

**DO NOT USE FOR FLIGHT**



**HERCULES**

### ABOUT THIS MANUAL

VERSION: 08 MARCH, 2006.

**WARNING: THIS MANUAL IS DESIGNED FOR MICROSOFT® FS2004 USE ONLY. DO NOT USE FOR FLIGHT.**

THIS 'KC-130 MODEL' MANUAL COVERS ONLY THE KC-130 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

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# 'KC-130 MODEL' MANUAL

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## **KC-130 AIRCRAFT**

The KC-130 is a multi-role, multi-mission tactical tanker/transport which provides the support required by Marine Air Ground Task Forces. This versatile asset provides in-flight refueling to both tactical aircraft and helicopters as well as rapid ground refueling when required.

Additional tasks performed are aerial delivery of troops and cargo, emergency resupply into unimproved landing zones within the objective or battle area, airborne Direct Air Support Center, emergency medevac, tactical insertion of combat troops and equipment, evacuation missions, and support as required of special operations capable Marine Air Ground Task Forces.

The KC-130 is equipped with a removable 3600 gallon (136.26 hectoliter) stainless steel fuel tank that is carried inside the cargo compartment providing additional fuel when required. The two wing-mounted hose and drogue refueling pods each transfer up to 300 gallons per minute (1135.5 liters per minute) to two aircraft simultaneously allowing for rapid cycle times of multiple-receiver aircraft formations (a typical tanker formation of four aircraft in less than 30 minutes).

Some KC-130s are also equipped with defensive electronic and infrared countermeasures systems. Development is currently under way for the incorporation of interior/exterior night vision lighting, night vision goggle heads-up displays, global positioning system, and jam-resistant radios.

## **'KC-130 MODEL' PACKAGE CONTENT OVERVIEW**

The 'KC-130 Model' package is available at [www.captainsim.com](http://www.captainsim.com) as an expansion to the 'Legendary C-130' base package.

The 'KC-130 Model' expansion package is fully compatible with both versions ('Standard' and 'Pro') of the 'Legendary C-130' base package and with the retail 'boxed' version of the C-130 published by Just Flight.

### **THE 'KC-130 MODEL' INSTALLATION WITHOUT C-130 BASE PACKAGE BEING PREINSTALLED**

The 'KC-130 Model' expansion package does not require any C-130 base package and can be installed to default installation of the MS FS2004.

In this case user will get the following KC-130 setup:

- Original Captain Sim C-130 Flight Model (aircraft.cfg and .air files)
- Original Captain Sim set of KC-130 Models
- Sound - Alias to default Beech King sound
- Panel - Alias to default B747 panel
- No textures in VC
- No gauges in VC

## **MODELS AND LIVERIES**

### **MODELS**

Upon installing the **KC-130 '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

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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 'KC-130' MODEL DIFFERENT FROM THE 'C-130E' MODEL**

Fuselage Tank



Inflight Refueling Pods (2)



Ground maintenance Doors Position



New Antennas (5)



SKE Radome



Modified Aft Door Windows



**LIVERY**

**PACKAGE LIVERY**

The U.S. Marine Corps livery is included in the package.

**Note:**

The KC-130 model textures are compliant with C-130E model textures. You can install and any C-130E livery (package or freeware) to use with KC-130 model.

**REPAINT KIT**

No special KC-130T model Repaint Kit required. Please use the C-130E (base package) Repaint Kit.

**FREE LIVERIES**

Many freeware liveries for the C-130 are available online in [Free Downloads Section](#).

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**MISCELLANEOUS FEATURES**

**INFLIGHT REFUELING SYSTEM**

**Note:**

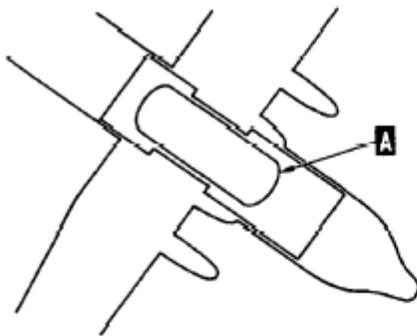
Description texts shown in gray color are provided for educational purposes only. These features are not modeled in the 'KC-130 Model'

The inflight refueling system consists of a 3,600 gallon capacity cradle-mounted fuselage fuel tank, two drogue-and-hose reels mounted in external pods, an auxiliary fuel control panel in the flight station, and the necessary plumbing and accessories to connect these components.

All inflight refueling fuel system controls are located on the auxiliary fuel control panel at the flight engineer station. The flight engineer station is connected by intercommunication circuits to two observer stations. The observer stations are located at the paratroop doors so that the observers may watch the refueling operation and report its progress to the flight engineer.

Fuel for transfer during inflight refueling is carried primarily in the fuselage tank. If additional fuel is needed, fuel can be transferred from the wing tanks into the fuselage tank and then to the receiver aircraft. Fuel also may be transferred directly from the wing tanks to the receiver aircraft, but this is normally done only when unable to refuel from the fuselage tank.

**FUSELAGE TANK**



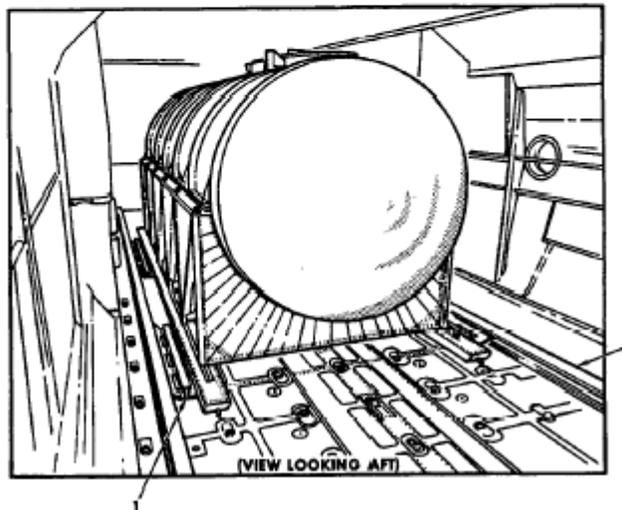
- 1. ADAPTER PLATES (4 REQUIRED)
- 2. RESTRAINT RAIL

The fuselage tank with a capacity of 3,587 gallons of usable fuel, is mounted on, and secured by straps to a cradle which in turn is secured by adapter plates which lock into the siderails.

When refueling in flight, all except approximately 75 gallons of fuel can be transferred to receiver aircraft.

When operating the engines from the fuselage tank, all except approximately 5 gallons can be used. Tank refueling is accomplished through the single point refueling system and the fuel-level control valve installed in the tank.

Fuel for inflight refueling is pumped from the tank by two internally mounted electrically driven pumps rated at 300 gallons per minute. These two pumps discharge fuel into a common line through the tank aft access cover to the inflight refueling manifold. The inflight refueling pumps are used also for fuel dumping.



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**INFLIGHT REFUELING PODS**

The two inflight refueling pods contain the hydraulically operated reels and associated plumbing. To facilitate extension and retraction of the hose, the pod is recessed to allow freedom of entry for the reception coupling and drogue.

This recessed port, located on the aft bottom of the pod, is designed to allow retraction of the drogue without interference between the paradrogue and the conical end of the pod.

**AUXILIARY FUEL CONTROL PANEL.**



**Reel Control POWER Switches**

Two two-position (ON, OFF) reel control POWER switches, one for each reel, are located on the auxiliary fuel control panel.

The POWER switch must be in the ON position in order to supply power to operate the reel fuel valves, the IFR pumps, and to trail the drogues.

**Reel Control Switches**

Two two-position (TRAIL, REWIND) reel control switches are located on the auxiliary fuel control panel. These switches are used to trail and rewind the drogues for normal operation. With the reel control POWER switches ON, the drogues will extend when the reel control switches are placed to TRAIL. The drogues will retract when the switches are placed to REWIND.

**C-130 MODELS EXPANSIONS**

The following C-130 Models are available\*\* as separate commercial expansions to the 'Legendary C-130' package:

1. C-130J
  - USAF
  - Italian AF
  - RAF
2. C-130H
  - French AF
  - Japan AF
3. KC-130 (tanker)
  - US Marines (grey camo)
4. C-130T (with JATO)
  - US NAVY Blue Angels (Fat Albert)
5. C-130H-30 (stretched version)
  - Dutch AF
6. L-100
  - UN
7. AC-130 'Spectre'
  - USAF
8. C-130A (3-blade props)
  - USAF (60-s bare metal)
9. LC-130H (on skis)
  - US NAVY (polar)
10. NC-130H (AEW&C)
  - US Space Command
11. 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>

\*\* Please check [www.captainsim.com](http://www.captainsim.com) for availability updates.

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## **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](http://www.captainsim.com)