

\* ITEMS MARKED ARE PART OF ELECTRONIC DISPLAYS

## LOAD DATA SHEET - PAGE 3 OF 3 - LOADING SYSTEM

Aeroplane Type:..... CESSNA 182T

Registration Marking:..... **VH-ZFC** Serial No: 18281598

ISSUE:.... ONE DATE:..... 15-Mar-21

The following is valid only for the Empty Weight specified in Page 1 of 3 Aeroplane Weight dated.. 15-Mar-21 and is based on calculations using Occupant Weights of 60 to 90 Kg each.

### 1. OCCUPANTS:-

Load Front to Rear (i.e. Front seats first)  
Load Heaviest Passengers in front row

### 2. BAGGAGE COMPARTMENT LIMITATIONS:-

| Number of Occupants | Maximum * Total Baggage |
|---------------------|-------------------------|
| One(pilot)          | 90.7 Kg                 |
| Two                 | 90.7 Kg                 |
| Three               | 77.3 Kg                 |
| Four                | 31.3 Kg                 |

\*For Baggage Bay Limits Refer POH Section 6

### 3. WING MAIN FUEL:-

Fuel is limited only by All Up Weight

**MAXIMUM TAKE-OFF WEIGHT .....1406 Kg**  
**MAXIMUM LANDING WEIGHT .....1338 Kg**

### **\*\*\*\*OPTIONAL LOAD CHART\*\*\*\***

If Loading can not conform to the above limitations, a full load check should be carried out on Load Chart BC/C182/5 for Cessna 182T (22 August 2017).

## LOAD CHART

Aeroplane Type:..... CESSNA 182T

Registration Marking:..... **VH-ZFC** Serial No: 18281598

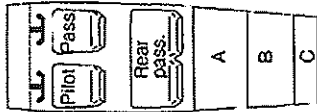
### **INSTRUCTIONS FOR LOAD CHART BC/C182/5 ISSUE ONE (22 August 2017)**

1. Use standard trim sheet procedures. Enter top of chart using current Basic EMPT Y empty Weight and Arm obtained from the Load Data Sheet.
2. Total load weights in left hand column obtaining Zero Fuel Weight and Take-off Weight.  
Draw horizontal lines on the C.G. Limits Graph at the bottom of the chart.
3. From the Basic Weight Versus Arm point at the top of the chart, draw a line VERTICALLY down until it intersects one of the oblique lines on the first load item scale.  
(NOTE: Front seats has "NIL" Scale)
4. Move HORIZONTALLY along the load item scale in the direction of the arrow and mark a point appropriate to the load indicated in the left hand column. [e.g. with 50 Kg/Div a 100 Kg load = 2 Div.]
5. Draw a VERTICAL line down to the next load item scale and repeat the above process. (Exercise care in plotting values of segments, noting that occupant scale segments are 50 Kg)
6. Proceed VERTICALLY down the load item scales, moving to left or right as indicated by the arrows and marking scale divisions as appropriate to each load.
7. From the last cabin load item scale draw a line VERTICALLY down to intersect the Zero Fuel line previously drawn on the limits graph.
8. Continue down to the fuel scales and mark off the appropriate load, noting that FUEL has 50 Kg/Div scales, then draw a line VERTICALLY down from the last fuel point to intersect the Take-off Weight line previously drawn on the limits graph.
9. The two intersection points above must not exceed the boundaries of the limits graph (heavily lined). If either point does, then the load must be rearranged and loading rechecked with steps 2 to 8.

**\*\*\*DO NOT EXCEED MAXIMUM WEIGHTS SHOWN ON THE CHART\*\*\***

**AeroWeigh Pty. Ltd.**  
**BRUCE QUSSOLD**  
**AUTHORITY CERTIFIED**  
MOBILE 0412 58 5531

# LOAD CHART BC/C182/5 CESSNA 182T SKYLANE



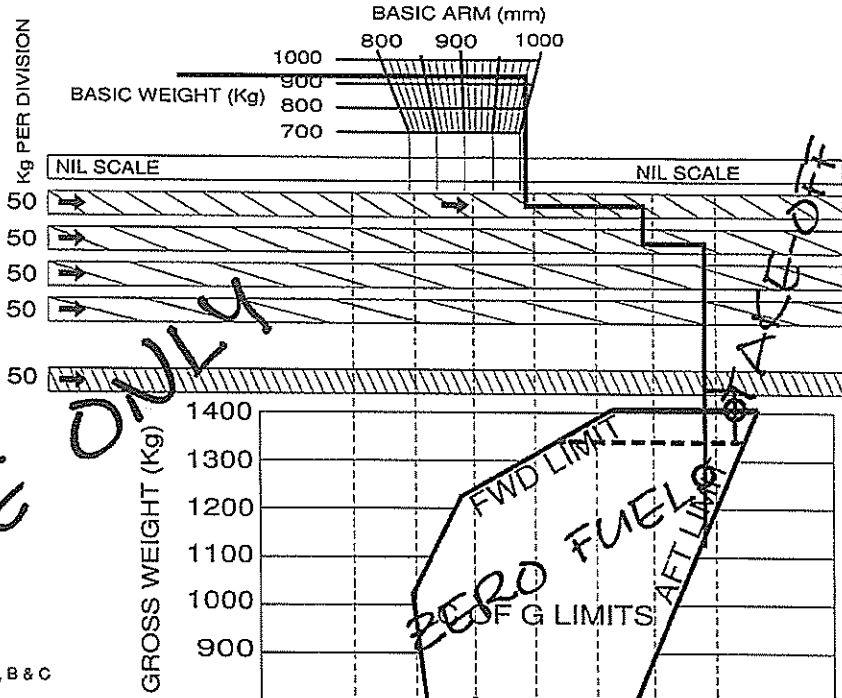
|                |      |
|----------------|------|
| BASIC WEIGHT   | 918  |
| FRONT SEATS    | 150  |
| REAR SEATS     | 150  |
| BAG A (MAX 54) | 50   |
| BAG B (MAX 36) | —    |
| BAG C (MAX 36) | —    |
| ZERO FUEL WT   | 1268 |
| FUEL           | 138  |
| TAKE-OFF WT    | 1406 |
| FLIGHT FUEL    | 80   |
| LANDING WT     | 1326 |

MAXIMUM TAKE-OFF WEIGHT  
1406 Kg

MAXIMUM LANDING WEIGHT  
1338 Kg

MAXIMUM COMBINED WEIGHT IN AREAS A, B & C  
90 Kg

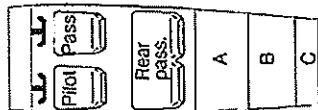
MAXIMUM COMBINED WEIGHT IN AREAS B & C  
36 Kg



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BC/C182/5 22 AUGUST 2017

# LOAD CHART BC/C182/5 CESSNA 182T SKYLANE



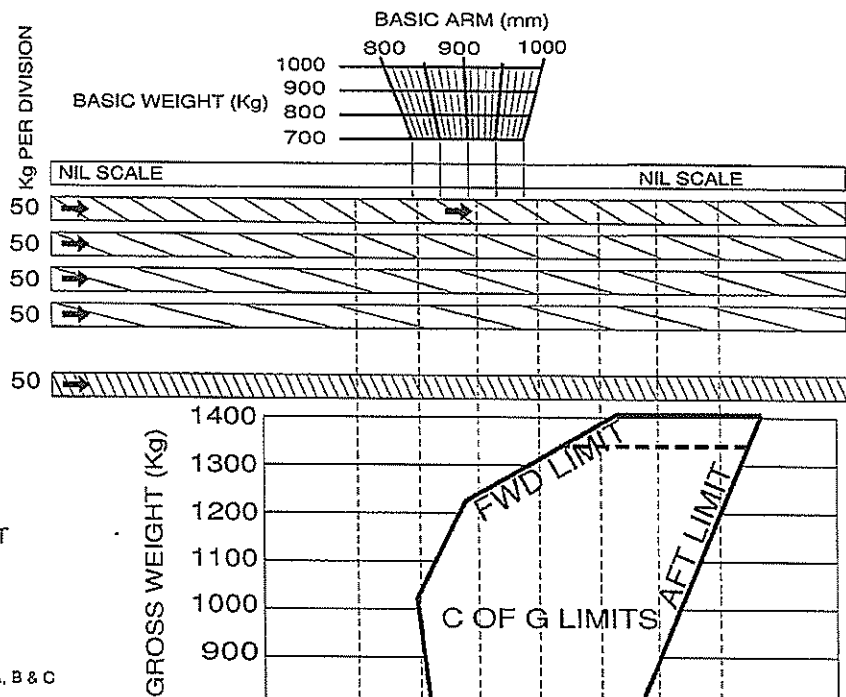
|                |  |
|----------------|--|
| BASIC WEIGHT   |  |
| FRONT SEATS    |  |
| REAR SEATS     |  |
| BAG A (MAX 54) |  |
| BAG B (MAX 36) |  |
| BAG C (MAX 36) |  |
| ZERO FUEL WT   |  |
| FUEL           |  |
| TAKE-OFF WT    |  |
| FLIGHT FUEL    |  |
| LANDING WT     |  |

MAXIMUM TAKE-OFF WEIGHT  
1406 Kg

MAXIMUM LANDING WEIGHT  
1338 Kg

MAXIMUM COMBINED WEIGHT IN AREAS A, B & C  
90 Kg

MAXIMUM COMBINED WEIGHT IN AREAS B & C  
36 Kg



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BC/C182/5 22 AUGUST 2017

## SHORT FIELD TAKEOFF DISTANCE AT 3100 POUNDS

### CONDITIONS:

Flaps 20°

2400 RPM, Full Throttle and mixture set prior to brake release.

Cowl Flaps OPEN

Paved, Level, Dry Runway

Zero Wind

Lift Off: 49 KIAS

Speed at 50 Feet: 58 KIAS

| Pressure<br>Altitude -<br>Feet | 0°C                 |                                                    | 10°C                |                                                    | 20°C                |                                                    | 30°C                |                                                    | 40°C                |                                                    |
|--------------------------------|---------------------|----------------------------------------------------|---------------------|----------------------------------------------------|---------------------|----------------------------------------------------|---------------------|----------------------------------------------------|---------------------|----------------------------------------------------|
|                                | Gnd<br>Roll<br>Feet | Total<br>Feet<br>To<br>Clear<br>50<br>Foot<br>Obst | Gnd<br>Roll<br>Feet | Total<br>Feet<br>To<br>Clear<br>50<br>Foot<br>Obst | Gnd<br>Roll<br>Feet | Total<br>Feet<br>To<br>Clear<br>50<br>Foot<br>Obst | Gnd<br>Roll<br>Feet | Total<br>Feet<br>To<br>Clear<br>50<br>Foot<br>Obst | Gnd<br>Roll<br>Feet | Total<br>Feet<br>To<br>Clear<br>50<br>Foot<br>Obst |
| Sea Level                      | 715                 | 1365                                               | 765                 | 1460                                               | 825                 | 1570                                               | 885                 | 1680                                               | 945                 | 1800                                               |
| 1000                           | 775                 | 1490                                               | 835                 | 1600                                               | 900                 | 1720                                               | 965                 | 1845                                               | 1030                | 1980                                               |
| 2000                           | 850                 | 1635                                               | 915                 | 1760                                               | 980                 | 1890                                               | 1055                | 2035                                               | 1130                | 2190                                               |
| 3000                           | 925                 | 1800                                               | 995                 | 1940                                               | 1070                | 2090                                               | 1150                | 2255                                               | 1235                | 2435                                               |
| 4000                           | 1015                | 1990                                               | 1090                | 2150                                               | 1175                | 2325                                               | 1260                | 2515                                               | 1355                | 2720                                               |
| 5000                           | 1110                | 2210                                               | 1195                | 2395                                               | 1290                | 2595                                               | 1385                | 2820                                               | 1485                | 3070                                               |
| 6000                           | 1220                | 2470                                               | 1315                | 2690                                               | 1415                | 2930                                               | 1520                | 3200                                               | 1635                | 3510                                               |
| 7000                           | 1340                | 2785                                               | 1445                | 3045                                               | 1560                | 3345                                               | 1675                | 3685                                               | ---                 | ---                                                |
| 8000                           | 1480                | 3175                                               | 1595                | 3500                                               | 1720                | 3880                                               | ---                 | ---                                                | ---                 | ---                                                |

### NOTE

- Short field technique as specified in Section 4.
- Prior to takeoff, the mixture should be leaned to the Maximum Power Fuel Flow schedule in a full throttle, static run-up.
- Decrease distances 10% for each 9 knots headwind. For operation with tail winds up to 10 knots, increase distances by 10% for each 2 knots.
- Where distance value have been deleted, climb performance after lift-off is less than 150 FPM at takeoff speed.
- For operation on dry, grass runway, increase distances by 15% of the "ground roll" figure.

Figure 5-6 (Sheet 1 of 3)\*

## SHORT FIELD TAKEOFF DISTANCE AT 2700 POUNDS

### CONDITIONS:

Flaps 20°

2400 RPM, Full Throttle and mixture set prior to brake release.

Cowl Flaps OPEN

Paved, Level, Dry Runway

Zero Wind

Lift Off: 45 KIAS

Speed at 50 Feet: 54 KIAS

| Pressure<br>Altitude -<br>Feet | 0°C                 |                                                    | 10°C                |                                                    | 20°C                |                                                    | 30°C                |                                                    | 40°C                |                                                    |
|--------------------------------|---------------------|----------------------------------------------------|---------------------|----------------------------------------------------|---------------------|----------------------------------------------------|---------------------|----------------------------------------------------|---------------------|----------------------------------------------------|
|                                | Gnd<br>Roll<br>Feet | Total<br>Feet<br>To<br>Clear<br>50<br>Foot<br>Obst | Gnd<br>Roll<br>Feet | Total<br>Feet<br>To<br>Clear<br>50<br>Foot<br>Obst | Gnd<br>Roll<br>Feet | Total<br>Feet<br>To<br>Clear<br>50<br>Foot<br>Obst | Gnd<br>Roll<br>Feet | Total<br>Feet<br>To<br>Clear<br>50<br>Foot<br>Obst | Gnd<br>Roll<br>Feet | Total<br>Feet<br>To<br>Clear<br>50<br>Foot<br>Obst |
| Sea Level                      | 520                 | 995                                                | 560                 | 1065                                               | 600                 | 1135                                               | 645                 | 1215                                               | 690                 | 1295                                               |
| 1000                           | 565                 | 1080                                               | 610                 | 1155                                               | 655                 | 1235                                               | 700                 | 1320                                               | 750                 | 1410                                               |
| 2000                           | 615                 | 1180                                               | 665                 | 1260                                               | 710                 | 1350                                               | 765                 | 1445                                               | 820                 | 1545                                               |
| 3000                           | 675                 | 1285                                               | 725                 | 1380                                               | 775                 | 1480                                               | 835                 | 1585                                               | 895                 | 1695                                               |
| 4000                           | 735                 | 1410                                               | 790                 | 1510                                               | 850                 | 1625                                               | 910                 | 1740                                               | 975                 | 1870                                               |
| 5000                           | 805                 | 1550                                               | 865                 | 1665                                               | 930                 | 1790                                               | 1000                | 1920                                               | 1070                | 2065                                               |
| 6000                           | 880                 | 1705                                               | 950                 | 1840                                               | 1020                | 1980                                               | 1095                | 2135                                               | 1175                | 2300                                               |
| 7000                           | 965                 | 1890                                               | 1040                | 2040                                               | 1120                | 2205                                               | 1200                | 2380                                               | 1290                | 2575                                               |
| 8000                           | 1060                | 2100                                               | 1145                | 2275                                               | 1230                | 2465                                               | 1320                | 2675                                               | 1420                | 2910                                               |

### NOTE

- Short field technique as specified in Section 4.
- Prior to takeoff, the mixture should be leaned to the Maximum Power Fuel Flow schedule in a full throttle, static run-up.
- Decrease distances 10% for each 9 knots headwind. For operation with tail winds up to 10 knots, increase distances by 10% for each 2 knots.
- For operation on dry, grass runway, increase distances by 15% of the "ground roll" figure.

Figure 5-6 (Sheet 2)\*

## SHORT FIELD TAKEOFF DISTANCE AT 2300 POUNDS

**CONDITIONS:**

Flaps 20°

2400 RPM, Full Throttle and mixture set prior to brake release.

Cowl Flaps OPEN

Paved, Level, Dry Runway

Zero Wind

Lift Off: 42 KIAS

Speed at 50 Feet: 50 KIAS

| Pressure<br>Altitude -<br>Feet | 0°C                 |                                                    | 10°C                |                                                    | 20°C                |                                                    | 30°C                |                                                    | 40°C                |                                                    |
|--------------------------------|---------------------|----------------------------------------------------|---------------------|----------------------------------------------------|---------------------|----------------------------------------------------|---------------------|----------------------------------------------------|---------------------|----------------------------------------------------|
|                                | Gnd<br>Roll<br>Feet | Total<br>Feet<br>To<br>Clear<br>50<br>Foot<br>Obst | Gnd<br>Roll<br>Feet | Total<br>Feet<br>To<br>Clear<br>50<br>Foot<br>Obst | Gnd<br>Roll<br>Feet | Total<br>Feet<br>To<br>Clear<br>50<br>Foot<br>Obst | Gnd<br>Roll<br>Feet | Total<br>Feet<br>To<br>Clear<br>50<br>Foot<br>Obst | Gnd<br>Roll<br>Feet | Total<br>Feet<br>To<br>Clear<br>50<br>Foot<br>Obst |
| Sea Level                      | 365                 | 705                                                | 390                 | 750                                                | 420                 | 800                                                | 450                 | 850                                                | 480                 | 905                                                |
| 1000                           | 395                 | 765                                                | 425                 | 815                                                | 455                 | 870                                                | 490                 | 925                                                | 520                 | 985                                                |
| 2000                           | 430                 | 830                                                | 460                 | 885                                                | 495                 | 940                                                | 530                 | 1005                                               | 565                 | 1070                                               |
| 3000                           | 470                 | 900                                                | 505                 | 960                                                | 540                 | 1025                                               | 580                 | 1090                                               | 620                 | 1165                                               |
| 4000                           | 510                 | 980                                                | 550                 | 1045                                               | 590                 | 1115                                               | 630                 | 1190                                               | 675                 | 1270                                               |
| 5000                           | 555                 | 1065                                               | 600                 | 1140                                               | 640                 | 1220                                               | 690                 | 1305                                               | 735                 | 1390                                               |
| 6000                           | 610                 | 1165                                               | 655                 | 1250                                               | 700                 | 1335                                               | 755                 | 1430                                               | 805                 | 1530                                               |
| 7000                           | 665                 | 1275                                               | 715                 | 1370                                               | 770                 | 1470                                               | 825                 | 1570                                               | 885                 | 1685                                               |
| 8000                           | 730                 | 1405                                               | 785                 | 1510                                               | 845                 | 1620                                               | 905                 | 1735                                               | 970                 | 1865                                               |

### NOTE

- Short field technique as specified in Section 4.
- Prior to takeoff, the mixture should be leaned to the Maximum Power Fuel Flow schedule in a full throttle, static run-up.
- Decrease distances 10% for each 9 knots headwind. For operation with tail winds up to 10 knots, increase distances by 10% for each 2 knots.
- For operation on dry, grass runway, increase distances by 15% of the "ground roll" figure.

Figure 5-6 (Sheet 3)\*

## SHORT FIELD LANDING DISTANCE AT 2950 POUNDS

### CONDITIONS:

Flaps FULL  
Power IDLE  
Maximum Braking

Zero Wind  
Paved, Level, Dry Runway  
Speed at 50 ft: 60 KIAS

| Pressure<br>Altitude -<br>Feet | 0°C                 |                                                    | 10°C                |                                                    | 20°C                |                                                    | 30°C                |                                                    | 40°C                |                                                    |
|--------------------------------|---------------------|----------------------------------------------------|---------------------|----------------------------------------------------|---------------------|----------------------------------------------------|---------------------|----------------------------------------------------|---------------------|----------------------------------------------------|
|                                | Gnd<br>Roll<br>Feet | Total<br>Feet<br>To<br>Clear<br>50<br>Foot<br>Obst | Gnd<br>Roll<br>Feet | Total<br>Feet<br>To<br>Clear<br>50<br>Foot<br>Obst | Gnd<br>Roll<br>Feet | Total<br>Feet<br>To<br>Clear<br>50<br>Foot<br>Obst | Gnd<br>Roll<br>Feet | Total<br>Feet<br>To<br>Clear<br>50<br>Foot<br>Obst | Gnd<br>Roll<br>Feet | Total<br>Feet<br>To<br>Clear<br>50<br>Foot<br>Obst |
| Sea Level                      | 560                 | 1300                                               | 580                 | 1335                                               | 600                 | 1365                                               | 620                 | 1400                                               | 640                 | 1435                                               |
| 1000                           | 580                 | 1335                                               | 600                 | 1365                                               | 620                 | 1400                                               | 645                 | 1440                                               | 665                 | 1475                                               |
| 2000                           | 600                 | 1370                                               | 625                 | 1405                                               | 645                 | 1440                                               | 670                 | 1480                                               | 690                 | 1515                                               |
| 3000                           | 625                 | 1410                                               | 645                 | 1445                                               | 670                 | 1485                                               | 695                 | 1525                                               | 715                 | 1560                                               |
| 4000                           | 650                 | 1450                                               | 670                 | 1485                                               | 695                 | 1525                                               | 720                 | 1565                                               | 740                 | 1600                                               |
| 5000                           | 670                 | 1485                                               | 695                 | 1525                                               | 720                 | 1565                                               | 745                 | 1610                                               | 770                 | 1650                                               |
| 6000                           | 700                 | 1530                                               | 725                 | 1575                                               | 750                 | 1615                                               | 775                 | 1660                                               | 800                 | 1700                                               |
| 7000                           | 725                 | 1575                                               | 750                 | 1615                                               | 780                 | 1665                                               | 805                 | 1710                                               | 830                 | 1750                                               |
| 8000                           | 755                 | 1625                                               | 780                 | 1655                                               | 810                 | 1715                                               | 835                 | 1760                                               | 865                 | 1805                                               |

### NOTE

- Short field technique as specified in Section 4.
- Decrease distances 10% for each 9 knots headwind. For operation with tail winds up to 10 knots, increase distances by 10% for each 2 knots.
- For operation on dry grass runway, increase distances by 45% of the "ground roll" figure.
- If landing with flaps up, increase the approach speed by 10 KIAS and allow for 40% longer distances.

Figure 5-12\*

## MAXIMUM RATE OF CLIMB AT 3100 POUNDS

### CONDITIONS:

Flaps UP  
2400 RPM, Full Throttle and mixture set to Maximum Power Fuel Flow  
Placard.  
Cowl Flaps OPEN

| Pressure<br>Altitude -<br>Feet | Climb Speed<br>- KIAS | Rate of Climb - FPM |     |      |      |
|--------------------------------|-----------------------|---------------------|-----|------|------|
|                                |                       | -20°C               | 0°C | 20°C | 40°C |
| Sea Level                      | 80                    | 1055                | 980 | 905  | 835  |
| 2000                           | 79                    | 945                 | 875 | 805  | 735  |
| 4000                           | 78                    | 840                 | 770 | 705  | 635  |
| 6000                           | 77                    | 735                 | 670 | 605  | 535  |
| 8000                           | 75                    | 625                 | 560 | 495  | 430  |
| 10,000                         | 74                    | 520                 | 455 | 390  | 330  |
| 12,000                         | 73                    | 410                 | 350 | 285  | 225  |
| 14,000                         | 72                    | 310                 | 250 | 190  | 130  |

Figure 5-7\*