



# Installation Instructions

TABS-6 Trailer ABS Reconfiguration Kit

The kits which use this instruction sheet have a special Trailer Remote Diagnostic Unit (TRDU) to reconfigure TABS-6 Module (part number 5014016) where the ECU has inadvertently re-configured up to 4S/3M. The re-configuration of the TABS-6 Premium ECU is performed across the PLC (Power Line Carrier) of the trailer.

**Attention: The special TRDU Part Number K022312 unit is specifically designed ONLY for use with the Bendix TABS-6 ABS System. Do not attempt to use this special TRDU with other brands of ABS systems.**

Follow the process below to restore the TABS-6 configuration to 4S/2M-Side and disable future auto-configurations.

## PREPARATION:

**Follow all standard industry safety precautions, including, but not limited to, those listed on page 2 of this sheet.**

To initiate a configuration:

1. Apply constant power to the trailer and verify that the ABS ECU goes through its power-up sequence of modulator activation. (For additional information, refer to the TABS-6 Service Data Sheet SD-13-4767.)
2. Connect the special TRDU (part number K022312) to the 9-pin diagnostic connector. There are two (2) methods available:
  - (a) with a 7-way adapter (part number 802165) at the nose of the trailer through the SAE J560 connector, or,
  - (b) using an adapter harness to connect to the diagnostic connector on the TABS-6 Premium pigtail harness.
3. Verify the LED sequence as described in *Configuration Process* below for a successful re-configuration. The re-configuration operation should take less than 10 seconds. Additionally, the TABS-6 ABS ECU will perform the normal power-up sequence as the modulator activates.
4. Disconnect Special TRDU from the diagnostic connector when configuration is completed.
5. Remove the power supply.

## CONFIGURATION PROCESS

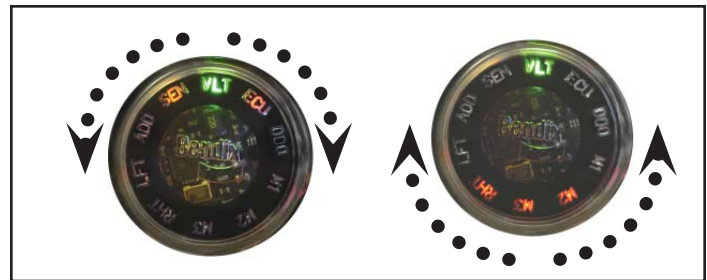
When the special TRDU (part number K022312) is plugged into the diagnostic connector and receives power:

1. All the LEDs will illuminate for one half second.
2. The green LED VLT will flash 4 times to indicate communications have been established with the TABS-6 ECU. (The green LED will continue to be illuminated while the special TRDU is performing the configuration change.)



**FIGURE 1 - BENDIX® TABS-6 TRAILER ABS UNIT, SPECIAL TRDU, AND ADAPTER**

If the configuration change was successful the special TRDU will flash 2 half moon patterns, first downward then upward on the LEDs. It will repeat this pattern until the TRDU is removed from the diagnostic connector. The configuration operation will take less than 10 seconds.



**FIGURE 2 - SUCCESSFUL CONFIGURATION**

If the configuration was unsuccessful, the special TRDU will leave all LED's illuminated until the TRDU is removed from the diagnostic connector.



**FIGURE 3 - UNSUCCESSFUL CONFIGURATION**

If configuration was unsuccessful, check to verify that the ABS ECU is the correct part number. If the green VLT LED flashes 4 times and then all the LEDs illuminate, the part number of the TABS-6 ECU is incompatible with the function of this tool. The tool will indicate if it can not establish communications with the TABS-6 ECU by leaving the green VLT LED illuminated solidly upon power up, then illuminate all the LEDs similar to an unsuccessful configuration until the TRDU is removed from the diagnostic connector.

The technician will need to determine the issue with communications. Some possible causes are:

- (a) There may be a problem with PLC communication at 9 pin connector,
- (b) The ECU or 9 pin diagnostic connector are not powering up,
- (c) The PLC communication is overloaded and/or,
- (d) The special TRDU may have a malfunction.

If the communications problem can be corrected, the configuration operation can be retried as many times as necessary.

If communication issues continue, or the configuration is unsuccessful after several attempts, contact Bendix at **1-800-AIRBRAKE** (1-800-247-2725), Monday through Friday, 8:00 A.M. to 6:00 P.M. EST. Please have the Bendix product model number, part number and configuration, vehicle make and model, vehicle configuration (number of axles, tire size, etc.) information ready when you call.



#### **SAFE MAINTENANCE PRACTICES**

#### **WARNING! PLEASE READ AND FOLLOW THESE INSTRUCTIONS TO AVOID PERSONAL INJURY OR DEATH:**

**When working on or around a vehicle, the following general precautions should be observed at all times:**

1. Park the vehicle on a level surface, apply the parking brakes, and always block the wheels. Always wear safety glasses.
2. Stop the engine and remove ignition key when working under or around the vehicle. When working in the engine compartment, the engine should be shut off and the ignition key should be removed. Where circumstances require that the engine be in operation, EXTREME CAUTION should be used to prevent personal injury resulting from contact with moving, rotating, leaking, heated or electrically charged components.
3. Do not attempt to install, remove, disassemble or assemble a component until you have read and thoroughly understand the recommended procedures. Use only the proper tools and observe all precautions pertaining to use of those tools.
4. If the work is being performed on the vehicle's air brake system, or any auxiliary pressurized air systems, make certain to drain the air pressure from all reservoirs before beginning ANY work on the vehicle. If the vehicle is equipped with an AD-IS® air dryer system or a dryer reservoir module, be sure to drain the purge reservoir.
5. Following the vehicle manufacturer's recommended procedures, deactivate the electrical system in a manner that safely removes all electrical power from the vehicle.
6. Never exceed manufacturer's recommended pressures.
7. Never connect or disconnect a hose or line containing pressure; it may whip. Never remove a component or plug unless you are certain all system pressure has been depleted.
8. Use only genuine Bendix® replacement parts, components and kits. Replacement hardware, tubing, hose, fittings, etc. must be of equivalent size, type and strength as original equipment and be designed specifically for such applications and systems.
9. Components with stripped threads or damaged parts should be replaced rather than repaired. Do not attempt repairs requiring machining or welding unless specifically stated and approved by the vehicle and component manufacturer.
10. Prior to returning the vehicle to service, make certain all components and systems are restored to their proper operating condition.
11. For vehicles with Antilock Traction Control (ATC), the ATC function must be disabled (ATC indicator lamp should be ON) prior to performing any vehicle maintenance where one or more wheels on a drive axle are lifted off the ground and moving.