



Mandatory Product Update/Safety Bulletin

PCWU 15-012
 PC3/Titan Overspeed Safety Device - Safety Bulletin
 October 12, 2015

COMPLIANCE CATEGORY	PRIORITY CODE
<input checked="" type="checkbox"/> Safety Failure to comply with this product update could result in personal injury or death. Compliance is mandated within a specific operating time.	<input checked="" type="checkbox"/> 1 Prior to unit startup or prior to continued operation (Immediate Action Required)
<input type="checkbox"/> Compliance Required Identifies the need for action to correct a condition that, if left uncorrected, may result in reduced equipment reliability or efficiency. Compliance may be required within a specific operating time.	<input type="checkbox"/> 2 At first opportunity (Prior to Next Scheduled Maintenance Interval)
<input type="checkbox"/> Optional Identifies changes that may be beneficial to some, but not necessarily all. Accomplishment at customers discretion.	<input type="checkbox"/> 3 Next Scheduled Maintenance Interval
<input type="checkbox"/> Notification Customer communication, no action required.	<input type="checkbox"/> 4 Optional / Notification

PRODUCT MODELS AFFECTED						
<input checked="" type="checkbox"/> Sherpa-VPM	<input checked="" type="checkbox"/> Sherpa-RD	<input checked="" type="checkbox"/> Sherpa-SD2 NA	<input checked="" type="checkbox"/> Sherpa-SD3	<input checked="" type="checkbox"/> Sherpa-RW	<input checked="" type="checkbox"/> Sherpa- SD	<input checked="" type="checkbox"/> Sherpa-LG
<input checked="" type="checkbox"/> Sherpa-W	<input checked="" type="checkbox"/> Sherpa-RD2	<input checked="" type="checkbox"/> Sherpa-SD2 EU	<input checked="" type="checkbox"/> Sherpa-SD4	<input type="checkbox"/> Other:		

COMPONENT SYSTEM			
<input type="checkbox"/> Electrical	<input checked="" type="checkbox"/> Mechanical	<input type="checkbox"/> Tower Interface	<input type="checkbox"/> Accessories

SUB COMPONENT
Overspeed Safety Device - Flywheel Assembly

PURPOSE

We have received two reports of Overspeed Safety Device units failing to trip while performing the Annual Overspeed Test as referenced in the Yearly Inspection Report for Service Lift.

Pictures provided from one unit indicate that the flywheel counterweight pins had fallen out or sheared off (see Fig A). If a pin falls out or shears off, the counterweight may get caught on surrounding structure, see Fig B (ex: test push button or mounting bolts). This results in a condition where the flywheel will not trip the overspeed safety trip trigger. In the unlikely event of a loss of traction of the suspension rope in the traction sheave, or a drive train failure leading to a freewheeling traction sheave, the Overspeed Safety Device Cam will not engage and stop motion of the Service Lift.

Spring Pin

Retention Pin

Retention Pin Missing

FIG A

Safety Trip Trigger

Test Push Button

Mounting Bolt

FIG B

The pin non-conformance may not be detected during Daily Inspection Procedure testing. Additional steps are required to ensure detection of a missing or a sheared pin.

ACTION REQUIRED

THE INSPECTION OF THE FLYWHEEL MUST BE PERFORMED ONCE EVERY DAY WHEN SERVICE LIFT IS IN USE UNTIL UPDATE HAS BEEN APPLIED:

1. Prior to performing Daily Inspection Procedure checks, with Service Lift power off, remove Hoist Mainframe Cover (Fig C1) using a 4mm T-Handle. Locate the Flywheel Assembly (See Fig C2). **Manually rotate each flywheel counterweight (4 Total) on Flywheel Assembly** of the Overspeed Safety Device to ensure that their rotation past the outer diameter of the flywheel is limited as shown in Fig D1 & D2 below. If it can move too far and get caught on obstacles other than the trigger for the stop as shown in Fig E, the Flywheel does not pass inspection.



FIG C1



FIG C2

Flywheel Assembly



FIG D1 - Pass

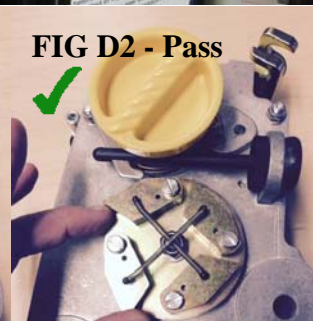


FIG D2 - Pass



FIG E - Fail

2. If Flywheel Assembly passes inspection, the Service Lift may be used as long as all other functions of the Daily Inspection Procedure have been completed. If Flywheel Assembly does not pass inspection, Service Lift must be removed from service until update has been applied.
3. Until update below has been installed, repeat steps 1-2 above prior to each daily use.

AT NEXT SCHEDULED TURBINE MAINTENANCE but NO LATER THAN SIXTY (60) DAYS FROM DATE OF THIS BULLETIN:

1. Flywheel Weight Retention Plate Kit (p/n 720174-1) must be installed.
2. Completed installation of the Flywheel Weight Retention Plate must be tested per the Field Service Instruction (703733) by a Power Climber Wind Level 2 Certified Technician, or someone who holds a valid certification of a Power Climber Wind Maintenance Training Course.

TO PERFORM SERVICE:

1. Contact Power Climber Wind Customer Service for parts that will be provided under warranty, see attached instructions.

ACCOMPANYING DOCUMENTS

703733 - Field Service Instruction - Flywheel Update

