

Super Huey X 2012 Manual

This manual is for Microsoft Flight Simulator. Not intended for real world use!

TIPS:

These models come fully loaded with passengers, cargo and injured. So save a flight after you adjust fuel and passengers load. This allows you to start empty or what ever you like. Resetting the aircraft during a flight will add weight for picking up passengers. Be aware so you can use this to your advantage rather than a surprise.

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1. Installation:

Double Click the yellow piper exe.

Have your registration code copied into your clipboard. This will input your registration code automatically.

This installer auto finds you fsx game no matter where it is!

Our models are located under Flysimware as the manufacturer in the game.

2. Description:

Bell 205A-1....Civil or military utility transport helicopter version, initial version based on the UH-1H. Powered by one T53-13A, max weight 9,500 pounds (10,500 for external loads), max passengers, 14.

Super Huey UH-1D Iroquois....The new Huey was designated UH-1D by the US Army and as the Model 205 by Bell. The enlarged cabin could also accommodate six stretchers, double that of the earlier models, making the "Delta" a good MEDEVAC aircraft. In place of the earlier model's sliding side doors with a single window, larger doors were fitted which had two windows.

Super Huey HH-1D....Army crash rescue variant of UH-1D.

The Super Huey was designed for prepar 3D and FSX, but sold separately. If you like lot's of realism, this is your new baby! With 3 generators and a fire suppression system, you can recover from many failure types or extinguish that engine fire ASAP. The payload manager can hold up to 10 passengers, cargo and 1 injured passenger. Cabin interior lights really brighten up the whole rear cabin. The HSI allows you to switch from slaved or un slaved from the magnetic compass. The HSI can mimic your ADF needle and still show your navigation heading. Your control panel keeps you updated and controls all your odds and ends. We even added a siren to annoy the neighborhood. These models were tested by a real helicopter pilot.

We hope you enjoy this product for many years!

3. Animation & Tooltips:

Tooltips: (Most gauges and knobs have a tooltip for good information!)

Animation:

Most clickable switches and levers use the mouse wheel too. The mouse wheel speeds up the animation.

Switches:	Left click/Mouse Wheel
3 Way Switches:	Left click/Right click/Mouse Wheel
Toggle switches:	Left click/Mouse Wheel
Levers:	Left click/Mouse Wheel
Analog Gauge Knobs:	Left click/Right click/Mouse Wheel
Doors:	Left click/Mouse Wheel
Reset switches:	Right Click Reset/Left Click Toggle
3 way Return Switches:	Left click/Right Click

All standard keyboard shortcuts work as well. The aircraft is designed to use the VC for more realism. So we suggest using the mouse for all lights and major functions. But feel free to use joystick buttons for your standard keys.

4. Aircraft Modes / Failures:

Off mode: Battery OFF / STBY GEN OFF (Overhead panel)

Maintenance mode: GPU ON (Control panel)

STBY GEN ON (Overhead panel)

Operational mode: Battery on / GPU off

MAIN GEN ON (Overhead panel)

Fire suppression is located on the control panel. In case of an engine fire (set by you on failures) The fire extinguisher on the control panel will turn red and show white smoke. Press once and wait 30 seconds. The sound of the fire is gone and the fire is out. This system only works once until you reset the flight.

If you get a generator failure during flight, switch the MAIN GEN to STBY GEN. This will show DC power on your DC voltmeter when your VM switch is located in the STBY GEN position. The VM switch is located in the DC section on the overhead panel. When in parked mode switch to STBY GEN to start the ground power unit. The control panel will show a lightning bolt on your GPU. Opening the doors does not give you power. Switch the non-ess bus to Manual ON, located on the DC control panel.

All standard failures work as they should.

5. All Functions:

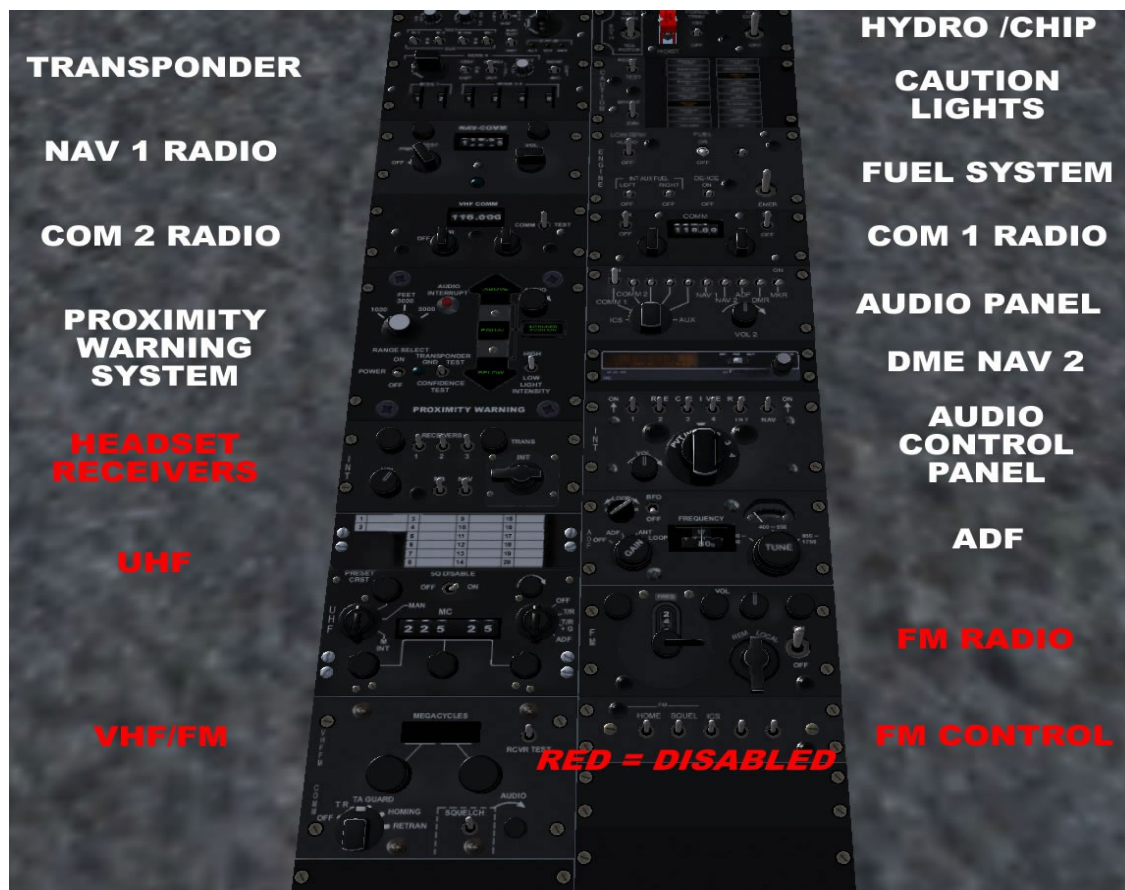
PANEL:



1. Airspeed indicator
2. Attitude Indicator
3. Altimeter Indicator
4. Radio Compass Indicator
5. Vertical Speed Indicator
6. Co-Pilot Gyro Power Switch
7. Warning Lights (APU, FUEL, ENG, GEN FIRE, ENG FIRE, RPM)
8. Fire Warning Test Switch
9. Fuel Test Switch / Warning Lights Test Switch
10. Fuel Pressure
11. Main Gen Load
12. Stby Gen Load
13. Fuel Quantity Indicator
14. Eng Temperature
15. Transmission Temperature
16. DC Voltmeter (Displays Batt, Main Gen, Stby Gen, ESS, NONESS)
17. AC Voltmeter (Display both Inverters)

- 18.Warning Lights (Air Filter Clog, No Go, Speed Brake)
- 19.Hydraulic Lamp
- 20.magnetic Compass Synchronization Switch / Slave-Unslave
- 21.Dual Tachometer
- 22.Torque indicator
- 23.Eng Rpm
- 24.Exhaust Gas temperature Indicator
- 25.ADF Lamp
- 26.ADF Indicator
- 27.Turn And Slip Coordinator
- 28.Omni Indicator
- 29.Marker Audio Switch
- 30.Magnetic Compass
- 31.Analog Clock / Trip Timer
- 32.Marker Volume
- 33.Cargo Lamp

PEDESTAL :



1. Transponder (Section 13. Transponder)

2. Nav 1 radio

3. Com 2 radio

4. Headset receivers

5. Ultra High Frequency (UHF)

6. Very High Frequency / Frequency Modulation (VHF/FM)

7. CHIP DET / Cable cutter / Forced Trim / Hydraulic Switch

8. Test caution switch / Dimmer switch / Caution lights

9. Fuel System: RPM warning switch / Fuel switches / Aux tanks / Emergency Gov

10. Com 1 Radio

11. Audio Panel

12.DME NAV 2 only (**Section 12. Distance Measuring Equipment**)

13.Audio Control Panel

14.ADF (**Section 10. ADF**)

15.Frequency Modulation (FM)

16.Frequency Modulation Control

RED=DISABLED

OVERHEAD PANEL:



1.Avionics switch

2.Main circuit breaker panel (lower circuit breaker on side of pedestal)

3.Panel lights (Knobs will turn at the same time)

4.Spare on / Normal on

5.AC voltmeter selector **AB, AC, BC** (**average 115 Vac**)

6.Main generator power switch (Protected cover)

7.NONESS BUS (Manual on / Normal on)

8.Starter generator (GEN start / STBY GEN)

9.Battery switch

10.Dome light (left dome / right NVG)

11.Pitot heater switch

12.Steady / Flash (navigation lights)

13.Dim / Bright (dimmer switch)

14.Anti collision switch (beacon lights)

15.Co-pilot / pilot wiper selection

16.Wipers selector includes: (Park, off, low, med, high)

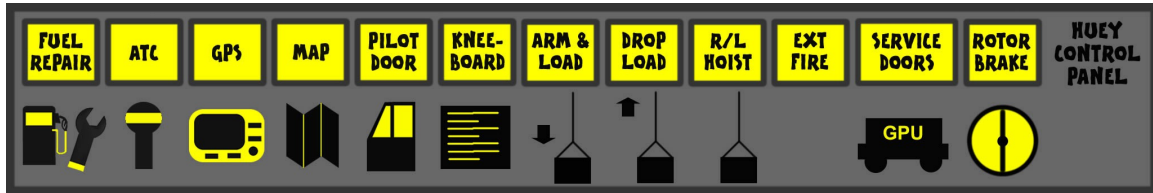
17.Cargo release switch

18.Bleed air (lets warm air in for cabin and defroster)

19.AFT air (lets air out of the cabin)

==CONTROL PANELS==

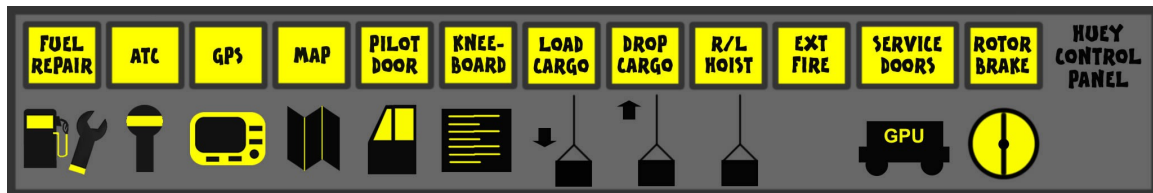
CONTROL PANEL 205A-1 Fire CDF bucket or tank:



Bucket & Tank Instructions :

- Click R/L hoist so arrow is down.
- Get low enough so bucket is under water.
- Click arm & load.
- Click R/L hoist so arrow is up.
- Click and hold drop load to see water dropping, once you release water in bucket is gone.

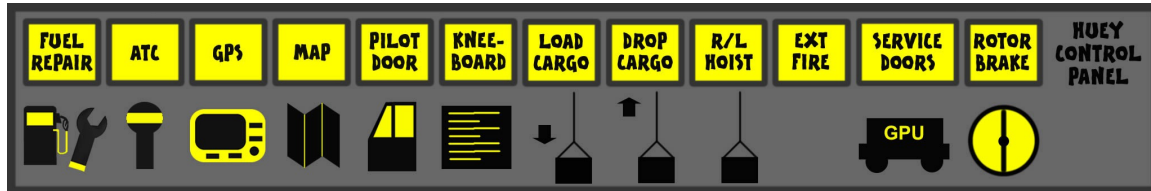
CONTROL PANEL UH-1D Rescue Basket:



Basket Instructions :

- Open door 4 (Shift + 4)
- Click R/L hoist to lower and raise hoist
- Click load or drop cargo to load a human in basket.

CONTROL PANEL UH-1D TRANSPORT/MEDICAL:



Hoist Instructions :

- Click R/L hoist to lower and raise hoist
- Click load or drop cargo show the cargo on the hoist.

CONTROL PANEL 205A-1 CIVILIAN/SKY NEWS:



STANDARD FUNCTIONS

6. Start-up/Shut-down:

PRE-ENGINE STARTING

1. Avionics-On.
2. Starter Gen switch-STBY GEN
3. Systems-Check as follows:
 - a. Engine
 - b. Transmission
 - c. Electrical (AC-112 to 118 volts) (DC-27 volts)
4. RPM-6600
5. Fuel control
 - a. Gov RPM INCR/DECR switch-DECR to 6000 rpm.
 - b. Collective pitch-Increase slowly until helicopter is light on the skids. Do not exceed 94 percent N1 or torque limit.
 - c. RPM-Check for the following

RPM remains at 6000 (no bleed-off) or if bleed-off occurs but returns to 6000 within 4 seconds, the fuel control is acceptable.

RPM bleed-off occurs but does not return to 6000, the fuel control is not acceptable and the helicopter shall not be flown.
 - d. Collective pitch full down.
 - e. GOV RPM INCR/DECR switch to 6600 rpm.
6. Health Indicator Test

Right click for fuel valve open / left click to close

In the real world the switch is spring loaded forcing you to switch up to free up the lock to switch down. So you are forced to right click!

Closing the valve will stop fuel from reaching the turbine. This is your only way to stop the rotor. According to the manual there is no speed brake, so i have supplied one in the control panel.

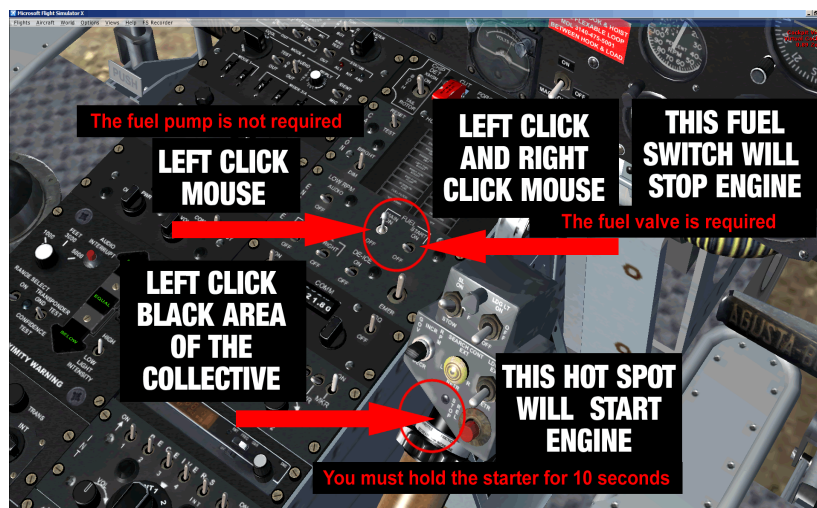
7. MAIN GEN switch-OFF. Check DC voltmeter for 26 volts at 26°C and above; 27 volts from 0°C; and 27.5 volts below 0°C. The DC GENERATOR caution light should illuminate and the standby generator load meter should indicate a load.
 8. NON-ESS BUS-Check as required. If equipment powered by nonessential bus is installed, accomplish the following:
 - a. VM switch-NON-ESS BUS.
 - b. NON-ESS BUS switch-MANUAL ON. Check DC voltmeter for the same DC volts as in step 7 above.
 - c. Deleted.
 - d. VM switch-ESS BUS.
 9. MAIN GEN switch-ON and guard closed. The DC GENERATOR caution light should be out and the main generator load meter should indicate a load.
 10. STARTER GEN switch-START
 11. DE-ICE Switch-ON Check for EGT increase, then OFF. EGT should increase.
 12. Throttle-Off.
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TROUBLESHOOTING THE STARTUP!

MAKE SURE THE BATTERY SWITCH IS ON.

MAKE SURE THE FUEL VALVE SWITCH IS ON.

HOLD THE MOUSE FOR 10 SECONDS WHEN CLICKING THE HOTSPOT ON THE COLLECTIVE STARTER SWITCH.



7. Electrical:

DC and AC Power Distribution:

The dc power is supplied by the battery, main generator, or the external power receptacle. The 115 Vac power is supplied by a transformer which is powered by the inverter.

DC Power Supply System:

The dc power supply is a single conductor system with the negative leads of the generator grounded in the helicopter fuselage structure. The main generator voltage will vary from 27 to 28.5 depending on the average ambient temperature. In the event of a generator failure the nonessential bus is automatically de-energized. The pilot may override by switching the non-ess bus (Located on the DC control panel) to manual on. Switch the MAIN GEN to STBY GEN.

External power Receptacle:

The external power receptacle transmits the ground power unit 28 Vdc power to the power distribution system. A 7.5 KW GPU is recommended for external starts.

GPU:

Gpu power is active when you turn the STBY GEN ON and THE NONESS BUS is MANUAL ON. A lightning bolt will display on the GPU in your control panel. The DC voltmeter will display GPU power only when the VM knob is located in the STBY GEN position.

VM Voltmeter Selector:

Is located in the dc section on the overhead panel. The VM selector determines what voltage is displayed on the dc voltmeter located on the main panel. The VM will display BATT, MAIN GEN, STBY GEN, ESS BUS and NONESS BUS.

AC Voltmeter Selector:

The AC PHASE VM switch is located on the AC POWER control panel. The switch is used to select any one of the 115 Vac three-phase, current for monitoring on the ac voltmeter. The three positions on the switch are: AB, AC and BC. Each indicates a phase of 115 Vac on the ac voltmeter.

Voltmeters:

(All located on the main panel)

DC VOLTAGE METER: Displays DC voltage (24 to 28 volts)

AC VOLTAGE METER: Displays AC voltage (112 to 118 Vac)

AB, AC, BC (average 115 Vac)

MAIN GEN LOAD: Displays generator load (28 amps)

STBY GEN LOAD: Displays standby generator load (28 volts)

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Avionics switch is located on the back of the overhead circuit breaker.

Battery is located next to the Main Generator on the over head panel.

8. Fuel System:

Fuel power: Fuel pump power switch (Engine Pedestal)

Fuel on/off: Cuts fuel supply (Engine Pedestal)

Left aux Switch: Burns fuel on this tank (Engine Pedestal)

Right aux Switch: Burns fuel on this tank (Engine Pedestal)

20 Minute fuel warning: Caution light (Pedestal)

Aux caution lights: Caution light (Pedestal)

Center fuel gauge: (Panel)

Fuel test switch: Fuel needle lowers reading (Panel)

With both aux tanks off you burn fuel from the main Center tank. When your 20 minute caution light is on you must switch to L or R aux tank. If your fuel on L or R aux is below 1% your aux caution light is on. If the light aux light turns on, switch over to the opposite Aux side. You now have about 10 minutes to land. Using the aux tanks is for an emergency only!

9. Lights:

Exterior: 2 nav green (right side)

Exterior: 2 nav red (left side)

Exterior: 2 nav white (rear tail)

Flash switch on (located on your overhead) will cause all 6 nav lights to flash and show steady at the same time. left click for steady and right click for flash.

Interior: Nav lights STEADY/FLASH (overhead panel)

Interior: Panel lights (overhead panel)

Interior: Spot light (collective lever)

Interior: Spot light dir switch (collective)

Interior: Landing light switch (collective)

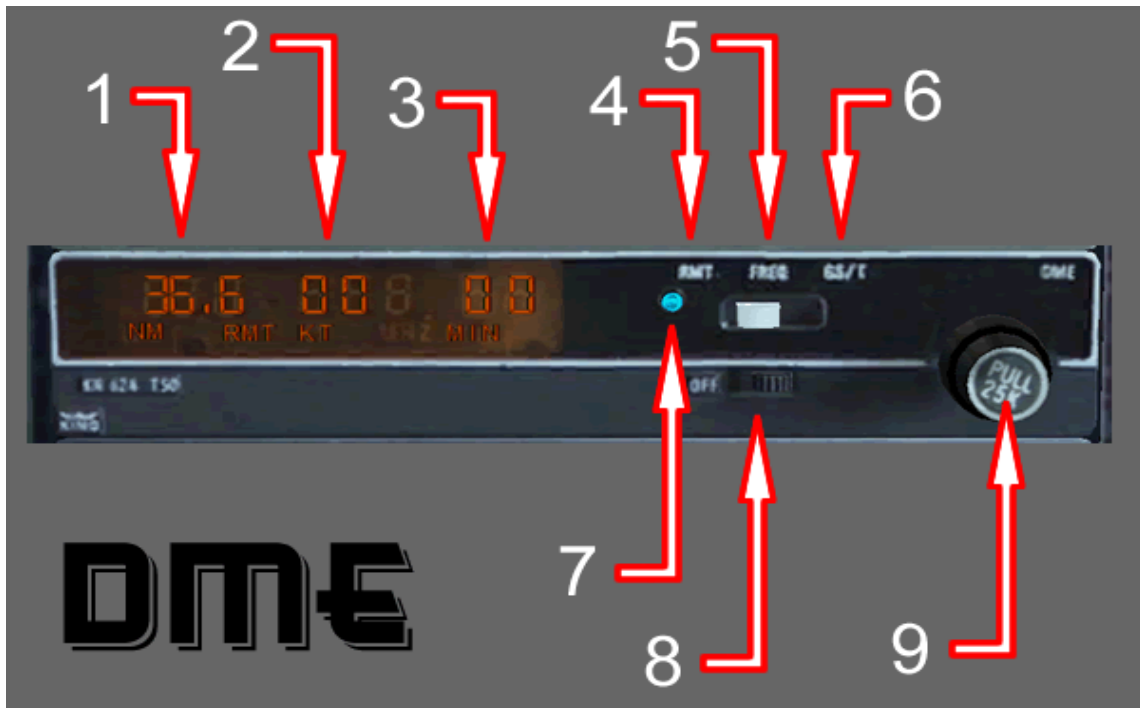
Interior: EXTENT/RETRACT Landing light (collective)

Cabin and NVG share a return switch

Interior: Night Vision Green (overhead panel)

Interior: Cabin (overhead panel)

10. Distance Measuring Equipment:



1. Nautical Miles Display
 2. Airspeed Knots Display
 3. Minutes ETA Display
 4. RMT Mode (Displays your Knots and estimated time arrival)
 5. Frequency (Displays VOR NAV 1 frequency)
 6. GS/T (Locks VOR Frequency for approach)
 7. DME Lamp (Lights on active VOR)
 8. Power Switch
 9. Back Tuner Knob: (Tunes Nav 1 by one MHz) Mouse L R or Wheel
 10. Front Tuner Knob: (Tunes Nav 1 by 25 KHz) Mouse L R or Wheel
 11. Front Tuner Knob: (Push Knob for freq Swap) Click Wheel
-

11. Transponder:

<http://www.youtube.com/watch?v=JCU8sWkQciE&feature=relmfu>

12. Proximity Warning System:

<http://www.youtube.com/watch?v=IfSd9tZG7IM&feature=relmfu>

13. Uninstall:

Go to start, all programs and look for the folder called Super Huey FSX. Inside is your uninstall exe. Or go to control panel/add and remove programs.

NOTE: (If you own more than 1 of our planes, you need to:)

Tip: re-install one of our "older" products to update the sound package.

14. Testing:

Tested on Microsoft Flight Simulator FSX
SP2 / Acceleration / Prepar3D
