

Chapter 76

ENGINE CONTROLS

FBA-2C1, FBA-2C2, FBA-2C3
FBA-2C4, FBA-2C3T, FBA-2C4T

Found Aircraft Canada
Maintenance Program FAC2-M200

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FBA-2C1, FBA-2C2, FBA-2C3
FBA-2C4, FBA-2C3T, FBA-2C4T

Found Aircraft Canada
Maintenance Program FAC2-M200

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FBA-2C1, FBA-2C2, FBA-2C3
FBA-2C4, FBA-2C3T, FBA-2C4T

Found Aircraft Canada
Maintenance Program FAC2-M200

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76 ENGINE CONTROLS

76-02 MIXTURE CONTROL

Mixture control is achieved through means of a push/pull cable located in the cockpit, just above the control column. Idle cut-off (fuel off) is achieved when the knob is pulled all the way out. To increase (rich) the mixture, push the knob in.

Mixture Cable Removal

- Step 1. Disconnect battery and electrical power from the aircraft.
- Step 2. Gain access to the engine through engine access panels CP2 and CS2 (2C1 & 2C2) or Remove L/H cowl (2C3 & 2C4), see 71-10.
- Step 3. Disconnect the mixture cable from the mixture arm on the left hand side of the throttle body.
- Step 4. Loosen off the 'scissors' clamp near the forward end of the cable where it attaches to the bracket at the aft of the oil sump.
- Step 5. Remove the mixture cable firewall seal from the forward face of the firewall.
- Step 6. Reach behind the engine control panel, and loosen the lock nut and washer which attach the cable to the panel.
- Step 7. Pull the cable aft into the cabin area, taking care that the forward end of the cable clears all lines, wires, hoses and structure while being drawn through the engine compartment and behind the dash.

Mixture Cable Installation

- Step 1. Place the forward end of the mixture cable into the opening on the engine control panel and slide the cable forward, taking care that the forward end of the cable clears all lines, wires, hoses and structure while being pushed through the dash area and the engine compartment.
- Step 2. Install the firewall seal on the firewall. See Chapter 20-30-02 for sealant requirement.
- Step 3. Attach the forward end of the cable to the mixture arm on the left hand side of the throttle body and safety.
- Step 4. Tighten the 'scissors' clamp near the forward end of the cable where it attaches to the bracket at the aft of the oil sump.
- Step 5. Reach behind the engine control panel and tighten up the nut which holds the mixture cable to the engine control panel.
- Step 6. Function check operation of the throttle cable to ensure correct rigging, freedom of movement and operation of the fuel injector as prescribed by Lycoming.
- Step 7. Reconnect battery and electrical power

76-03 THROTTLE CONTROL

Throttle control is achieved through means of a push/pull cable located in the cockpit, just above the control column. Engine idle is when the knob is pulled all the way out. To increase engine speed push the knob in.

Throttle Cable Removal

- Step 1. Disconnect battery and electrical power from the aircraft.
- Step 2. Gain access to the engine through engine access panels CP2 and CS2 (2C1 & 2C2) or remove R/H cowl (2C3 & 2C4), see 71-10.
- Step 3. Disconnect the throttle cable from the throttle arm on the right hand side of the throttle body.
- Step 4. Loosen off the 'scissors' clamp near the forward end of the cable where it attaches to the bracket at the aft of the oil sump.
- Step 5. Remove the throttle cable firewall seal from the forward face of the firewall.
- Step 6. Reach behind the engine control panel, and loosen the lock nut and washer which attach the cable to the panel.
- Step 7. Pull the cable aft into the cabin area, taking care that the forward end of the cable clears all lines, wires, hoses and structure while being drawn through the engine compartment and behind the dash.

Throttle Cable Installation

- Step 1. Place the forward end of the throttle cable into the opening on the engine control panel and slide the cable forward, taking care that the forward end of the cable clears all lines, wires, hoses and structure while being pushed through the dash area and the engine compartment.
- Step 2. Install the firewall seal on the firewall. See Chapter 20-30-02 for sealant requirement.
- Step 3. Attach the forward end of the cable to the throttle arm on the right hand side of the throttle body and safety.
- Step 4. Tighten the 'scissors' clamp near the forward end of the cable where it attaches to the bracket at the aft of the oil sump.
- Step 5. Reach behind the engine control panel and tighten up the nut which holds the throttle cable to the engine control panel.
- Step 6. Function check operation check of throttle cable to ensure correct rigging, freedom of movement and operation of the fuel injector as prescribed by Lycoming.
- Step 7. Reconnect battery and electrical power

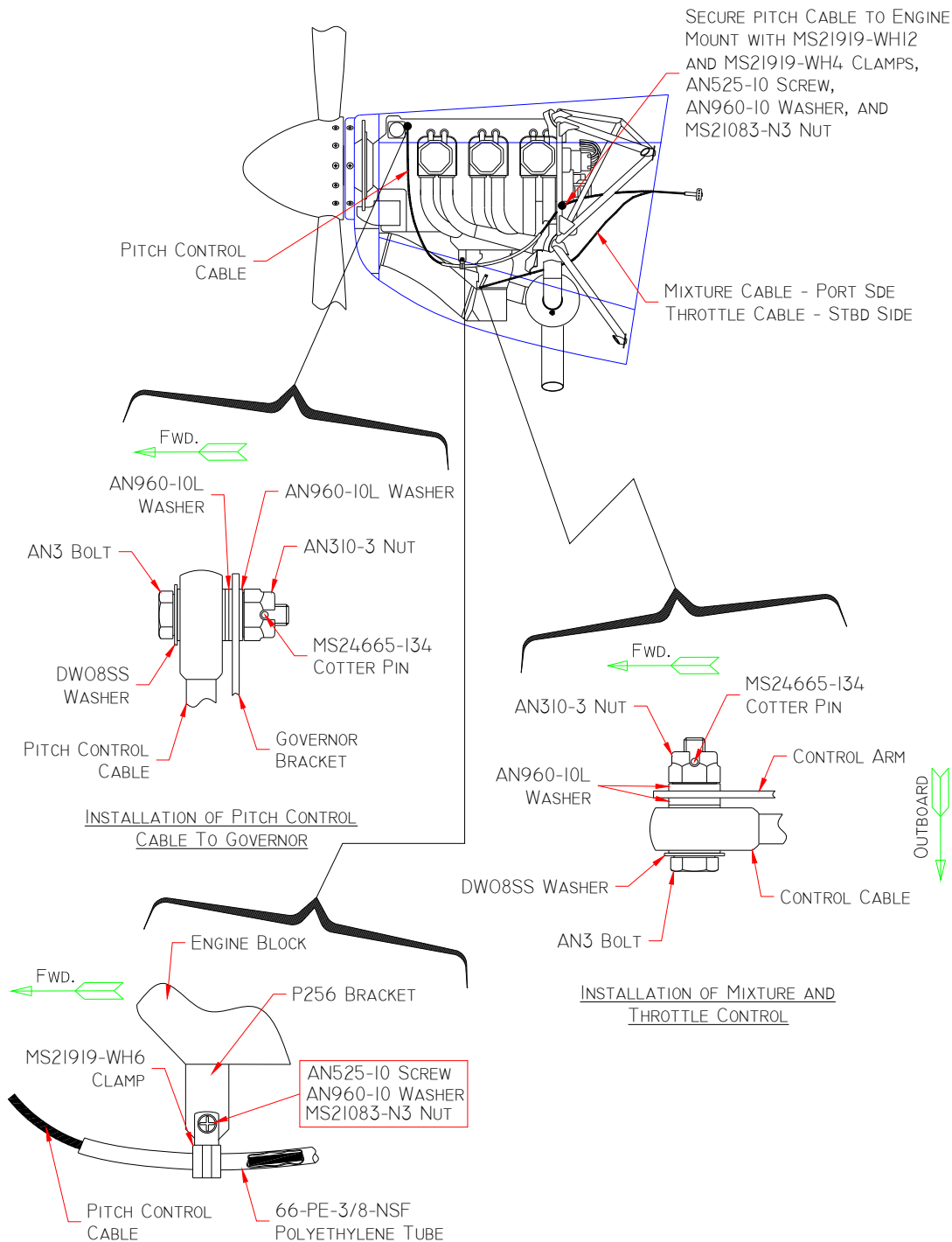


Figure 76-00-01 Engine Controls Installation (2C1 & 2C2)

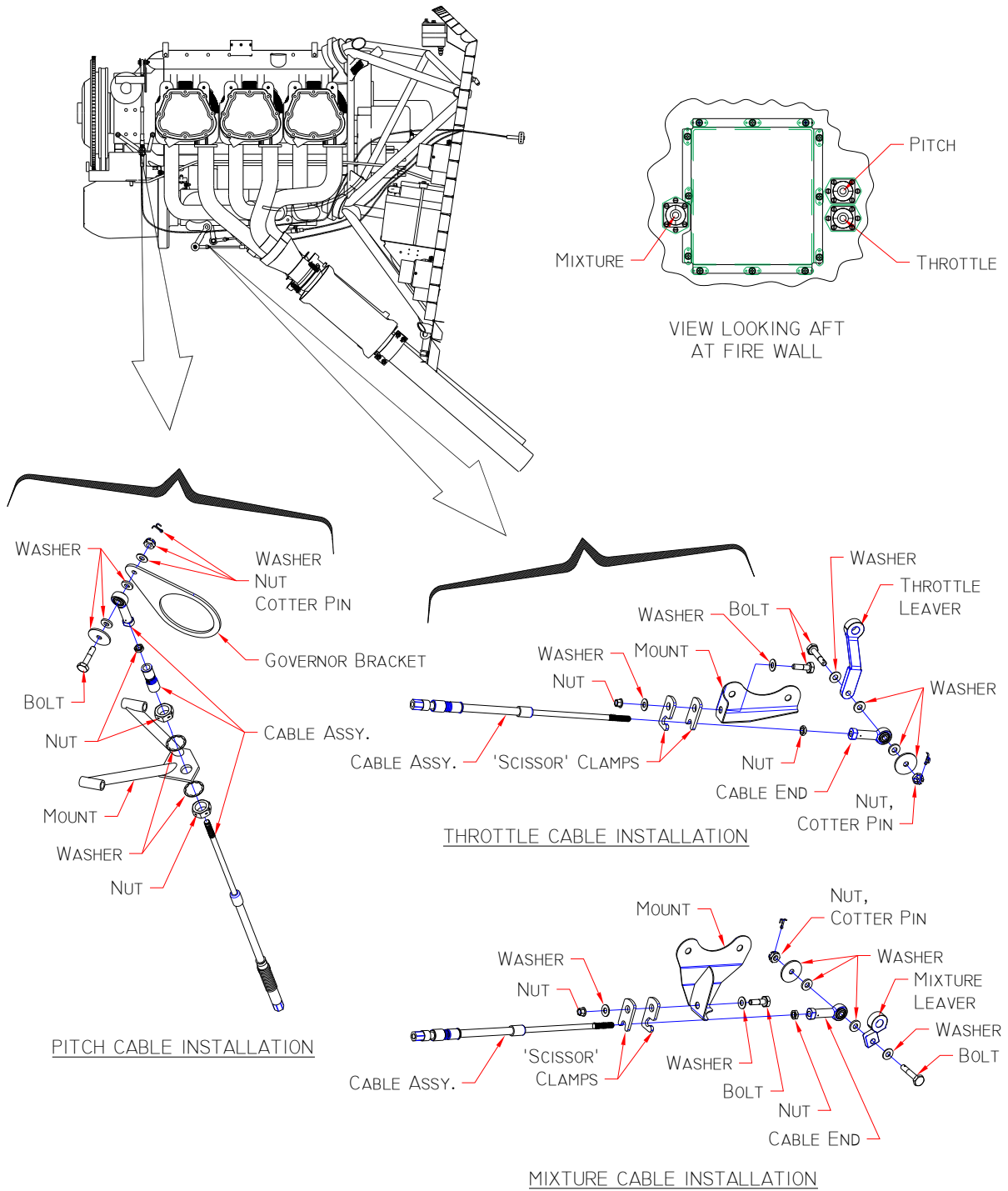


Figure 76-00-02 Engine Controls Installation (2C3 & 2C4)

FBA-2C1, FBA-2C2, FBA-2C3
FBA-2C4, FBA-2C3T, FBA-2C4T

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