SERVICE BULLETIN
MAINTENANCE OF WAY EQUIPMENT

DATE: 04-2021   **BULLETIN NO:** 18-005C

TITLE: Jupiter I Module Hardware / Software Update

RATING:
☐ **DIRECTIVE** (Action Is Required)   ☒ **ALERT** (Potential Problem)

☐ **INFORMATION** (Action Is Optional)   ☐ **PRODUCT IMPROVEMENT** (Enhance Product)

PRODUCT SERIES / MODEL: Harsco Rail Machines Equipped with Jupiter I Control System

SERIAL NO: N/A

SUMMARY:

Obsolete Module:	Replacement Service Kit:
H2967Y01 Digital Input Module	5090719 Service Kit (Incl. 5089969 Module)
H2967Y02 Analog Input Module	5090720 Service Kit (Incl. 5089977 Module)
H2697Y03 Digital Output Module	5090721 Service Kit (Incl. 5089978 Module)

The above listed Obsolete Modules are being replaced with new replacement modules that are included in the Service Kits listed. The Service Kits will also include a USB Flash Drive for software load, software installation instructions and a copy of this Service Bulletin. This replacement module is designed for use in the Jupiter network on machines equipped with Jupiter I. The new module is a direct replacement for the obsolete module. However, the machine's Jupiter software must be updated with new software that will recognize the new module so it will function properly when it is installed.

Once the software update is installed, it is not necessary to update the machine software each time another obsolete H2967Y01, H2967Y02 or H2697Y03 module is replaced.

OPERATIONAL IMPACT: The new module will not function until the machine's Jupiter software is updated. The Jupiter control system will unsuccessfully attempt to download to the new module each time the computer is rebooted. The Jupiter control system will recognize the new module once the software is updated.

ACTION: Make sure to have your machine's Model Number(s), Serial Number(s) and Software Version (if known) available when contacting Harsco Rail about ordering the Replacement Service Kit. The Replacement Service Kit may be ordered through the Harsco Rail Parts Department but it will also be necessary to contact the Harsco Rail Service Department to obtain the software update for your machine. The software update will be available via e-mail or sent to you on a USB Flash Drive.

ACTION: If you are requesting the 6700SJ1 software upgrade via e-mail you will be
(Continued)   required to have two USB Drives available. One for the WORK JAM software
                upgrade and one for the INSTRUMENT JAM software upgrade. The software
                will be sent in two separate e-mails. A third e-mail will then be sent containing
                the Jupiter 1 Software Installation instructions. If the software upgrade for the
                6700SJ1 is sent to you on USB Flash Drives, the Software Instruction document
                will be printed out and added to the package. Follow the instructions in this
                Service Bulletin to replace the Obsolete Module.

CONTACT: Harsco Rail Service Department
                Columbia, SC Facility
                (803) 822-7546

                Harsco Rail Service Department
                Ludington, MI Facility
                (231) 843-7413

Safety Information

⚠️ **WARNING**

- ◼ **FOLLOW APPLICABLE RAILROAD LOCKOUT - TAGOUT PROCEDURES AND MACHINE ENERGY CONTROL PROCEDURE TO DISABLE ENERGY SOURCES WHEN PERFORMING MAINTENANCE, MAKING ADJUSTMENTS OR REPAIRS TO THE MACHINE. FAILURE TO HEED THIS WARNING COULD RESULT IN SEVERE BODILY INJURY.**

Module Replacement

1. The replacement module will be shipped with specific software installation instructions that may differ depending on the machine serial number that was provided when the replacement module was ordered. Be certain to follow the software installation instructions exactly.

2. See Figure 1.   The 6700SJ1 will require two software upgrade files, one for the WORK JAM and one for the INSTRUMENT JAM. These will be sent to you in two separate e-mails. Figure 1 shows the location of the JAM Boxes on the Left Hand Panel.

3. Verify and log all machine parameters before beginning the software download. Note: For 6700SJ1, refer to the 6700SJ1 Software Installation Instructions.

4. Install the new software before removing the old modules that need to be replaced. Download the module software to the old modules. Turn the Jupiter computer OFF. Note: For 6700SJ1, refer to the 6700SJ1 Software Installation Instructions.

5. Make sure that the machine's engine is shut down, parking brakes are applied and battery master switch is OFF.

6. On the module that is going to be replaced, make sure that all of the cables connected to the module are marked or that you mark them to ensure they are reconnected to the correct connector on the replacement module.
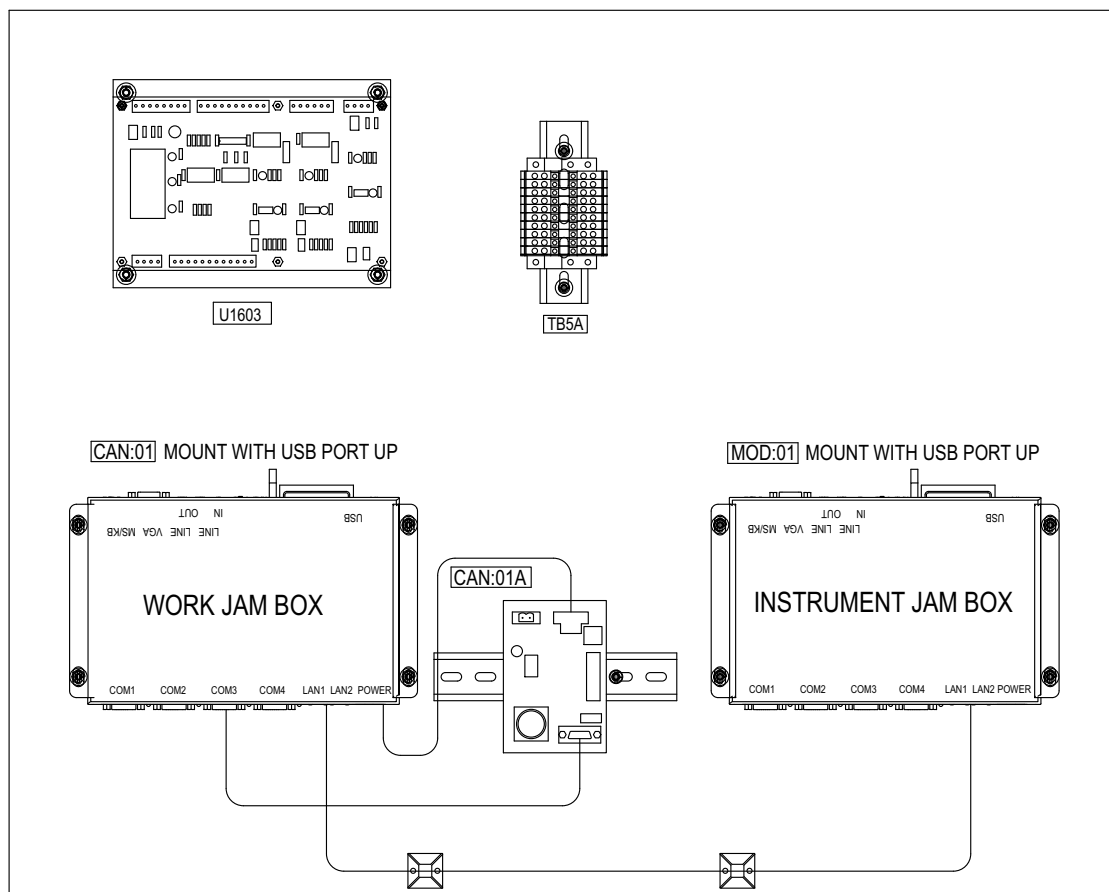
Module Replacement

7. Remove the cables. Inspect the cables and connector ends for any damage. Replace cables if necessary.

8. Remove the old module and install the replacement module in its place using the existing hardware. Reconnect the cables to the correct connectors on the replacement module.

9. Turn the battery master switch on. Turn the Jupiter computer ON. Download the module software to the new modules. Turn the Jupiter computer OFF and then back ON again.

10. Verify that none of the machine parameters have changed. If any parameters have changed, correct them using the parameter information that was logged.

    Note: Restart the Jupiter computer if any module downloads occur on the Jupiter network.

11. Start the machine's engine. Turn Jupiter ON. Check the function of the entire Jupiter Control System. Make sure the replacement module is communicating with the Jupiter Network and all functions controlled through the module are functioning properly.

12. If any problems are encountered, contact the Harsco Rail Service Department.

FIGURE 1
6700SJI TAMPER LEFT HAND PANEL - JAM LOCATIONS