



# PORTA-MILKER

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## INSTRUCTION MANUAL



# PORTA-MILKER SET-UP INSTRUCTIONS

## Section 1 PORTA-MILKERS SHIPPED BY UPS

### INSPECTION

**Step 1** Unpack all boxes. Inspect and identify all parts. Separate Use & Care manuals should be supplied with the Vacuum Pump, Electric Motor and Gas Engine. Report any shortage immediately.

### HANDLE

**Step 2** Attach handle to tank platform with four 5/16" x 1" machine bolts including 5/16" flat and lock washers.

### VACUUM PUMP

**Step 3** Set vacuum pump on tank platform and attach rubber coupling to pump and tank nipples and fasten with 2 hose clamps. Fasten pump to platform with four 5/16" x 1-1/2" machine bolts including 5/16" flat washer and 5/16" lock washers. Tighten securely.

### MOTOR or ENGINE

**Step 4** Mount 1 HP electric motor on tank platform with four 5/16" x 1" machine bolts using flat and lock washers. Do not tighten. If a 6 HP gasoline engine is supplied, secure it to the adjustable slide base already mounted to the tank. Do not tighten. Attach # A31 V-belt to pump pulley and electric motor pulley. (Attach a # A34 V-belt if a gasoline engine is supplied.) Slide motor or engine until the V-belt is snug, not tight, and lined up squarely. Tighten the 4 engine or motor mount bolts securely .

### BELT GUARD

**Step 5** Attach expanded metal belt guard to tank platform with two 5/16" x 1" machine bolts with flat and lock washer.

### VACUUM REGULATOR

**Step 6** Attach vacuum relief valve (or optional Muller vacuum controller) to 1-1/4" threaded opening using pipe thread sealer.

### VACUUM GAUGE & STALL COCK

**Step 7** Attach 1/2" x 12" galvanized pipe into threaded 1/2" opening in tank platform using pipe thread sealer. Attach galvanized tee to the pipe.

**Step 8** Attach vacuum gauge to the top opening of the galvanized tee using pipe thread sealer. Use proper wrench on brass fitting. Do not tighten by twisting on gauge body or damage may occur.

**Step 9** Attach stall cock to side opening of galvanized tee using pipe thread sealer. See Photo #2.

**Step 10** Refer to the vacuum pump instruction manual. Fill the vacuum pump oil reservoir with oil by removing the rubber plug on the top and adding vacuum pump oil as directed. **If using a 6 HP gasoline engine, refer to its instruction manual. Fill the crankcase with oil per instructions.** Also, add fuel to the gas tank. The Porta-Milker is now ready for operation.

## Section 2 PORTA-MILKERS SHIPPED BY TRUCK

**Step 1** When shipped by truck, the Porta-Milker is almost fully assembled. Unpack the boxes carefully and inspect and identify all parts .

**Step 2** Attach handle to vacuum tank platform with four 5/16" x 1" machine bolts using 5/16" flat and lock washers. Tighten securely .

**Step 3** Attach vacuum gauge to top of 1/2" x 12" galvanized pipe using pipe thread sealer.

**Step 4** Refer to the vacuum pump instruction manual. Fill the vacuum pump oil reservoir with oil by removing the rubber cap on the top and adding vacuum pump oil as directed. See Photo#11. **If using a 6 HP gasoline engine, refer to its instruction manual. Fill the crankcase with oil per instructions.** Also, add fuel to the gas tank. The Porta-Milker is now ready for operation.

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# PHOTO GUIDE PORTA-MILKER INSTRUCTION MANUAL



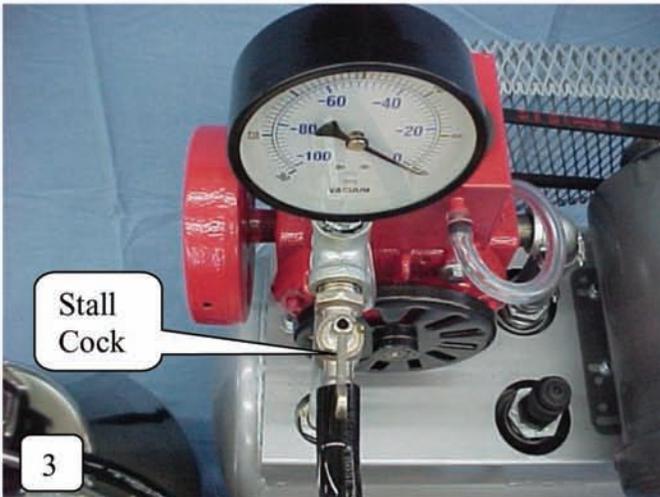
1

3005003 Base Unit w/ 3005113 Bucket & Lid & 3005205 Milking Cluster Assembly.



2

Vacuum Gauge  
Stall Cock  
Stall Cock shown in closed position.  
(No vacuum supplied to bucket assembly)



3

Stall Cock  
Stall Cock shown in open position.  
(Vacuum is supplied to bucket assembly)



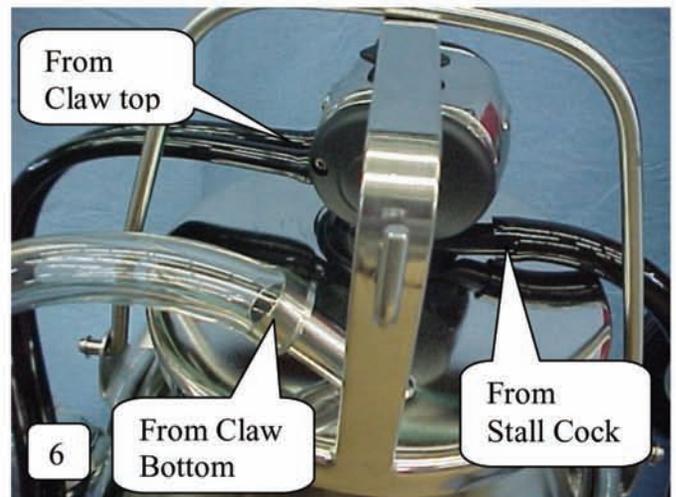
4

Claw Shut-off  
Claw Shut-off shown in closed position.  
(No vacuum supplied to teat cup ends)



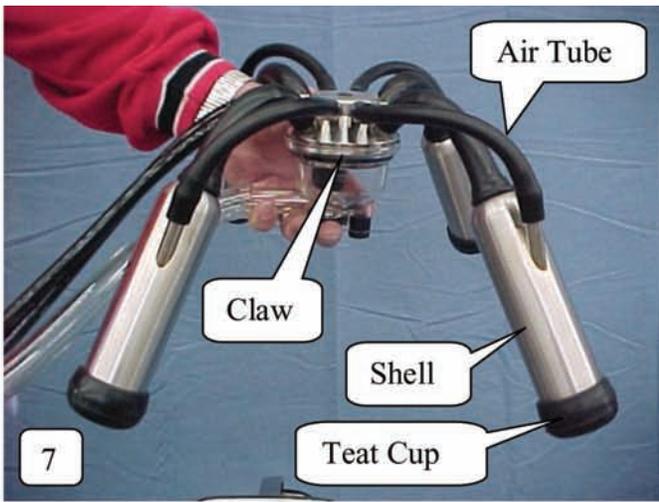
5

Claw Shut-off  
Claw Shut-off shown in open position.  
(Vacuum is supplied to teat cup ends)

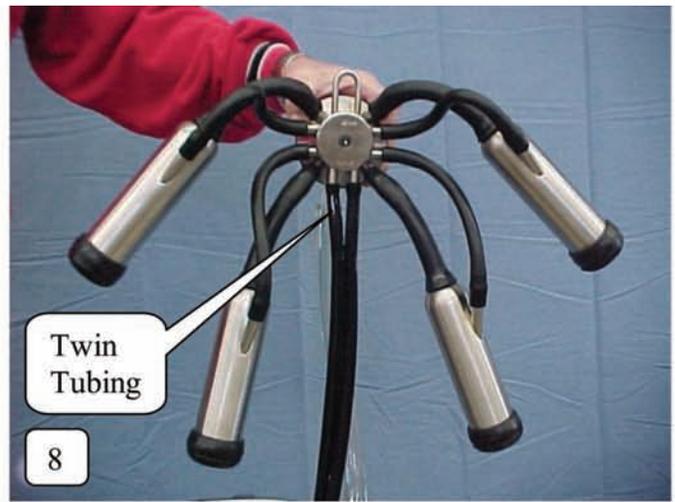


6

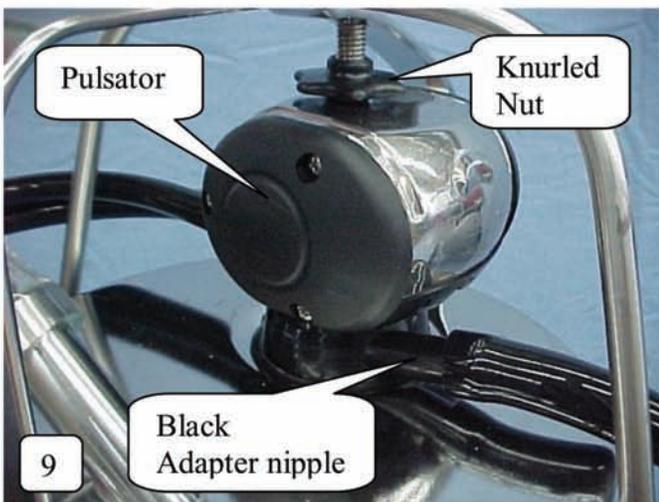
From Claw top  
From Claw Bottom  
From Stall Cock  
Hose connections at bucket.



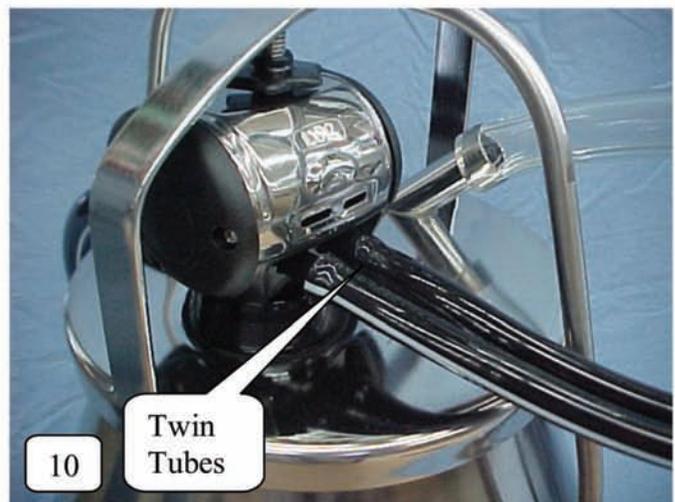
Cluster assembly.



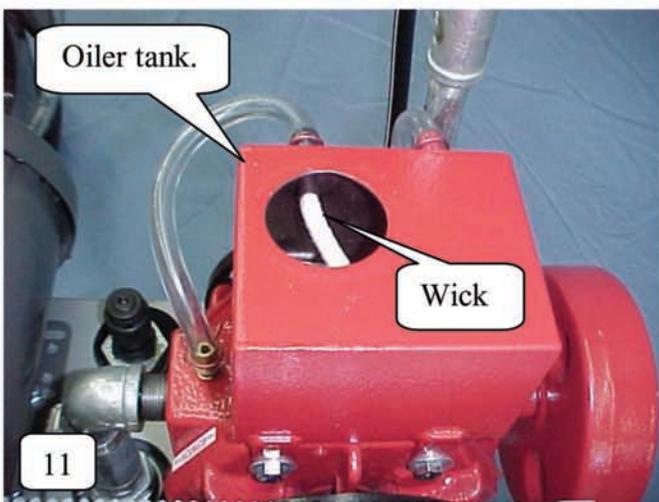
Twin tubing from pulsator.



Pulsator and black adapter nipple.



Twin tube connection to pulsator.



Oiler tank of vacuum pump. (Plug shown removed)  
IMPORTANT: Read Conde Manual supplied.



Relief Valve.

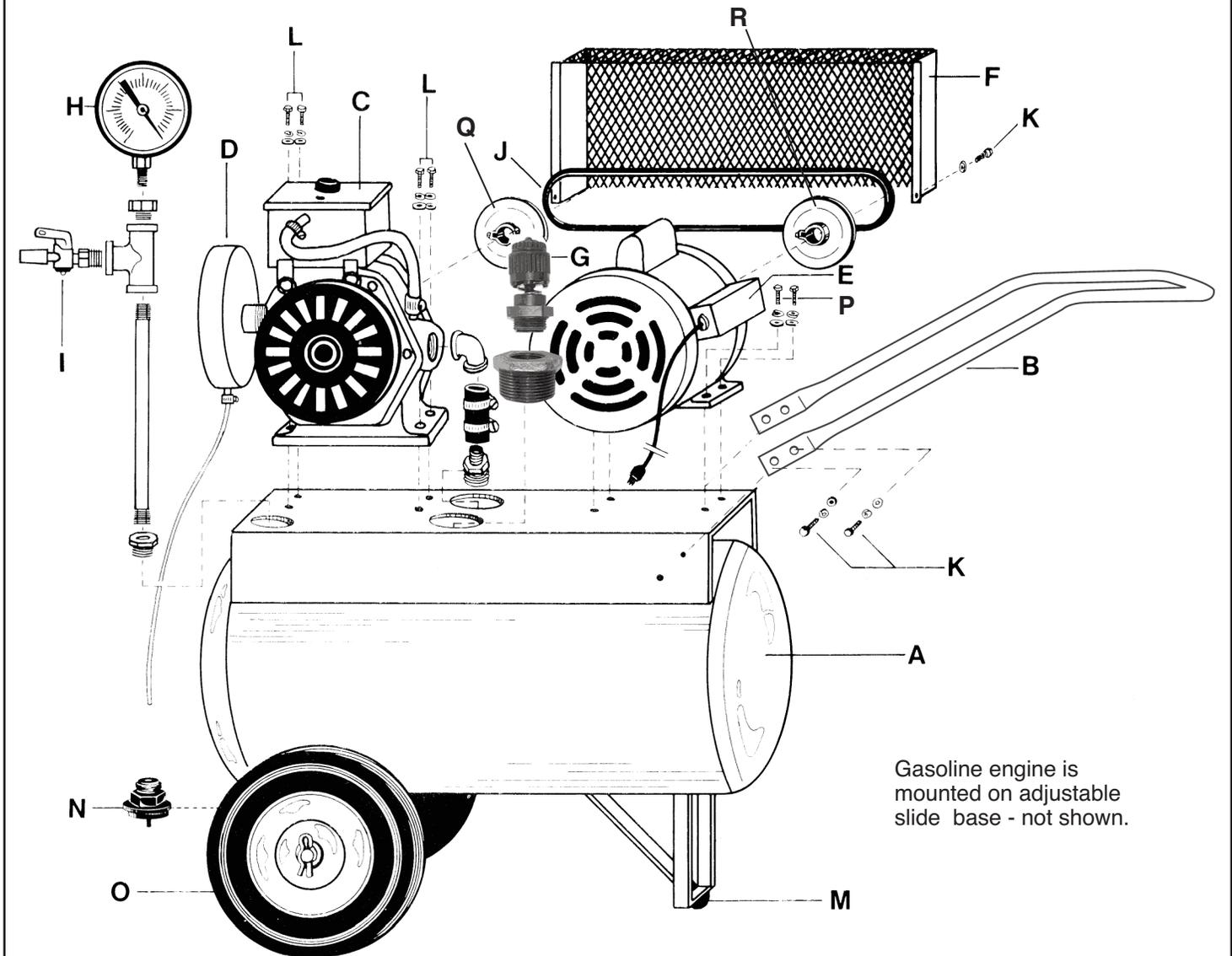
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# PARTS LIST



Gasoline engine is mounted on adjustable slide base - not shown.

Ref.	PART NO.	DESCRIPTION
A	1900106T	Tank
B	097-2002	Tank handle
C	OL03CC91	Vacuum pump
D	MF0392	Muffler for vacuum pump
E	FDL3510M	1 HP electric motor
	121432-0036-E2	6 HP gasoline engine (optional)
F	1900106BG	Belt guard for electric motor
	1900106BGTL	Belt guard for gasoline engine (optional)
G	3400018	Relief valve
H	52AC	Vacuum Gauge (for units with motor)
H	55AC	Vacuum Gauge (for units with engine)
I	12S	Stall cock
J	A31	V-Belt (for motor)
J	A34	V-Belt (for engine)
K		5/16" x 1" Machine bolts, flat & lock washers
L		5/16" x 1-1/2" Machine bolts, flat & lock washers
M	161	Bumper
N	9120100	Plastic drain valve
O	110-58-OFHD	10 X 1.75 Wheel
P		5/16" x 1" Machine bolts, flat & lock washers (motor)
Q	3X911-5	Pump Pulley
R	3X907-3	Pulley (for motor)
R	3X897	Pulley (for engine)

# Operating Instructions

## Milking with your Coburn Porta-Milker

1. Set up your Porta-Milker according to the instructions in this manual. Plug electric motor into heavy duty 3-prong grounded power cord. For gasoline engines, pull starter cord only after checking oil and gas level. Once motor or engine is running, wait a few moments, then visually inspect clear tube on vacuum pump oiler to make sure that oil is flowing to the pump.

With the stall cock (item I on the parts list) in the closed position (see Photo #2), the vacuum gauge (H) should read 15" if milking cows, or 13" for goats or sheep. If not, the vacuum relief valve (G) can be adjusted by loosening the locking nut and turning the body until the desired vacuum level is reached. See photo #12. If you are using the optional 23020 Muller Vacuum Regulator, read the manual provided for adjustment instruction.

Attach tubing from stall cock (I) to black adapter nipple on the bucket lid as in photos #6 and #10. Assemble your claw cluster per photos #7 and #8. Attach the appropriate hoses to the bucket lid and pulsator per photo #6. Slide the locking bucket handle into place above the pulsator to tightly join the lid and bucket. If the handle is very stiff, you may adjust the knurled nut (photo #9) to loosen slightly. Readjust the knurled nut in future to keep a firm seal. You are now ready to begin milking.

**2. THE MILKING PROCEDURE** Before attaching the teat cups, the animal should be prepared by careful washing and drying of the teats. Hand strip the initial milk. This helps stimulate the udder to let down the milk and also helps remove bacteria and impurities from the teat end.

Holding the claw in one hand, make sure the teat cups and shells droop (bend) over the stubs of the claw as in photo#7. Open the shut-off on the bottom of the claw and lock open. While kneeling next to the animal, lift each individual teat cup and attach. Try to do this in a rapid efficient manner so as not to lose milking vacuum.

When the animal is finished milking, close the shut-off at bottom of claw (photo #4) so as not to pull the teat cups off the udder under vacuum.

To empty the bucket, shut off stall cock at vacuum source per photo #2. Then open the shut-off, photo #5, to release vacuum in bucket. Do not overfill the bucket when milking as this could flood the vacuum tank. If this happens, the vacuum tank must be thoroughly flushed.

**3. THE WASHING PROCEDURE** After milking, the cluster and buckets must be washed immediately.

Hold claw upside down so teat cups and shells hang down. Open claw shut-off, photo #5. Plunge the teat cups in and out of the rinse water to draw water and air through the claw and into the bucket. Use about 10 liters. Shut off vacuum and drain the bucket. Repeat above procedure this time adding a suitable soap (detergent) to the 10 liters of water. Shut off vacuum and drain. Repeat plunging procedure, this time with 10 liters of cold water with a sanitizing (disinfectant) added.

Wash and rinse bucket gasket and outside surfaces of bucket and cluster. Hang cluster to dry. Turn bucket upside down to drain, then wipe dry to be sure no trace of detergent, disinfectant or hard water is left on the surface of the stainless steel. Over time, this could cause pitting or corrosion. **Careful attention to the cleaning and drying procedure is essential to preserve both your milking equipment and your animal's health.**

### 4. PERIODIC MAINTENANCE

**Every day:** Check oil level on pump reservoir per photo #11. Check vacuum level. Check drain valve (part N) at bottom on tank. It should close under vacuum and open off vacuum to drain tank moisture.

**Every 6 months.** Flush vacuum pump. Change teat cups (inflations) every 6 months or 1200 milkings.

**Every year:** Change all rubber parts, gaskets and hoses. If you are storing your pump for more than 1 month: Flush pump with flushing oil or kerosene. Put fresh oil in pump. Run pump for a few minutes at least once per week.

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