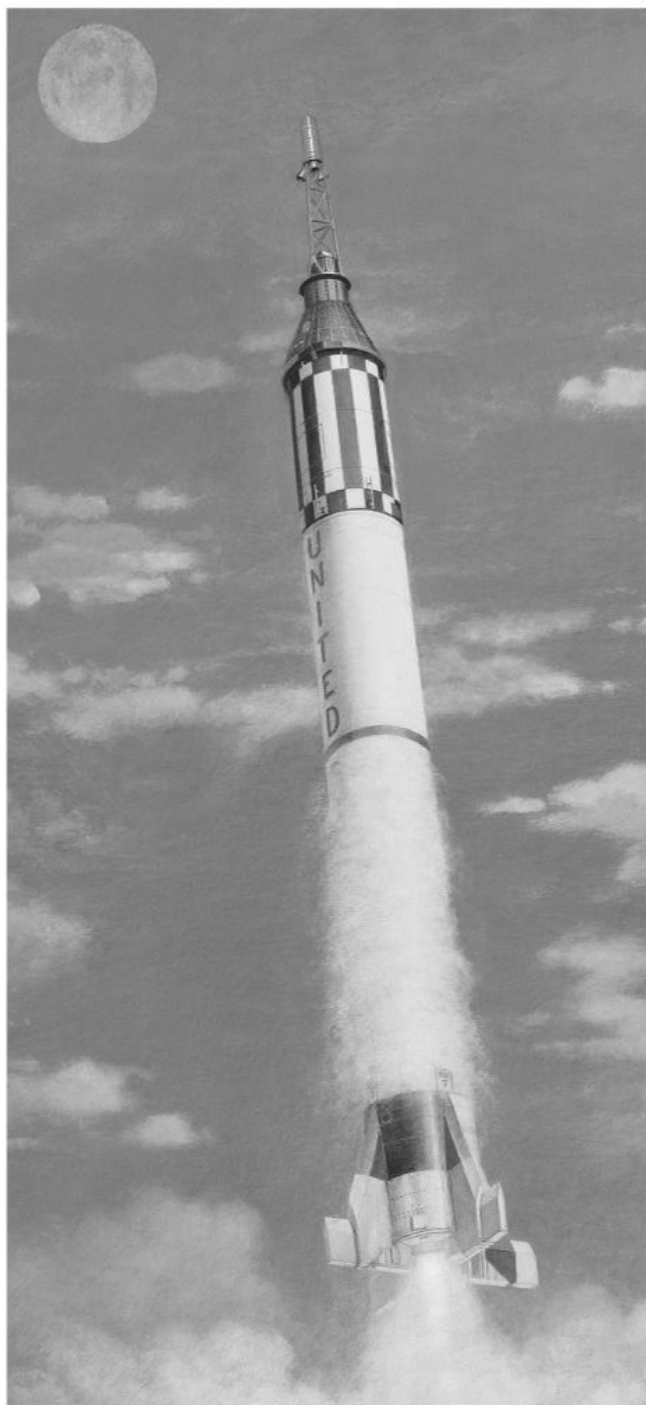


Mercury™-Redstone



Specifications: Redstone Booster MRLV

Length:	83.38 feet (25.4 metres)
Diameter:	5.83 feet (1.78 metres)
Span:	12.67 feet (3.86 metres)
Launch Weight:	66,000 lbs (30,000 kg)
Range:	over 400 miles (640 km)
Engines:	One Rocketdyne A-7 engine rated at 78,000 lb thrust
Propellants:	Ethyl Alcohol Liquid Oxygen

A New Era is Born

History was made on May 5th, 1961, when Astronaut Alan B. Shepard became the first American to fly into space, aboard his Mercury spacecraft, *Freedom 7*.

Launched by a Redstone rocket with a boost phase of 142 seconds, he reached a speed of over 7,000 km per hour, and continued to coast to an altitude of 188km.

After experiencing about 5 minutes of weightlessness in his spacecraft, and witnessing a view of the Earth that no American had seen before with their own eyes, it was time for re-entry where he experienced 11g before landing safely back in the Atlantic Ocean.

His historic feat was repeated a few months later, when Virgil I. Grissom flew aboard *Liberty Bell 7*, becoming the second American to fly into space.

The successful manned spaceflights of the Mercury Program inspired US President John F. Kennedy to challenge the nation to "landing a man on the Moon and returning him safely to the Earth"

Mission Summary

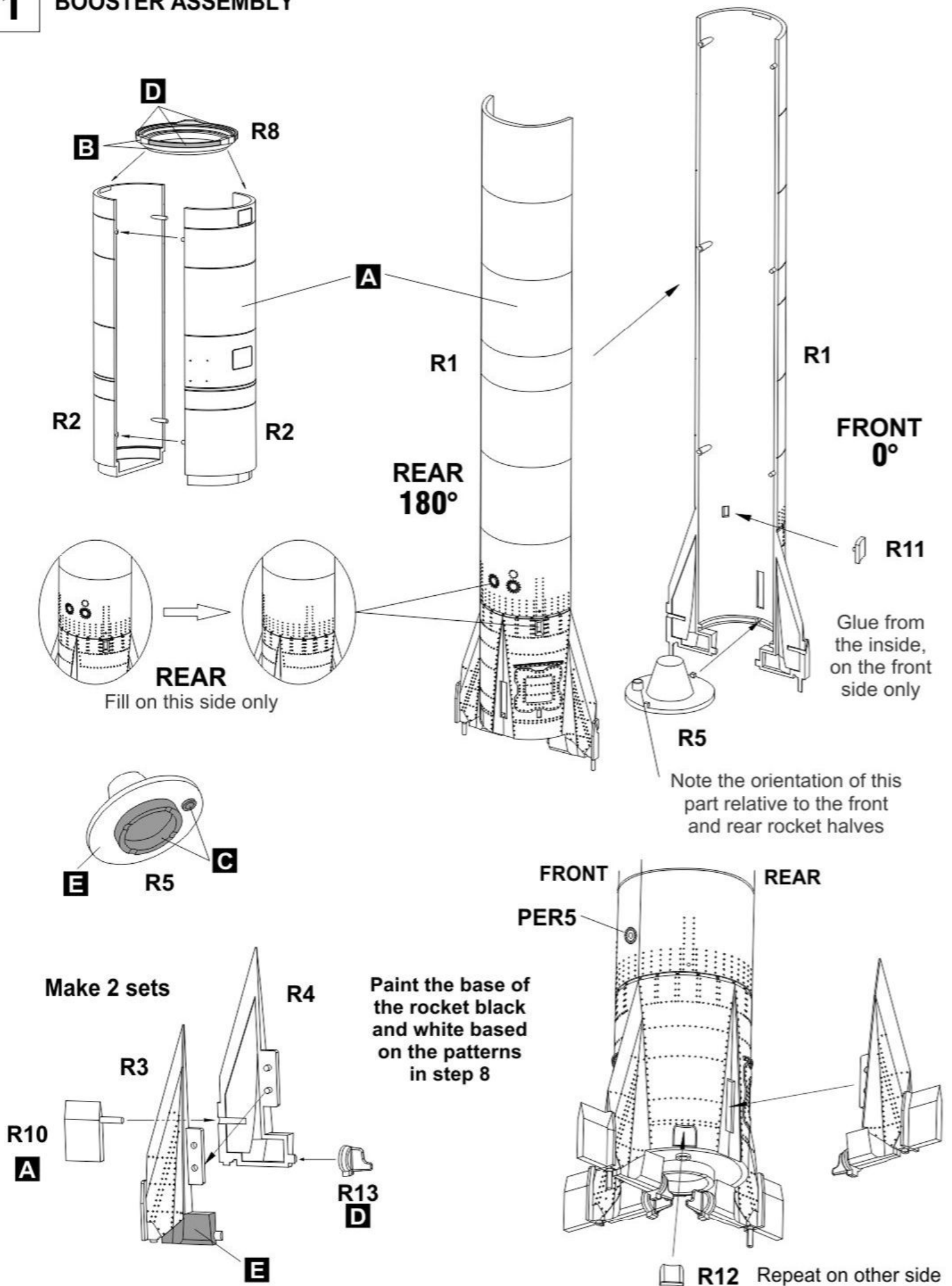
Mission	Capsule	Redstone	Launch Date	Duration	Apogee	Distance	Astronaut	Call Sign	Decal
MR-1	#2 Porthole	MR-1	Nov 21, 1960	0:02*	10 cm	0 km	Unmanned	*	①
MR-1A	#2 Porthole	MR-3	Dec 19, 1960	15:45	210 km	378 km	Unmanned	*	③
MR-2	#5 Porthole	MR-2	Jan 31, 1961	16:39	253 km	679 km	Ham the Chimp	*	③
MR-BD	Boilerplate	MR-5	Mar 24, 1961	8:23	183 km	494 km	Unmanned	*	②
MR-3	#7 Porthole	MR-7	May 5, 1961	15:28	188 km	487 km	Alan Shepard	Freedom 7	③
MR-4	#11 Window	MR-8	Jul 21, 1961	15:37	190 km	486 km	Gus Grissom	Liberty 7	④

All missions launched from Cape Canaveral LC-5

*Launch abort due to electrical fault, relaunched as MR-1A

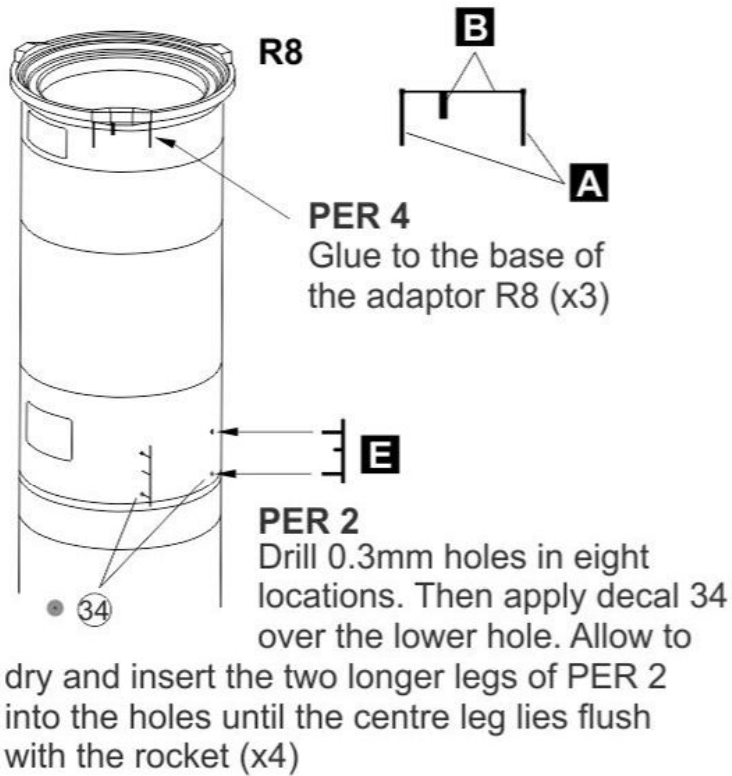


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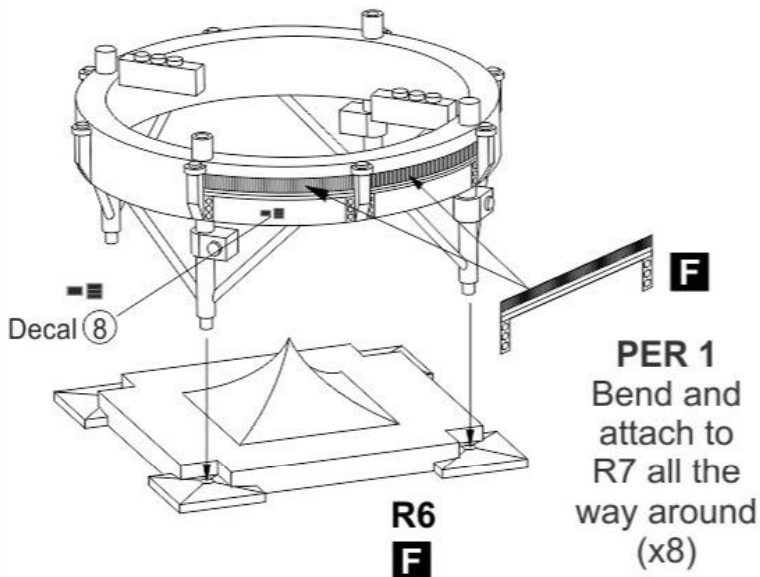
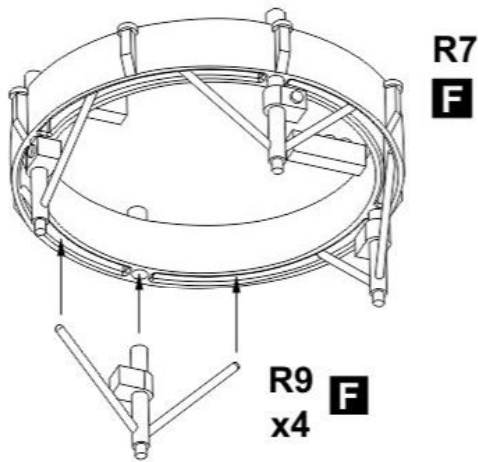
A White**C** Exhaust Metal**E** Silver**G** Metallic Black/Blue**I** Titanium**B** Black**D** Red**F** Dark Blue**H** Metallic Grey**J** Orange**1** BOOSTER ASSEMBLY

2 UPPER AIRFRAME ASSEMBLY

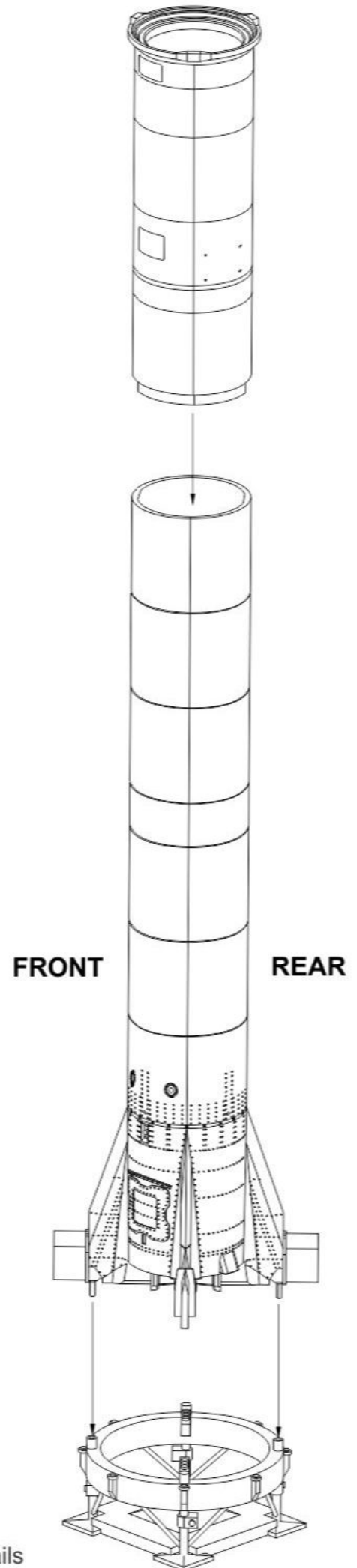
Paint rocket and apply decals 1 or 2 (not shown) before attaching PER 2 and PER 4



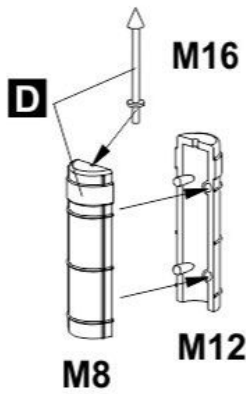
3 LAUNCH STAND ASSEMBLY



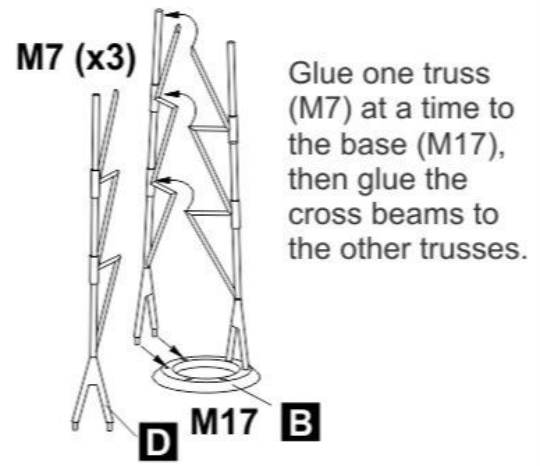
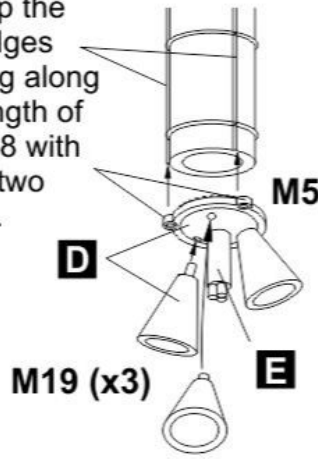
4 OVERALL AIRFRAME ASSEMBLY



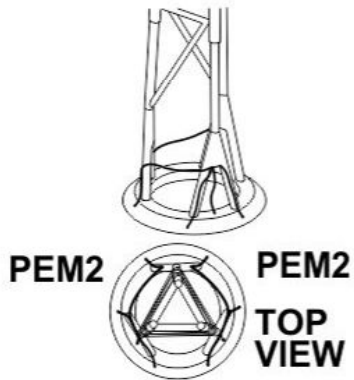
5 MERCURY CAPSULE ASSEMBLY



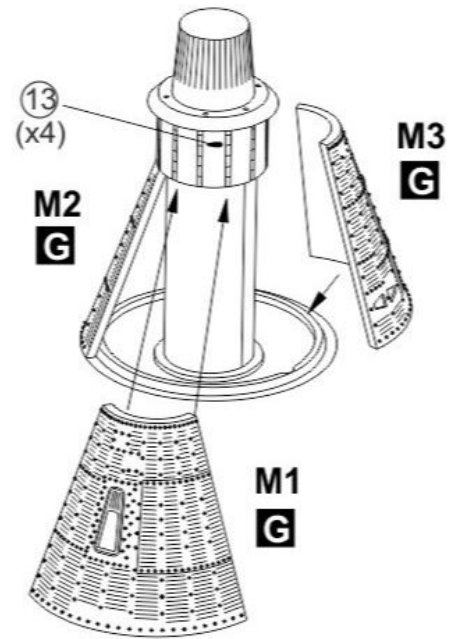
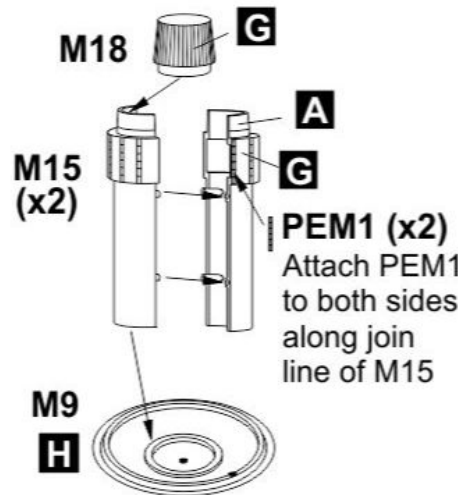
Line up the two ridges running along the length of part M8 with these two points.



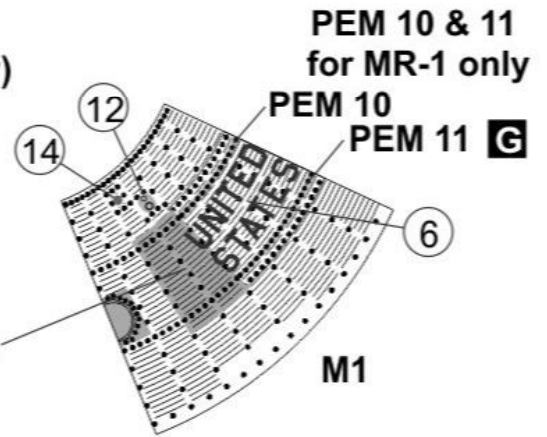
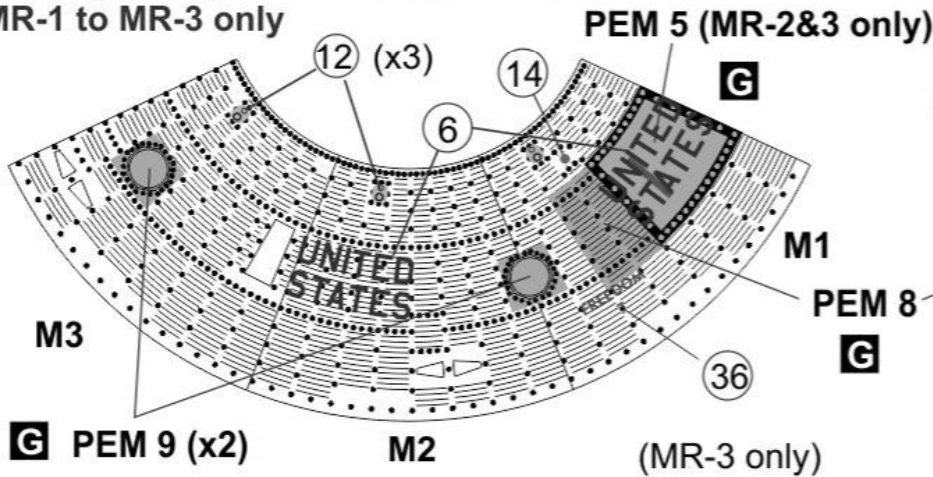
Glue one truss (M7) at a time to the base (M17), then glue the cross beams to the other trusses.



Attach PEM2 (x2) to two of the three trusses (M7) as shown. Connect the horizontal bars from each to the last truss, and then to the base M17. Do not apply PEM2 for the Boilerplate Capsule's Tower

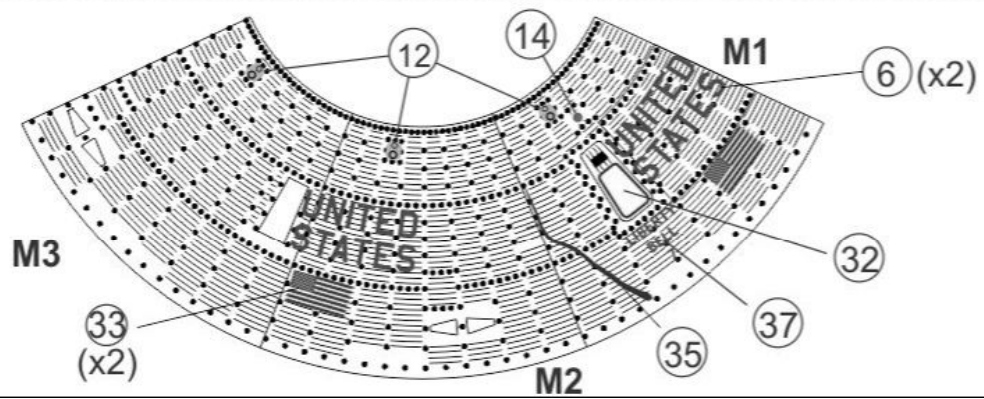


Mercury™ Capsule "Porthole" version MR-1 to MR-3 only



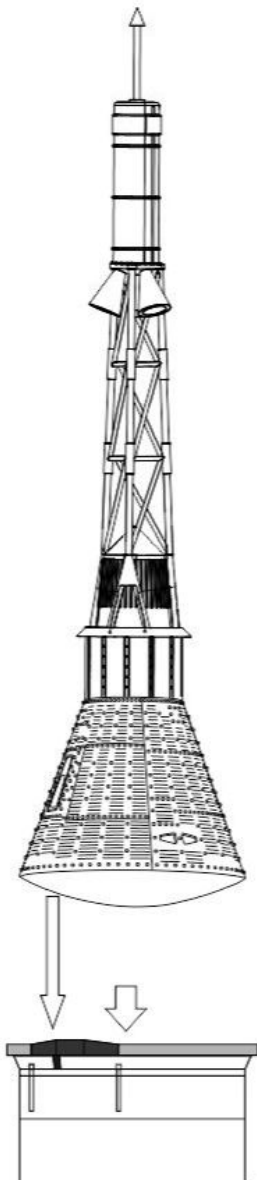
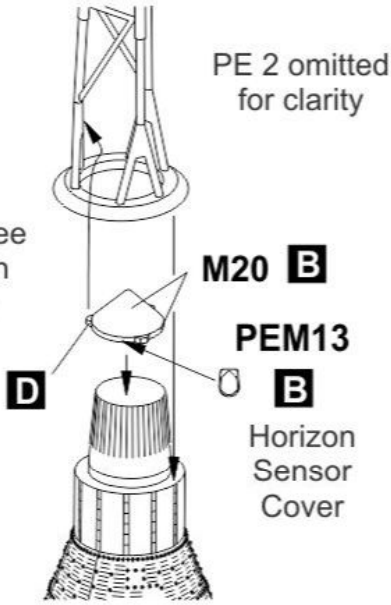
Use a cyanoacrylate glue to attach PE parts

Mercury™ Capsule "Window" version MR-4 only



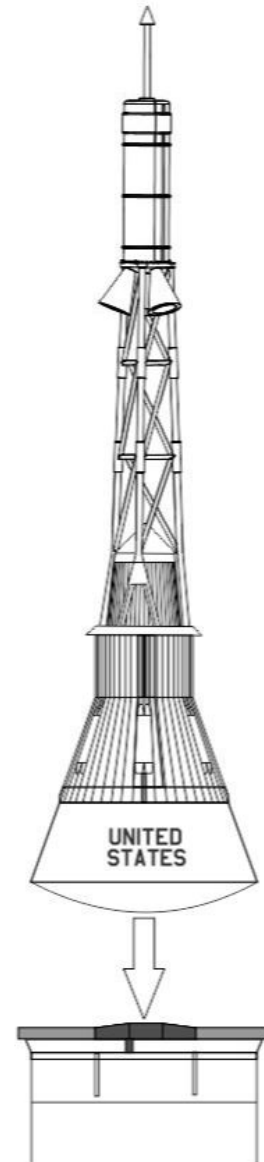
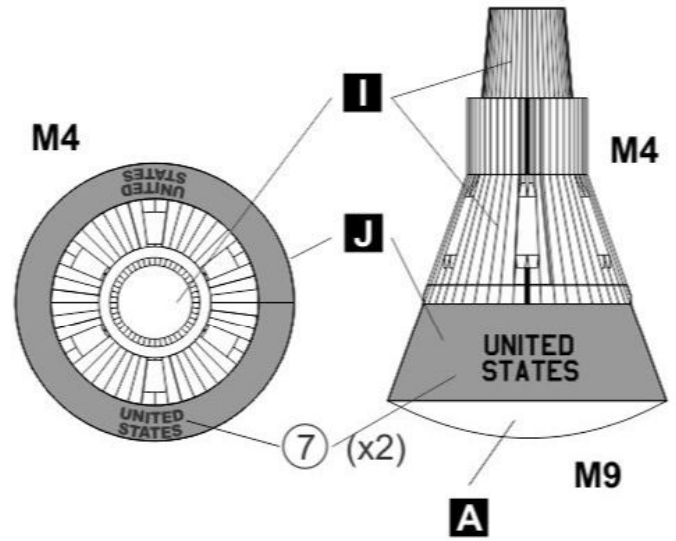
6 MERCURY SPACECRAFT ASSEMBLY (Continued)

Line up the three tips of M20 with the inner walls of the tower.

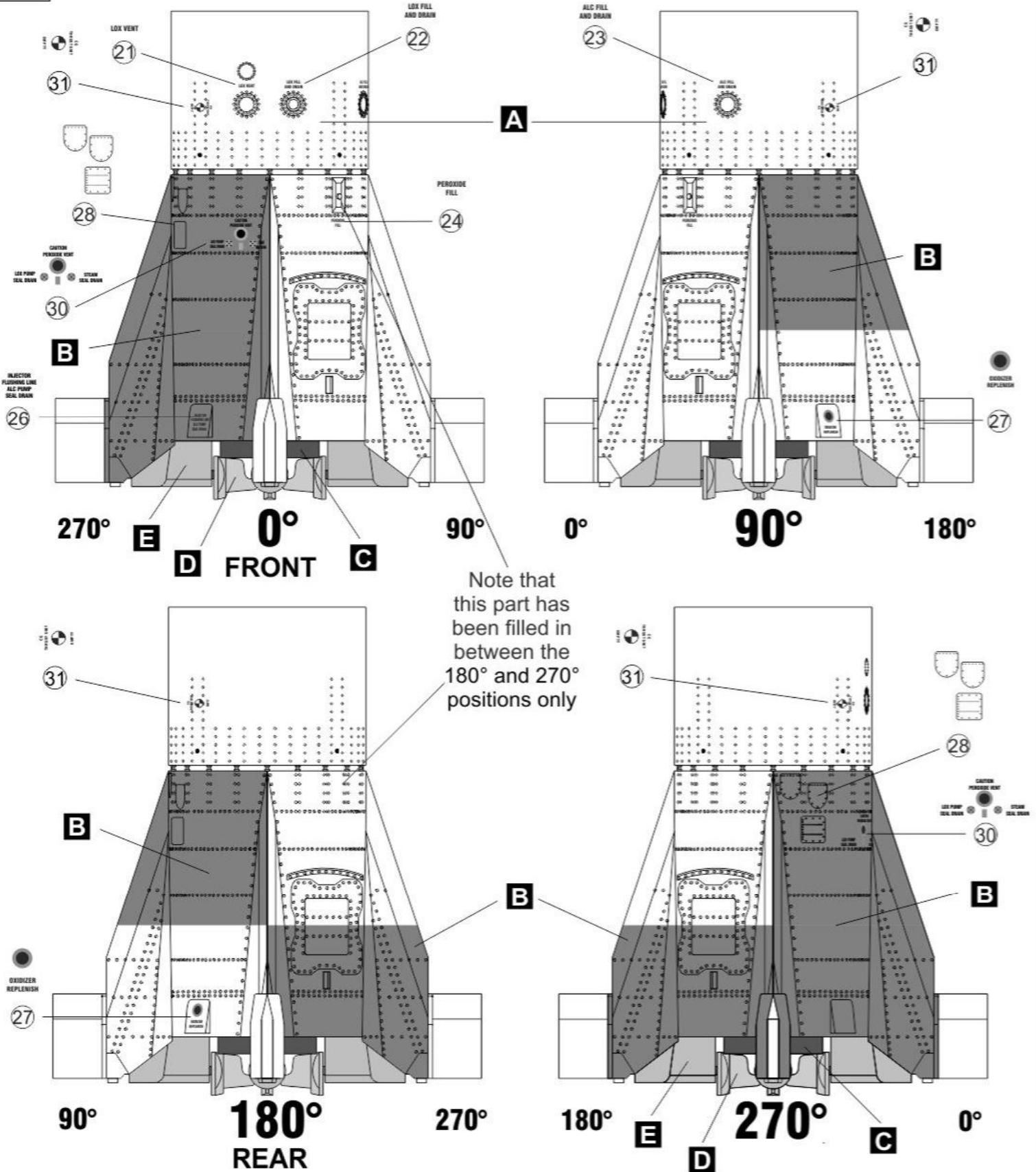


7 BOILERPLATE ASSEMBLY

Mission: MR-BD

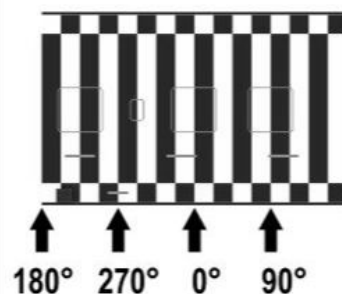
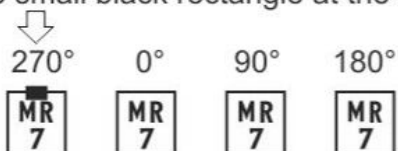


8 STENCILS COMMON TO ALL VARIANTS



Decals #15 to #20:

Note that the MR numbers refer to the Redstone rocket and not the mission number. When applying decals 15 to 20, place the first decal with the small black rectangle at the 270° position.



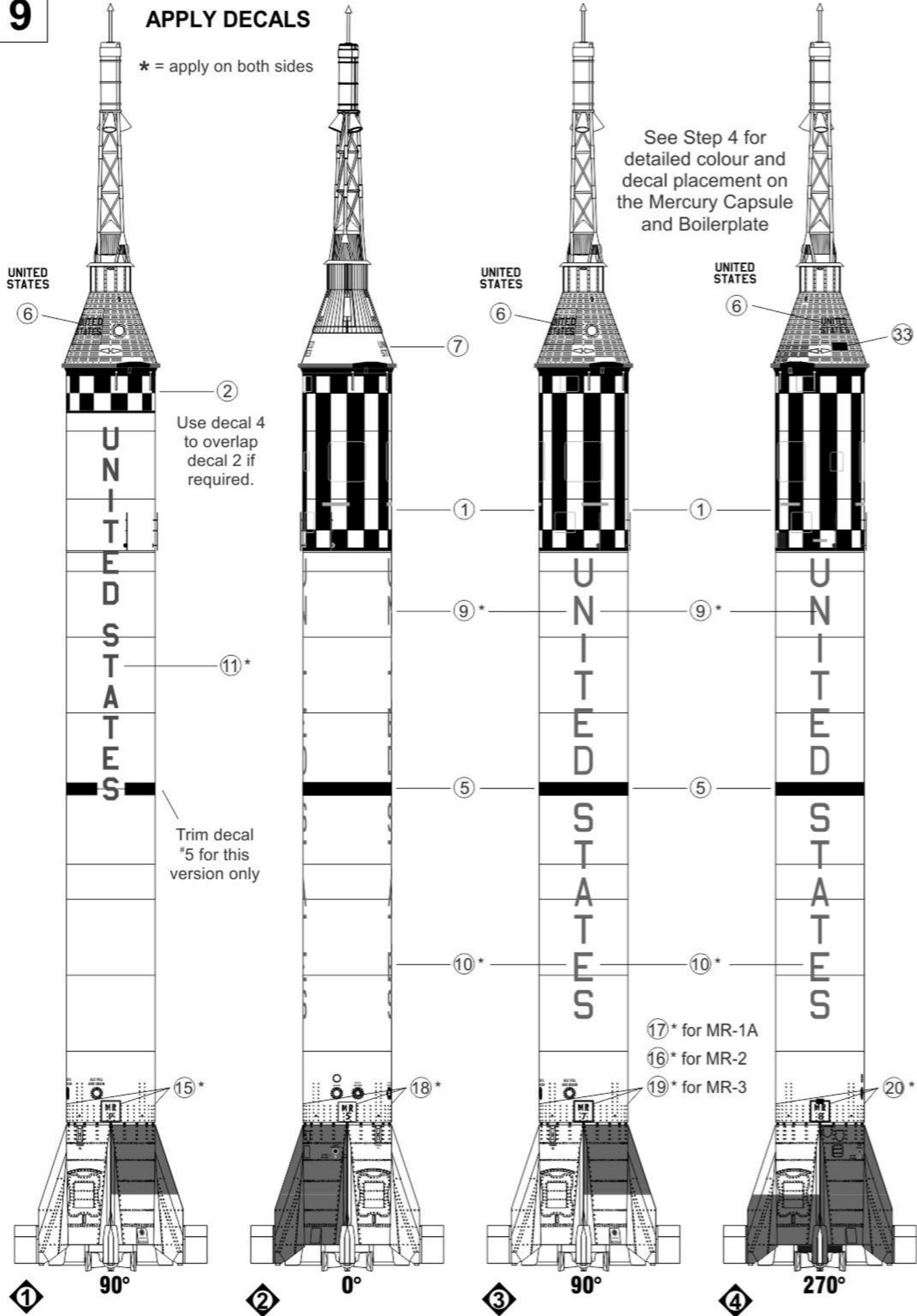
When applying decal 1, note that the location of the left edge of the decal is at the 180° position.

Use decal 3 to overlap decal 1 if required.

APPLY DECALS

* = apply on both sides

See Step 4 for detailed colour and decal placement on the Mercury Capsule and Boilerplate



① 90° MR-1, Nov 20, 1960 Unmanned, aborted launch
 ② 0° MR-BD, Mar 24, 1961 Unmanned flight with boilerplate
 ③ 90° MR-3, May 5, 1961 Astronaut Alan Shepard
 ④ 270° MR-4, Jul 21, 1961 Astronaut Gus Grissom

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 knives 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

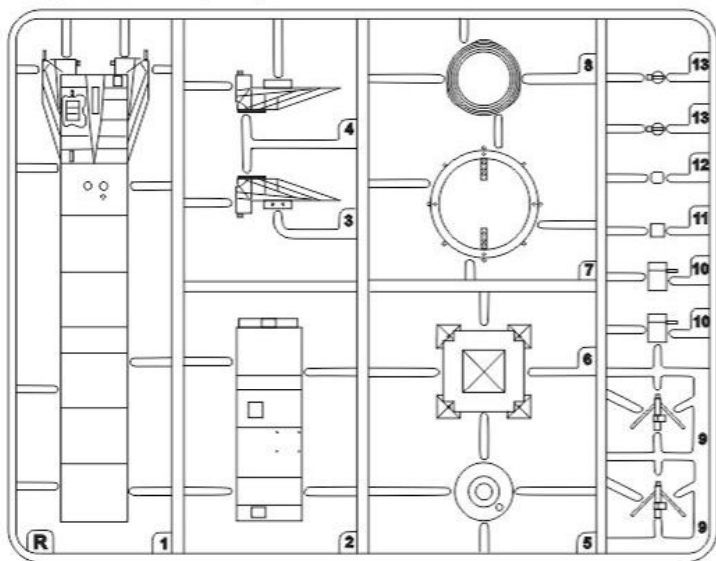
- 1 Cut the decal from the carrier sheet.
- 2 Dip the decal into water for about 10 seconds.
- 3 Place the decal on a cloth to absorb excess moisture.
- 4 Wet the model where you want to place the decal.
- 5 Slide the decal from the backing paper directly onto the model.
- 6 Do not lift the decal off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



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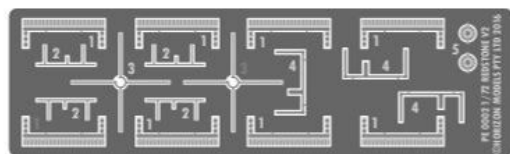
www.horizon-models.com

Sprue R (x2)



- | | |
|---------------------------|---------------------------|
| 1 Fuselage Half | 8 Spacecraft Adaptor |
| 2 Upper Fuselage | 9 Launch Stand Brace (x2) |
| 3 Fin Half A | 10 Movable Rudders (x2) |
| 4 Fin Half B | 11 Valve |
| 5 Base with Nozzle | 12 Couplings Shroud |
| 6 Exhaust Flame Deflector | 13 Carbon Jet Vane (x2) |
| 7 Launch Adaptor Ring | |

Photo Etched Parts - Redstone (PER)



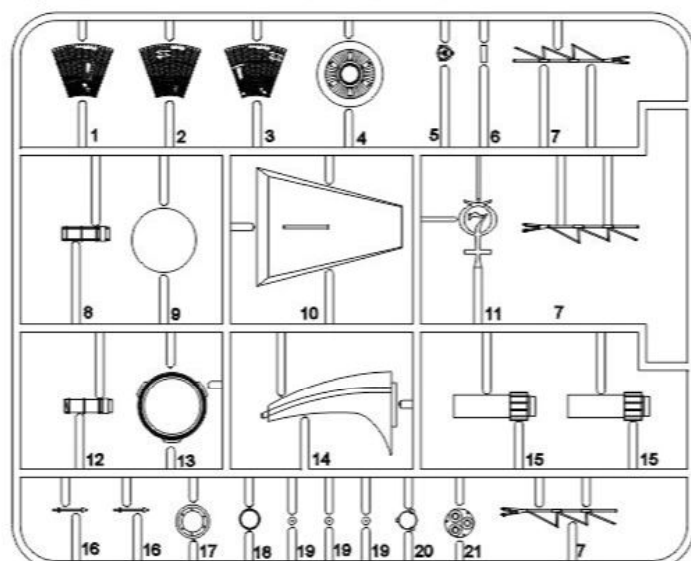
- PER1 Launch Ring Detail (x8)
PER2 Redstone Antenna (x4)
PER3 Not used (x2)
PER4 Spacecraft Adaptor Ring Parts (x3)
PER5 Alcohol Fill and Drain Port

Parts PER 3 not used

Use a cyanoacrylate glue to attach Photo-Etched parts

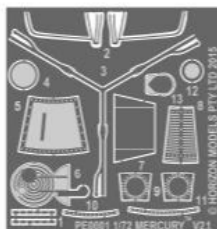
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Sprue M Parts M6, M10, M11, M13 & M14 not used



- | | |
|------------------------------|------------------------------------|
| 1 Capsule section 1 | 12 Escape rocket |
| 2 Capsule section 2 | 13 Not used |
| 3 Capsule section 3 | 14 Display stand (not used) |
| 4 Boilerplate Capsule | 15 Recovery compartment (x2) |
| 5 Escape rocket base | 16 Aerodynamic spike |
| 6 Not used | 17 Escape tower base |
| 7 Escape tower (x3) | 18 Antenna compartment |
| 8 Escape rocket | 19 Escape tower rocket nozzle (x3) |
| 9 Capsule heat shield | 20 Antenna compartment fairing |
| 10 Display stand (not used) | 21 Retro-package |
| 11 Mercury symbol (not used) | |

Photo Etched Parts - Mercury (PEM)



- | | |
|------------------------------------|-----------------------------|
| PEM1 Recovery compartment (x2) | PEM8 Capsule skin |
| PEM2 Escape tower straps (x2) | PEM9 Porthole window (x2) |
| PEM3 Retropack restraining cord | PEM10 Row of bolts (long) |
| PEM4 LOX vent (not used) | PEM11 Row of bolts (short) |
| PEM5 Alternate hatch | PEM12 Horizon sensor |
| PEM6 Destabilizing flap (not used) | PEM13 Horizon sensor cover |
| PEM7 LOX vent cover (not used) | Parts PEM 4, 6 & 7 not used |

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