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ALERT SERVICE BULLETIN
ASB No. AA-04036

- SUBJECT:** **Lightweight Emergency Floatation Kit**
P/N 604.9501, Handle/Cable Rigging
- MODELS AFFECTED:** Bell Helicopter Textron 407 with the subject
Lightweight Emergency Floatation Kit installed.
- COMPLIANCE:** This bulletin shall be complied with immediately
upon receipt.
- DESCRIPTION:** This Alert Service Bulletin is being issued in
response to an incident of a lack of float
deployment due to improper rigging of the manual
release handle/cable in a similar Apical Industries,
Inc. P/N 614.3001 Emergency Floatation Kit. This
bulletin provides the procedures required to
ensure proper rigging of the manual release
handle/cable.
- MANPOWER:** Approximately 2.0 hours.

IF OWNERSHIP OF AIRCRAFT HAS CHANGED, PLEASE FORWARD THIS BULLETIN TO NEW OWNER

MATERIAL:

No extra materials are required.

REQUIRED TOOLS:

No Special Tools required

WEIGHT AND BALANCE:

Not affected

PUBLICATIONS AFFECTED:

Instructions for Continued Airworthiness Report Number ICA407-11

ACCOMPLISHMENT INSTRUCTIONS:**SECTION I: CABLE SHROUD RIGGING**

1. Place safety pins into the float reservoirs.
2. Place Safety Pin (16) into Handle (8) as shown in Figure 1.
3. Remove and retain the Cotter Pin (12) from the Clevis Pin (11) as shown in Figure 3. Remove and retain the Clevis Pin from the Pull Cable Loop (10).
4. Thread the Clevis (13) and Jam Nut (14) onto the Pull Cable Rod (17) until the end of the Pull Cable Rod's threads bottom out (Ref. Figures 3 & 4).
5. Thread the Rod Tube (3) and Jam Nut (6) onto the Cable Rod (7) until the end of the Cable Rod's threads bottom out. (Ref. SECTION II, HANDLE/CABLE RIGGING READJUSTMENT and Figure 1).
6. Ensure the handle clamp is positioned 3.0" from the end of the cyclic tube and rotate the Handle (8) to the right approximately 20° (Ref. Figures 1 & 2).
7. Ensure the Pull Cable Rod (17) with Clevis (13) is fully extended by lightly pulling on the Clevis (Ref. Figure 3).
8. Adjust the threaded Pull Cable Housing (21) and Jam Nut (20) such that there is very little play with the cable inside the Cable Shroud. Ensure that there is between 1/16" to 3/32" gap between the thru holes on the Clevis fork (13) and the end of the Pull Cable Loop (10).

NOTE

This is the flexible pull cable in the valve that has a formed loop at the end that attaches to the Clevis fork (13) with a Clevis Pin (11) and Cotter Pin (12). (Ref. Figure 3)

9. There should be a minimum of three threads on the Pull Cable Housing (21) protruding past the Jam Nut (20). If not, please contact Aeronautical Accessories, Inc.
10. Place a mark with removable ink at the intersection of the Pull Cable Rod (17) and the Pull Cable Housing (21). (Ref. Figure 3)

NOTE

At this point the Pull Cable Loop (10) should **NOT** be attached to the Pull Cable Clevis (13). (Ref. Figure 3)

11. Remove the Safety Pin (16) on the Handle **ONLY**.
12. Pull the Handle (8) to its full extension, ensuring that no part of the handle is impeded by the cyclic grip or any other component. If the handle does not reach its full extension freely, rotate the handle further to the right until it clears all obstacles. (Ref. Figures 1 and 2)
13. With the Handle pulled to its full extension, place a mark with removable ink at the intersection of the Pull Cable Rod (17) and the Pull Cable Housing (21). (Ref. Figure 3).
14. Close the Handle and put the Safety Pin back in.
15. Measure the distance between the marks made in Steps 10 and 13. There should be a minimum of 5/8" distance between the marks (Ref. Figure 3). If the distance is less than 5/8", there still may be too much play in the cable or the handle may be impeded in its current location. Repeat steps 3 thru 14 until a minimum of 5/8" between the marks is seen.
16. Reinstall the previously removed Clevis Pin (11) and Cotter Pin (12). (Ref. Figure 3).
17. Ensure there is no tension on the Pull Cable Loop (10). (Ref. Figure 3)

NOTE

With the float reservoirs still safety pinned, rotate the cyclic stick full forward and full back. This should be done with two people, one person watching the Clevis (13) to see if it pulls any tension on the Pull Cable (10). (Ref. Figure 3)

SECTION II: HANDLE/CABLE RIGGING READJUSTMENT

1. Remove and retain the Jam Nut (6) from the Pull Cable Rod (7). (Ref. Figure 1).
2. Remove and retain the Cotter Pin (5) and Pivot Pin (4). Remove the Handle (8) by rotating the Rod Tube (3) to a vertical position. Rotate the Rod Tube (3) clockwise, reposition the Handle and insert Pivot Pin. Once the Handle is repositioned, lightly push the Pull Cable in until it stops.

NOTE

The Pull Cable Rod (7) should be screwed in as to bottom out onto the Rod Tube (3).

3. Remove and retain the Cotter Pin (12) from the Clevis Pin (11) as shown in Figure 3. Remove the Clevis Pin from the Pull Cable Loop (10).
4. Ensure the Pull Cable Rod (17) with Clevis (13) is fully extended by lightly pulling on the Clevis (Ref. Figure 3).
5. Clean off the ink marks made in steps 10 and 13 of SECTION I: CABLE SHROUD RIGGING.
6. Repeat steps 7 through 15 of the SECTION I: CABLE SHROUD RIGGING.
7. If adjustments are necessary, refer to step 8 of SECTION I: CABLE SHROUD RIGGING.

NOTE

This is the preferred method. An alternate method is to readjust the Clevis fork (13) by unscrewing the Jam Nut (14) and turning the Clevis (13).

8. Reinstall Clevis Pin (11) and Cotter Pin (12). (Ref. Figure 1)

NOTE

With the float reservoir still safety pinned, rotate the cyclic stick full forward and full back. This should be done with two people, one person watching the Clevis (13) to see if it pulls any tension on the Pull Cable (10). (Ref. Figure 3)

9. Readjustment complete.

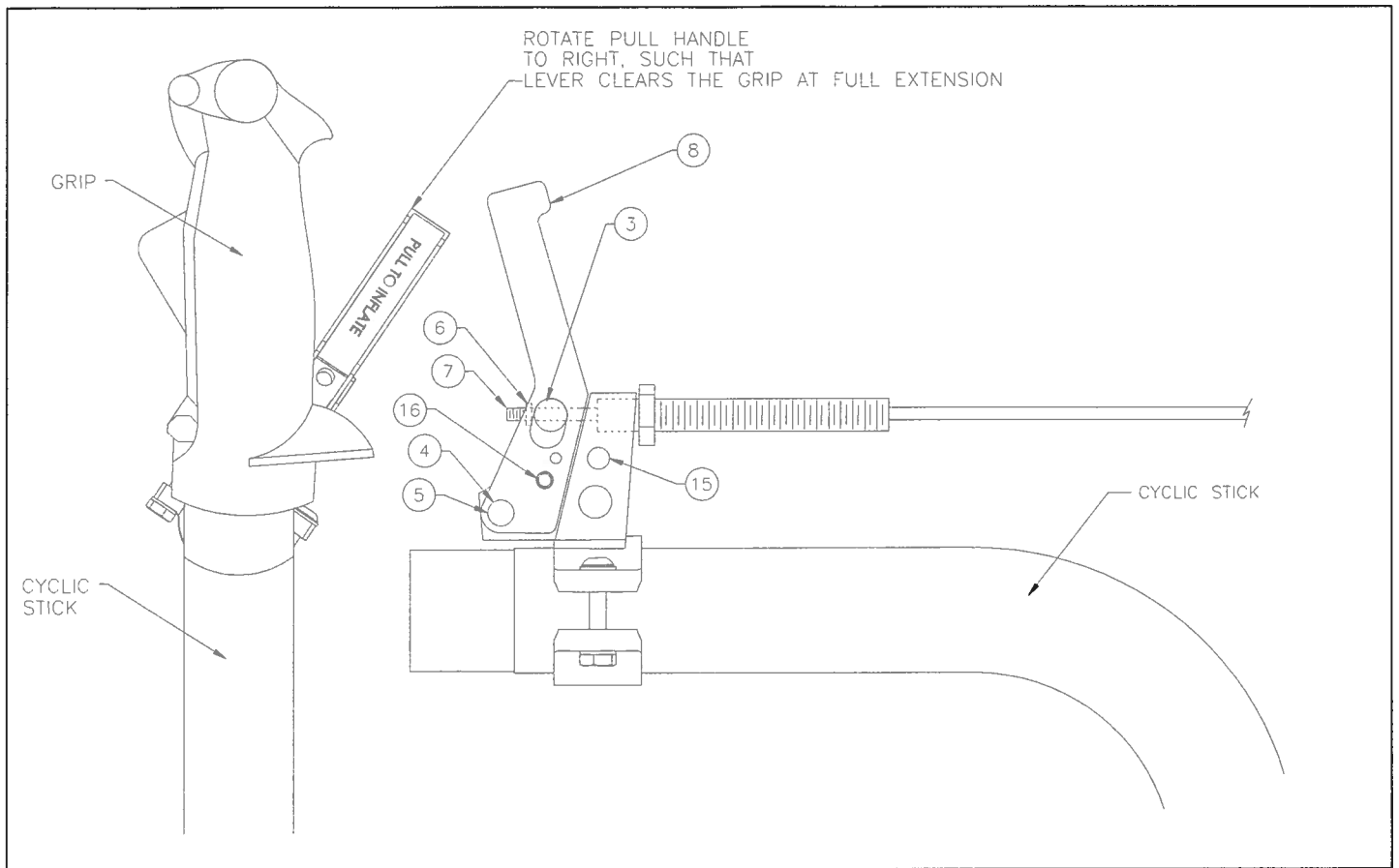


Figure 1
Pull Handle Rigging

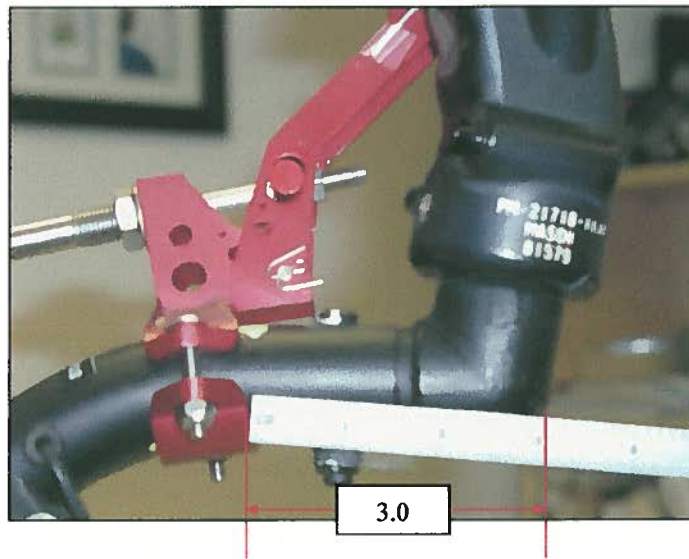


Figure 2
Handle Orientation

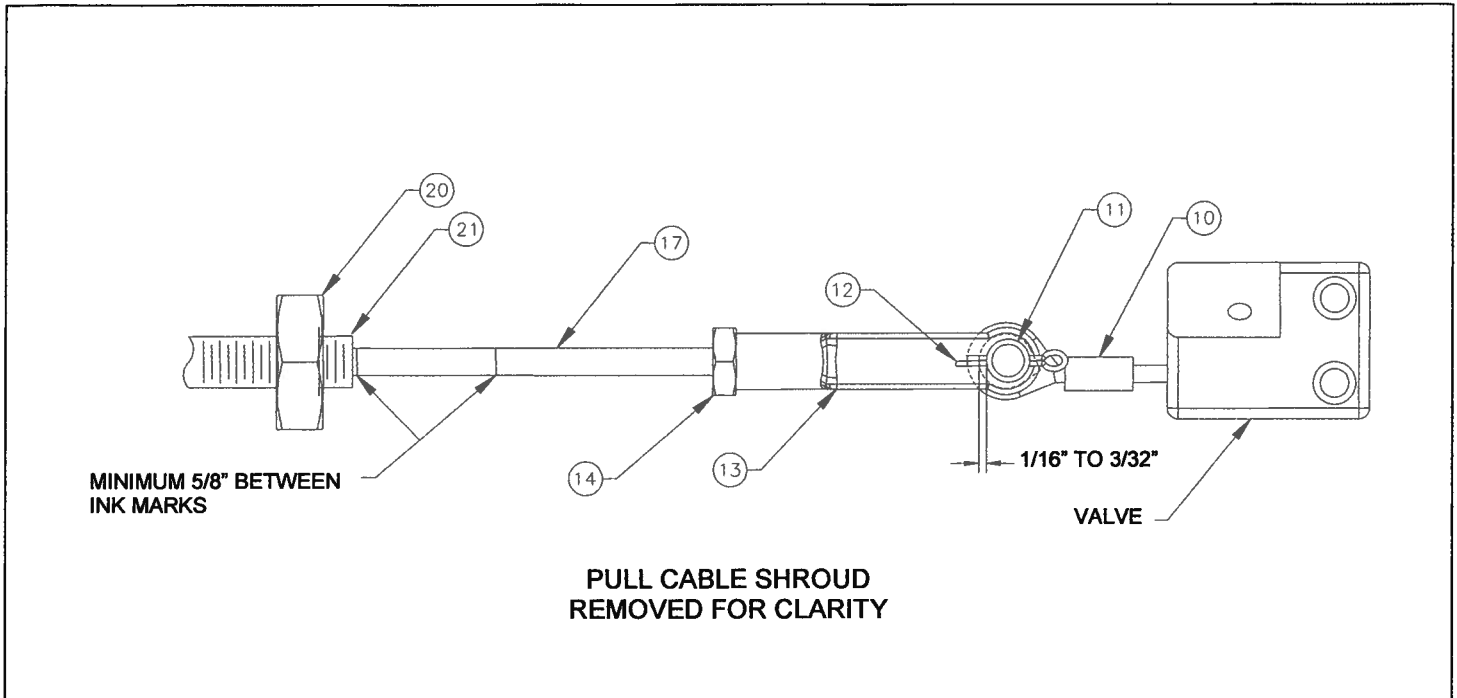


Figure 3
Cable Shroud Rigging



Figure 4
Cable Shroud Rigging

Any questions regarding this bulletin should be addressed to:

AERONAUTICAL ACCESSORIES, INC.
PRODUCT SUPPORT
1-800-251-7094