

## LOAD DATA SHEET

### 6.2 AEROPLANE WEIGHT

AIRCRAFT TYPE: PIPER PA23-250C  
APPROVED LOADING SYSTEM: ISSUE 10 of FLIGHT  
MANUAL PAGE 6.3

ISSUE:..12      DATE:..16-12-98      DATE OF EXPIRY:..16-12-01

### AIRCRAFT WEIGHT & CENTRE OF GRAVITY DATA SIX SEAT CONFIGURATION

ITEM	WEIGHT	ARM	MOMENT
BASIC	1477 kg	2300 mm	3397703

### NOTES:

**BASIC WEIGHT -**      Unusable Fuel & FULL etc.

### 6.3.1 LOADING SYSTEM

AIRCRAFT TYPE:

PIPER PA23-250C

APPROVED LOADING SYSTEM:

ISSUE 10 – 10/12/98

### LOADING SYSTEM

1. Ensure aircraft is loaded within weight and centre of gravity limits at all times.
2. Use Configuration and Load Chart TC-20 Issue 1 as the loading system for the aircraft.

Basic data for the trim chart is as follows:

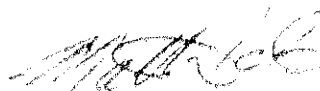
**Basic Weight** = 1477 kg  
**Index Units** = 41.6

The modified Index equation for Trim Chart TC-20 Issue 1 is as follows:

$$\text{Mod IU} = 210 + \frac{W(\text{Stm} - 2870)}{5000}$$

3. Instructions for use of Configuration Load and Trim Chart are provided on sheet 6.3.2

**APPROVED**



MATTHEW M. IDE  
Weight Control Authority  
A436435

16 December 1998

## 6.3.2 LOADING SYSTEM

AIRCRAFT TYPE:

PIPER PA23-250C

APPROVED LOADING SYSTEM: ISSUE 10 ~ 16/12/98

### TRIM CHART INSTRUCTIONS

1. Enter Basic Data Weight and Op.Index in the appropriate columns on the chart.
2. Enter the weights (in kg) of pilot, Pax, cargo or baggage in the appropriate columns of the table.
3. Starting with the Op.Index on the Op.Index line, drop vertically down to the first box containing a weight entry in the table. Note the weight per division in that box and move in the direction of the arrow the appropriate amount.
4. Continue down the chart in a similar manner for additional weights to the Zero Fuel Wt. Row. Sum the weights to this point and drop the chart line down into the lower graph. Draw a horizontal line at the Zero Fuel Wt. And intersect with the vertical chart line. Ensure that the intersect is within the graph boundaries. If not, Re-configure weight positions and change the table and chart to bring the intersect within the graph boundaries.
5. Add useable fuel load to the appropriate column in the table and calculate T/O weight. Ensure that this does not exceed the Maximum allowable.
6. Add the effects of fuel to the chart, and drop vertically down into the lower graph, intersecting with a line drawn horizontally at the appropriate T/O weight. Again ensure that the intersection is within the graph boundaries.

APPROVED CONFIGURATION LOAD &  
 TRIM CHART FOR 20 ISSUE 1  
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PIPER PA23-250  
 CONFIGURATION LOAD  
 & TRIM CHART IC-20

FLT NO.	
DATE	
DESTINATION	

6 SEAT CONFIGURATION

ITEM	WEIGHT KG	INDEX
BASIC DATA	1444	
LD INDEX		
EWL + PH Occ		
Row 2 Occ		
Row 3 Occ		
Cab Baggage		
4th Baggage		
Zero Fuel Wt		
Main Fuel		
Tie Top Fuel		
Tie-Off Wt		

NOTES (1) THIS CHART USES THE MAIN FUEL CENTRE OF GRAVITY AS THE DATUM

(2) CONSULT SECTION 6.3 FOR LOADING LIMITATIONS

(3) CHECK CENTRE OF GRAVITY MOVEMENT WITH FUEL USAGE

(4) CHECK LANDING WEIGHT AND OF LOCATION

CERTIFICATION

I hereby certify that the aircraft is loaded correctly in accordance with the approved loading system:

Pilot in Command

