SC0003

10 November 2017

Replacing/refitting Star Cool/MCI temperature supply sensors.

When a supply air sensor has been deemed faulty, it is important that before replacement of the sensor takes place its correct placement into the sensor pocket is checked. Over the different build types of Star Cool/MCI reefer units there have been different supply air temperature sensor pockets applied. We have found during operation and preparation/repair of these units, owing to the different sensor pocket types and depths, some sensors have not been inserted fully in to the sensor pockets. This can cause incorrect senor readings that could lead to potential chilling damages, unnecessary unit alarms and sensor replacements.

When replacing sensors:

1. Ensure both sensors are fully inserted in to the sensor pocket.

2. Use the below container build information to obtain the correct sensor depth for the corresponding sensor pockets.

3. Measure and mark the sensors to the required length (measurements must be taken from the tip of the sensor to required length and mark each sensor wire.

4. Reinsert each sensor back into the sensor pocket to the marked measurement.

5. Reinstall sensor pocket glands ensuring the seals are in place, serviceable and the glands are fully secured.

6. Mark the sensor wiring with a permanent marker pen around the outside of the gland, to show the sensors are positioned correctly.

7. Whilst carrying out sensor replacements, ensure all sensor wiring is in good condition, (e.g. Splices are made correctly, using heat shrink glue impregnated inline connectors). Refer to ML Technical bulletin GEN0008.

8. Ensure sensor wiring is secured correctly and not left laying loose, along with being secured in a manner where wiring is fastened away from the FC. (Refer below picture.)

Were the black sensors are used these come with a moulded gland which also acts as a locator, therefore it is not required to check the depths when fitting these.

Pocket	Picture	Implementation		MCI part number	ML container ranges	No. of ML containers	Pocket depth
		MCIQ	MCIS				
A		From beginning in 2005	N/A	815514B	MSWU 000000 - 011749 MSWU 100000 - 104239 MSWU 400000 - 400214 MSWU 900000 - 911228 MMAU 100000 - 102999	28,528	230 mm
B		December 2009	N/A	815521C	MMAU 103000 - 125499 MNBU 300000 - 341834 MNBU 900000 - 903349	66,039	SCI: 148 mm SCU: 165 mm
C		May 2013	N/A	815521D	MNBU 341841 - 354690 MCRU 200000 - 207499	16,803	165 mm
D		June 2015	From the beginning in 2015	818691A	MNBU only.	933	177 mm
E		July 2015	August 2015	815521E	MNBU only.	34,918	260 mm