

REPLENISHMENTS

List of Contents

Card

Fuel System - Refuelling	1
Fuel System - Fuel reconciliation check ...	2
Fuel System - Defuelling	3

Ad-

held.

Ad-
held.

Ad-
held.

Ad-
held.

Chap 4 PROPULSION
Card 1
AL 19

REPLENISHMENTS
HUNTER ALL MARKS

AP101B-1300-5A2
1st Edition
Section 2

ITEM NO	ITEM	OPERATION	OPERATOR
<u>Fuel System Refuelling</u>			
1.1	Battery master switch.	Ensure set to 'OFF'.	Propulsion
1.2	External power supply.	(i) Connect. (ii) Switch on.	"
1.3	Fuel gauges.	Record contents indications.	"
1.4	External power supply.	(i) Switch off. (ii) Disconnect.	"
1.5	Refueller.	(i) Ensure trailing strap in contact with ground. (ii) Ensure bonding lead connected to aircraft earth bolt.	"
1.6	Defuelling cock.)	Ensure set to 'OFF'	"
1.7	LP Fuel cock.)		
1.8	Refuelling pressure relief valves. (stud wing).	Ensure free to operate.	"
1.9	Refuelling coupling sealing cap. (Pt wheel compartment).	Remove.	"
1.10	Refueller hose.	Connect.	"
NB: Sub item 1.11 is applicable to post CM/HUNTER/20A only.			
1.11	Drop tank selector switches. (Port and starboard wheel wells). Select required range as follows:-		

ITEM NO	ITEM	OPERATION	OPERATOR
	(a) <u>Short Range</u>		
	Both switches)		
	port.)		
	Both switches) Set to 'OFF'.		
	stbd.)		
	(b) <u>Medium Range</u>		
	In board switch)		
	port.)		
	In board switch) Set to 'ON'		
	stbd.)		
	(c) <u>Long Range</u>		
	Both switches)		
	port.)		
	Both switches) Set to 'ON'		
	stbd.)		
NB1: During item 2 rate of refuelling is not to exceed 150 gall/Min at 40 lbf/in ² . If pressure is progressively reduced during refuel this will minimise venting.			
NB2: The aircraft will refuel and cease refuelling when the selected capacity has been attained.			
2.	<u>Refuelling</u>		
2.1	Time switch.	Set to 'ON'.	Propulsion
2.2	Refueller control.	Set to 'REFUEL'	"
2.3	Refueller pump.	Set to 'ON'	"
3.	<u>General</u>		
3.1	Refueller hose.	Disconnect	"
3.2	Refuelling coupling sealing cap.	Refit	"
3.3	Refueller bonding lead.	Disconnect from aircraft earth bolt.	"
3.4	MOD F700 Replenishment record	Record amount of fuel put in. (From refueller gauge).	"
3.5	Fuel reconciliation checks.	Carry out.	"

Fuel Reconciliation Check

This check is to be carried out after every refuelling operation as follows:

- Note the contents indications on the aircraft fuel gauges before the refuel operation.
- From the contents noted at a. calculate the amount of fuel necessary to bring the aircraft to its required fuel state.
- Refuel the aircraft.
- The difference between the bowser fuel gauge reading and the calculated figure at b. is the fuel discrepancy.

Express the fuel discrepancy as a % of the total fuel gain. Record the fuel discrepancy on the F.705.

Maximum fuel discrepancy for the Hunter aircraft is 5%. If the discrepancy calculated is in excess of 5%, report this fact to the NCO IC Servicing.

Fuel Reconciliation Check Examples

EG 1.

- | | |
|---|----------|
| (a) Fuel gauges in aircraft read | 1000 lbs |
| (b) Fuel state required is | 4960 lbs |
| (c) Calculated fuel required is | 3960 lbs |
| (d) After refuel, refueller gauges read | 3850 lbs |

$$\begin{array}{rcl} \text{Fuel Discrepancy} & = & 3960 \\ & & -3850 \\ \hline & & 110 \text{ lbs} \end{array}$$

$$\frac{\text{Difference}}{\text{Fuel Put In}} \% = \frac{110}{3850} \times 100 = \underline{2.8\%} \text{ APPROX}$$

EG 2.

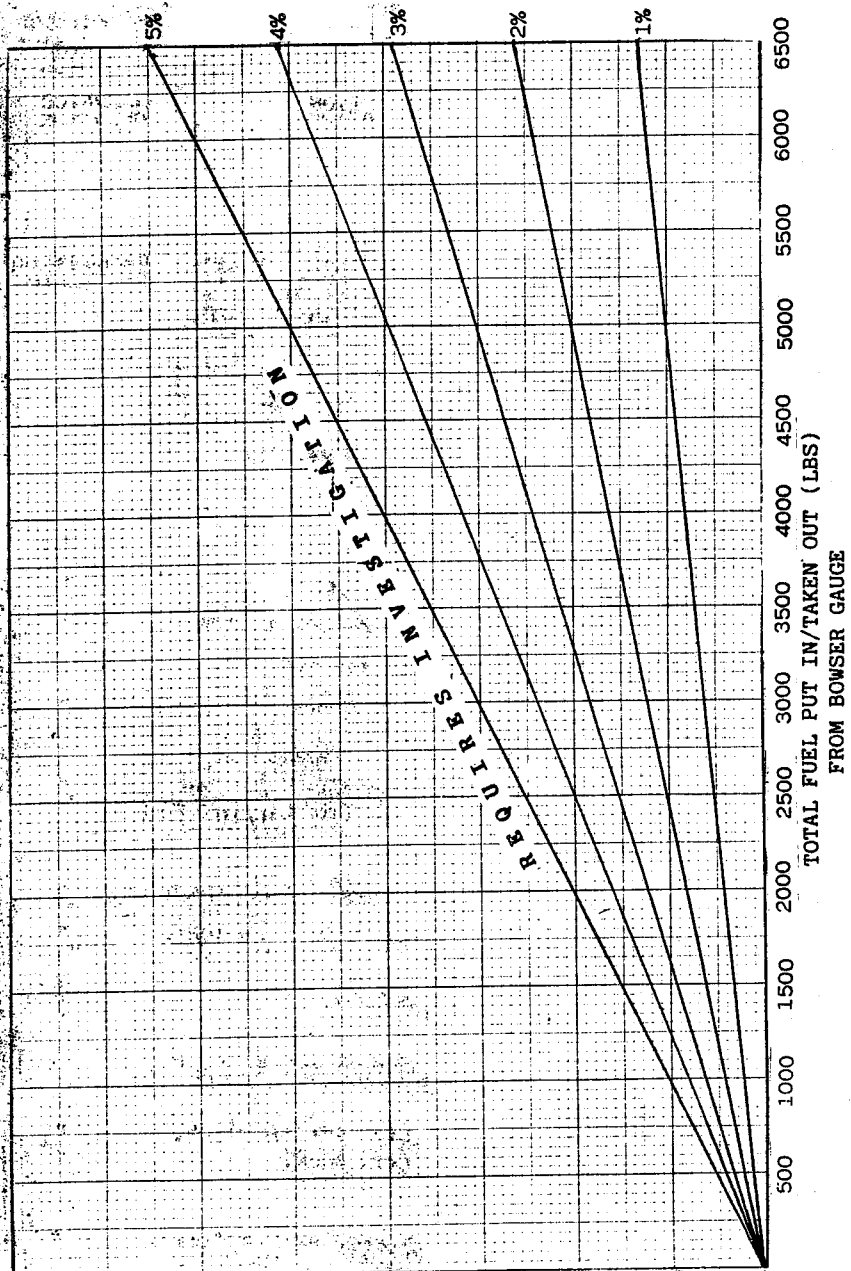
- | | |
|---|----------|
| (a) Fuel gauges in aircraft read | 1000 lbs |
| (b) Fuel state required is | 4960 lbs |
| (c) Calculated fuel required is | 3960 lbs |
| (d) After refuel, refueller gauges read | 3740 lbs |

$$\begin{array}{rcl} \text{Fuel Discrepancy} & = & 3960 \\ & & -3740 \\ \hline & & 220 \text{ lbs} \end{array}$$

$$\frac{\text{Difference}}{\text{Fuel Put In}} \% = \frac{220}{3740} \times 100 = \underline{5.8\%} \text{ REQUIRES INVESTIGATION}$$

D I S C R E P A N C Y L B S

8A



FUEL DISCREPANCY CONVERSION CHART

ITEM NO	ITEM	OPERATION	OPERATOR
<u>Fuel System - Defuelling</u>			
1.	<u>Preparation</u>		
1.1	Refueller.	(i) Ensure trailing strap in contact with ground. (ii) Ensure bonding lead connected to aircraft earth bolt.	Propulsion "
1.2	Refuelling coupling sealing cap. (Port wheel compartment).	Remove.	"
1.3	Refueller hose.	Connect.	"
1.4	LP Fuel cock.	Ensure set to 'OFF'.	"
1.5	Defuelling cock.	Set to 'ON'.	"
1.6	External air pressure & supply.	(i) Connect to aircraft spine connection. (ii) Apply pressure. (10 lbf/in ² max).	" "
2.	<u>Defuelling</u>		
2.1	Refueller control.	Ensure set to 'DEFUEL'.	"
2.2	Refueller pump control.	Ensure set to 'ON'.	"
2.3	Aircraft fuel system.	Defuel.	"
2.4	Refueller pump control.	Ensure set to 'OFF'.	"
2.5	Defuelling cock.	(i) Set to 'OFF'. (ii) Lock.	" "
3.	<u>General</u>		
3.1	Battery master switch.	Ensure set to 'OFF'.	"

PF 144/144A

ITEM NO	ITEM	OPERATION	OPERATOR
3.2	External power supply.	(i) Connect. (ii) Switch on.	Propulsion "
3.3	Fuel gauges.	Ensure contents indication reads 'ZERO'.	"
3.4	External power supply.	(i) Switch on. (ii) Disconnect.	"
3.5	External air pressure supply.	(i) Turn off. (ii) Disconnect from aircraft.	" "
3.6	Refueller hose.	Disconnect.	"
3.7	Refuelling coupling sealing cap.	Refit.	"
3.8	Refueller bonding lead.	Disconnect from aircraft earth bolt.	"
3.9	MOD F700 Replenishment record.	Record amount taken out. (From refueller gauge).	"



This file was downloaded
from the RTFM Library.

Link: www.scottbouch.com/rtfm

Please see site for usage terms,
and more aircraft documents.