RECALL

R23CH: INOPERATIVE AIR PRESSURE GAUGES

Production Models Affected: Certain 2021 through 2024 Model Year T3RE, T3FE and BBCV (EV only) Blue Bird buses equipped with pneumatic brakes.

Parts Affected:

Blue Bird Part Number	Ametek Part Number	Description	Ametek Config umber
10072296	000104716	CLUSTER, INSTRUMENT,36-PIN, VIDEO, AIR	104893-002_v1.5
10073740	000104937	CLUSTER, INSTRUMENT,36-PIN, AIR, EV, CORE 2	104893-003_v1.3
10073741	000104938	CLUSTER, INSTRUMENT,6-PIN, AIR, EV, CORE 2	104893-203_v1.4

Issue: The primary and secondary air pressure gauges along with visual & audible low air warnings could be inoperative at vehicle startup in <50°F(10°C) ambient temps. This condition will often go away after ~20 minutes of engine run time has expired.

Corrective Action: Reflash the instrument cluster with the latest software available on Vantage.

NOTE: It is **strongly recommended** that the cluster be programmed on the bench for two reasons:
- First, it mitigates the opportunity to load the cluster software file in the wrong device.
- Second, depending on feature content, the cluster could be the source for certain CAN based data for the J1939 network. During the flash process, the cluster (0x17) falls offline and could set fault codes in other controllers.

WARNING: Always follow all Federal, State, Local and Shop safety standards and use proper safety equipment, and thoroughly read and understand all instructions before performing these procedures.
Park bus on level surface, apply parking brake, turn off ignition key, and chock wheels.

Tools Needed:

Item	Part Number	Description	Quantity
1	N/A	RP1210A complaint adapter	1
2	10055458	HARNESS, BENCH, PROGRAM, INSTR CLUSTER, AMETEK	1
3	N/A	12v bench power supply	1
4	N/A	Latest version of the Ameflash tool found **HERE**	1

Instructions:

Step 1: Review the current cluster software installed. To do so, ensure park brake is set and key is on. Hold lower button down for >3 seconds. Scroll to "SELF-TEST"->" COMPONENT TESTS"-> "SOFTWARE VERSION". Compare to chart above. If version installed is older than what is illustrated, proceed to the following steps to update the cluster software.

Step 2: Download the latest cluster software, based on your cluster part number.

Step 3: Re-program the cluster, per **THESE** instructions.

IMPORTANT NOTE:
- This cluster flash is unique from any other update Blue Bird Field Service has published. The calibration process will transpire as follows:
  - Once flash is started, the status bar on the AmeFlash tool will progress from 0-100%, left to right. During this process, the cluster will display "REFLASH IN PROGRESS". See Figure 1.
  - Once that completes, the cluster display will be black and will not auto-initialize.
  - The red low air visual indicators SHOULD begin to flash rapidly. See Figure 2.
  - If they do not, remove the cluster battery fuse within the PDU, count to 3, and re-install it. The low air warning LED's should begin to flash rapidly for ~30 seconds. After which the cluster will re-start and the bus can be restored to service.
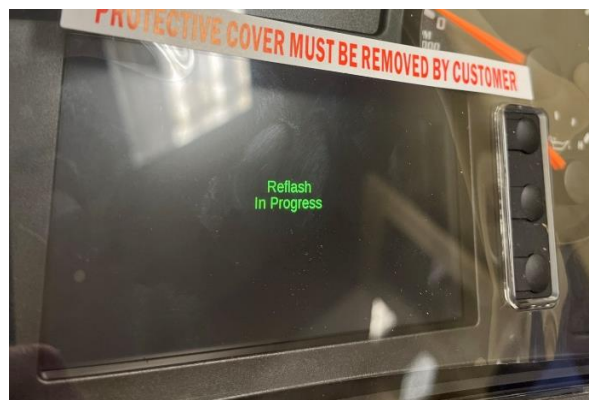

Figure 1

Figure 2