

Spinner® Chrono™ Power Bike Error 30 Troubleshooting Update

Applies to

Spinner® Chrono™ Power model Indoor Cycle

Issue/Symptom

Since the original release of the Spinner® Chrono™ Power bike, there have been three separate issues identified as possible causes of generating an error 30 “LPCA to Console Communication Error” code event:

- **LPCA Mylar cover zip tie:** The original installation of the Lower PCA (LPCA) Mylar moisture barrier cover (production start date ~ 11/18/2017) required the use of a zip tie to secure the Mylar cover around the LPCA board. However, it was later discovered that if the zip tie was installed too tightly, the cover could press against the data COMM cable creating cable strain and issues with the Data COMM cable LPCA connection.
- **Pinched Data COMM cable:** The Data COMM cable may become pinched due to excessive cable strain where the cable exits the front of the handle bar mount and reenters the console backplate.
- **Flywheel rubbing caused cable wear:** If there is too much cable slack on the inside of the right frame fork where the Data COMM cable passes the flywheel, the cable may rub against the flywheel damaging the cable.

Error Code 30

Error 30 “LPCA to Console Communication Error” indicates communication between the console and LPCA was interrupted for 3 seconds or more. If the LPCA receives no input from the console for 10 seconds or more, the LPCA will shut down when the pedals have stopped or if there is not an external battery charger attached.

Possible Causes

- Zip tie around the LPCA Mylar moisture barrier (Product Dates approx. 11/18/2017 to 2/12/2018).
- Data COMM communication cable rubbing against the flywheel.
- The Data COMM cable LPCA or Console connectors are not properly seated.
- Pinched Data COMM cable where the cable exits the front of the handle bar mount and then reenters the console backplate (excessive cable strain).
- If the Data COMM cable and connections are good, the LPCA may have failed.
- Console failure.

Troubleshooting Steps

1. Check battery condition. If less than 5.4 VDC (not fully charged), try charging by pedaling the bike > 55 rpm or use a Precor power adapter. If the battery will not hold charge “dead”, replace the battery.



Note: Always make sure the battery is charged and not dead before troubleshooting error 30 codes. A dead battery exhibits the same symptoms as an error 30 and a frozen “Welcome” screen but does not contribute too or cause an error 30 event.



Note: If the console “Welcome” screen is frozen, disconnect power from LPCA, wait for 3 seconds and reconnect the power.

2. Check for a zip tie securing the Mylar cover around the LPCA. If installed, remove the zip tie (no longer required) and reseal the LPCA Data COMM cable connector, see Chrono Service Manual [LPCA Board Replacement](#) procedure.
3. Check for cable wear (especially where the cable is routed next to the flywheel). Replace the cable if damaged, see Chrono Service Manual [Data COMM Cable Replacement](#) procedure.

4. Check for proper cable routing and excessive cable strain, see Chrono Service Manual [Data COMM Cable Replacement](#) procedure.
 - a. Correct any incorrect cable routing.
 - b. Check for excessive cable strain and create slack if needed.
 - c. Check that the cable is properly secured to the frame cable clamps and zip ties.
 - d. Replace any missing or damaged frame cable clamps or zip ties.
5. Check for a pinched cable where the cable exits the front of the handlebar post and reenters at the console backplate. Excessive cable strain is the most likely cause of the pinched cable. Create slack in the cable and reseal the Data COMM cable Console connector. Replace cable if damaged.
6. Reseat the LPCA and Console cable connections, see Chrono Service Manual [Data COMM Cable Replacement](#) procedure.
7. Verify the LPCA is not defective.
8. Verify that the Console is not defective.