

AMT LPCA vertical sensor

Applies to

AMT12 Open Stride units

Issue/Symptoms

If there is an issue with the vertical stride sensor (see Figure 1), Error 62 will be displayed. The most likely cause of this will be a faulty, broken, or poor cable connection at the lower PCA. A missing or reversed magnet on the crank arm is also a possibility, as is a defective sensor. Least likely but possible is a fault on the lower PCA.

Resolution

Technicians need to be aware of the following circumstances when working on AMT LPCA's and the vertical sensor, as this feature has been removed from current production:

- On AMT12 Open Stride units **prior to 10/18/2018**:
If Error 62 is displayed and the vertical sensor is the problem, the vertical sensor should be unplugged and removed. Next, a jumper will need to be placed across pins 2 and 3 of the J8 connector, which will stop the reporting of the error.

Note: If LPCA 301444-107 is replaced for a different reason, install LPCA PN:305476-103 and remove the vertical sensor assembly (no jumper will be required, the vertical sensor circuit has been removed from LPCA PN:305476-103)



- On AMT12 Open Stride units **from 10/18/2018 to 6/3/2019**:
The vertical sensor was removed and the LPCA has the jumper installed in production.

- On AMT12 Open Stride units **after 6/3/2019**:
The LPCA has been redesigned and the vertical sensor connector has been removed. A jumper is not used.

Note: The P31 console will only work with the updated LPCA 305476-103. Previous versions of the LPCA paired with the P31 console will trigger Error 87 (console mismatch).

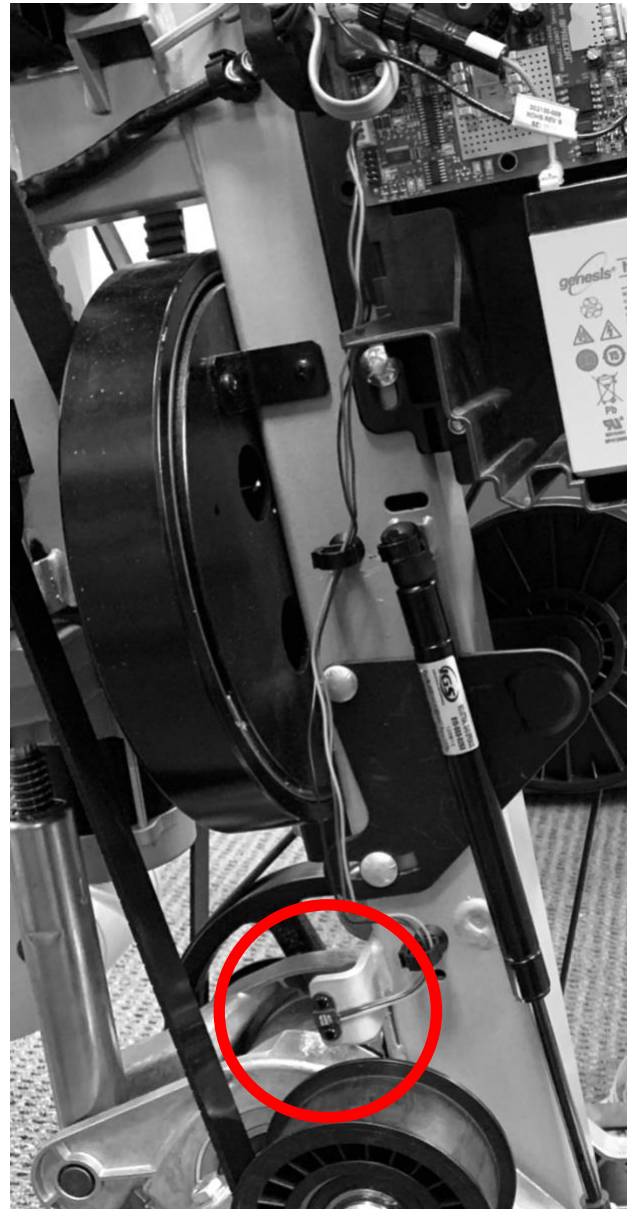


Figure 1: Vertical sensor

Parts

QTY	Part Number	Description
1	Procure locally	2.54mm Standard Circuit Board Shunts Short
1	PPP000000305476103	AMT12 OS LPCA (new)

Procedure

Review entire procedure before starting.

- 1 Access the LPCA (see service manual for procedure).
- 2 If Error 62 is displayed, determine if the problem is the sensor or the LPCA. See the [Error Code Troubleshooting Guide](#) for procedure.
 - a. If the problem is the sensor, unplug and remove the sensor and install the Vertical Sensor Jumper across pins 2 and 3 (**top two pins** – the bottom pin is pin 1) of the J8 connector. See Figures 2 and 3.
 - b. If the problem is the LPCA, replace with LPCA PN: 305476-103 and remove the vertical sensor.
- 3 Verify operation and return to service.

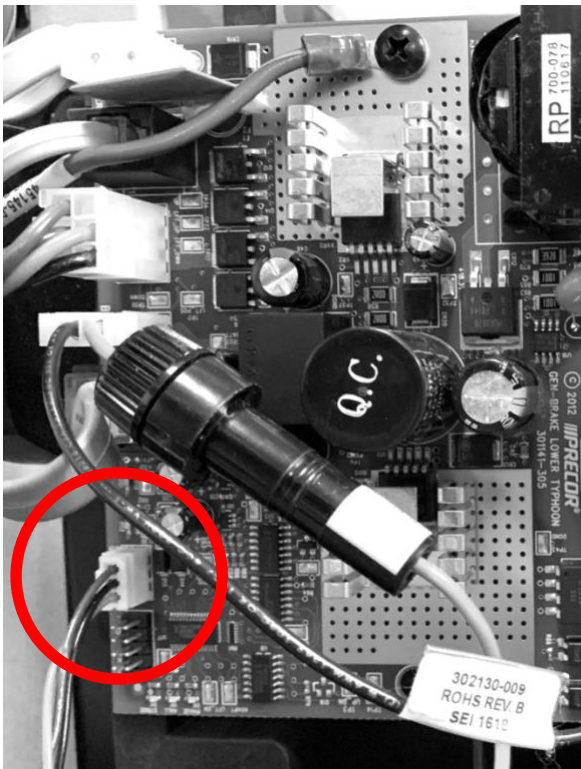


Figure 2: Vertical sensor plug

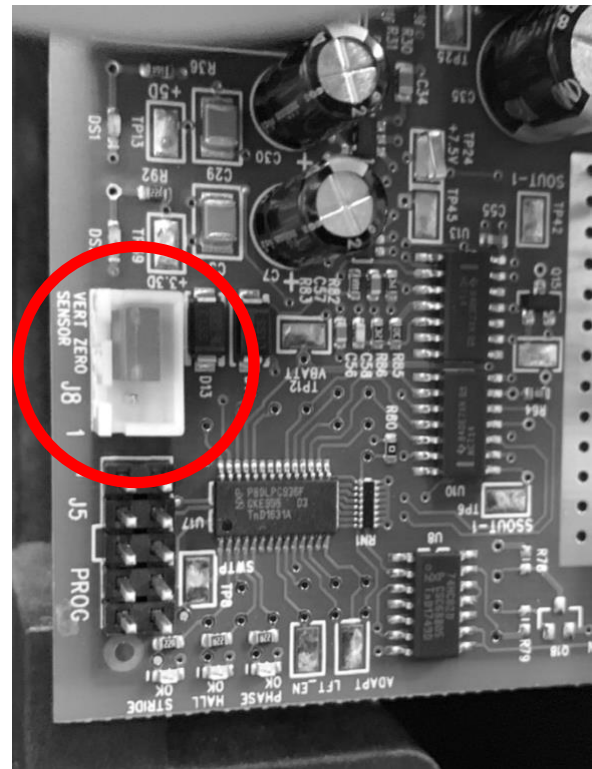


Figure 3: Vertical sensor jumper installed (pin 1, bottom, is left open)