

Service Letter #: SL15 66-12200

Release Date: October 5, 2016

Part/Assembly #: Water rudder retract pulley, 66-15201 LSP Insulator, 66-12220-7.5 retract cable

Float Model Affected: Model 6650 Float Serial Numbers 142-143 and previous.

Approval: This letter represents previously FAA Approved Data

Affected: A-10038 IPC; Drawing 12200

Symptom: Corrosion experienced by customers in marine environments.

Corrective Action Recommended for all Customers in a

Marine Environment: Establish connection to existing zinc anode on water rudder blade.

Instructions for Removal and Replacement:

1. Remove existing water rudder retract cable **Part No. 66-12220-7.5**
 - (a) Disassemble bolt assembly at the wye intersection below the aircraft belly.
 - (b) At the pedestal retract handle, cut the cable somewhere above the floor of the aircraft, allowing it to pass through and out of the aircraft.
 - (c) Remove cable from retract handle. Keep the fastener hardware for re-use. (Note: self-locking nut may be replaced at the discretion of the mechanic.)
 - (d) Discard the cable pieces. These will not be reused.
2. At the wye, below the aircraft, re-assemble the cables using the new assembly in place of the old. (The new assembly has no insulator in line. This will establish an electrical connection to the water rudder.) Apply anti-seize during bolt assembly at the wye, and also apply EZ-turn to it when completed.
3. Feed the loose end of the cable through the pulleys, then to the water rudder retract handle.
4. Slide on the shrink tubing (insulation sleeve) **M23053/5-106** prior to looping the cable around the cable eye and out of the way temporarily. (Will finish installing this in step 12.)

5. Install the cable eye (or thimble) **Part No. AN100C4** to the retract arm. (It will hang loosely around the bolt and bushing.)
6. Install the nicopress bushing loosely on the cable.
7. With the water rudder retract arm in the “down” position (fwd), loop the cable around the retract cable eye, assuring that the nicopress **Part No. MS51844-23** fitting is behind the eye. Feed the cable back through the nicopress fitting and push it snugly against the eye.
8. Temporarily secure the cable position using a u-bolt style clamp (provided). (DO NOT crimp the nicopress until the rudder position adjustment is verified.)
 - (a) Verify the water rudder position



- (b) Water rudder retract cable must be adjusted in such a manner that the rudder reaches the fully deployed position, against the stops.
 - (c) Additionally, there should be very little, if any slack in the cable when in the deployed position.
 - (d) Water rudder retract cable must be taught enough to pull the rudder highly enough behind the float as possible.
9. Once the position is verified, then crimp the nicopress fitting, assuring that it is firmly located against the cable eye.
10. Remove the u-bolt style clamp and trim the loose end of the cable closely to the nicopress fitting.
11. Slide the insulation sleeve over the nicopress, particularly over the trimmed cable.
12. Carefully apply heat until it is fully compresses on the cable. (Intent is to prevent injury

from frayed cable ends.)



Parts List for Replacement Kit	
Part Number	Name
66-12220-7.5	Water Rudder Retract Cable, Common
MS51844-23	Nico Press Sleeve
AN100C4	Cable Eye (or THIMBLE, WIRE CABLE)
NA	U-Bolt Clamp (Remove at completion of installation.)
M23053/5-106	Shrink Tubing 1 ½ inches

Old installation showing the 66-15201 insulator, which is to be removed and the entire cable replaced:



