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PIM II (EMS Peripheral Interface Module)

CanAm 2010 Commander 1000

R-433-2505	PERIPHERAL INTERFACE MODULE

Note: Read through all instructions before beginning installation.

THIS PRODUCT IS INTENDED FOR USE ONLY IN CLOSED COURSE RACING OR OTHER OFF ROAD COMPETITION AND NEVER ON PUBLIC ROADS OR HIGHWAYS

Installation by Qualified Technician Installation Only

NOTE: IN THE STATE OF CALIFORNIA, IT IS ILLEGAL TO MODIFY THE EMISSION CONTROL SYSTEM. WHICH INCLUDES THE FUEL INJECTION SYSTEM OF ANY VEHICLE.

CAUTION: Always allow vehicle to cool down prior to beginning installation.

Tools Required:

Torx Drivers (T25 and T30)	10mm Wrench
10mm Socket with long extension	4mm Allen Key
Flat Head Screwdriver	Cutters
Power Drill	1/4 Drill Bit

Installation Steps:

1. Vehicle Disassembly

a. Remove driver and passenger seat by pulling on latch located between seat back and seat cushion.

b. Remove center switch panel by removing two screws (Torx T25) and two clips as shown in Figure 1.

c. Remove center armrest panel by removing (1) T30 bolt securing passenger grip, as shown in Fig 1. Remove (1) T30 bolt forward of shifter. Remove 8 clips securing armrest panel.

d. Remove glove box cover panel and glove box. Pull to remove cover panel as shown in Fig 1. Remove (2) 10mm bolts securing glove box as shown in Fig 2.

e. Remove left and right armrest panels by removing (6) clips on the driver side and (7) clips on the passenger side.

f. Remove passenger inside panel to reveal intake tract by removing (7) clips and (2) T30 bolts.

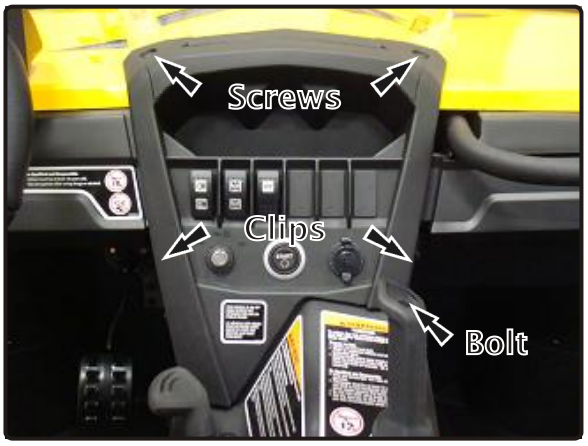


Fig. 1

Fig. 2

2. Install PIM2 and Harness

a. Locate and disconnect front injector harness under shifter console as shown in Figure 3. Connect front injector connectors to injector and harness.

NOTE: Forward injector has pink/grey wire on PIM2 harness.

b. Locate and disconnect rear injector harness behind shifter mechanism as shown in Figure 4. Connect rear injector connectors to injector and stock harness.

Fig. 3

Fig. 4

Installation Steps (cont):

c. Remove ground bolt as shown in Figure 5. Secure PIM2 harness ground to engine using stock bolt.
d. Locate and disconnect crank position connector as shown in Figure 6, located on the left side of the shifter console. Connect crank position connectors to stock harness. Use included cable-tie to resecure connectors and harness.
e. Route harness on left side of shifter console alongside of crank position connecter and up behind where the center switch panel is positioned. Make sure there is enough slack for the PIM2 main connector to reach behind the passenger side inside panel, and then beneath where the glove box would be positioned.
f. Locate and disconnect throttle position sensor as shown in Figure 7, located beneath the air inlet tube at the throttle body. Connect throttle position connectors to throttle position sensor and harness.
g. Locate start switch connector behind center switch panel as shown in Figure 8. Connect PIM2 power source connector to stock harness inline to start switch.

Fig. 5

3. Reinstall Interior Panels and Glove Box

a. Check and secure all wiring with supplied cable ties to ensure that there are no binds on the harness or areas which may be exposed to sources of high heat.
b. Reinstall all interior panels in reverse order from removal. Do not reinstall the center switch panel or glove box at this time.

Fig. 6

Fig. 7

Fig. 8

Installation Steps (cont):

4. PIM2 Unit and Bracket Installation

Fig. 9

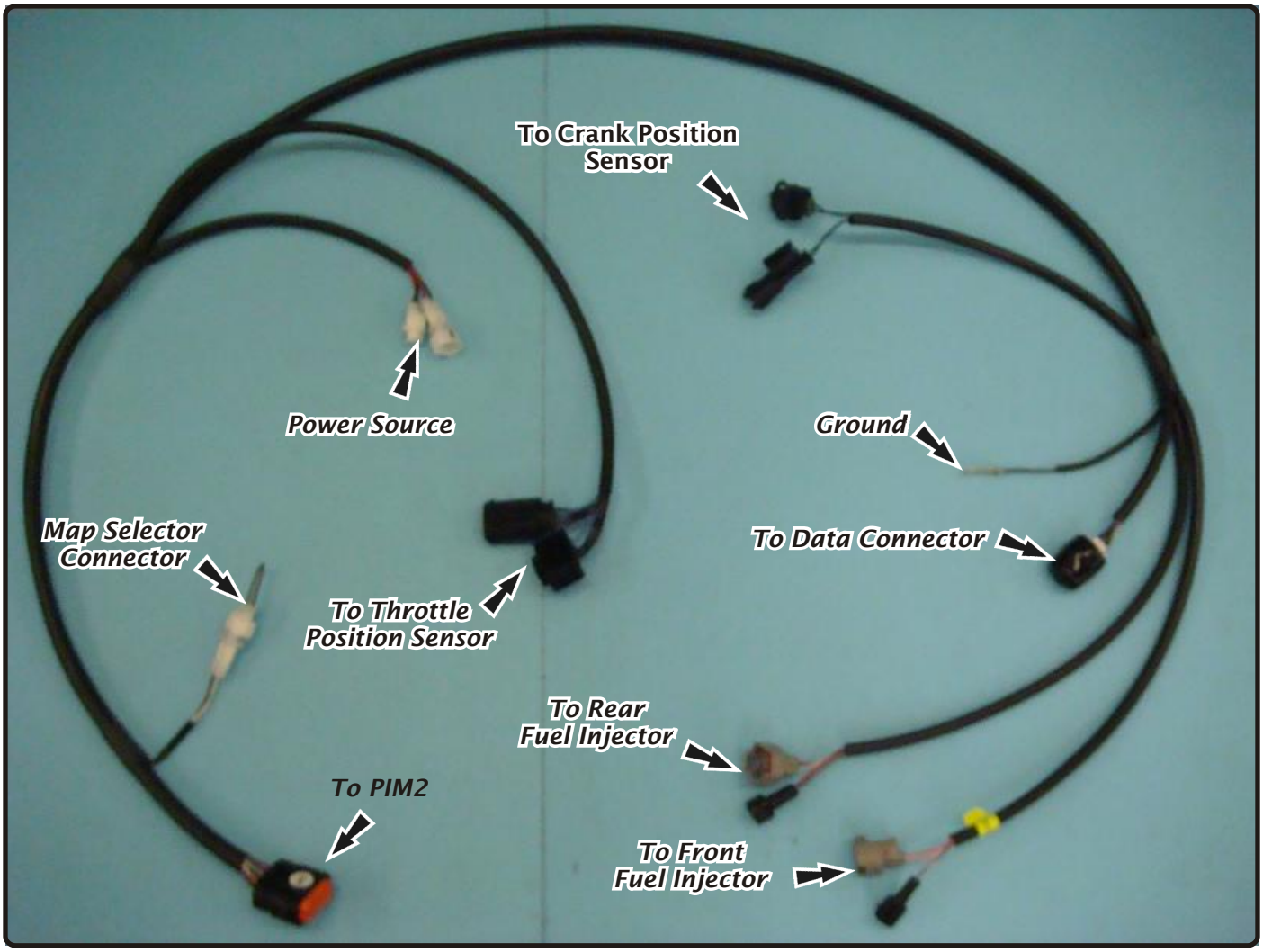
NOTE: Below is a **recommended** installation location for the PIM2 unit. The PIM2 unit may be mounted in other locations if necessary, under the discretion of the user/installer.

a. Position PIM2 unit and bracket under glove box as shown in Figure 9. Check to ensure that there is enough slack in the wiring harness to reach position. If harness cannot reach, reposition harness and/or reroute harness behind center switch panel.
b. Check inside the glove box to ensure that bolt and nut positions for bracket to not interfere with glove box dividers. Once a suitable position for the PIM2 bracket has been determined, mark the hole positions where the bracket will be secured.
c. Drill (2) holes using a 1/4” drill bit to be used to mount the PIM2 bracket.
d. Secure PIM2 bracket to glove box using supplied M6x16 bolts, washers, and nylon lock nuts.

NOTE: Removal of glove box from vehicle may aid in installation of PIM2 bracket.

e. Using supplied hook-and-loop adhesive, attach PIM2 unit to PIM2 bracket.
f. Securely connect main connector to PIM2 unit and route wiring behind unit as not to interfere with the connection port for the USB.
g. Reinstall glove box and center switch panel.

If any problems are found, please carefully repeat the installation steps. If problem still persists, please contact Yoshimura R&D customer support at (800) 634-9166.



Parts list:

DESCRIPTION	QTY	PART #
PIM	1	R-433B
PIM Harness	1	R-433-2505-HB
Aluminum Bracket	1	R-433-2505-BRKT
USB Cable	1	R-433-USB
PIM2 Software CD	1	R-433-CD
6mm x 16mm Button Head Screw	2	M6X16BHS
6mm Flat Washer	4	6MMWASHER
6mm Nylon Lock Nut	2	6MMLN
Yoshimura USA sticker	1	17029
Hook-&-Loop Adhesive	1	5000-V
Cable Tie	8	ZT-300
Instructions	1	INST KIT

Operation Steps:

The PIM comes with two preprogrammed maps. Map 1 is when the vehicle has a Yoshimura 3/4 exhaust system with spark arrester installed and running in standard conditions (i.e. standard sized wheels and gearing in packed dirt) .

Map 2 is when the vehicle has a Yoshimura 3/4 exhaust system with spark arrester installed and running in heavy load conditions (i.e. oversized tires in deep mud or sand).

Use the map selector plug to switch between maps. Map 1 is active when the selector plug is connected (Fig. 13). Map 2 is active while the selector plug is disconnected (Fig. 14).

NOTE: Before connecting the map selector plug remove the map selector plug cover (Fig. 14).

Fig. 13

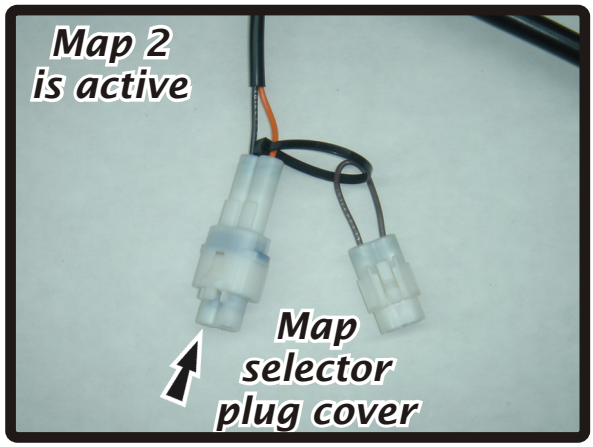


Fig. 14