

1/72nd scale Convair SM-65D ATLAS



Specifications: Convair SM-65D Atlas

Length:	75 feet (22.9 metres) with Mk 2 RV 82 feet (25.0 metres) with Mk 3 RV
Diameter: Launch Weight:	10 feet (3.05 metres) 260,000 lbs (117,900 kg)
Range: Speed at burnout:	over 9,000 miles (14,500 km) approx Mach 26 (17,000 mph / 27,350 km/h)
Engines:	
Boosters:	Two LR-89 engines rated at 150,000 lb thrust each (68,000 kg) gimballed up to 5°
Sustainer:	One LR-105 engine rated at 57,000 lb thrust (25,900 kg) gimballed up to 3°
Verniers:	Two LR-101 engines for control rated at 1,000 lb thrust each (450kg) moveable +/- 70 °in pitch and +20/-30° in vaw
Propellants:	
RP-1 Kerosene: Liquid Oxygen:	76,000 lbs (34,470 kgs) 130,000 lbs (58,970 kgs)
Guidance:	Radio-Inertial Command
Warhead:	1.44 megaton W-49 warhead in a Mk2 or Mk3 RV, or 3.75 megaton W-38 warhead in Mk4 RV (test flown on the Atlas D for later F/F models)

War would never be the same again. WWII changed the way they were fought. The USA developed the atomic bomb and Germany the ballistic missile. Nothing could stay the same and the Cold War that followed proved this. In that war, the USA and the USSR forged their industrial might into ever-more powerful nuclear weapons and the first Inter-Continental Ballistic Missile (ICBM) which became the symbol of strength for the superpowers.

You hold in your hands the Convair SM-65D Atlas. This was the USA's first ICBM. Weapons like this, tipped with a nuclear payload and shrouded in secrecy, held the peace for decades. It served in the Strategic Air Command from 1959.

The Convair SM-65D Atlas features a stage and a half design built from stainless steel and can launch a 1.44 megaton warhead over 9,000 miles (14,500kms). Later Atlas E and F variants grew to carry 3.75 megaton warheads enclosed by a Mk 4 re-entry vehicle.

The Atlas ICBM was retired by the more powerful two stage Titan II missile. But in its prime, the 1960s, Atlas played a crucial role in early space exploration, launching spy satellites, Lunar Ranger probes, and the first interplanetary probes, the Mariner, which were sent to Venus and Mars. The very first Americans to ever orbit the earth flew atop an Atlas rocket.



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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. PAINT AND GLUE NOT INCLUDED Beware of small and/or sharp parts.

Throw away plastic bags when no longer required.

Use paints and glues in a well ventilated area. Take care when handling knifes and other sharp objects.

Assembly

- 1 Study these instructions carefully before assembly and note the payload and marking options that you will build.
- 2 Remove the parts from the sprue one at a time with a sprue cutter, and carefully sand off any excess plastic.
- 3 Test fit the parts to ensure they fit correctly, then glue into place using polystyrene glue.
- 4 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.
- 6 Allow to dry thoroughly before applying paint.
- 7 Paint the model in a well ventilated area, and allow to dry thoroughly.
- 8 Apply the decals (see instructions below).
- 9 Seal the decals with a clear coat of paint (allow at least one day for the decals to dry thoroughly).

Applying Decals

- 1 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.
- Slide the decal from the backing paper directly onto the model. 5
- Do not lift the decal off the sheet as this may cause it to fold. 6
- Once positioned correctly, press the decal gently with a soft cloth. 7
- You can use decal 25 to create other serial numbers.
- Use decal 36 or 37 on the display stand, depending on the colour it has been painted.

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- Part A3 not used Sprue B Part B7 not used Sprue A (x2) 1 10 9 0 11 13 12 8 14 15 16 10 n
 - 1 Fuel pressure line
 - 2 Vernier fairing (small) 3 Cable way fairing cover (not used)
 - Vernier engine (x2) 4
 - 5 Fuel fill & drain valve
 - 6 Vernier fairing (large)
 - 7 Mk 3 re-entry vehicle
 - 8 Vernier heat radiation shield
 - Turbine exhaust duct 9 brace

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- 10 Cable way fairing (top)
- 11 Mk 4 re-entry vehicle
- 12 Booster engine half (x2)
- 13 Thrust structure fairing (lower)
- 14 Tank structure
- 15 Liquid oxygen pressure line (lower)
- 16 Liquid oxygen pressure line (upper)
- 1 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 (not used)
- Cable way fairing (lower) 8
- 9 Equipment pod (short)
- 10 Equipment pod (long)
- 11 Mk 2 re-entry vehicle
- 12 Nose cone adaptor (for Mk 3 and Mk 4 RVs)
- 13 Booster engine turbine exhaust duct

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