

AIR AMERICA  
Wilkes-Barre/ Scranton  
International Airport  
Avoca, Pennsylvania 18641

POH and AFM SUPPLEMENT  
for Cessna P210N  
Report 8-701A  
STC SA2568NM

## SECTION 1 - GENERAL

### INTRODUCTION

This supplement contains the information necessary to supplement the Cessna P210N Pilot's Operating Handbook when the aircraft has been modified by the installation of a Lycoming TIO 540-V2AD engine in accordance with STC SA2568NM.

### PERFORMANCE SPECIFICATIONS

#### SPEED:

|                                 |          |
|---------------------------------|----------|
| Maximum at 18,000 feet          | 226 KTAS |
| Cruise, 80% Power at 20,000 Ft. | 203 KTAS |
| Cruise, 80% Power at 10,000 Ft. | 184 KTAS |

#### RATE OF CLIMB:

|            |          |
|------------|----------|
| Sea Level  | 1305 FPM |
| 10,000 Ft. | 1250 FPM |
| 20,000 Ft. | 1000 FPM |

The above performance figures are based on 4000 lb weight and standard atmospheric conditions. They are calculated values derived from flight tests conducted for Air America and can vary with individual airplanes and numerous factors affecting flight performance.

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#### MAXIMUM CERTIFICATED WEIGHTS

The original certified weights of the P210N are unchanged. For those airplanes incorporating the optional battery installation in the aft baggage compartment the baggage compartment weight limitations are as follows:

Baggage Area "A" - Station 124 to 152: 168 lbs.

Baggage Area "B" - Station 152 to 166: 48 lbs.

#### NOTE

The maximum allowable combined weight capacity for baggage areas A and B is 168 pounds.

#### STANDARD AIRPLANE WEIGHTS

Standard Empty Weight, Pressurized Centurion: 2435 lbs.

Pressurized Centurion II: 2499 lbs.

Maximum Useful Load, Pressurized Centurion: 1581 lbs.

Pressurized Centurion II: 1517 lbs.

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**MAXIMUM RATE OF CLIMB**

**CONDITIONS:**

Flaps Up  
 Gear up  
 2600 RPM, Full Throttle  
 Mixture Full Rich  
 Cowl Flaps Open

**MANIFOLD PRESSURE:**

S.L. to 18,000 Ft. 42 In. Hg.  
 20,000 Ft. 40 In. Hg.  
 23,000 Ft. 36 In. Hg.

| WEIGHT<br>LBS | PRESS<br>ALT<br>FT | CLIMB<br>SPEED<br>KIAS | RATE-OF-CLIMB - FPM |      |      |      |
|---------------|--------------------|------------------------|---------------------|------|------|------|
|               |                    |                        | -20°C               | 0°C  | 20°C | 40°C |
| 4000          | SL                 | 100                    | 1545                | 1410 | 1270 | 1130 |
|               | 4000               | 100                    | 1469                | 1334 | 1194 | 1054 |
|               | 8000               | 100                    | 1400                | 1265 | 1125 | 985  |
|               | 12000              | 100                    | 1320                | 1185 | 1050 | 880  |
|               | 16000              | 100                    | 1230                | 1105 | 965  | 760  |
|               | 20000              | 98                     | 970                 | 840  | 810  | 640  |
|               | 23000              | 97                     | 647                 | 522  | 480  | 310  |

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TIME, FUEL, AND DISTANCE TO CLIMB  
 MAXIMUM RATE OF CLIMB

|                         |                               |
|-------------------------|-------------------------------|
| CONDITIONS:             | MANIFOLD PRESSURE:            |
| Flaps Up                | S.L. to 18,000 Ft. 42 In. Hg. |
| Gear up                 | 20,000 Ft. 40 In. Hg.         |
| 2600 RPM, Full Throttle | 23,000 Ft. 36 In. Hg.         |
| Mixture Full Rich       |                               |
| Cowl Flaps Open         |                               |
| Standard Temperature    |                               |

Notes: 1. Add 16 lb fuel for engine start, taxi and takeoff allowance.  
 2. Distances shown are based on zero wind.

| WEIGHT<br>LBS | PRESS<br>ALT - FT | CLIMB<br>SPEED<br>KIAS | RATE OF<br>CLIMB<br>FPM | FROM SEA LEVEL |                      |                |
|---------------|-------------------|------------------------|-------------------------|----------------|----------------------|----------------|
|               |                   |                        |                         | TIME<br>MIN    | FUEL USED<br>GALLONS | DISTANCE<br>NM |
| 4000          | SL                | 100                    | 1305                    | 0              | 0                    | 0              |
|               | 4000              | 100                    | 1284                    | 3              | 2                    | 5              |
|               | 8000              | 100                    | 1270                    | 6              | 4                    | 11             |
|               | 12000             | 100                    | 1245                    | 10             | 7                    | 17             |
|               | 16000             | 100                    | 1210                    | 13             | 9                    | 24             |
|               | 20000             | 98                     | 1000                    | 17             | 12                   | 33             |
|               | 23000             | 97                     | 712                     | 21             | 14                   | 42             |

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CRUISE PERFORMANCE  
 PRESSURE ALTITUDE 10,000 FT

CONDITIONS: Cowl Flaps Closed  
 Recommended Lean Mixture  
 Standard Temperature

| RPM  | MP   | % BHP | GPH  | 4000 POUNDS | 3500 POUNDS |
|------|------|-------|------|-------------|-------------|
|      |      |       |      | KTAS        | KTAS        |
| 2500 | 36   | 87    | 27.0 | 192         | 198         |
|      | 34   | 83    | 24.7 | 188         | 193         |
|      | 32   | 77    | 22.0 | 180         | 187         |
|      | 30   | 72    | 18.0 | 172         | 180         |
|      | 28   | 68    | 16.8 | 165         | 175         |
|      | 26   | 63    | 15.5 | 156         | 169         |
|      | 2400 | 36    | 84   | 25.5        | 188         |
| 34   |      | 80    | 23.5 | 184         | 191         |
| 32   |      | 75    | 19.0 | 177         | 185         |
| 30   |      | 70    | 17.3 | 168         | 179         |
| 28   |      | 66    | 16.2 | 161         | 172         |
| 26   |      | 61    | 15.2 | 151         | 166         |
| 2300 |      | 36    | 81   | 23.9        | 185         |
|      | 34   | 76    | 22.2 | 179         | 187         |
|      | 32   | 72    | 17.8 | 172         | 179         |
|      | 30   | 67    | 16.5 | 165         | 173         |
|      | 28   | 63    | 15.5 | 154         | 168         |
|      | 26   | 59    | 14.8 | 144         | 161         |
|      | 2200 | 36    | 77   | 22.5        | 180         |
| 34   |      | 73    | 18.2 | 174         | 181         |
| 32   |      | 69    | 16.9 | 166         | 175         |
| 30   |      | 65    | 15.9 | 159         | 171         |
| 28   |      | 60    | 15.0 | 148         | 163         |
| 26   |      | 56    | 14.5 | 132         | 155.8       |

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CRUISE PERFORMANCE  
 PRESSURE ALTITUDE 15,000 FT

CONDITIONS: Cowl Flaps Closed  
 Recommended Lean Mixture  
 Standard Temperature

| RPM  | MP   | % BHP | GPH  | 4000 POUNDS<br>KTAS | 3500 POUNDS<br>KTAS |
|------|------|-------|------|---------------------|---------------------|
| 2500 | 36   | 87    | 27.0 | 205                 | 213                 |
|      | 34   | 82    | 24.6 | 199                 | 207                 |
|      | 32   | 78    | 22.7 | 192                 | 202                 |
|      | 30   | 73    | 18.2 | 185                 | 195                 |
|      | 28   | 68    | 16.8 | 176                 | 188                 |
|      | 26   | 64    | 15.7 | 167                 | 182                 |
|      | 2400 | 36    | 84   | 25.5                | 202                 |
| 34   |      | 80    | 23.5 | 196                 | 205                 |
| 32   |      | 75    | 19.0 | 190                 | 198                 |
| 30   |      | 71    | 17.5 | 182                 | 191                 |
| 28   |      | 66    | 16.2 | 173                 | 185                 |
| 26   |      | 62    | 15.4 | 162                 | 179                 |
| 2300 |      | 36    | 81   | 24.3                | 199                 |
|      | 34   | 77    | 22.5 | 192                 | 201                 |
|      | 32   | 73    | 18.2 | 183                 | 195                 |
|      | 30   | 68    | 16.8 | 177                 | 188                 |
|      | 28   | 64    | 15.7 | 166                 | 179                 |
|      | 26   | 60    | 15.0 | 156                 | 173                 |

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**CRUISE PERFORMANCE**  
**PRESSURE ALTITUDE 20,000 FT**

CONDITIONS:           Cowl Flaps Closed  
                          Recommended Lean Mixture  
                          Standard Temperature

| RPM  | MP | % BHP | GPH  | 4000 POUNDS | 3500 POUNDS |
|------|----|-------|------|-------------|-------------|
|      |    |       |      | KTAS        | KTAS        |
| 2500 | 36 | 86    | 26.5 | 211         | 221         |
|      | 34 | 82    | 24.6 | 205         | 216         |
|      | 32 | 78    | 22.7 | 198         | 209         |
|      | 30 | 73    | 18.4 | 190         | 204         |
|      | 28 | 69    | 17.0 | 179         | 196         |
|      | 26 | 65    | 15.9 | 166         | 188         |
| 2400 | 36 | 84    | 25.5 | 210         | 219         |
|      | 34 | 80    | 23.8 | 203         | 213         |
|      | 32 | 75    | 19.0 | 195         | 208         |
|      | 30 | 71    | 17.6 | 186         | 199         |
|      | 28 | 67    | 16.5 | 175         | 192         |
|      | 26 | 63    | 15.5 | 160         | 185         |
| 2300 | 36 | 81    | 24.3 | 205         | 215         |
|      | 34 | 77    | 22.5 | 198         | 208         |
|      | 32 | 73    | 18.4 | 189         | 202         |
|      | 30 | 69    | 17.0 | 180         | 197         |
|      | 28 | 65    | 15.9 | 168         | 189         |
|      | 26 | 61    | 15.1 | 152         | 181         |

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**CRUISE PERFORMANCE**  
**PRESSURE ALTITUDE 23,000 FT**

CONDITIONS: CowI Flaps Closed  
Recommended Lean Mixture  
Standard Temperature

| RPM  | MP   | % BHP | GPH  | 4000 POUNDS<br>KTAS | 3500 POUNDS<br>KTAS |
|------|------|-------|------|---------------------|---------------------|
| 2500 | 36   | 85    | 26.1 | 215                 | 227                 |
|      | 34   | 81    | 24.2 | 209                 | 221                 |
|      | 32   | 77    | 22.6 | 201                 | 215                 |
|      | 30   | 73    | 18.4 | 191                 | 206                 |
|      | 28   | 69    | 17.0 | 179                 | 198                 |
|      | 26   | 65    | 15.9 | 164                 | 192                 |
|      | 2400 | 36    | 84   | 25.5                | 212                 |
| 34   |      | 80    | 23.8 | 203                 | 218                 |
| 32   |      | 75    | 19.0 | 195                 | 210                 |
| 30   |      | 71    | 17.7 | 186                 | 205                 |
| 28   |      | 67    | 16.5 | 172                 | 196                 |
| 26   |      | 63    | 15.5 | 162                 | 187                 |
| 2300 |      | 32    | 73   | 18.3                | 185                 |
|      | 30   | 69    | 17.0 | 179                 | 198                 |
|      | 28   | 65    | 16.0 | 168                 | 192                 |
|      | 26   | 61    | 15.2 | 158                 | 182                 |

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