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1/72nd scale Mercury[™]-Atlas



"The conquest of space is such a fantastic, gorgeous and colossal subject, that it's hard to know where to begin."

James S. McDonnell, 1959 President, McDonnell Aircraft Corporation

In 1959, the race between the United States and the Soviet Union to conquest space was heating up, and NASA awarded the contract to the McDonnell Aircraft Corporation to build the Mercury capsule – the spacecraft that would fly the first American Astronauts into space. After an exhaustive test program, and under pressure to beat the Soviets, the Mercury spacecraft flew its first orbital flights on the Convair Atlas SLV-3D booster, a derivative of the successful SM-65D Atlas missile. Four brave American Astronauts flew these dangerous missions, where the temperatures outside their spacecraft reached over 1,000 degrees Celsius upon re-entry. The Mercury missions were a success proving that man could travel safely into space, paving the way for more ambitious programs that included landing on the moon.

Specifications: Mercury Atlas SLV-3D

Length: 96.9 feet (29.5 metres) with Mercury[™] Capsule

81.9 feet (25.0 metres) with Mercury™ Boilerplate

Diameter: 10 feet (3.05 metres)

Weight: over 260,000 lbs (118,000 kg)

Engines: Two LR-89 boosters with 150 Klbs thrust each

One LR-105 sustainer with 57Klbs thrust Two LR-101 verniers with 1Klbs thrust each

Mission Summary

All missions were launched from Cape Canaveral Launch Complex 14

Mission	Capsule	Atlas	Launch Date	Orbits	Duration	Astronaut	Call sign
Big Joe	Boilerplate	10D	Sep 09, 1959	0	0:13:00	*	*
MA-1	Porthole	50D	Jul 29, 1960	0	0:03:18	*	*
MA-2	Porthole	67D	Feb 21, 1961	0	0:17:56	*	*
MA-3	Porthole	100D	Apr 25, 1961	0	0:07:19	*	*
MA-4	Porthole	88D	Sep 13, 1961	1	1:49:20	*	*
MA-5	Window	93D	Nov 29, 1961	2	3:20:59	Enos the Chimp	*
MA-6	Window	109D	Feb 20, 1962	3	4:55:23	John H. Glenn, Jr.	Friendship 7
MA-7	Window	107D	May 24, 1962	3	4:56:05	M. Scott Carpenter	Aurora 7
MA-8	Window	113D	Oct 03, 1962	6	9:13:15	Walter M. Shirra, Jr.	Sigma 7
MA-9	Window	130D	May 15, 1963	22	34:19:49	L. Gordon Cooper, Jr.	Faith 7





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WARNING

CHOKING HAZARD: KEEP AWAY FROM CHILDREN UNDER THREE YEARS OF AGE.

DO NOT USE PAINTS OR GLUES NEAR FLAMES OR FIRE, OR WITHOUT ADEQUATE VENTILATION.

This model is intended for ages 14 and older.

Beware of small and/or sharp parts.

Throw away plastic bags when no longer required.

PAINT AND GLUE NOT INCLUDED

Use paints and glues in a well ventilated area.

Take care when handling knifes and other sharp objects.

Assembly

- Study these instructions carefully before assembly and note the payload and marking options that you will build.
- Remove the parts from the sprue one at a time with a sprue cutter, and carefully sand off any excess plastic.
- Test fit the parts to ensure they fit correctly, then glue into place using polystyrene glue. When attaching PE parts, use a cyanoacrylate glue.
- Some parts should be painted prior to gluing to the main assembly.
- 5 Before painting, carefully sand the model if required, then wash it in a soapy solution.
- Allow to dry thoroughly before applying paint.
- Paint the model in a well ventilated area, and allow to dry thoroughly. 7
- 8 Apply the decals (see instructions below).
- Seal the decals with a clear coat of paint (allow at least one day for the decals to dry thoroughly).

Applying Decals

- Cut the decal from the carrier sheet.
- 2 Dip the decal into water for about 10 seconds.
- Place the decal on a cloth to absorb excess moisture. 3
- 4 Wet the model where you want to place the decal.
- 5 Slide the decal from the backing paper directly onto the model.
- Do not lift the decal off the sheet as this may cause it to fold. 6
- 7 Once positioned correctly, press the decal gently with a soft cloth.

Horizon Models Pty Ltd

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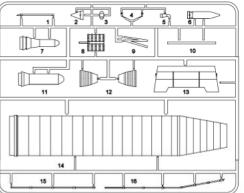
Drummoyne NSW 2047

Australia

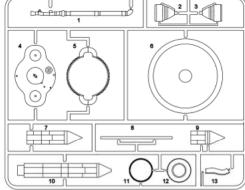
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MADE IN AUSTRALIA

Sprue A (x2) Parts A7 & A11 not used



Sprue B Part B9, B11 & B12 not used



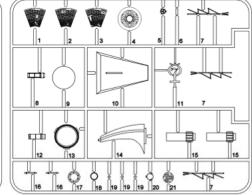
- Liquid oxygen line
- 2 Sustainer engine (left half)
- 3 Sustainer engine (right half)
- 4 Fire shield nacelle
- 5 Thrust structure fairing (upper)
- 6 Display stand
- 7 Equipment pod (medium)
- 8 Cable way fairing (lower)
- Equipment pod (not used)
- 10 Equipment pod (long)
- 11 Mk 2 re-entry vehicle (not used)
- 12 Nose cone adaptor (not used)

10

11

Booster engine turbine exhaust duct 13

Sprue M Parts M10, M11 & M14 not used



- Capsule section 1
- 2 Capsule section 2
- Capsule section 3 4 **Boilerplate Capsule**
- Escape rocket base
- 6 Rocket adaptor part
- Escape tower (x3)
- 8 Escape rocket
- Capsule heat shield
- 10 Display stand (not used)
- Mercury[™]symbol (not used) 11
- 12 Escape rocket
- 13 Spaceraft adaptor
- 14 Display stand (not used)
- 15 Recovery compartment (x2)
- 16 Aerodynamic spike (x2)
- 17 Escape tower base
- 18 Antenna compartment
- 19 Escape tower rocket nozzle (x3)
- 20 Antenna compartment fairing
- 21 Retro-package

1 Fuel pressure line

- 2 Vernier fairing (small)
- Cable way fairing cover 4 Vernier engine (x2)
- 5 Fuel fill & drain valve
- 6 Vernier fairing (large) 7 Mk 3 re-entry vehicle (not used)
- 8 Vernier heat radiation shield
- 9 Turbine exhaust duct brace
- 10 Cable way fairing (top)
- 11 Mk 4 re-entry vehicle (not used) 12 Booster engine half (x2)
- 13 Thrust structure fairing (lower) 14 Tank structure
- Liquid oxygen pressure line (lower) 15
- Liquid oxygen pressure line (upper)

Photo Etched Parts (PE) Parts PE5 & PE6 not used



Use a cyanoacrylate glue to attach PE parts

1

- Recovery compartment (x2)
 - Escape tower straps (x2)
- 3 Retropack restraining cord LOX vent
- Alternate hatch
- 4 5 6
- Destabilizing flap (not used) LOX vent cover
- - 12 Horizon sensor

Capsule skin

Porthole window (x2)

Row of bolts (long)

Row of bolts (short)

Horizon sensor cover

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