Site Preparation and
Installation Guide for the
Rover and Docking Station

Rx ONLY

US Patent: D446,791; 5,997,733; 6,180,000; 6,222,283;
6,351,246; 6,935,459 and other patents pending.
Important Information

WARNING - CAUTION - NOTE

⚠ This symbol is used to alert the reader to important safety and precautionary information. When displayed on a device, it refers the user to accompanying instructions and identifies safety and precautionary information.

Please read this manual and follow all instructions carefully. The words WARNING, CAUTION and NOTE carry special meanings and should be carefully reviewed.

**WARNING:** The personal safety of the patient and/or user may be involved. Disregarding this information could result in injury to the patient and/or medical staff.

**CAUTION:** These instructions point out special service procedures or precautions that must be followed to avoid damaging the device.

**NOTE:** This provides special information to make maintenance easier or important instructions more clear.
Features

The Rover is a mobile unit used in the operating room to suction and collect surgical fluid and small debris from the surgical site. Optional features include a smoke evacuation unit which collects smoke from cauterization procedures or laser surgery, and a powered IV pole.

The Docking Station is a wall mounted component of the system and is plumbed with water inlet and drain lines. The Rover interfaces with the docking station which then automatically empties and rinses the collected waste materials from the Rover’s fluid collection container. A detergent dispenser automatically releases liquid detergent into the system.

Proper utilities must be available in the installation site. The user facility is responsible for preparation of the installation site and installation of the system.

Safety

⚠️ WARNINGS:

- Before installing this system, read and understand the information in this manual. Familiarization with the system is important. If you have any questions, contact your Stryker Instruments Representative or Stryker Neptune Service Center at 1-800-550-7836.

- DO NOT use this equipment in the presence of flammable anesthetic mixture with air or with oxygen or nitrous oxide.

- Surgical fluid waste is potentially infectious after collection.

- Follow state and local requirements for disposal of biohazard materials.

- The rover weighs 246 lbs [112 Kg]. More than one person will be required to unpack and safely lift the unit off the shipping pallet. Failure to comply may result in personal injury.

- The docking station weighs 90 lbs [41 Kg]. More than one person will be required to unpack and safely lift the unit off the shipping pallet. Failure to comply may result in personal injury.

- Keep hands away from the Docking Station doors. The docking mechanism could inadvertently be triggered to extend from the docking station and cause personal injury.

- Never place hands between the Rover and Docking Station when initiating the docking procedure as personal injury can occur.

- Read the important safety information provided on the bottle of Detergent REF 0700-001-026.

- Use only Stryker approved Detergent REF 0700-001-026. Other detergents may be chemically incompatible and therefore damage the system. Contact your Stryker sales representative or Stryker Customer Service at 1-800-253-3210.
1. Disposal Area and Utility Requirements

The Docking Station

The docking station should be installed in a disposal area near the operating rooms where the rover will be used. Consult with your facility personnel to ensure that your installation site is acceptable.

The designated area must be evaluated for ease of installation with the following considerations:

Electrical Requirements
- 120 V, 60 Hz, 15 amp outlet with protective earth ground.

Plumbing Requirements
- Tap water with dedicated shut-off valves. Inlet accepts garden-hose style fitting supplied with the docking station.
- Water usage is approximately 11 liters per rinse cycle at default settings. (Water usage is adjustable).
- Plumb with a 1.0 in. PVC hose to a floor drain or permanent service connection per local plumbing codes.
- Recommended drain plumbing connection should not exceed 8 ft from the docking station.
- Ensure plumbing configuration is not susceptible to water hammer conditions.

Space Requirements
- The sides of the docking station require a minimum of 20 inches of clearance to allow access through the unit’s service doors. There should be a minimum of 37 inches of clearance in front of the docking station to accommodate the rover. A bottle of detergent will sit on the floor at the right side of the docking station.

The Rover

Electrical Requirements
- REF 0700-001-000 requires a 120 V, 60 Hz, 20 amp electrical outlet with protective earth ground.
- REF 0700-003-000 requires a 120 V 60 Hz, 15 amp electrical outlet with protective earth ground.
- REF 0700-007-000 requires two 1.5 V AA batteries. No electrical connections are need for this model.

Plumbing Requirements
- No plumbing connections are needed for the rover.

Space Requirements
- See above Installation Layout diagram.
2. Unpacking the Rover

CAUTION: The rover weighs 246 lbs [112 Kg]. More than one person will be required to unpack and safely lift the unit off the shipping pallet. Failure to comply may result in personal injury.

3. Unpacking the Docking Station

WARNING: The docking station weighs 90 lbs [41 Kg]. More than one person will be required to unpack and safely lift the unit off the shipping pallet. Failure to comply may result in personal injury.

Container Contents
- Docking Station
- 6 ft. [1.83 m] water inlet hose
- 6 ft. [1.83 m] waste outlet hose
- Detergent inlet tube.

Recommended Additional Installation Equipment
- Stryker Docking Station Mounting Kit REF 0700-004-500.
- Anti-siphon device for inlet water supply compliant with state and local water supply requirements.

NOTE: The docking station is equipped with an internal anti-siphon device (ANSI/NSF-61; ASSE 1024; CSA B64.6).
4. Rover Installation Testing Procedures

NOTE: These testing procedures apply to rover models REF 0700-001-000 and 0700-003-000 only.

Activate the internal battery located inside the Rover.
1. Grasp and pull the frame from the compartment on the side of the rover as shown.
2. A disconnect switch is located in the top center of the compartment. Place the switch in the ON position.
3. Re-install the frame.

NOTE: Neptune’s fluid volume display shows this message: Shipping Mode/Dock to Use/Waiting to Dock. The display will not provide any other status information until this message is cleared. The message will clear automatically during the docking station installation procedure when the rover is docked and the initial docking cycle is completed.

Test the suction
4. Plug the rover into a wall outlet and turn it on with the main power switch.
5. Activate the vacuum pump by pressing the fluid suction on/off button.
6. While the vacuum pump is running, block the manifold port. Turn the fluid suction adjustment knob and observe the fluid suction gauge to ensure that the vacuum level changes. Increase the suction level to the maximum level; the gauge should indicate a minimum vacuum level of 17.5 inHg. Refer to the Troubleshooting information in the Neptune Waste Management System manual if the proper vacuum level is not achieved.

Test the IV Pole (if equipped)
7. With the power turned on, press the arrow buttons to raise and lower the pole. Ensure the pole operates smoothly.

Check the Smoke Evacuator (if equipped)
8. Press the smoke evacuator mode selector and turn the smoke evacuation adjustment knob clockwise until all lights surrounding the knob are illuminated. Ensure the smoke evacuator operates.
5. Docking Station Installation Procedures

⚠️ WARNINGS:

- Keep hands away from the docking station doors. The docking mechanism could inadvertently be triggered to extend from the docking station and cause personal injury.

- Never place hands between the Rover and Docking Station when initiating the docking procedure as personal injury can occur.

- Read the important safety information provided on the bottle of Detergent REF 0700-001-026.

⚠️ CAUTION: Use only Stryker approved Detergent REF 0700-001-026. Other detergents may be chemically incompatible and therefore damage the system.

NOTE: See Specifications to determine if the anti-siphon device supplied with the docking station meets your local requirements. If it does not, obtain an anti-siphon device which will meet your requirements and install it near the shut off valve on the inlet water supply.

Positioning the Docking Station

1. Place the docking station against the wall at the installation site.

NOTE: If possible, position the docking station to align fastening hardware with wall studs.

2. Loosely fasten the docking station to the wall. This ensures the docking station remains in the final installation site but also allows for caster adjustment.

Plumbing Connections

3. Connect the water supply hose to tap water source.

4. Attach the waste hose to the hospital drain system. Refer to your local plumbing codes for specific requirements.

![Water supply hose and waste hose connections](image)
Aligning the Rover and Docking Station
5. Adjust the height of each docking station caster so that the magnet is precisely level and flush with rover's strike plate.

**NOTE:** It is important to level the docking station and align the inlet and outlet couplings to those of the rover by adjusting caster height.

6. Place the rover directly in front of the docking station and view the magnet and strike plate from the side. Adjust the height of both front casters and both rear casters until magnet and strike plate surfaces are flush.

**NOTE:** To remove a gap at the top of the magnet, decrease the height of the front casters or increase the height of the rear casters.

Utility Connection
7. Plug the docking station into a wall outlet. Turn on the main power switch located on the back of the unit.

8. Turn on the tap water source for the docking station.

Detergent Source Connection
9. Secure the detergent inlet tube to the inlet port. Remove the cap from the detergent bottle and puncture the seal. Insert the detergent inlet tube until it reaches the bottom of the bottle.

**Testing the Docking Procedure**
10. Fill the rover's fluid collection container with a minimum of two (2) liters of water then dock the rover in the docking station. Ensure that fluid couplings engage fully and simultaneously.

11. Repeat the docking procedure several times to verify proper engagement.

**NOTE:** Water should not drip from the inlet and outlet couplings during docking.

12. Once proper engagement is achieved, secure the docking station to the wall.

13. Fill the rover fluid collection container with a minimum of two (2) liters of water then test the docking station again by engaging the rover and completing a cleaning cycle.

Verify the following during the docking sequence:
- Proper engagement of the rover and docking station
- No leakage at couplers
- No leakage at rinse water inlet connection
- Proper drainage from discharge hose to facilities plumbing

14. After the docking sequence is completed, separate the units.

Charging Rover's Battery
15. Rover models REF 0700-001-000 and 0700-003-000 only: Plug the rover power cord into a wall receptacle and turn the power on with the main power switch to recharge the internal battery. Verify that the screen displays "Vol (Liters) 0.00"

**NOTE:** The rover should remain plugged into a power receptacle and turned on to ensure the battery remains fully charged.

NOTE: Increase caster height by turning the dial counterclockwise. Decrease caster height by turning the dial clockwise.
### Specifications

#### Rover
- **Model:** 0700-001-000
- **Width:** 18 in. [45.7 cm]
- **Depth:** 25 in. [63.5 cm]
- **Height:** 89 in. [226 cm] with IV pole up, 60 in. [152.4 cm] with IV pole down
- **Weight:**
  - 246 lbs [112 kg] Collection tank empty
  - 290 lbs [132 kg] Collection tank full
- **Volume:** 20 liters
- **Electrical:**
  - 120 V, 60 Hz, 16 amps, single phase
  - 12 V, 16 amp during the docking sequence
  - 20 amp receptacle connection mandatory
  - Unit is internally powered while docking.
- **Equipment Type:**
  - Type CF Applied Part
  - Class 1
- **Enclosure Protection:** IPX0 Ordinary Equipment

#### Rover
- **Model:** 0700-003-000
- **Width:** 18 in. [45.7 cm]
- **Depth:** 25 in. [63.5 cm]
- **Height:** 51 in. [130 cm]
- **Weight:**
  - 198 lbs [90 kg] Collection tank empty
  - 242 lbs [110 kg] Collection tank full
- **Volume:** 20 liters
- **Electrical:**
  - 120 V, 50-60 Hz, 12 amps, single phase
  - 12 V, 16 amp during the docking sequence
  - 15 amp receptacle connection
  - Unit is internally powered while docking.
- **Equipment Type:**
  - Type CF Applied Part
  - Class 1
- **Enclosure Protection:** IPX0 Ordinary Equipment

#### Approval:
- **CSA International**
  - UL 60601-1
  - IEC 60601-1
  - CAN/CSA-C22.2 No. 601.1-M90

#### Detergent Dispensing Docking Station
- **Model:** 0700-005-000
- **Width:** 25 in. [63.5 cm]
- **Depth:** 20 in. [50.8 cm]
- **Height:** 22 in. [55.9 cm]
- **Weight:** 90 lbs [41 Kg]
- **Electrical:**
  - 120 V, 50-60 Hz, 3 amps
  - 15 amp receptacle connection
- **Equipment Type:** Class 1

#### Water Requirements
- **Pressure Range:** 45 to 100 psi [2,327 to 5,171 mmHg]
- **Anti-siphon Device:** ANSI/NSF-61; ASSE 1024; CSA B54.6
- **Temperature:** 40 to 110°F [4.4 to 43.3°C]
- **Connection:** Garden hose fitting
- **Quality:** Potable tap water
- **Usage:** 2.9 gal. [11 liters] at default settings and will vary depending on the selected cycle.

---

CLASS 1 LED PRODUCT

Invisible Radiation

Specifications are approximate.
Non-operator serviceable components should be serviced by an authorized Stryker representative only. Any effort at field repair or adjustment by an unauthorized individual may invalidate your warranty.

In the event of sporadic electrical interference:
- Turn off all electrical equipment not in use in the operating room.
- Relocate electrical equipment; increase spacial distance.
- Plug operating room equipment into different outlets.

**Environmental Conditions**

**Operation**
- Temperature: 40°C
- Humidity: 75%
- Atmospheric Pressure: 1060 hPa

**Storage and Transportation**
- Temperature: -20°C
- Humidity: 75%
- Atmospheric Pressure: 1060 hPa

**Neptune Service Center**
1-800-550-7836

**WARRANTY**
Stryker Instruments Warranties cover parts and labor if maintained and operated in accordance with manufacturer's instructions for use. In order to ensure safe operation of Stryker Instruments' products, only Stryker Instruments' accessories should be used. Stryker Instruments reserves the right to invalidate product warranties and complimentary loaner programs if Stryker Instruments' products are used with accessories not manufactured by Stryker Instruments or if repairs are performed by any party other than an authorized Stryker Instruments repair facility.