

FLIGHT PHASES SCHEMA - CIRRUS SR22 TN G3 - N4927



| START | TAXI | RUNUP | TAKEOFF | CLIMB<br>BEST<br>RATE OF | CLIMB<br>BEST<br>ANGLE OF | CLIMB<br>IN ALTITUDE<br><18'000 FT | CLIMB<br>IN ALTITUDE<br>>18'000 FT | CLIMB<br>CRUISE<br>LEAN OF PEAK | CRUISE<br>Maximum power<br>(85%) | CRUISE<br>Normal Power<br>(75%) | CRUISE<br>Economy power<br>(65%) | DESCENT | LANDING |
|-------|------|-------|---------|--------------------------|---------------------------|------------------------------------|------------------------------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|---------|---------|
|-------|------|-------|---------|--------------------------|---------------------------|------------------------------------|------------------------------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|---------|---------|

|                   |      |   |                           |                           |           |                    |                             |  |                              |                                  |                                  |                                    |            |           |
|-------------------|------|---|---------------------------|---------------------------|-----------|--------------------|-----------------------------|--|------------------------------|----------------------------------|----------------------------------|------------------------------------|------------|-----------|
| Consumption       | USG  |   |                           | 35-36                     | 35-36     |                    |                             | 17.0 - 17.6                                | 17.6                         | 16                               | 14.0                             |                                    |            |           |
| CHT               | °F   | Below 380°                                      |                           |                           |           |                    |                             |  |                              |                                  |                                  |                                    | Above 240° |           |
| Manifold Pressure | inch |   |                           | 29.6'<br>(max 32' 2 min.) |           | 29.6'<br>(max 31') | 29.6'<br>(max 31')          | 29.6'<br>(max 31')                         |                              | 29' - 29.6'                      | 26' - 28.5'                      | 22' - 25'                          | >15'       |           |
| Speed             | Kts  |   |                           | Vr<br>70-73               | Vx<br>79  | Vy<br>101          | Vc<br>120<br>130 > 7'500 ft |  | Vc<br>130-140 > <sup>2</sup> |                                  |                                  |                                    |            | 80-85     |
| Fuel Pump         |      | Low Boost<br>(Prime 5-8" until reg. FF if cold) | Low Boost                 | Low Boost                 | Low Boost | Low Boost          | Low Boost                   | Low Boost<br>(ev. High Boost) <sup>1</sup> | Low Boost                    | Low Boost<br>(ev. Off after 30') | Low Boost<br>(ev. Off after 30') | Low Boost<br>(ev. Off after 30')   | Low Boost  | Low Boost |
| Mixture           |      | Full Rich                                       | Lean Max RPM<br>(miXture) | Full Rich                 | Full Rich | Full Rich          | Full Rich                   | Full Rich                                  | Mix                          | Mix                              | Mix                              | Mix<br>(reduce slowly if CHT high) | Mix        | Full Rich |
| Power             | %    | Max Power then 1/4 inch                         |                           | Max Power                 | Max Power | Max Power          | Max Power                   | Max Power                                  | Max Power                    | 85%                              | 75%                              | 65%                                |            |           |
| RPM               |      | 1'000   | 1'000                     | 1'700                     | 2'700     | Max 2'700          | Max 2'700                   | Max 2'700                                  | Max 2'700                    | 2'500                            | 2'500                            | 2'500                              |            |           |
| Oil Temperature   | °F   |   |                           | > 100°                    | > 150°    |                    |                             |  |                              |                                  |                                  |                                    |            |           |

<sup>1</sup> Activate High Pump if: 1) Fuel flow Fluctuation, 2) Rise EGT+TIT and Decreasing FuelFlow, 3) Rise CHT

<sup>2</sup> Check T<sub>max</sub> always < 380°. Otherwise: 1) increase speed, 2) reduce FF (from 17.6 to 17.0), 3) switch to Climb full rich (climb in altitude)