

Balcrank



Patent # 5,921,262



ROUGHNECK
Pumpless Drain
Model #4110-009
FOR USED OIL ONLY
Model #4110-015
FOR USED ANTI-FREEZE ONLY

Thoroughly read and understand this manual before installing, operating or servicing this equipment.


**OPERATION, INSTALLATION,
MAINTENANCE AND REPAIR GUIDE**


GENERAL SAFETY REQUIREMENTS

NOTE: THOROUGHLY READ AND UNDERSTAND THIS MANUAL BEFORE INSTALLING, OPERATING, OR SERVICING THIS EQUIPMENT.

Terms:

NOTE: Gives more explanation of a procedure, or a helpful hint.

 **CAUTION:** Alerts user to avoid or correct a condition which may or could cause damage and/or destroy the equipment.

 **WARNING:** Alerts user to avoid or correct conditions which could cause bodily injury.

Always - read and follow the fluid and solvent manufacturers's recommendations regarding the use of protective eye wear, clothing, gloves and other personal equipment.


Check equipment regularly and repair or replace worn and damaged parts.


Never alter or modify any parts of this drain, doing so may cause damage to drain and/or personal injury.

Under no circumstances should the outlet nozzle be aimed at any person at any time. Personal injury may result.

THIS DRAIN CONTAINS ALUMINUM AND ZINC-PLATED PARTS. DO NOT use 1-1-1 Trichloroethane, methylene chloride or other halogenated hydrocarbon solvents or fluids containing such solvents in this drain. Use of these solvents/fluids may result in a violent chemical reaction, causing serious bodily injury, property damage or death.

All fluids used in this drain must be chemically compatible with the materials used to manufacture the "wetted parts". Consult your chemical supplier to ensure compatibility.

 **WARNING:** Red line on riser tube must **NOT** be visible when draining oil into unit.

 **WARNING:** To discharge oil from unit, drain tube must be **FULLY EXTENDED**. Red line on riser tube must be visible above latch mechanism prior to attaching air line for oil discharge.


 **WARNING:** Do not alter or remove the dispense nozzle. The hose/nozzle assembly is designed to provide an open and uninhibited drain passage from the tank to the tip of the nozzle. Any alteration which creates a closure of this passage may result in product malfunction.

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Technical Data

Air Pressure Operating Range	5-25 psi
Capacity	24 gal.
Telescoping Range.....	0-27 in.
Maximum Pressure	25 psi
Pressure Relief Valve.....	30 psi
Air Inlet Size (Quick-connect).....	1/4"
Fluid Outlet Nozzle.....	1" O.D.
Fluid Outlet Hose	3/4" I.D.x 7' long
Estimated Evacuation Time.....	3 - 4 min.
Wetted Parts	Steel, Viton

Product Description

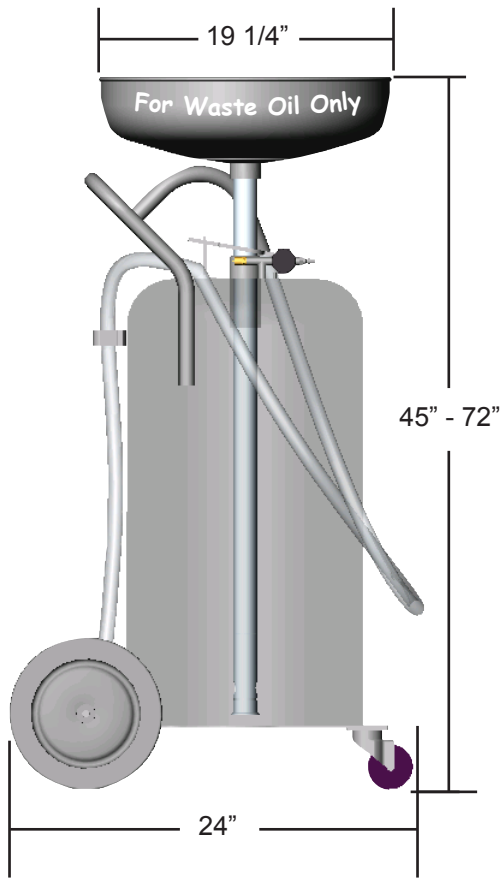
The Roughneck pumpless drain is designed for fast simple waste oil disposal. The tank holds 23 gallons of waste oil with the clear hose doubling as the dispense hose and as a visual level gauge. The bowl telescopes from 45" off the ground to 72" high, with a quick-action locking lever to securely hold the bowl at any height.

The drain is pressure regulated to never exceed 25 psi, although there is a safety relief valve set to vent at 30 psi. The quick connect air inlet is 1/4", and the unit comes with a mating air coupler. The drain only requires 5-25 psi to efficiently empty its reservoir.

The evacuation hose is 7' long and made of polypropylene. It has a 1" O.D. curved nozzle on the dispense end to mount securely in the waste oil reservoir. The estimated time to evacuate the tank is 3 to 4 minutes depending on the air pressure.

The drain has large diameter rubber wheels for ease of maneuvering through any shop. It is constructed of heavy gage steel to resist dents and handling.

Dimensions



Overall depth is 17-1/2"

⚠ WARNING: Do not alter or remove the dispense nozzle. The hose/nozzle assembly is designed to provide an open and uninhibited drain passage from the tank to the tip of the nozzle. Any alteration which creates a closure of this passage may result in product malfunction.

Operation

NOTE: All Fluids used in this drain must be chemically compatible with the materials used to manufacture the “wetted parts”. Consult your chemical supplier to ensure compatibility.

⚠ WARNING: Red line on riser tube must **NOT** be visible when draining oil into unit.

1. Place Roughneck drain under vehicle and drain oil. When drain is full (use clear hose on side of drain as visual level gauge) move unit near waste oil tank or bulk storage container.
2. Place nozzle securely in opening of waste oil container.
3. **Raise drain bowl until red line shows above latch mechanism.**
4. Attach air supply to Roughneck drain with quick coupler.

⚠ WARNING: To discharge oil from unit, drain tube must be **FULLY EXTENDED**. Red line on riser tube must be visible above latch mechanism prior to attaching air line for oil discharge.

5. Allow oil to flow into waste container until nozzle blows air. Detach air supply.
6. To assure accurate oil level in sight tube, raise hose to allow all oil to drain back into tank. (See fig. 1).
7. Lower drain bowl. Return drain to service area.



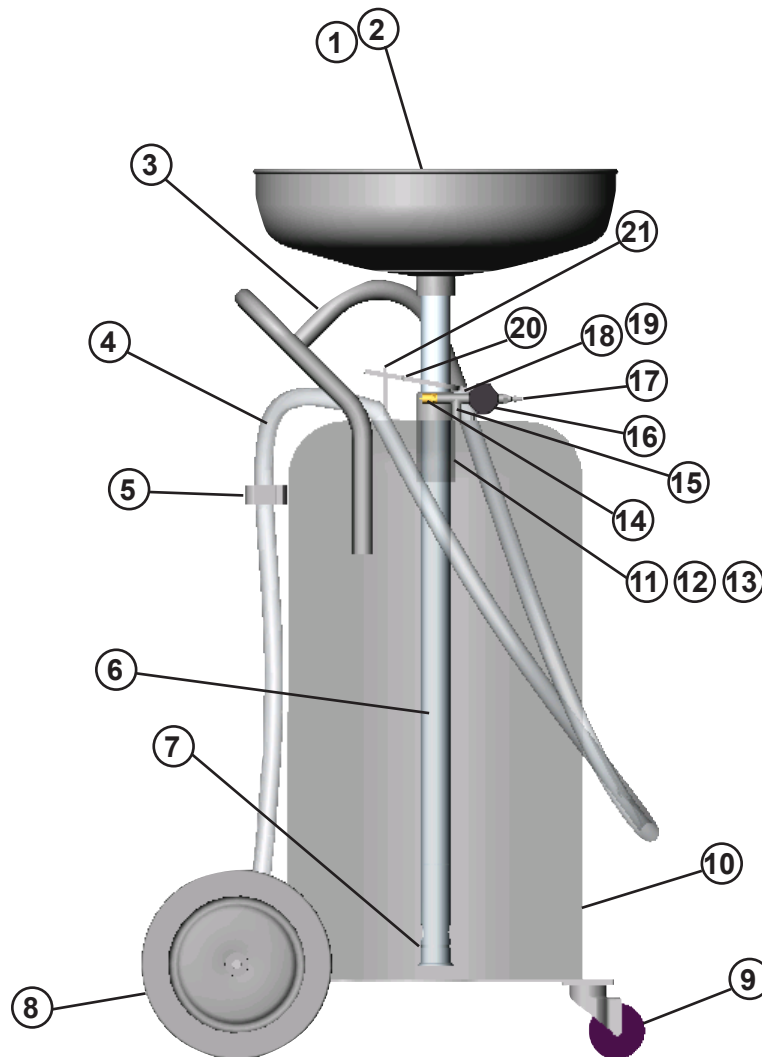
Fig. 1

Parts Listing

ITEM	PART	DESCRIPTION	QTY.
1	824211	Bowl	1
2	828001	Conical Spring (inside bowl)	1
3	828002	Nozzle	1
4	831250	Hose Assembly/Sight Gauge	1
5	807624	Pipe Clamp	1
6	831247	Riser Tube Weldment	1
7	831241*	O-Ring (Tube OD)	1
8	825221	Wheel	2
9	832446	Caster	2
10	831239	Tank Weldment	1
11	828473	Guide Tube Assembly	1

ITEM	PART	DESCRIPTION	QTY.
12	827442*	O-Ring (Guide Tube ID)	1
13	830277*	O-Ring (Guide Tube OD)	1
14	828004	Pressure Relief Valve	1
15	806017	Tee	1
16	826381	Regulator	1
17	813462	Air Nipple	1
18	824822	Clevis Pin	1
19	807727	Spring	1
20	824369	Locking Handle	1
21	828474	Latch Bracket	1

*Included in seal kit 831275



Troubleshooting

Emergency Relief Procedure:

- 1) Remove air supply.
- 2) Grasp ring on pressure relief valve and pull, hold out to allow air pressure to bleed off.
- 3) Lower drain bowl.

If unit will not drain:

- 1) Check to be sure red line is visible above latch mechanism, see Operation, page 4.
- 2) Check outlet port and hose for blockages.
- 3) Check o-ring (Item # 7) for damage and replace if necessary.



WARNING: To discharge oil from unit, drain tube must be **FULLY EXTENDED**. Red line on riser tube must be visible above latch mechanism prior to attaching air line for oil discharge.



WARNING: Do not alter or remove the dispense nozzle. The hose/nozzle assembly is designed to provide an open and uninhibited drain passage from the tank to the tip of the nozzle. Any alteration which creates a closure of this passage may result in product malfunction.

Revision Log:

Rev. G - Changed part number of item 9
(caster)

Balcrank Lubrication Equipment Warranty Statement

All Balcrank equipment sold by authorized Balcrank distributors is warranted to their original customer to be free from defects in materials and workmanship for a period of one year from the date of sale to that customer. Selected Balcrank equipment carries warranty terms for a more extended period as defined in the Balcrank Lubrication Equipment & Accessories User Price List, wherein a "lifetime" warranty represents a warranty period of thirty years. Within the initial one-year warranty period, Balcrank will repair or replace all Balcrank equipment determined by Balcrank to have defective materials or workmanship. For equipment carrying more extended warranties, Balcrank will repair or replace the product including parts and labor during the first full year and will provide parts only for the remainder of the warranty period.

This warranty applies only to equipment installed and operated according to applicable Balcrank Service Bulletins and Installation Instructions.

Any equipment claimed to be defective must be returned, freight prepaid, to an Authorized Balcrank Service Center (ASC). Upon receiving candidate warranty equipment from a customer, ASC will: 1) diagnose to determine the warrantable condition of the equipment, 2) submit, prior to repair or replacement, a request to Balcrank for warranty authorization, then 3) in cooperation with Balcrank, proceed with repair locally or forward the equipment to Balcrank and obtain replacement. If the part(s) or equipment items are found defective upon inspection by Balcrank, they will be repaired or replaced, and then will be returned to the ASC. If Balcrank finds the claimed part(s) or equipment not to be defective, the ASC will receive written authorization from the original customer, and then repair them for a reasonable charge to the customer, which will include all applicable parts, labor, and return transportation costs.

Optionally, the customer may submit certain eligible products directly to Balcrank for warranty return by using Balcrank Lubrication Equipment Direct Service Warranty Procedure. Eligible products are defined in the Balcrank Lubrication Equipment & Accessories User Price List. Refer to the Balcrank web site www.balcrank.com for a copy.

Any equipment returned to Balcrank must have the Warranty Service Claim number (WSC#) clearly marked on the outside of the carton. Balcrank's sole responsibility is for defects in material and workmanship, and Buyer's sole and exclusive remedy hereunder, shall be limited to repair or replacement of the defective part or equipment.

This warranty does not cover, nor shall Balcrank be liable for repair or replacement of parts or equipment resulting from general wear and tear through use, or damage or failure caused by improper installation, abuse, misapplication, abrasion, corrosion, insufficient or improper maintenance, negligence, accident, alteration, or substitution of non-Balcrank parts.

Furthermore, the Warranty for Lubrication Equipment and Accessories does not cover the following specific conditions:

- Failure or damage to equipment caused by dirt or debris in compressed air lines and fluid lines. This includes, but is not limited to, clogged inlet filters, strainers, or regulators; fluid meters; control handles; fluid tips; and valves.
- Failure of normal wear parts including but not limited to: o-rings, packings, seals and valves unless originally improperly installed by the factory.
- Products placed in applications for which their use was not intended. Examples include but are not limited to Lubricant pump being used to pump solvents, or placing equipment intended strictly for indoor use outdoors
- Damage to equipment resulting from operation above and beyond Balcrank's recommendations.
- Leaks at air and fluid fittings and connections.
- Damage caused by thermal expansion whenever adequate pressure relief was not included in the system.
- Loose suction tubes on pumps.
- Incorrect hose reel spring tension, requiring adjustment.

THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL BALCRANK BE LIABLE FOR ANY SPECIAL, CONSEQUENTIAL, OR OTHER DAMAGES OF SIMILAR NATURE, INCLUDING BUT NOT LIMITED TO LOST PROFITS, LOST PRODUCTION, PROPERTY DAMAGE, PERSONAL INJURY, WHETHER SUFFERED BY BUYER OR ANY THIRD PARTY, IRRESPECTIVE OF WHETHER CLAIMS OR ACTIONS, LEGAL OR EQUITABLE, FOR SUCH DAMAGES ARE BASED UPON CONTRACTS, WARRANTY, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE. ANY CLAIM OR ACTION FOR BREACH OF WARRANTY MUST BE BROUGHT WITHIN TWO (2) YEARS FROM THE DATE OF SALE TO THE ORIGINAL CUSTOMER.

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