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MANDATORY

BULLETIN

PACSB / XL / 111
ISSUE 1

ADJUSTMENT OF FUEL CONDITION LEVER

1. PLANNING INFORMATION

A. EFFECTIVITY

MODEL	S/N
750XL (NZ)	101 thru 216, 220
750XL (CN)	8001, 8002

B. REASON

This Service Bulletin provides instructions to adjust the position of the Fuel Condition Lever relative to the control guide. The adjustment will improve inadvertent movement of the power lever into the cut-off position if ground idle is selected.

C. DESCRIPTION

This Service Bulletin provides procedures to check, and if necessary, adjust the position of the Fuel Condition Lever to ensure it rests against the left hand side of the Control Guide slot when Ground Idle is selected (refer to Figure 2).

D. COMPLIANCE

During next maintenance inspection.

E. TOOLING

Power Control Lever Tool (only if using Method A).

F. WEIGHT AND BALANCE

N/A.

G. REFERENCE

750XL IPM, Chapter 76 - Engine Controls

H. HOURS REQUIRED

2 hours.

I. WARRANTY COVER

Normal Warranty conditions apply.

2. ACCOMPLISHMENT INSTRUCTIONS

(Refer to 750XL IPM, Chapter 76 - Engine Controls, Pages 4 thru 9 to identify parts named in this document)

1) Check the position of the Fuel Condition Lever at the Ground Idle position (refer to Figure 1 for “Possible Existing Position” and refer to Figure 2 for “Preferred Position”.

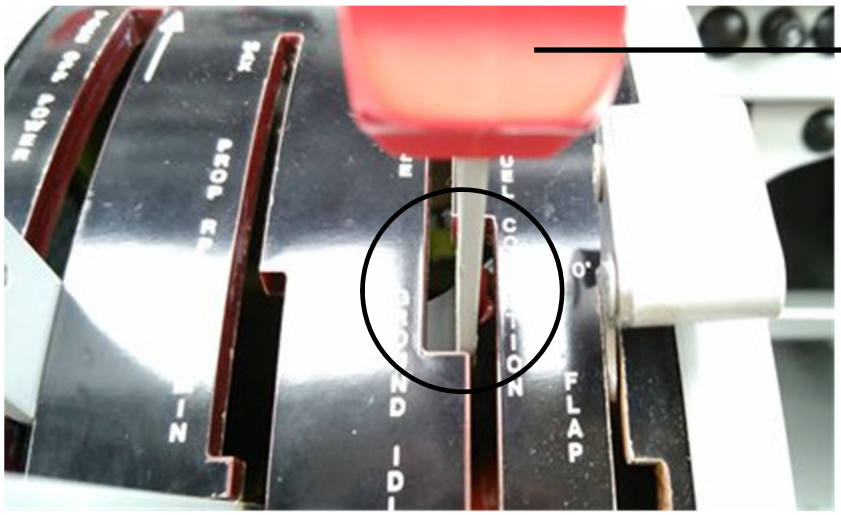

Figure 1 Possible Existing Position

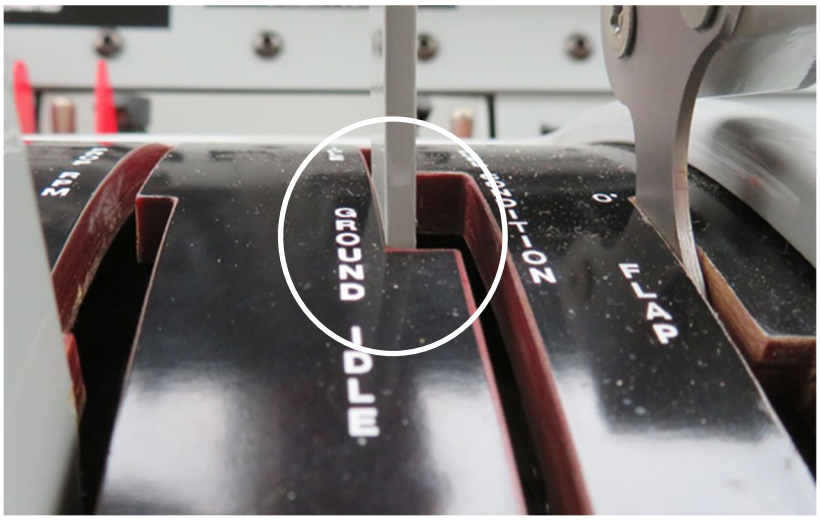

Figure 2 Preferred Position

2) If the Fuel Condition Lever is positioned as shown in Figure 2 and the lever is positioned to rest against the left of the Control Guide slot in the ground idle position, no further action is required. Proceed to **Section 3 - Certification**.

3) If the Fuel Condition Lever is not positioned against the left of the Control Guide slot in the ground idle position (as shown in Figure 2), proceed as follows:

   a) Remove the upper console cover from around the control quadrant.

   b) Remove knobs from power, prop, fuel condition and flap levers.

   c) Remove the six screws holding the Control Guide in place.

CAUTION: **DO NOT SEPARATE THE GUIDE BLOCK AND THE GATE LEVER FROM THE POWER CONTROL LEVER WITHOUT HAVING A COMPLETE UNDERSTANDING OF THE FOLLOWING INSTRUCTIONS.**

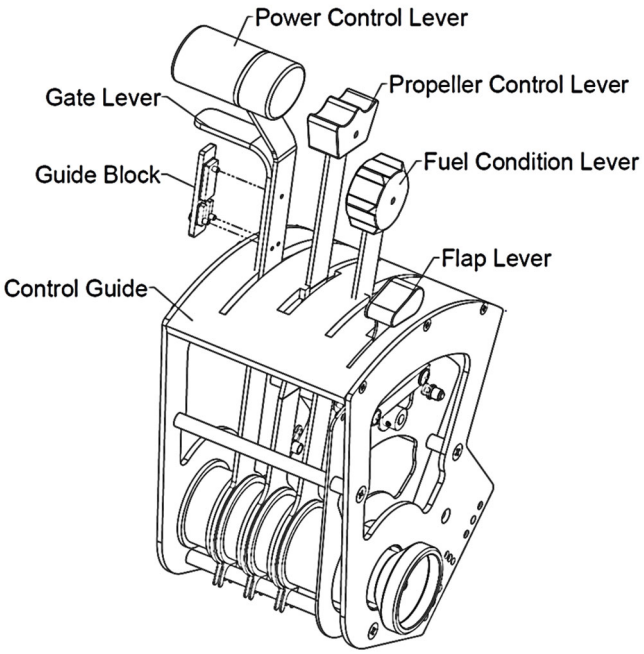

Figure 3

d) To remove the guide block and gate lever from the power control lever, use one of the two methods (A or B) below described:

METHOD A (Figures 4 and 5)

NOTE: The Power Control Lever Tool (refer to Figure 4) is used to retain the tension spring in position within the gate lever and the guide block with the disassembly of the guide block and the gate lever from the Power Control Lever.

A Drawing of the Power Control Lever Tool can be requested from Pacific Aerospace Limited or a similar tool which attends same purpose may be locally fabricated.

i. Apply adhesive tape around the guide block and the gate lever to hold these two parts together (refer to Step i of Figure 4).

ii. Remove one of the lower attach screws of the guide block and partially position tool between the gate lever and the power control lever to retain the tension spring in position (refer to Steps ii and iii of Figure 4).

iii. Remove the remaining lower attach screw of the guide block and slide tool in position as indicated in Step iv of Figure 4.

iv. Remove the upper attach screw of the guide block and separate the guide block and the gate lever from the power control lever (refer to Step iv of Figure 4).

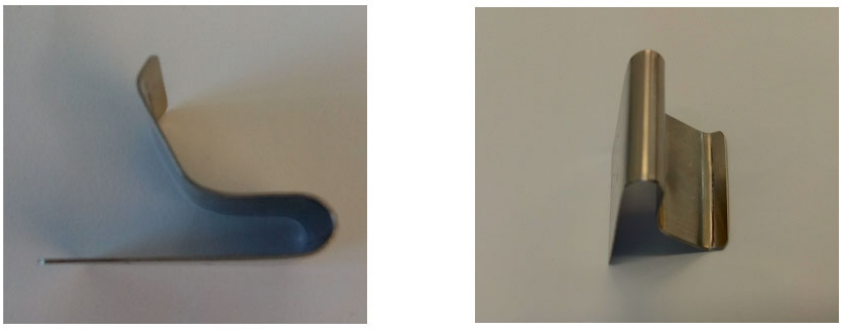

Figure 4 Power Control Lever Tool P/N XL2078

Figure 5

<u>METHOD A:</u> Retaining the position of the tension spring and the guide block position in relation to the gate lever <u>using tool.</u>

METHOD B (Figures 6)

i. Remove one of the two lower screws on the gate lever.

ii. Insert a suitable retaining pin (or retaining clip, lockwire – max. Ø0.060 in.) into the pin hole at the base of the gate lever.

iii. Remove the two remaining screws.

iv. Taking care not to dislodge the retaining pin, remove the guide block and the gate lever from the power control lever.

Figure 6

METHOD B: Retaining the position of the tension spring and the guide block position in relation to the gate lever using a suitable retaining pin

e) Remove the control guide from the control quadrant.

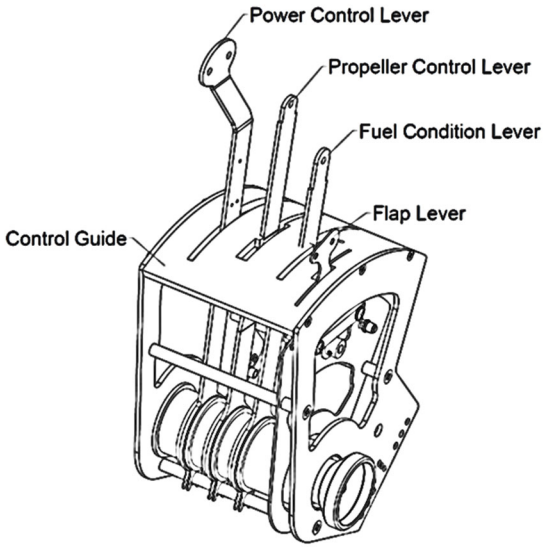

Figure 7

f) Apply light force to the top end of the Fuel Condition Lever and bend the lever to the left.

g) To determine if the Fuel Condition Lever is in the correct position temporarily place the control guide back into position and check to see if the fuel condition lever is resting against the left edge of the control guide in the ground idle position (refer to Figure 2).

NOTE: The Fuel Condition Lever must only be bent sufficiently to touch the left edge of the control guide. There should not be significant pressure between the fuel condition lever and the left hand edge of the control guide.

h) If necessary, repeat steps e), f), & g) until the Fuel Condition Lever is positioned to rest against the left side of the Control Guide slot in the Ground Idle position.

i) Reassemble the guide block and gate lever to the power control lever as follows:

i. Position the control guide on the control quadrant.

ii. Position the guide block and the gate lever against the power control lever and install the upper attach screw of the guide block.

iii. Partially remove tool and install one of the lower attach screws of the guide block.

iv. Completely remove tool and install the remaining lower attach screw (use Loctite 242 on all three screws).

v. Remove the adhesive tape from the gate lever.

j) Check the Power Control Lever for full and free movement.

k) Refit Control Guide using the six previously removed screws.

l) Refit knobs to power, prop, fuel condition and flap levers (use Loctite 242).

m) Refit upper console cover.

n) Check all levers for full and free movement.

CAUTION: DO NOT MOVE POWER CONTROL LEVER INTO BETA OR REVERSE RANGE WITH THE ENGINE NOT RUNNING, OTHERWISE DAMAGE MAY OCCUR TO THE CONTROL LINKAGES.

3. CERTIFICATION

Record compliance with this Service Bulletin in the Aircraft Log Book.

4. MATERIAL REQUIRED

Description	Part Number	Qty Required
POWER CONTROL LEVER TOOL *(ONLY IF USING METHOD "A")*	-	1
LOCTITE THREADLOCKER	242	A/R

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