

New York Airways Collection - Manuals, Flight Operations Manual (2 of 2), 1959

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NEW YORK AIRWAYS

6.3.4 STARTING ENGINE Continued

12. Mixture lever -- Rich (after engine starts).

NOTE: Should the engine fail to start within 30 seconds, let the starter cool for two minutes, then repeat the starting procedure.

13. Engine oil pressure and temperature gages -- Check. (Stop engine if the oil pressure does not register within 10 seconds or reach 40 psi within 20 seconds after starting).

14. Throttle -- 1100-1200 engine rpm.

CAUTION: Care should be exercised when operating throttle as it is extremely sensitive when clutch is disengaged. Improper operation could result in excessive engine speed.

15. Manifold pressure purge button -- Press.

16. Inverter switch -- Check spare and off positions, then switch to main.

17. Fuel quantity test switch -- On as required for test.

18. Carburetor heat lever -- Hot, then cold. Check for rise in carburetor air temperature when in hot position.

6.3.5 AFTER ENGINE STARTS -- Warm-Up

1. Throttle -- 1700 engine rpm. (This speed will provide smoothest operation of engine while lubricating oil is cold).

Ignition Switch Check

After engine warm-up and prior to engaging rotors check the ignition switch for proper connection of ground wire.

1. Ignition switch -- Both...

- 2. Throttle -- Closed (index marks opposite one another).
- 3. Ignition switch -- Off == momentarily. (Observe that engine stops firing).
- 4. Ignition switch -- Both.

CAUTION: Make this check as quickly as possible to prevent engine backfire. If violent backfiring occurs during ground run of engine, a shutdown must be made to inspect the engine, induction, and accessory system for damage.

Fuel Pump Check -- Engine and Booster

- 1. Fuel booster pump switch -- Off.
- 2. Fuel pressure gage -- observe fuel pressure reading within limits and warning light.
- 3. Fuel booster pump switch -- On.

6.3.6] ENGAGING ROTORS

CAUTION: Rotor engagement must not be attempted when the clutch warning light is on. Under this condition, the clutch will travel immediately into the jaw position instead of starting friction engagement; and damage to the rotor system from premature jaw clutch engagement

WIN YORK ATRNAYS. 6.3.h STATING ENGINE - Continued 17. Sixture lever -- Nich (after engine starts). NOTE: Should the engine fall to start within 30 seconds, let the starter cool for two minutes, then repeat the starting procedure. 1]. Engine oil pressure and temperature gages -- Check. (Stop engine if the oil pressure does not register within 10 seconds or reach at pat within 30 seconds after storting). 1b. Throttle — 1100-1200 engine rys. CATTION: Core should be exercised when operating throttle as it is extremely nonsitive when clutch is disengaged. Impropey operation could result in excessive engine speed. 15. Manifold pressure purpe batton -- Press. 16. Inverter switch -- Check spare and off positions, then switch to main. Pael quantity test switch -- On as required for test. Garburetor heet lower -- Not, then cold. Check for rise in carburetor air temperature when in hot position. 5.3.5 APTER REGINE PLANTS -- Name - No. Throttle -- 1700 engine rps. (This speed will provide amorbiset operation of engine while intricating oil is cold). Ignition Switch Check After engine warm-up and prior to engaging reters obeck the ignition switch for proper connection of ground wire. 1. Ignition switch -- Both. 2. Throttle -- Closed (Index marks opposite one smother). 3. Ignition switch -- Dff -- momentarily, (Observe that engine steps h. Ignithm switch - Both, CANTION: Make this check so quickly as possible to prevent engine backfire. If wicket backfiring course during ground was of engine, a strature must be made to impose the engine, induction, and accessory system for demage. Fuel Purp Check -- Engine and Docuster 1. Fuel booster pump switch -- Off. 2. Pull pressure gage -- Cheerve fuel pressure reading within limits and warming hight. 3. Fuel booster purp switch - On. 6,3,6 ENGAGING NOTORS CAUTION: Botom engagement must not be attempted when the clutch warning light in on. Under this condition, the clutch will travel Immediately into the jew position instead of starting friction engagement; and damage to the rotor system from presetting jew clutch engagement will result. Revised Tesne J.E.G. 1.C.C. Date: 1 April 1959

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Revised Issue J.E.G. L.G.C. Date: 1 April 1959 56

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