FCO CA06879: Load Ramp Sensor Cable Adapter (Home Side)

Document number: 719-00532A-EN Rev A

Product	FCO priority
Trendsetter® NEWS output devices (MCE)	Next visit

Machines affected See the ECO/100 Label Cross-Reference document (72-3582B)

Background

Trendsetter NEWS output devices manufactured prior to the implementation of this ECO in production have a problem with different I/O pull-up values for the home and the away load ramp plate sensors. The MCE board's I/O for the home sensor has a 100 kilohm pull-up, while its I/O for the away sensor has a 10 kilohm pull-up. This can result in the I/O for the home load ramp plate sensor being less sensitive than the I/O for the away load ramp plate sensor and failing to measure plate length accurately.

Solution

Add a short adapter cable with a 10 kilohm resistor in parallel between pin 1 and pin 2 to the home load ramp plate sensor cable.

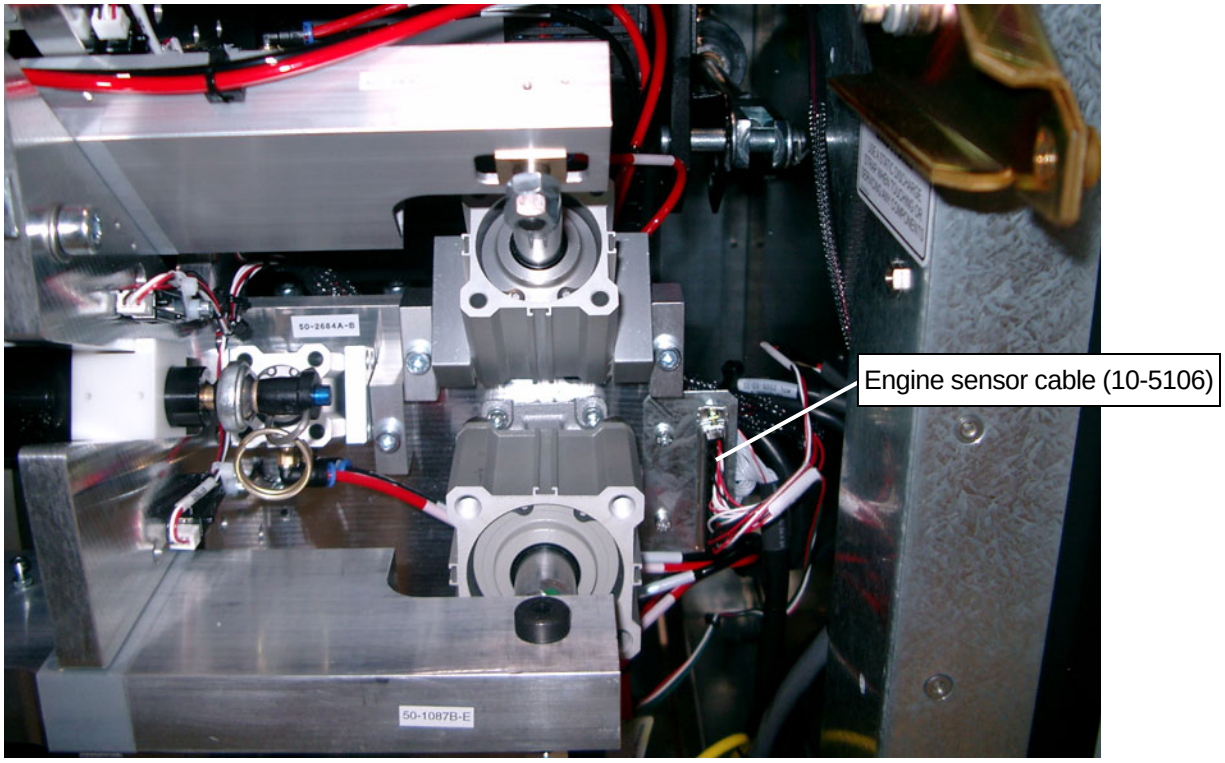
Parts required

Part Number	Part Name	Quantity
512-00297A	FCO kit: Adapter cable for home load ramp plate sensor cable	1

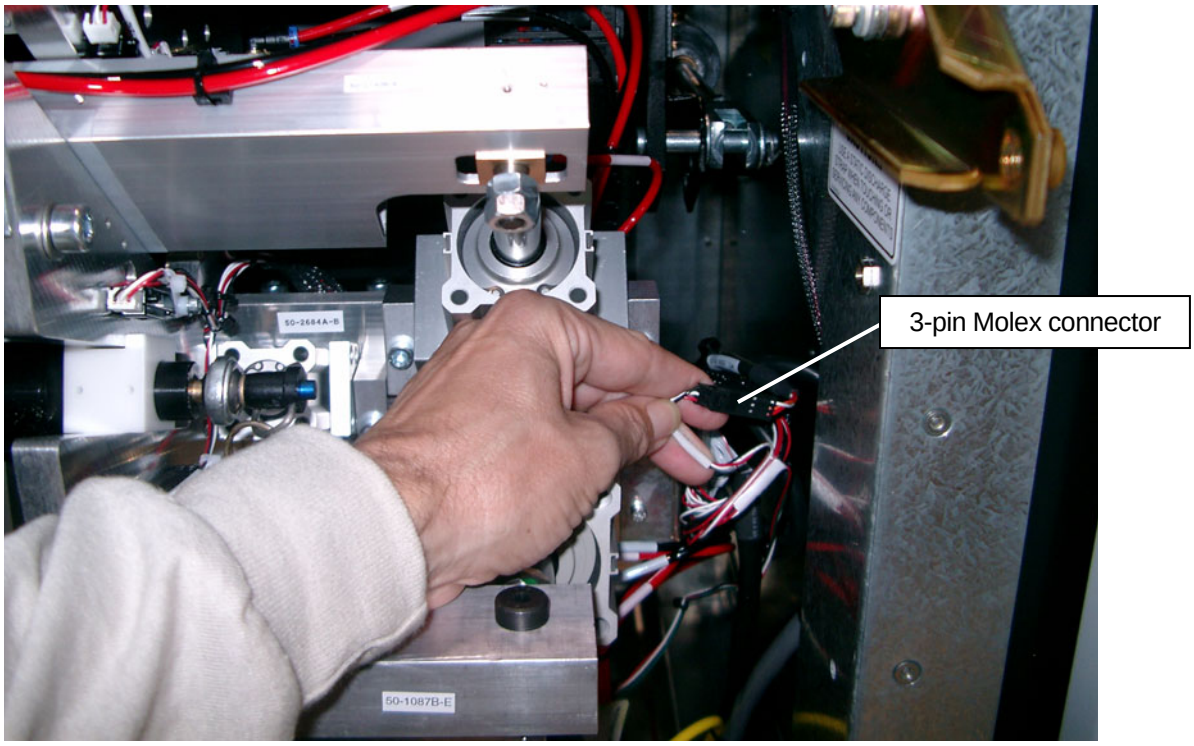
Tools required Metric measuring tape

Procedure

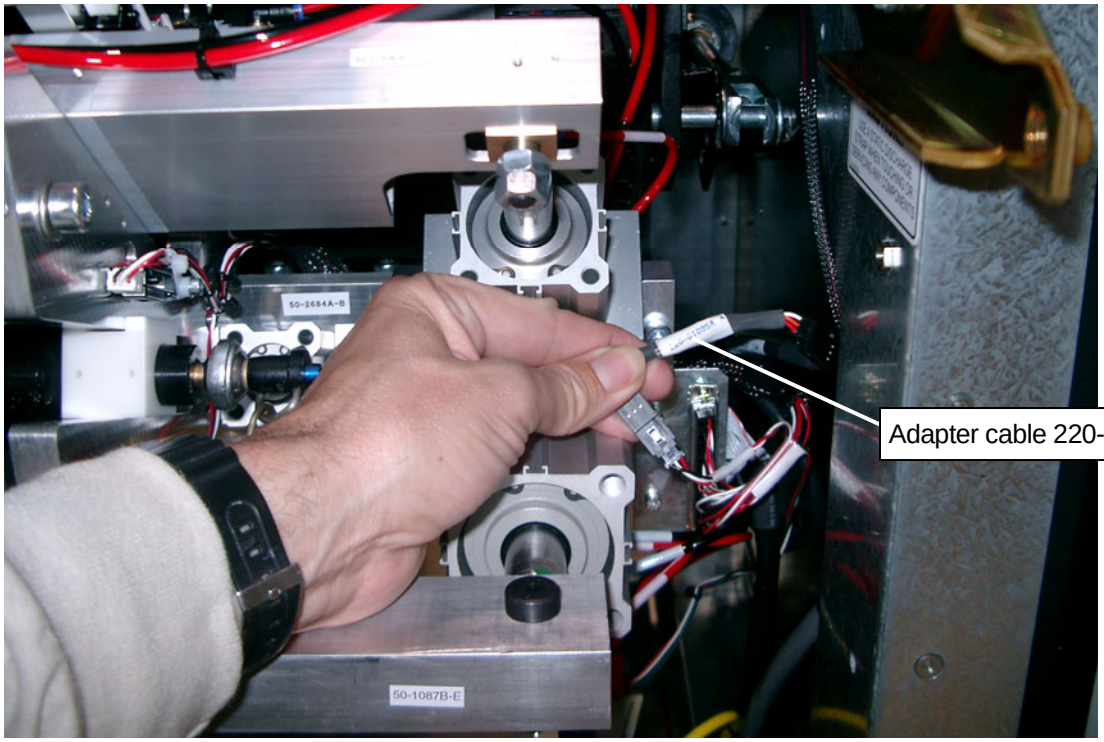
1. Turn off power to the output device and open the front lower door.
2. Locate the engine sensor cable (part number 10-5106) at the right front section of the side plate (see the following photo).



3. Locate the 3-pin Molex® connector to which the black-jacketed load ramp sensor cable (part number 10-5155) is attached (see the following photo).



4. Disconnect the 3-pin Molex connector and carefully install the 50 mm long adapter cable (part number 220-01096A) behind the bracket that holds engine sensor cable 10-5106.



5. Close and latch the front access door.
6. Switch on power to the output device and wait until it is ready.

Test

1. From Service Shell's **Views** pane, select **Device Monitor**.
2. Load a customer's plate and then unload it to ensure the load ramp plate sensor works with no errors.
   `load bay 1 m <xxx> s <yyy>`
   (where <xxx> is the mainscan dimension in mm and <yyy> is the subscan dimension in mm)
   `unload`
3. Calibrate the load ramp plate sensor-to-LEC distance.
   `load calibrate`
   This command loads another plate from bay 1 and calibrates the distance from the load ramp plate sensors to the LEC.
4. Open the plate bay access door and, as accurately as possible, measure the mainscan and subscan size in mm of the next plate to be loaded.
5. Close the plate bay access door and load the plate.
   `load bay 1 m <xxx> s <yyy>`
6. Observe the Service Shell Device Monitor screen to see how closely the measured length of the plate matches the expected length. The measured length of the plate should be very accurate.

Note: The maximum difference between expected and measured plate length is ± 3 mm. Outside of this range, a suspend condition will occur.
Also note that the `TEadjust` NVS parameter determines where the trailing edge clamps are placed onto the plate relative to the plate length. If the load ramp plate sensors are unable to accurately detect the plate length, the TE clamps will not be placed securely onto the plate, and flyoffs may occur.

FCO 100 Label #	25
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Date submitted	09 Jun 2005
Last updated	09 Jun 2005