

## BEFORE STARTING ENGINE

- METEO / NOTAM / DABS
- Mass & Balance
- Fuel / Oil / Caps
- Cabin / Pax / Baggage
- Seatbelts

## Departure Briefing

|                           |                                  |
|---------------------------|----------------------------------|
| • Fuel shut-off valve     | On                               |
| • Circuit breakers        | In                               |
| • Controls                | Full travel free → Frictions On  |
| • Throttle                | Full travel free/collective down |
| • Governor                | On                               |
| • Mixture / Mixture guard | Full rich / Installed            |
| • Primer                  | Down and locked                  |
| • Avionics / All switches | Off                              |
| • Clutch                  | Disengaged                       |
| • Rotor brake & Map light | Off                              |

## STARTING ENGINE

- Rotorblades: level

|                                |                             |
|--------------------------------|-----------------------------|
| • Master switch / Strobe light | On / OAT ↔ CAT              |
| • COM on / Freq. / Vol Check   | Headset On, 1 ear uncovered |
| • All controls                 | Neutral                     |
| • Area (left + right)          | Clear                       |
| • Throttle twist for priming   | Cold 10 / Warm 5            |
| • <b>Throttle</b>              | <b>Closed</b>               |
| • Ignition switch              | Start, then both            |
| • Starter-On light             | Out                         |
| • Set idle speed               | 55% / Oil pressure > 25 psi |
| • Clutch / Alternator          | On / Alt light Off          |
| • Blades turning               | Less than 5 sec             |
| • Carb heat                    | Full On                     |
| • Wait for clutch light: Out → | Verify clutch CB in         |
| • Warm up                      | 70-75% RPM                  |
| • Settings                     | COM/NAV/TX/ALT/Gyros/Flarm  |

## ENGINE RUN UP

|                               |                               |
|-------------------------------|-------------------------------|
| • T's & P's warnings/cautions | Green, No warnings/cautions   |
| • Mag drop @ 75% RPM          | Max 7% in 2 sec               |
| • Carb heat check             | CAT: drop/rise RPM: rise/drop |
| • Sprag clutch check @ 75%    | Needles split / idle ok       |
| • Doors / seatbelts           | Closed / On                   |
| • Frictions                   | Off                           |
| • Increase RPM manually       | 102-104%                      |
| • Low RPM Horn & Light        | Checked @ 97%                 |

## SHUTDOWN

|                               |                               |
|-------------------------------|-------------------------------|
| • Coll. down, cyclic / pedals | Neutral                       |
| • Reduce RPM for cooling      | 75 % (CHT drop, 3':30")       |
| • Frictions                   | On                            |
| • Landing light / NAV lights  | Off                           |
| • Throttle                    | Closed                        |
| • Clutch Switch               | Disengage, Check light On     |
| • Wait 30 sec                 | Pull idle cut-off, guard back |
| • Wait 1 min                  | Apply rotor brake if required |
| • Avionics / All switches     | 121.50 checked / Off          |

Immatriculation: \_\_\_\_\_

Empty weight: \_\_\_\_\_

Max TOM: \_\_\_\_\_

### LIMIT MANIFOLD PRESSURE - IN. HG

| MAXIMUM CONTINUOUS POWER |          |      |      |      |      |               |      |
|--------------------------|----------|------|------|------|------|---------------|------|
| PRESS                    | OAT - °C |      |      |      |      |               |      |
| ALT-FT                   | -20      | -10  | 0    | 10   | 20   | 30            | 40   |
| SL                       | 21.5     | 21.8 | 22.1 | 22.3 | 22.6 | 22.9          | 23.2 |
| 2000                     | 21.1     | 21.4 | 21.6 | 21.9 | 22.2 | 22.5          | 22.8 |
| 4000                     | 20.7     | 21.0 | 21.2 | 21.5 | 21.8 | 22.0          | 22.3 |
| 6000                     | 20.3     | 20.6 | 20.8 | 21.1 | 21.3 | 21.6          | 21.9 |
| 8000                     | 19.9     | 20.2 | 20.4 | 20.7 | 20.9 | FULL THROTTLE |      |

FOR MAX TAKEOFF POWER (5 MIN), ADD 0.9 IN. HG

### NEVER EXCEED SPEED - KIAS

| PRESS  | OAT - °C |           |    |           |    |    |    |
|--------|----------|-----------|----|-----------|----|----|----|
| ALT-FT | -20      | -10       | 0  | 10        | 20 | 30 | 40 |
| SL     | 102      |           |    |           |    |    |    |
| 2000   |          |           |    |           |    |    |    |
| 4000   |          |           |    | 98        | 94 | 91 | 87 |
| 6000   | 98       |           | 94 | 90        | 87 | 82 | 77 |
| 8000   | 94       | 90        | 86 | 80        | 75 | 69 | 64 |
| 10000  | 86       | 80        | 74 | 68        | 62 | 57 |    |
| 12000  | 74       | 67        | 61 | NO FLIGHT |    |    |    |
| 14000  | 61       | NO FLIGHT |    |           |    |    |    |

