

# COMMUNICATION TOOLS AND B.U.D.S.

## GENERAL

Use BUDS2.

Refer to the **B.U.D.S. directory** on *KNOWLEDGE CENTER* for all BUDS related information, including:

- Current version download link
- User manual (programming keys, reading fault codes, writing data to modules etc.)
- Installation instructions
- Navigation through menus
- BRP BUDS chart

Search keyword: "BUDS".

## TROUBLESHOOTING

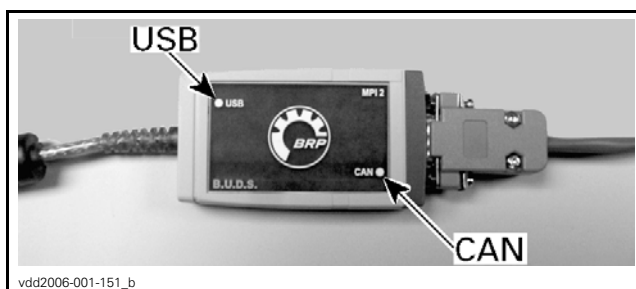
Refer to the BRP BUDS chart to ensure you are using the appropriate hardware and tools.

## COMMUNICATION PROBLEMS

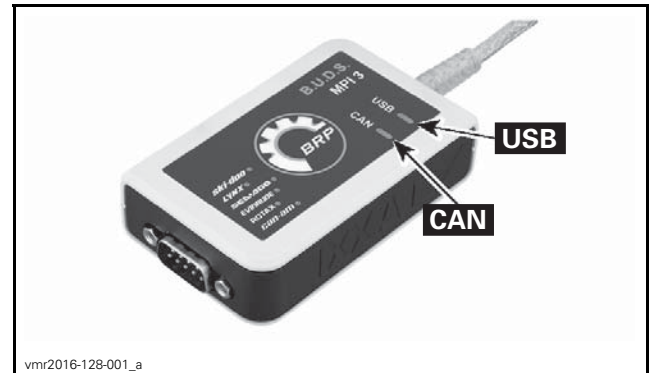
### MPI Connection Troubleshooting

#### MPI Status Lights

The MPI includes 2 status lights to show the connection conditions: USB and CAN. **Both lights must be GREEN** for the MPI to function properly. Otherwise, refer to the following charts.



MPI-2 CARD



MPI-3 CARD

#### Prerequisite for USB Communication:

- PC Computer turned ON
- MPI connected to PC computer.

| COMMUNICATION PROBLEM (USB) |                                                                                                                                                                                      |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| STATUS                      | WHAT TO DO                                                                                                                                                                           |
| USB Light is OFF            | <ul style="list-style-type: none"> <li>– Check USB connection between MPI-2 and PC computer.</li> <li>– Check USB operation on PC computer (hardware or Windows drivers).</li> </ul> |
| USB Light is GREEN          | <ul style="list-style-type: none"> <li>– Connections are GOOD. Communication can take place on USB side.</li> </ul>                                                                  |

#### Prerequisite for CAN Communication:

1. MPI connected to diagnostic connector.
2. The tether cord cap (D.E.S.S. key) is installed on the engine cut-off switch.
3. BUDS2 started and logged.
4. ECM is powered.

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## Subsection 04 (COMMUNICATION TOOLS AND B.U.D.S.)

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| COMMUNICATION PROBLEM (CAN) |                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| STATUS                      | WHAT TO DO                                                                                                                                                                                                                                                                                                                                        |
| CAN<br>Light is<br>OFF      | <ul style="list-style-type: none"><li>– BUDS2 does not communicate with the vehicle.</li><li>– Check connections from computer to vehicle.</li><li>– Check if BUDS2. is started.</li><li>– Check if vehicle is powered: is cluster turned ON? If it is not ON, install the tether cord cap (D.E.S.S. key) on the engine cut-off switch.</li></ul> |
| CAN<br>Light is<br>RED      | <p>This occurs when BUDS2 loses communication with vehicle.</p> <ul style="list-style-type: none"><li>– Check connections from computer to vehicle.</li><li>– Check if vehicle is powered: is cluster turned ON? If not, install the tether cord cap (D.E.S.S. key) on the engine cut-off switch.</li></ul>                                       |
| CAN<br>Light is<br>GREEN    | <ul style="list-style-type: none"><li>– Connections are GOOD.<br/>BUDS2 communicates normally with the vehicle.</li></ul>                                                                                                                                                                                                                         |