

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

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NEW YORK AIRWAYS

6.3.6 ENGAGING ROTORS - Continued

- 1. Throttle -- 1000 rpm. Set friction.
- 2. Collective pitch -- Down and locked
- 3. Cyclic stick and directional pedals -- Neutral.
- 4. Friction clutch switch -- Engage.

CAUTION: Needles must be synchronized before engaging the jaw clutch.

5. Jaw clutch switch -- Jaw (until light goes off)

NOTE: There is no time restriction on running the engine with the rotors disengaged; however, the engine should be running smoothly and engine oil temperature should read 40° C prior to engagement.

- 7. Transmission oil pressure gages -- Check. (If no pressure, shutdown and determine causes).
- 8. Hydraulic boost valve lever -- Boost on. (Check pressure at 1000 psi. Operate the hydraulic flight controls for proper response).
- 9. Auxiliary power unit -- Disconnected.
- 10. Master and battery switches -- On.
- 11. Radio switches -- On.

CAUTION: Allow a minimum warm-up before depressing transmitting switch (UHF radio) to prevent damage to transmitter.

12. Voltmeter -- Check (28.5 volts above 2000 engine rpm).

NOTE: Generator warning light will not go off until 1250 engine rpm, at which time the reverse current relay cuts in.

- 13. Generator switch -- Off.
- 14. Battery switch -- Emerg. Functionality check proper operation of emergency electrical equipment. A check of fuel quantity gage will indicate system is operating properly.
- 15. Generator switch -- On.
- 16. Battery switch -- Return to on.
- 17. Carburetor air temperature gage -- Check with limits.
- 18. Ignition system -- Check magnetos -- 25 inches Hg at 2300 engine rpm.
- a. Ignition switch -- "L". Observe rpm drop.
- b. Ignition switch -- BOTH Stabilize rpm.
 c. Ignition switch -- "R" Observe rpm drop
- d. Ignition switch -- BOTH A drop of 50 to 75 rpm is normal while a maximum drop of 100 rpm is permissible on one magnet o providing there is no engine roughness.
- 19. Transmission oil temperature gages -- Check within limits.
- 20. Transmission oil pressure gages -- Check within limits.
- 21. Overrunning clutch check:
- a. Throttle -- 2500 engine rpm.
- b. Collective pitch lever -- Down.
- c. Throttle retard; sufficiently to desynchronize (split) the tachometer needles.

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STREET ATTRACTS
6.3.6 BURNING ROTORS - Continued
         1. Throttle -- 1000 rps. Set friction.
          2. Collective pitch -- Down and locked
          3. Cyslic stick and directional pedals -- Neutral.
          b. Printles clutch switch -- Engage.
         CATTION: Weedles must be synchronized before engaging the less clutch.
          5. Jew aluxeh switch -- Jew (until warming light goes off)
         NOTE: There is no time restriction on running the engine with the
                  reters disengaged; however, the engine should be running smorthly and engine oil temperature should read $00.0
          7. Transmission oil pressure gages -- Check. (If no pressure, shut-
         down and determine names).

8. Nydraulio boost value lewer -- Broot on, [Check pressure at 1000 psi.
         Operate the hydraulic flight controls for proper response).

9. Autiliary power unit -- Miscommerted.
         10. Master and tebtery settober -- Cn.
        II. Redio switches -- On.
        CAUTION A Minimum of two minutes were-up before depressing transmitting switch (UEF radio) to prevent damage to
        12. Woltmeter -- Check (25.5 wolts above 2000 engles rea).
        MOTE: Occupator Marriag light will not go off until 1250 engine you,
                   at which time the reverse current relay cuts in.
         13. Generator switch - Off.

    Sattery switch — Energy Punctionally check proper operation of
energency electrical engineers. A check of fuel quantity page will.

                indicate mystem is operating properly.
        15. Generator switch -- On.
16. Settery switch -- Setura to on.
         17. Carburetor air temperature gage -- Check with limits.
        17. Carbinator air temperature gage - these with invits.

18. Ignition system - Cheek magneter - 25 inches Mg at 2500 engine rps.

a. Ignition switch - "D". Cheerve rps drop.

b. Ignition switch - 50TH Shabilize rps.

c. Ignition switch - 45TH Cheerve rps drop

d. Ignition switch - 45TH A drop of 50 to 75 yes is normal skille
                    a maximum drop of 100 spm is permissible on one magneto providing
        there is no engine roughness.

19. Transmission oil temperature gages -- Check within limits.
         20. Transmission oil pressure gages -- Chack within limits.
        21. Overrunning clutch check:
a. Throttle -- 2500 engine spm.
               b. Collective pitch lever .. Down.
               c. Trottle - retard; sufficiently to desynctronise (split) the
 Savised Issue J.S.G.
                                                         1.G.C. Date 1 April 1999
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