

# ***JET CITY AIRCRAFT***

PRESENTS

## **JET CITY COLLECTIONS: THE DC-9**

For Use with  
*Microsoft Flight Simulator 2004: A Century of Flight*  
or  
*Microsoft Flight Simulator 2002*



### **THE DC-9 SERIES 30**

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The DC-9 Collection showcases America's first short-haul jetliner and twinjet workhorse, the McDonnell Douglas DC-9, and features a 5-part release covering the entire DC-9 product line from the Series 10 through the Series 50.

The aircraft included in this release is the DC-9 Series 30. As with all of our aircraft releases, this product features "full line" development, meaning all models and variants of a given aircraft type are represented. For the DC-9 Series 30 release, we have included all models and variants offered by the manufacturer -- the Series -31, -32, -33, -34, -32F, -33F, -33C, -34C and C-9 -- in their appropriate passenger, freighter, or combi configurations, each with their own unique flight dynamics and factory installed and aftermarket options.

The repaints that we provide are paired up with the correct aircraft model to ensure that the plane you fly is the same as the one the real airline flew. In addition to the repaints offered in the base package, you can download all your favorite repaints by visiting our DC-9 Series 30 Product Support page on our web site. As with all Jet City Aircraft repaints, the ones for the DC-9-30 are completely free of charge.

Our DC-9 aircraft are feature-rich enough to fly on their own, yet inexpensive enough to accompany, enhance, or upgrade your existing freeware or purchased panel and sound packages. Flight One *Iron Knuckles DC-9* owners will be pleased to know that the Jet City DC-9 seamlessly integrates with the Iron Knuckles package, allowing you to take advantage of their excellent panel, sounds, and even the virtual cockpit.

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#### **THE DC-9 SERIES 30 – AN OVERVIEW**

First proposed in 1947 as a twin engine piston-powered airplane, the DC-9 grew out of the desire of the Douglas Aircraft Company to build a successful replacement for the DC-3. Over the years the DC-9 designation was applied to a number of designs, from various four engine turboprops to a miniature DC-8 design with either two or four engines.

In the end, the chosen design was that of a jet powered airplane that sat low to the ground with two engines mounted on the rear of the fuselage and featured a "T" shaped tail.

Fuselage of the Series 30 DC-9, actually second developed, is nearly 15 feet longer than the Series 10, at 119.3 feet (36.3 m), providing seats for up to 115 passengers and cargo space to 895 cubic feet. Series 30 wingspan was increased to 93.3 feet (28.4 m), and a high-lift wing system of leading edge slats gives the Series 30 excellent short-field performance. The first of the type began airline service in February 1967.

Most of the Series 30s are powered by either JT8D-7 or JT8D-9 engines. Others are equipped with JT8D-11 or the JT8D-15, with 15,500 pounds of thrust. The Series 30 is the most widely used member of the DC-9 family, accounting for approximately 60 percent of the entire fleet.

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## INSTALLATION

To install the Jet City DC-9-30 package, run the program "JCA\_DC-9-30\_Setup.exe" and follow the on screen prompts. After reading and acknowledging acceptance of the terms of the EULA, the installer will attempt to locate your FlightSim installation folder to help simplify the installation process. Simply follow the prompts and your aircraft will be installed in moments.

Our aircraft do not feature a virtual cockpit, but instead provide a spectacular view of the wings, which is great for replaying those perfect landings! By default the pilot's viewpoint is set to be from the cockpit, so if you would like to use the "wing view" option, you will need to move the viewpoint closer to the wings to get a better view of them in flight. To do this, simply open the aircraft.cfg of the airplane you want to change and edit the [VIEWS] section using MS Notepad. We have included simple instructions inside the aircraft.cfg file for changing viewpoints.

If you have the *Iron Knuckles DC-9* from Flight One Software and would like to use the 2D panel and sounds from that package, as well as activate the 3D virtual cockpit, you need to run the special merge application called "Jet City DC-9-30 Merge". A shortcut to this file is provided in the "Jet City Aircraft" folder in your Windows start menu (e.g. click "Start", then "All Programs" then "Jet City Aircraft" then "DC-9 Series 30").

There are three options available from within the merge application. The first option, "Default Jet City Setup" uses the default settings which include the panel and sounds from the default 737-400 that comes with *Microsoft Flight Simulator 2004* and wing views in place of a virtual cockpit. The second option, "Merge With Flight 1 Iron Knuckles DC-9" will set up your aircraft to use the 2D panel and sounds from the *Iron Knuckles* package, as well as the virtual cockpit. The third option, "Use Virtual Wing View" will use the *Iron Knuckles* 2D panel and sounds (but not the virtual cockpit) while retaining the Jet City wing views. You can switch between these three options at any time by running the merge application.

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## SETTING UP THE AIRCRAFT

The Jet City Aircraft DC-9 Series 30 has several unique animations, including opening doors and animated ground service equipment. In order to use them all, it is necessary to assign some key commands that are not included by default in the simulator. Below is a list of these special animations and the key commands used to operate them. For those animations that do not have assigned commands by default, we have listed what command you will need to assign key strokes to in order to view the animations.

Forward Left Passenger Door	"Shift" + "E"
Forward Right Service Door Animated Catering Truck Aft Stairs Extend/Retract (If Equipped)	Tail hook up/down **
Forward and Aft Lower Cargo Doors Animated Bag Loaders Main Deck Cargo Door (If Equipped) Animated Cargo Loader (If Equipped)	Wing fold/unfold **
Forward Stairs Extend	Extend Concorde Nose and Visor Fully **

Forward Stairs Retract	Retract Concorde Nose and Visor Fully **
Wingtip Landing Lights Extend/Retract	"Shift" + "W"

\*\* These items are not assigned by default, so you will need to assign them manually. To do this, start the simulator and from the toolbar, select "Options", then "Controls", then "Assignments". In the "Event Category" box, select "All Commands". You can now scroll through the list of settings and assign keystrokes and/or joystick buttons for the items listed in the table above. Make sure that you do not confuse "Increase (or Decrease) Concorde Nose/Visor Angle" with the "Extend (or Retract) Concorde Nose and Visor Fully." Select the options that have the exact phraseology as listed in the table. When you have everything assigned, click "OK" and you're ready to go!

**Please note that based upon factory installed options chosen by the originally ordering airline, aftermarket modifications, and individual airline operations, not all aircraft models feature all of the available doors, ground service equipment, or aft stairs. If the key stroke is assigned properly and the commanded door/ground equipment does not function, then that particular option is not available for that specific aircraft.**

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## FLYING THE DC-9

We won't go into great detail here, but there are a few things to remember when flying the Jet City Aircraft DC-9 Series 30.

This aircraft features accurate aircraft loading information and the ability to customize the passenger, cargo, and fuel loads for each flight. This is accomplished by using the aircraft payload feature of Flight Simulator 2004. Every time you fly a Jet City airplane, you can specify the weight of the passengers and cargo, and even change the combi aircraft from an all-passenger configuration to a mix of passengers and cargo.

Remember that this airplane was introduced in the 1960s, and the Pratt & Whitney JT8D engines offered on the DC-9 were not as powerful as what you may be accustomed to on today's airliners. Knowing this, it is of great importance to watch your aircraft weights and always plan ahead.

The real DC-9 came in several variants, and ours do, too. Each model has its own unique flying characteristics, so don't expect each plane you download to perform the same! For example, you'll find that the Series 31 is a much lighter and more nimble than the Series 34. Do not expect a fully loaded airplane to climb at 3000fpm directly to 31,000 feet; it won't do it.

Like most other T-tailed, rear-engine aircraft, the DC-9 has the ability to push back from a gate without the use of a tug. The process is called a "Powerback" and it uses reverse thrust to move the plane backwards. The process is not approved at all airports, but you do have the option to powerback in the simulator as our DC-9 has that capability.

Overall, the DC-9 Series 30 is a capable performer, and a fairly nimble aircraft to fly. We hope you enjoy flying it as much as we do!

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## TERMS AND CONDITIONS OF USE

**BY INSTALLING THIS SOFTWARE YOU ARE AGREEING TO ALL TERMS AND CONDITIONS LISTED BELOW. IF YOU DO NOT AGREE TO ANY OF THESE TERMS DO NOT INSTALL OR USE THIS SOFTWARE.**

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## ACKNOWLEDGEMENTS

We at Jet City Aircraft would like to thank Steve Halpern and the fine folks at Flight One Software for their assistance and continued support. Additionally, we would like to show our appreciation to the designers of the Iron Knuckles DC-9 package for providing an excellent panel and sound package for the DC-9 and for the inspiration for us to develop the complete DC-9 product line to compliment their product.

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## PRODUCT SUPPORT

If you need assistance with the Jet City Aircraft DC-9-30, please visit our Jet City Forums and review the **Frequently Asked Questions** section and the **DC-9 Product Support** area. Our staff frequently monitors the forums, and those messages in the Product Support areas are addressed with the highest priority, so you will most certainly receive a quick response.

If you would prefer to e-mail us, you can do so at... [customer\\_support@jetcityaircraft.com](mailto:customer_support@jetcityaircraft.com)

We do tend to discourage e-mail support because the forum support allows for a much more immediate response, but we'll leave the option up to you. With that in mind, please realize that the time it takes to get you an answer via e-mail will vary due to the volume of mail that we receive. Our goal is to get back to you within 12 hours, however, so hang tight and we'll get you all fixed up as soon as we can.

**Please note that we do not accept or acknowledge requests for aircraft or repaints via email.**

You can also find product updates, enhancements, documentation, and dozens of official Jet City repaints at the **DC-9 Series 30 Product Support** page.

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## **AIRCRAFT REPAINT POLICY**

Users are free to repaint the DC-9 airliners provided a few simple conditions are met:

- 1) Abide by all rules and procedures established in our **Repainter Support** area in the Jet City Forums. If you are unsure about any of our policies, please do not hesitate to ask us for clarification.
- 2) Understand that Jet City Aircraft provides no email support for third party repaints.
- 3) Please do not repaint a livery that has already been completed by Jet City Aircraft painters (unless we've really messed one up!). We are certain that folks would appreciate new liveries rather than duplicates of ones that are already available.
- 4) Repainted textures can be made available for free download at any of the major flight simulation libraries, particularly [www.avsim.com](http://www.avsim.com) and [www.flightsim.com](http://www.flightsim.com), although uploads to [www.fsplanet.com](http://www.fsplanet.com) are strictly prohibited.

An official repaint kit will be available for this aircraft on the DC-9 Series 30 Product Support page at our website. We have tried to keep the repaint process as easy as possible and we offer a **Repainter Support** area in our Jet City Forums to assist you in preparing and properly distributing your repaints. For those individuals wishing to repaint our planes, we appreciate your efforts and look forward to seeing your creations!

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We thank you for purchasing The DC-9 Series 30 collection and hope you enjoy the aircraft! Be sure to take advantage of the other aircraft we have available, and be on the lookout for some very exciting future projects from us as well.

Enjoy!

**THE JET CITY AIRCRAFT TEAM**

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