

# Product guide

## Step by Step



### Tutorial

## Japanese Radial Engines WWII

During WWII, the Japanese aeronautic industry employed a standard radial engine for almost all their designs, with the only exception of a few models. This guide will be very useful for painting most of the engines of the models of the Army or Navy of the Japanese Imperial Army (IJA & IJN).

By Pieza a Pieza Modelling Workshop



1 First an overall layer of Gunmetal Grey, Metal Color 77.720 is applied.



2 A wash with Black Wash, 73.201 will give depth to the assemblage.



3 Next, to balance it all, the base color Gunmetal Grey 77.720 will be applied with the dry-brush technique.



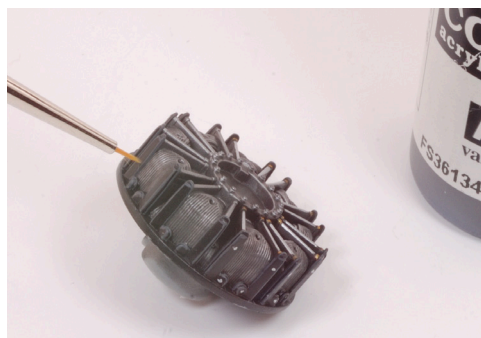
4 Continuing with the dry-brush technique, subtle shades are applied with Burnt Iron, Metal Color 77.721.



5 A last surface highlight is applied with color Duraluminium, Metal Color 77.702



6 The cover is painted with Black, Model Color 70.950.



7 The outline is profiled with Grey Green, Model Color 70.866.



8 The covers of the rods are given a golden color, in this case with Game Color 72.056.



9 Model Air color Aluminum, 71.062 is used for small details, such as screws, rods, rings, etc.



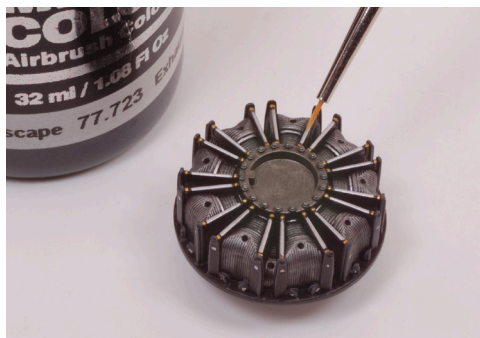
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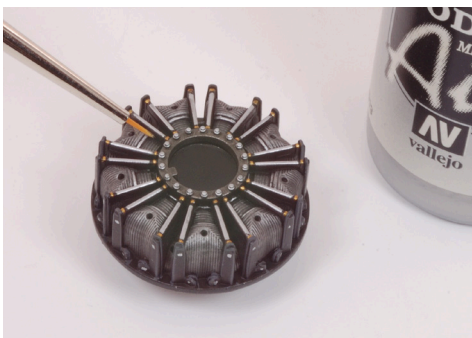


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- 10 The central block of gears is brush painted with Metal Color 77.723 Exhaust Manifold.



- 11 Aluminum, Model Air 71.062, was used for the bolts which close the central block.



- 12 Here a wash of Sepia 73.200 was applied to create the look of grease, oil and dirt.



- 13 The cover which connects the shaft of the propeller is given a layer of the base color Engine Gray, Model Air 71.048.



- 14 Model Air White 71.001 is used to lighten the previous color and to create volumes.



- 15 With a mixture of Black and Chocolate (70.950 & 70.984) all the contours and details are profiled.



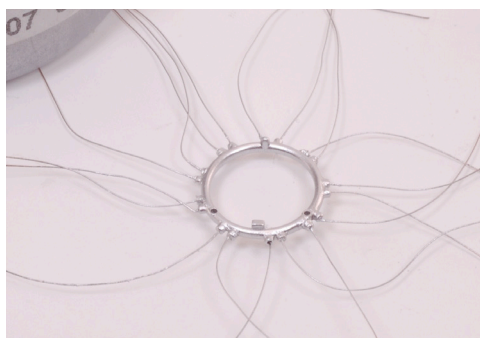
- 16 The volumes and small details are emphasized and minute scratches are applied, again with the mixture of the two references 71.048 + 71.001



- 17 Details of the pieces and bolts with the color references 71.062 + 77.716.



- 18 To finish these engine parts, the usual stencils are applied with the colors Black and Stencil, Model Color 70.950 and 70.313.



- 19 The circular ring which distributes the ignition cables of the spark plugs receives a brilliant layer of Chrome, Metal Color 77.707.



- 20 To imitate the aspect of these cables, the color Beige, Model Color 70.917 is ideal. With the Black Wash 73.201 all the details of the ring are profiled.



- 21 This color guide is standard for most of these particular engines which are found in the models of WWII Japanese aviation.