



HERCULES

ABOUT THIS MANUAL

VERSION: 19 JANUARY, 2006.

WARNING: THIS MANUAL IS DESIGNED FOR MICROSOFT® FS2004 USE ONLY. DO NOT USE IN REAL AVIATION.

THIS 'C-130T MODEL' MANUAL COVERS ONLY THE C-130T MODEL EXPANSION PACKAGE SPECIFIC DIFFERENCES.

For general information on the 'Legendary C-130' Pro Base Package please refer to the 'Legendary C-130' FLIGHT MANUAL:

Click START > Programs > Captain Sim >Legendary C-130 > Flight Manual >

Free copy of the 'Legendary C-130' Pro Base Package FLIGHT MANUAL Part I – Aircraft is available at:
<http://www.captainsim.com/products/c130/manual.html>

Adobe Acrobat® Reader Required

'C-130J MODEL' MANUAL

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C-130T LOGISTICS SUPPORT AIRCRAFT

The C-130T Aircraft provides rapid logistics support to Navy operating forces. It can be configured to provide transportation of personnel or cargo. Delivery of cargo may be accomplished by parachute, low level fly-by ground extraction, or landing. The aircraft can be used as tactical transports and can be converted readily for ambulance or aerial delivery missions.

As a tactical transport, the C-130T Aircraft can carry 92 ground troops or 64 paratroopers and equipment. It can be configured as a medical evacuation platform capable of carrying 74 litters. The C-130T Aircraft can land and takeoff on short runways and can be used on primitive landing strips in advanced base areas.

The 'Blue Angels' squadron's Transport C-130T, affectionately known as Fat Albert, is the only Marine Corps aircraft permanently assigned to support a Navy squadron. It is flown by an all-Marine Corps crew of three pilots and five enlisted personnel. Fat Albert flies more than 140,000 miles during the course of a show season.

The C-130 carries 25,000 pounds of cargo, 45,000 pounds of fuel, and transports the squadron's support and maintenance crew to each show site.

Fat Albert cruises at 320 knots at 27,000 feet. Four Allison turboprop-engines producing more than 16,000-shaft horsepower provide the C-130 with the power to land and depart on runways as short as 2,500 feet. At select show sites, Fat Albert demonstrates its Jet-Assisted Take-Off (JATO) capability. Eight solid-fuel rockets are attached to the sides of the aircraft, four on each side. The rockets allow Fat Albert to take off within 1,500 feet, climb at a 45-degree angle, and attain an altitude of 1,500 feet in seconds.

'C-130T MODEL' PACKAGE CONTENT OVERVIEW

The 'C-130T Model' package is available at www.captainsim.com as an expansion to the 'Legendary C-130' base package.

The 'C-130T Model' expansion package is fully compatible with both versions ('Standard' and 'Pro') of the 'Legendary C-130' base package.

The 'Legendary C-130' base package is REQUIRED.

The 'Legendary C-130' base package MUST be installed and activated before the 'C-130T Model' expansion package installation.

MODELS AND LIVERIES

MODELS

Upon installing the **C-130T 'Hercules'** aircraft will appear under Captain Sim manufacturer in the MS FS9 Aircraft Select Menu.

The model is available in the following variations:

- Clean (no exterior fuel tanks)
- With 2 exterior fuel tanks
- No dynamic shine (for matte liveries)
- With dynamic shine
- VC and 'wing view' included
- No VC and 'wing view' included
- EICAS equipped cockpit
- Classic 'steam gauge' cockpit

In total, 24 model variations are available. See 'ACE Utility' section of the 'Legendary C-130' Pro Base Package manual for details.

HOW IS THE 'T' EXTERIOR MODEL DIFFERENT FROM THE 'E' MODEL

ATO Units (8)



Observer Canopy



APU Inlet Door And Exhaust



Modified Aft Door Windows



New Antennas (16)



SKE Radome



APU Exhaust Heat-Protection



Ground maintenance Doors Position



Emergency exit doors (2)



Emergency exit doors (2)



Cargo Compartment AC Air Inlet Scoop And Exhaust



Flight Deck AC Air Intake And Exhaust Scoop

**LIVERY**

The Blue Angels, the U.S. Naval Flight Demonstration Squadron (USNFDS) livery is included in the package.

Note:

The C-130T model textures are compliant with C-130E model textures.

REPAINT KIT

No special C-130T model Repaint Kit will be available. Please use the C-130E (base package) Repaint Kit.

FREE LIVERIES

Many freeware liveries for the C-130 are available online: <http://www.captainsim.com/support/dl>

C-130 MODELS EXPANSIONS

The following C-130 Models are or will be available as separate commercial expansions to the 'Legendary C-130' package:

1. C-130J – **available!**
 - USAF
 - Italian AF
 - RAF
2. C-130H
 - French AF
 - Japan AF
3. KC-130 (tanker)
 - US Marines (grey camo)
4. C-130T (with JATO) – **available!**
 - US NAVY Blue Angels (Fat Albert)
5. C-130H-30 (stretched version)
 - Dutch AF
6. L-100
 - UN
7. C-130A (3-blade props)
 - USAF (60-s bare metal)
8. LC-130H (on skis)
 - US NAVY (polar)
9. NC-130H (AEW&C)
 - US Space Command
10. CL-130 (on floats)
 - US Coast Guard

You can vote for your favorite model at: <http://www.captainsim.com/cgi-bin/questionnaire.pl?id=8>

Check www.captainsim.com for updates.

MISCELLANEOUS FEATURES

ASSISTED TAKE-OFF (ATO) SYSTEM



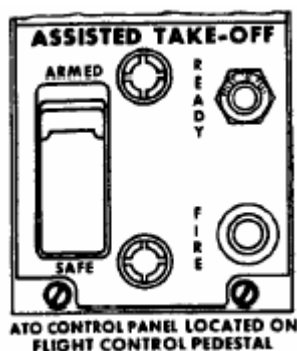
Provisions are made for external mounting of eight solid-fuel ATO units of 1000 pounds thrust* each, which supply additional thrust when it is desired to shorten take-off distance. The system is electrically controlled and operated from the assisted take-off control panel on the flight control pedestal.

The units are fired simultaneously and give thrust until the propellant is exhausted.

* Due to the MSFS limitations the ATO is a visual effect only and does not supply any additional thrust. Our development team has some ideas on how to make the ATO affect the aircraft performance real time. But realization and programming of the idea can take unpredictable amount of time.

ASSISTED TAKE-OFF (ATO) SYSTEM CONTROLS

The flight station controls and the indicator for the ATO system are located on the assisted take-off panel on the flight control pedestal (in VC only).



Armed Safe Switch and Ready Light

The ARMED-SAFE switch, located on the assisted take-off control panel is a two position toggle switch designed to prevent accidental operation of the ATO system. When the switch is in the SAFE position the system will not operate. When the switch is in the ARMED position, the ATO CONTROL circuit is completed to the fire switch.

A press-to-test READY light illuminates when the system is armed and ready to fire.

FIRE Switch

The pushbutton FIRE switch, located on the assisted take-off control panel, controls the operation of the ATO ignition circuits. When the ARMED-SAFE switch is in the ARMED position and the FIRE switch is depressed, 28-volt dc power from the ATO CONTROL circuit breaker energizes the ignition relay. Actuation of the ignition relay applies 28-volt, dc power from the main dc bus, through the ATO IGNITION circuit breaker on the copilot lower circuit breaker panel, to the ATO igniters.

WARNING

- Do not approach any ATO unit until 30 minutes have elapsed from a firing attempt. If smoke appears from an ATO unit, wait 30 minutes after smoke stops before approaching the ATO unit.
- With ATO unit igniters connected to the aircraft, do not expose any part of the body to the ATO unit nozzle assemblies.

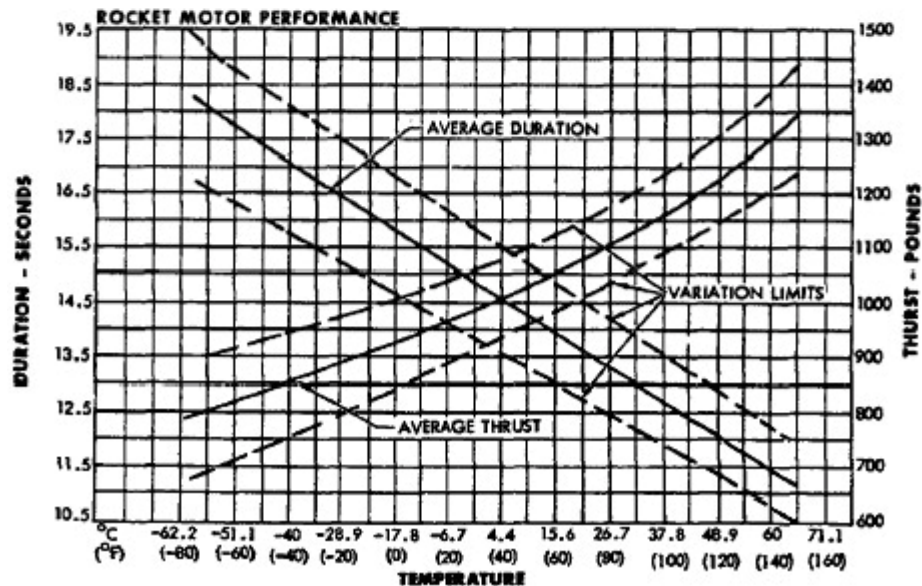
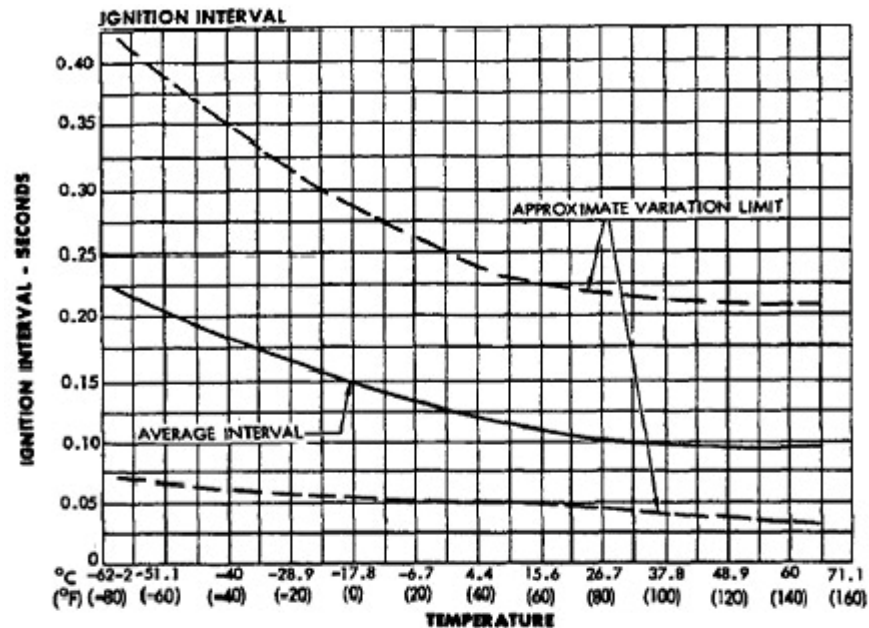
ASSISTED TAKE-OFF

When the variables influencing take-off lengths, acceleration, and obstacle clearance indicate a marginal take-off, the use of ATO is required. When considering the use of ATO, first consider the objective for a particular take-off condition.

The objectives, acceleration to nose gear lift-off speed, acceleration to take-off speed, or minimum roll to clear obstacles will dictate when to actuate the ATO fire switch. The 12 to 15-second duration of the ATO units will accomplish the objective when fired at a pre-selected airspeed in consideration of the objective.

The ATO units are predicated on the basis of burnout at 50 feet altitude. The units will be fired by the copilot at the command of the pilot.

Typical Effect of Temperature on ATO



CUSTOMER SUPPORT

TECHNICAL SUPPORT

Trouble with your game? Welcome to Technical Support Section:

<http://www.captainsim.com/cgi-bin/kb.pl>

ACCOUNT SUPPORT

Can't buy? Lost links, keys? Welcome to Account Support Section:

<http://www.captainsim.com/support/acss/>

DOWNLOADS

Looking for Free liveries, banners, etc... Welcome to Downloads Section:

<http://www.captainsim.com/support/dl/>

CONTACT US

For Press, Business and General Inquires please use Contact Us Section:

<http://www.captainsim.com/company/contact.html>

BUSINESS HOURS

Please use the online services or contact our team using the web forms that are available 24/7.

Our Office is happy to process hundreds of inquiries daily. But please note all inquiries are processed in European office. The office business hours are: Monday-Friday 7:00-16:00 GMT.

The support team usually responds within 24 business hours.

Thank you,

Enjoy your flight!

Captain Sim Customer Support Team

www.captainsim.com