
Serial Number:	RDG7061
Code Modification Fingerprint	09/11/13 03399
Diagnosis Code Bytes:	02B20000
Manufacturing Date:	20090619

1. Validate TCM Supplier Software Number S01212B14

#### WPM Software Validation

BRP Assembly Number:	705003266
Supplier Part Number:	M01101B02
Supplier Software Number:	S01224D10
BRP Calibration Number:	710002207
Calibration Checksum:	VALID 1
Serial Number:	266A26009003
Code Modification Fingerprint:	09/12/14 01400
Diagnosis Code Bytes:	02B30000
Manufacturing Date:	20090922

1. Validate WPM Supplier Software Number S01224D10

- 8. Exit B.U.D.S.
- 9. Turn ignition key OFF.

10. Disconnect power pack and computer from vehicle.

## Vehicle Test Run

- 1. Start the vehicle and ensure the following are operating properly:
  - Engine
  - Cluster (including LCD)
  - Park brake
  - DPS (dynamic power steering)
  - Transmission shifting (SE5)
  - Windshield.

# WARRANTY

## 2010-0003

Submit a warranty claim using the following information:

CAMPAIGN NUMBER	2010-0003
Claim type	Campaign claim
Action	Repair
Flat Rate Time	0.7 hour

# **SERIAL NUMBERS LISTING OF INVOLVED VEHICLES**

#### Model: A4AA

From 000001 to 000007

#### Model: A4AD

From 000001 to 000003

#### Model: B5AA

From 000008 to 000032 From 000065 to 000161 From 000267 to 000265 From 000267 to 000276 From 000278 to 000310 From 000312 to 000317 From 000319 to 000323 From 000325 to 000328 From 000365 to 000368 From 000370 to 000377 000379 000381 From 000383 to 000389 From 000391 to 000392

#### Model: B5AB

From 000033 to 000034 From 000036 to 000064

#### Model: B5AG

From 000001 to 000002 From 000004 to 000006 From 000008 to 000013 From 000015 to 000023 From 000025 to 000032 From 000034 to 000049 From 000051 to 000059