

## Rolling Air Evacuation Oil Drain

# Installation and Operation Manual

Manual P/N 5900327 — Manual Revision A2 — September 2024

Models:

- RD-20SE



**Designed and engineered by BendPak Inc. in Southern California, USA. Made in China.**

 **DANGER**

Read the entire contents of this manual before using this product. Failure to follow the instructions and safety precautions in this manual can result in serious injury or death. Make sure all other operators also read this manual. Keep the manual near the product for future reference. By proceeding with setup and operation, you agree that you fully understand the contents of this manual.

**Manual.** RD-20SE Rolling Air Evacuation Oil Drain, *Installation and Operation Manual*, Manual P/N 5900327, Manual Revision A2, Released September 2024.

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**Limitations.** Every effort has been made to have complete and accurate instructions in this manual. However, product updates, revisions, and/or changes may have occurred since this manual was published. BendPak Ranger reserves the right to change any information in this manual without incurring any obligation for equipment previously or subsequently sold. BendPak Ranger is not responsible for typographical errors in this manual. Feel free to contact us at any time to get the latest information about any product: [rangerproducts.com](http://rangerproducts.com).

**Warranty.** The BendPak Ranger warranty is more than a commitment to you: it is also a commitment to the value of your new product. For full warranty details, contact your nearest BendPak Ranger dealer or visit [bendpak.com/support/warranty](http://bendpak.com/support/warranty). Go to [bendpak.com/support/register-your-product/](http://bendpak.com/support/register-your-product/) and fill out the online form to register your product (be sure to click **Submit**).

**Safety.** Your new product was designed and manufactured with safety in mind. Your safety also depends on proper training and thoughtful operation. Do not set up, operate, maintain, or repair the unit without reading and understanding this manual and the labels on it; **do not use this product unless you can do so safely!**

**Owner Responsibility.** In order to maintain your product properly and to ensure operator safety, it is the responsibility of the product owner **to read and follow these instructions:**

- Follow all setup, operation, and maintenance instructions.
- Make sure product setup conforms to all applicable local, state, and federal codes, rules, and regulations, such as state and federal OSHA regulations and electrical codes.
- Read and follow all safety instructions. Keep them readily available for operators.
- Make sure all operators are properly trained, know how to safely operate the unit, and are properly supervised.
- Do not operate the product until you are certain that all parts are in place and operating correctly.
- Carefully inspect the product on a regular basis and perform all maintenance as required.
- Service and maintain the unit only with approved replacement parts.
- Keep the manual with the product and make sure all labels are clean and visible.

**Only use this product if it can be used safely!**

**Unit Information.** Enter the Model Number, Serial Number, and the Date of Manufacture from the label on your unit. This information is required for part or warranty issues.

Model: \_\_\_\_\_

Serial: \_\_\_\_\_

Date of Manufacture: \_\_\_\_\_

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## Introduction

This manual describes the RD-20SE Rolling Air Evacuation Oil Drain.

More information about the full line of Ranger Products is available at [rangerproducts.com](http://rangerproducts.com).

***This manual is mandatory reading for all users*** of the RD-20SE, including anyone who assembles, operates, maintains, or repairs it.

 **DANGER** Be very careful when setting up, operating, maintaining, or repairing this equipment; failure to do so could result in property damage, product damage, injury, or (in very rare cases) death. Make sure only authorized personnel operate this equipment. All repairs must be performed by an authorized technician. Do not make modifications to the unit; this voids the warranty and increases the chances of injury or property damage. Make sure to read and follow the instructions on the labels on the unit.

Keep this manual on or near the equipment so that anyone who uses or services it can read it.

Technical support for your Oil Drain is available from your distributor or directly from BendPak Ranger: using a web browser, visit the [BendPak Support website](#).

## Shipping Information

Your equipment was carefully checked before shipping. Nevertheless, you should thoroughly inspect the shipment **before** you sign to acknowledge that you received it.

When you sign the bill of lading, it tells the carrier that the items on the invoice were received in good condition. ***Do not sign the bill of lading until after you have inspected the shipment.*** If any of the items listed on the bill of lading are missing or damaged, do not accept the shipment until the carrier makes a notation on the bill of lading that lists the missing or damaged goods.

If you discover missing or damaged goods **after** you receive the shipment and have signed the bill of lading, notify the carrier at once and request the carrier to make an inspection. If the carrier will not make an inspection, prepare a signed statement to the effect that you have notified the carrier (on a specific date) and that the carrier has failed to comply with your request.


It is difficult to collect for loss or damage after you have given the carrier a signed bill of lading. If this happens to you, file a claim with the carrier promptly. Support your claim with copies of the bill of


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loading, freight bill, invoice, and photographs, if available. Our willingness to assist in helping you process your claim does not make us responsible for collection of claims or replacement of lost or damaged materials.

## Safety Considerations

**Read this entire manual carefully before using your new product.** Do not install or operate the product until you are familiar with all operating instructions and warnings. Do not allow anyone else to operate the product until they are familiar with all operating instructions and warnings.

 **WARNING California Proposition 65.** This product can expose you to chemicals including styrene and vinyl chloride which are on the list of over 900 chemicals identified by the State of California to cause cancer, birth defects or reproductive harm. Always use this product in accordance with BendPak's instructions. For more information, visit [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

 **WARNING Always** refer to the Material Safety Data Sheet (MSDS) for safe handling and disposal information on the fluids you intend to place in the RD-20SE. MSDS are available from the fluid's supplier or manufacturer.

## Safety Information

Please note the following:

- The product is a Rolling Air Evacuation Oil Drain. **Use it only for its intended purpose.**
- This safety information and the warnings throughout this manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are required at all times when using this equipment.
- Read and understand all warnings, safety precautions and instructions prior to use.
- **Do not drain caustic or volatile fluids or fuels into the RD-20SE!** These Fluids could cause damage to the equipment and personal injury.
- Do **not** weld to the RD-20SE tank or its supporting structures.
- The product should only be operated by authorized personnel. Keep children and untrained personnel away from the product.
- When using the product, wear appropriate personal safety equipment, work clothes and ANSI-approved safety goggles. Do not wear loose clothing or jewelry. Keep hair and clothing away from moving parts. Always comply with the personal protective equipment required by the fluid manufacturer.
- Automotive Fluids may be hot and cause severe burns or injury to skin and eyes! Temperatures can exceed 220° F / 104° C. Allow engine and oil to cool before opening the system and removing oil.
- Some oil systems may be under pressure; opening these systems while hot can cause oil to be sprayed forcefully and injury may result.
- Compressed air can be dangerous. **Never** point compressed air nozzles or fittings at yourself or anyone near you.
- **Never** exceed the rated input air pressure of 120 psi / 8 bar
- **Never pressurize the Rolling Drain Tank with the 2" Ball Valve open!**
- Used oils are flammable, keep away from open flames or other ignition sources.

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- Always comply with local, state and national regulations for the disposal of Waste Fluids.
  - Repair leaks and clean fluid spills immediately.
  - Do not use the product while tired or under the influence of drugs, alcohol, or medication.
  - Do not use the product in the presence of cigarette smoke, dust, or flammable liquids or gases.
  - Always disconnect from Compressed Air after emptying the RD-20SE.
  - **Never** alter or make any modifications to the product.
  - Use the unit on a dry, clean, flat concrete surface.
  - Make sure all operators read and understand the *Installation and Operation Manual*. Keep the manual near the device at all times.
  - Make a visual inspection of the product before using it each time. Do not use the product if you find any missing or damaged parts. Instead, take the unit out of service, then contact an authorized repair facility, your distributor, or Ranger Products at **(805) 933-9970** follow the prompts to reach sales or service.
  - Ranger recommends making a **thorough** inspection of the product at least once a year. Replace any damaged, cracked or severely worn parts, decals, or warning labels.
  - Contact Ranger for parts replacement information (please have the model and serial number of your unit available) at **(805) 933-9970** follow the prompts to reach sales or service.




## Important Safety Information

When using this equipment, basic safety precautions should always be followed, including:

- Read all instructions. Use only as described in this manual.
- Make sure all operators read and understand this *Installation and Operation Manual*. **Keep the manual near the Oil Drain at all times.** The Oil Drain should only be operated by authorized personnel. Keep children and untrained personnel away.

## Symbols

Following are the symbols used in this manual:

-  **DANGER** Calls attention to a hazard that **will** result in death or injury.
-  **WARNING** Calls attention to a hazard or unsafe practice that **could** result in death or injury.
-  **CAUTION** Calls attention to a hazard or unsafe practice that could result in personal injury, product damage, or property damage.
- NOTICE** Calls attention to information that can help you use your equipment better.

## Liability Information

BendPak Ranger assumes **no** liability for damages resulting from:

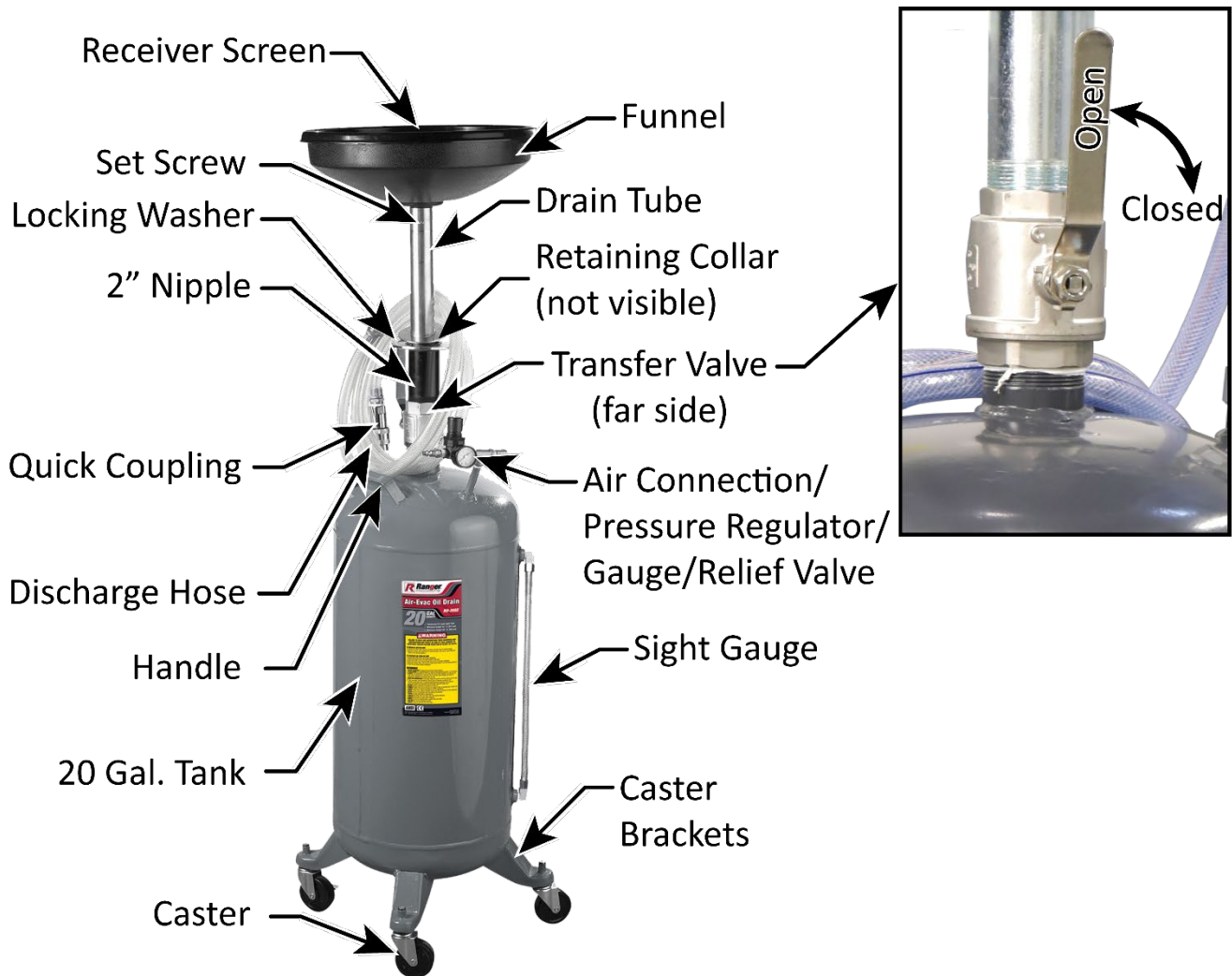
- Use of the equipment for purposes other than those described in this manual.
- Modifications to the equipment without prior, written permission from BendPak Ranger.
- Damage to the equipment from external influences.
- Incorrect operation of the equipment.

# Specifications

|                     |  |
|---------------------|--|
| Funnel Diameter     | 16" (406 mm)                                 |
| Adjustable Height   | 52" - 83" (1,321 - 2108 mm)                  |
| Fluid Capacity      | 20 Gallons (75.7 Liters)                     |
| Discharge Hose      | 10 feet (3 meters)                           |
| Weight Empty        | 82 lbs. (37 kg)                              |
| Shipping Dimensions | 18" x 18" x 45" (457 mm x 457 mm x 1,143 mm) |

# Components

The figure below details the major components of the RD-20SE.

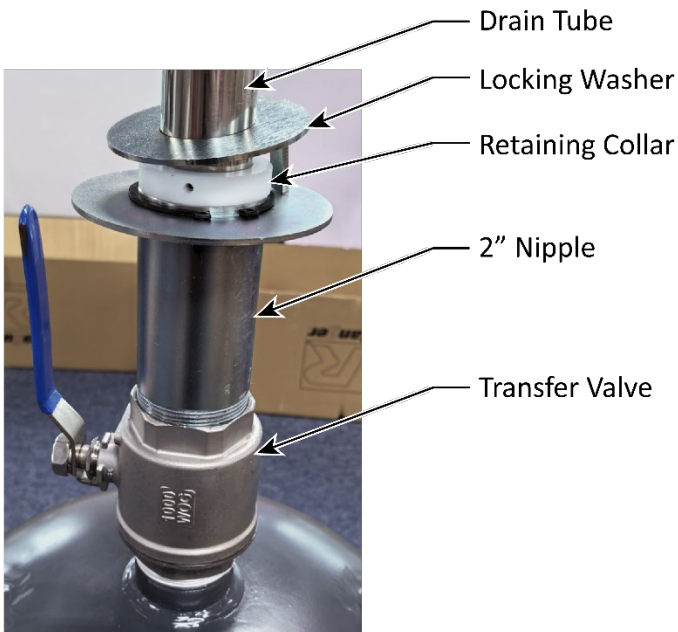


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# Assembly

Complete the assembly of your Rolling Air Evacuated Oil Drain by following the instructions below.

1. Insert the four Casters in the Caster Brackets at the bottom of the Tank and secure with the Retaining Rings.
2. Thread the 2" Base Nipple into the Oil Transfer Valve on top of the Tank. **This Nipple should be hand tight, do not use a wrench to tighten.**
3. Place the Lock Washer (tab end facing the open tube end) and plastic retaining collar onto the Drain Tube.
4. Verify the Oil Transfer Valve is fully open, (Valve handle is vertical) then Insert the Drain Tube into the 2" Nipple.
5. Slide the Retaining Collar down to rest on the 2" Nipple.
6. Slide the Locking Washer down until it stops just above the Retaining Collar as pictured below.



7. Insert the Funnel into the Drain Tube and secure using the Setscrew on the side of the Drain Tube.
8. Place the Receiver Screen in the recessed area inside of the Funnel.
9. Attach the female Quick Coupler onto the end of the Oil Discharge Hose.

If you require further assistance, please contact BendPak Ranger Service for information (please have the model and serial number of your unit available) at **(805) 933-9970** follow the prompts to reach the Service Department.



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# Operation

## To Drain Oil from a Vehicle:

1. Verify there is room in the Tank for the waste oil. Inspect the Sight Gauge on the side of the Tank. The Tank should be considered full, and should be emptied, when the waste oil is near the top of the Sight Gauge.
2. Verify the Receiver Screen is in place in the Funnel. This screen will prevent Drain Plugs, tools or other components accidentally dropped into the Funnel from being swept into the Tank
3. Use the Handles at the top of the Tank to move the Oil Drain under the Vehicle until the Funnel is directly under the Oil Pan Drain Plug.
4. Verify the Rolling Oil Drain is stable on a level surface capable of supporting its weight.

**⚠ WARNING** Use the Rolling Oil Drain on smooth level surfaces only. Sloped surfaces may cause the Rolling Drain to move or tip.

**⚠ WARNING** Provide fresh air ventilation to avoid the accumulation of flammable fumes. Extinguish all open flames, do not smoke in the area.

5. Open the Oil Transfer 2" Ball Valve on the Oil Drain Tube. The Oil Transfer Valve Handle is Vertical when the Valve is open.



6. Move the Funnel up by grasping the upper portion of the Drain Tube and pulling up to the desired height.
7. Unlock the Retaining Collar with its set screw and slide the Collar and Locking Washer down to the top of the 2" nipple. This will hold the funnel at the proper height.
8. Open the Vehicle's Oil Pan Drain Plug and allow gravity to drain the Oil into the Funnel.
9. Replace the Vehicle's Oil Drain Plug when the Oil has completely drained from the Vehicle.
10. Lower the Oil Drain Funnel by grasping the upper portion of the Drain Tube with one hand while lifting up on the Lock Washer at the Base of the Drain Tube with the other hand, then sliding the Drain Tube downward.



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## To Empty the RD-20SE by Air Evacuation:

**⚠ WARNING:** An RD-20SE fully loaded with oil can weigh in excess of 200 lbs. (90 kg). Handle with care and use assistance when moving. Empty the Rolling Oil Drain often.

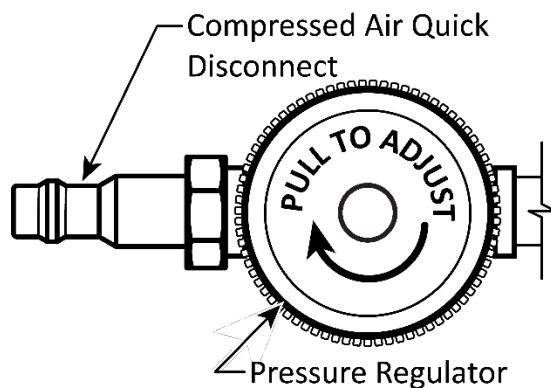
1. Move the RD-20SE close to the Waste Oil Container.

**⚠ WARNING:** **Never apply pressure to the unit while the Oil Transfer 2" Ball Valve is open!** The Valve Handle is horizontal when the Valve is closed. You may have to raise the Funnel to close the Valve.

2. Connect one end of the Discharge Hose to the Quick Disconnect on top of the Tank.
3. Connect the other end of the Oil Discharge Hose to the waste oil storage container.

**⚠ CAUTION** Secure the end of the Discharge Hose to the waste oil storage container! The Compressed Air and Oil may exert enough force to move the discharge hose in an unpredictable manner spraying oil over the area. Never leave the Unit unattended while discharging oil.

4. Verify the Compressed Air Regulator is closed. Maximum compressed air supply pressure is 120 psi (8 Bar). Do **not** overpressure.



5. Attach the Compressed Air Supply to the RD-20SE at the Quick Disconnect plumbed to the Regulator and Pressure Gauge.

**⚠ WARNING:** **Never exceed 120 psi input air pressure!**

6. Slowly open and adjust the Air Regulator to apply pressure to the Oil Drain Tank. Use only enough pressure to evacuate the Tank.
7. When the Tank is empty, close the Compressed Air Supply Valve and disconnect the compressed air supply from the RD-20SE.
8. Disconnect the Discharge Hose from the RD-20SE at the Quick Disconnect.
9. Keeping the Quick Disconnect above the level of the Waste Fluid Container, slowly gather the Discharge Hose and drain its remaining Oil into the Waste Fluid container.
10. Clean any spilled Oil immediately and dispose of oily rags or oil absorbent material in accordance with all national, state and local regulations.

# Label

**Ranger** **RD-20SE**

**Air-Evac Oil Drain**

**20 GAL**  
CAPACITY

☒ Minimum Height: 52" (1,321 mm)  
☒ Maximum Height: 83" (2,108 mm)

**⚠ WARNING**

**FAILURE TO READ AND UNDERSTAND THESE WARNINGS AND INSTRUCTIONS MAY RESULT IN LOSS OF LOAD, DAMAGE TO EQUIPMENT AND/OR FAILURE RESULTING IN INJURY OR DEATH.**

**TO DRAIN OIL INTO RD-20SE**

- ☒ Position RD-20SE under reservoir to drain and raise funnel to desired height.
- ☒ Open the transfer valve allowing oil to drain into tank. (The valve is open when the handle in the vertical position.)

**TO EVACUATE OIL FROM RD-20SE**

- ☒ Position RD-20SE next to oil storage receptacle.
- ☒ Attach discharge hose to the male coupler on the drain.
- ☒ Secure the other end of the discharge hose to the oil storage receptacle.
- ☒ Close the transfer valve. (The valve is closed when handle in the horizontal position.)
- ☒ Attach the air hose to begin evacuation.

**WARNINGS**

- ☒ **DO NOT OVERLOAD** the equipment beyond its rated capacity.
- ☒ **OVERLOADING** can cause damage to or failure of the equipment and/or surroundings.
- ☒ **ALWAYS** use equipment on a dry, hard, flat, level surface capable of sustaining the load. Use of equipment on other than dry, hard, flat, level surfaces can result in equipment instability and possible loss of load.
- ☒ **READ AND UNDERSTAND** all warnings, safety precautions and instructions prior to use.
- ☒ These warnings, and precautions, cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are required at all times when using this equipment.
- ☒ **DO NOT** exceed a maximum air pressure of 120 p.s.i.
- ☒ **ALWAYS** inspect hoses and connections for signs of wear or damage prior to each use.
- ☒ **ALWAYS** dispose of used oil according to all EPA regulations.
- ☒ **NEVER** tamper with, modify or disable, in any way, the components of this equipment.
- ☒ **NEVER** leave unit unattended when operating or evacuating.
- ☒ **NEVER** use near open flame or heat source.
- ☒ **ALWAYS** raise drain bowl and close main valve before emptying.
- ☒ **ALWAYS** disconnect air supply after emptying.
- ☒ **NEVER** use unit for handling highly volatile fuels and fluids.
- ☒ **USE ONLY** the nozzle assembly provided.
- ☒ **NEVER** pressurize tank with ball valve open.

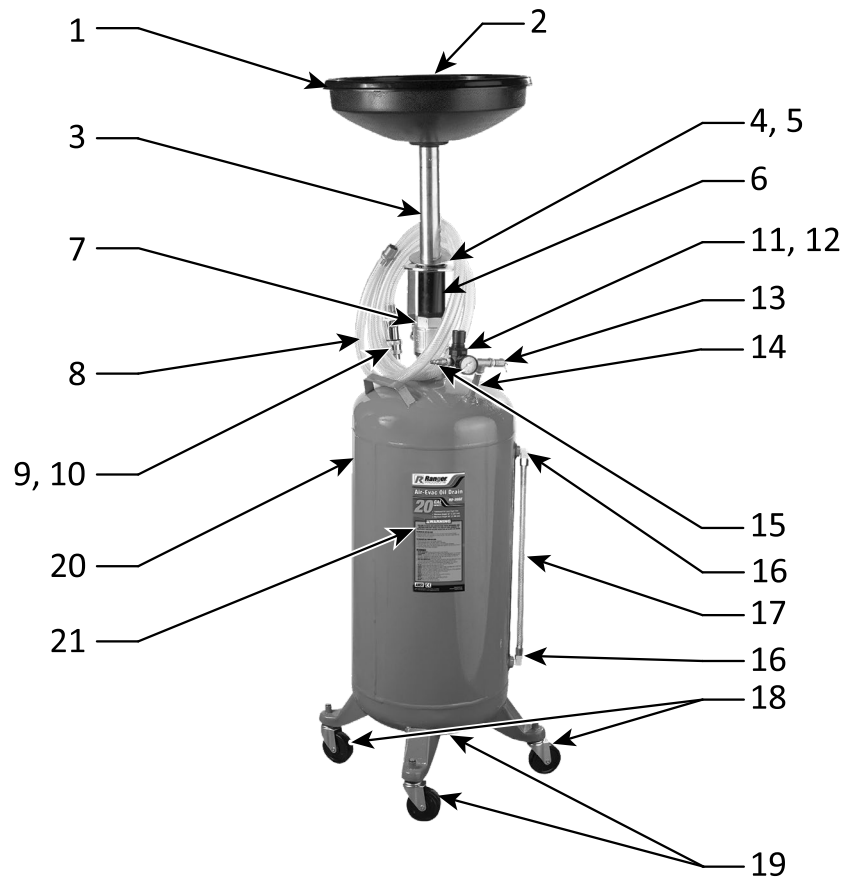
**CE**

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ENGINEERED BY RANGER PRODUCTS USA  
MADE IN CHINA. PN 5905168

PN 5905168

# Parts List




| Item      | P/N     | Description  |
|-----------|---------|--|
| <b>1</b>  | 5325595 | RD-20SE Receiver Funnel                            |
| <b>2</b>  | 5325126 | RD-20SE Receiver Screen                            |
| <b>3</b>  | 5325384 | RD-20SE Drain Tube                                 |
| <b>4</b>  | 5325385 | RD-20SE Drain Tube Lock Washer                     |
| <b>5</b>  | 5325797 | RD-20SE Retaining Collar                           |
| <b>6</b>  | 5325404 | RD-20SE Base Nipple                                |
| <b>7</b>  | 5325383 | RD-20SE 2" Transfer Valve                          |
| <b>8</b>  | 5325405 | RD-20SE 10' Discharge Hose                         |
| <b>9</b>  | 5325386 | RD-20SE Male Quick-Disconnect Coupler              |
| <b>10</b> | 5325387 | RD-20SE Female Quick-Disconnect Coupler            |
| <b>11</b> | 5325399 | RD-20SE Air Pressure Regulator                     |
| <b>12</b> | 5325353 | RD-20SE Pressure Gauge                             |
| <b>13</b> | 5325401 | RD-20SE Safety Pressure Relief Valve               |
| <b>14</b> | 5325354 | RD-20SE Threaded Pipe To Regulator                 |
| <b>15</b> | 5325402 | RD-20SE Air Hose Adapter                           |
| <b>16</b> | 5550270 | 90° Fitting; 10mm x 1/4 Sight Hose Fitting, Rev. A |
| <b>17</b> | 5323263 | RD-20SE Fluid Level Sight Hose, 19.5" Long         |
| <b>18</b> | 5325867 | RD-20SE Locking Swivel Caster, Rev.-A              |
| <b>19</b> | 5325868 | RD-20SE Non-Locking Swivel Caster, Rev.-A          |
| <b>20</b> | 5325557 | RD-20SE 20 Gallon Tank                             |
| <b>21</b> | 5905168 | RD-20SE Product Label                              |

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# Maintenance

If any worn or broken components are found, take the unit out of service and arrange for repair. Do not use this unit until it is safe

 **WARNING:** Always wear appropriate personal protective equipment **while performing any maintenance!**

## To maintain your Rolling Air Evacuation Oil Drain:

- Keep the Rolling Oil Drain clean and free of debris and dirt.
- All exposed surfaces of the Oil Drain may be brushed clean and wiped with a weak solution of soap and water to remove grease and oil.
- Regularly wipe clean the Pressure Relief Valve, Pressure Gauge and Quick Connectors.
- Verify the 2" Oil Transfer Ball Valve is opening and closing completely. If the valve sticks or will not completely open/close then disassemble and clean debris from the valve.
- Inspect for leaks and dispose of waste oil in accordance with all local, state, and federal regulations.
- Check Casters and Brackets for damage and wear. Replace as required.

 **WARNING** Do not operate your Air Evacuation Oil Drain if you find issues; instead, take the unit out of service, then contact your dealer, visit [rangerproducts.com/support/](https://rangerproducts.com/support/), or call **(805) 933-9970** follow the prompts to reach the Service Department.









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