



Headquarters/Manufactured By:

Sponge-Jet, Inc. (USA)

14 Patterson Lane, Newington, NH 03801 1-603-610-7950 / www.spongejet.com

Table of Contents

Section	Page	
1.0	Introduction	3
2.0	Safety Checklist	4
3.0	Requirements	5
4.0	Operation	6
5.0	Maintenance	9
6.0	Troubleshooting	12
7.0	Drawings	13
	Notes	19
	Addendum	20

IMPORTANT NOTE: While parts, systems, components, operational procedures may be the same between equipment models, the images provided in this manual may vary from model to model.

This manual represents the following models and their approximate working capacity:

Model:

35P

35P-CE

50E

50P-CE

English Language is Original Instructions.

Translated from Original Instructions.

1.0 Introduction



Basic Components

- 1. Hopper
- 2. Main Rim
- 3. Vibratory Section
- 4. Safety Skirt
- 5. Large Particle Downspout
- 6. Pan Clamp Hook
- 7. Pan Clamp
- 8. Reusable Media Downspout
- 9. Fine Particle Downspout
- **10. Pressure Gauge**
- 11. Air Inlet Valve
- 12. Lubricator
- 13. Regulator
- 14. Air Filter
- **15. Supply Line Connection**
- 16. Bracket
- 17. Muffler
- 18. Motor





2.0 Safety Checklist

- The Sponge-Jet Inc. Recycler is a pressurized system. Only trained operators should adjust, maintain and repair this equipment.
- o Inbound pressure should never exceed 8.6bar (125psi).
- o <u>All</u> pneumatic lines should be inspected for holes, wear and proper fit.
- Safety pins and restraints should be fitted at <u>all</u> Air Hose couplings to prevent accidental disconnection.
- Vibrating parts should <u>never</u> come in contact with static or stationary items.
- Verify the unit is stable, secure and on a flat surface.
- Do not operate without the safety skirt in place.
- Before all activities (other than normal operation), ensure the entire system is depressurized.

IMPORTANT: Under **NO** circumstances should any inspection, adjustment or lubrication be conducted while running or connected to an air supply.

3.0 Requirements

3.1 Air Supply/Compressor

Clean, dry compressed air must be supplied. This unit requires a minimum air supply of **2m³/min (70cfm)** at **2.8bar (40psi)**.

3.2 Air Supply Connection

This unit has a 12.7mm (.5in) standard pipe typically fitted with a 12.7mm (.5in) universal 2 lug coupling. The air supply hose should be fitted with a mating connector or replace both connectors as desired.





Connect a minimum 12.7mm (.5in) supply hose to **Supply Line Connection**. **Note:** High humidity environments require additional moisture separators.

3.3 Ambient Temperature

Ambient temperature should be above 0° Celsius (32° Fahrenheit). Otherwise:

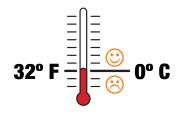
- a) Use winter grade pneumatic tool oil in lubricator.
- b) Minimize moisture in supply air.
- c) Bearing grease will thicken in cold environments, requiring use of low temperature grease. Warming the unit prior to operation may be required.

3.4 Media Waste & Collection

Containers are necessary under each downspout for collection and transport Sponge Media™ and waste.







4.0 Operation

Before Recycler Pressurization and Operation:

- Vibrating parts should <u>never</u> come in contact with static or stationary items.
- Verify the unit is stable, secure and on a flat surface.
- o <u>All</u> pneumatic lines should be inspected for holes, wear and proper fit.
- Safety pins and restraints should be fitted at <u>all</u> Air Hose couplings to prevent accidental disconnection.
- Before all activities (other than normal operation), ensure the entire system is depressurized.

Make sure the unit is unrestricted. Rigid connections reduce efficiency and can lead to damage.





Check **Pan Clamps** for tightness. They should not exceed 14kg (30lbs.) each at the end of the lever handle. Adjust by turning **Pan Clamp Hook**.







Connect air supply hose to **Supply Line Connection** and secure with safety pins and restraints. **Note:** Regulators are factory set between 2.5-2.8bar (35-40psi) and should not require adjustment.





Confirm pneumatic tool oil is visible in **Lubricator** (see section 5.0).

Place buckets/bags under each **Particle Downspout**.





Turn on by opening Air Inlet Valve.





Add blasted Sponge Media through **Hopper.**



7 of 19

Oversized particles are ejected from **Large Particle Downspout**.

WASTE: Dispose of Properly



Recyclable Sponge Media is ejected from **Reusable Media Downspout**.

RECYCLABLE MEDIA: To create working mix, add 5% to 10% new Sponge Media; this mixture is now ready to blast.



Smaller contaminants and spent Sponge Media are ejected from **Fine Particle Downspout**.

WASTE: Dispose of Properly



Important: Determining <u>acceptable</u> dust levels is dependant upon the project environment. If lower dust levels are required, pass recycled Sponge Media through **Hopper** one or more additional cycles.

5.0 Maintenance

IMPORTANT: Under **NO** circumstances should any inspection, adjustment or lubrication be conducted while running or connected to an air supply.

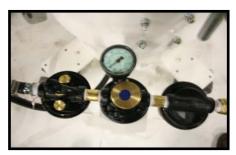
5.1 Bearing Grease

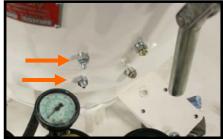
This unit was greased before shipment. If the unit has not been used for one year, add 1 to 2 pumps of grease. Use quality NLGI #2 grease such as:

- Citco AP, Citco oil
- Ore-Lube K2
- Mobilux, Mobil Oil Co.
- Socony, Mobil Oil Co.
- Val-Lith #IP, Valvoline Co.
- VS SGA, MM Industries, Inc.
- Multifak #2, Texaco Inc.
- Alvanie R#, Shell Oil Co.

5.2 Access to Grease Fittings

The two bearings should be greased by fittings on the side of the machine.



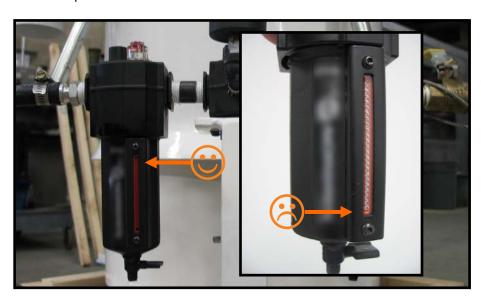


DO NOT OVERGREASE.

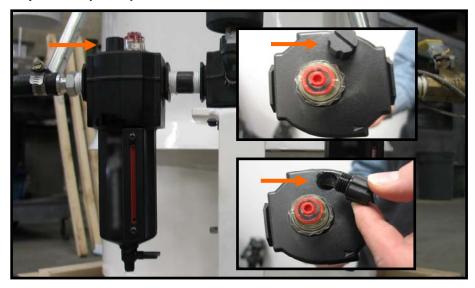
IMPORTANT: This unit was greased before shipment. Add grease using 1 to 2 pumps every 40 hours of operation. If the unit has not been used for one year, add 1 to 2 pumps of grease.

5.3 The Lubricator

Check the pneumatic oil level in **Lubricator**.



Refill with pneumatic tool oil through the fill port on top as required. Use only ${\bf SAE}$ ${\bf 5W}$ (ISO 32) ${\bf NON-DETERGENT}$ ${\bf OIL}$



Sieve Assembly

NOTE: Failure to properly assemble and fasten **Sieve Assembly** will dramatically shorten it's operating life.

Assemble as follows:

















- Place Fine Particle Downspout through hole provided in Vibratory Section. Note: Be sure downspout is centered.
- 2. Place a **Flat Gasket** into **Shallow Funnel**.
- 3. Place the Bottom Screen (#16*mesh) onto Flat Gasket. IMPORTANT: Place mesh screen side up**
- 4. Place a **Flat Gasket** onto the mesh of **Bottom Screen**.
- 5. Place **Main Rim** over **Flat Gasket**.
- 6. Place a **Flat Gasket** into top of **Main Rim**.
- 7. Place **Top Screen** (#3* mesh) into **Main Rim** and on top of **Flat Gasket**. **IMPORTANT: Place mesh screen side up****
- 8. Place a **Flat Gasket** onto the **Top Screen**, making sure to center the **Flat Gasket**.
- 9. Place Hopper over Flat Gasket.
- Attach all **Pan Clamps**. These must be adjusted properly to secure **Sieve Assembly** (refer to 4.0 Operation).

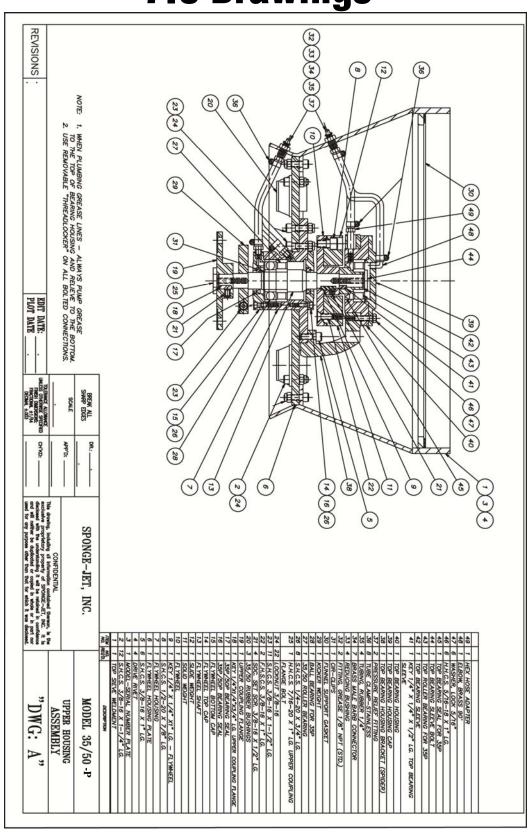


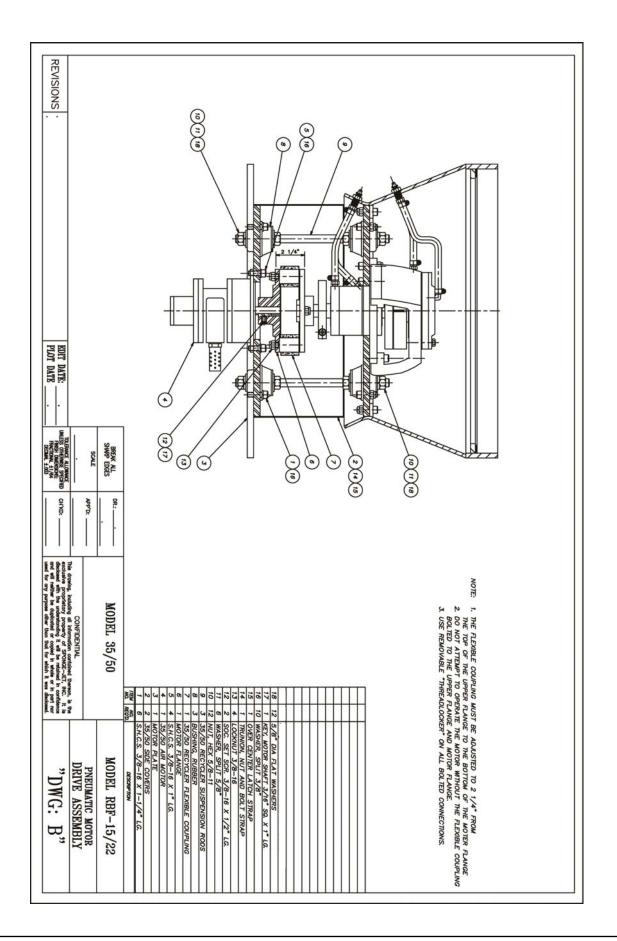
- *Top Screen standard size is #3; Bottom Screen standard size is #16 unless other sizes are specified or provided.
- **Screens <u>must</u> be assembled with mesh side up. Incorrect assembly will cause poor operation.

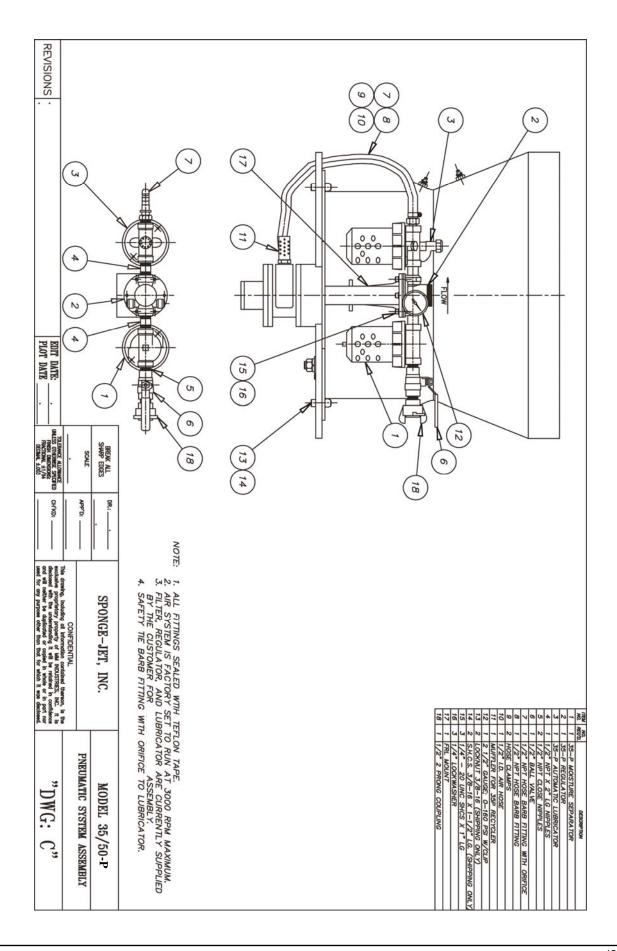
6.0 Troubleshooting

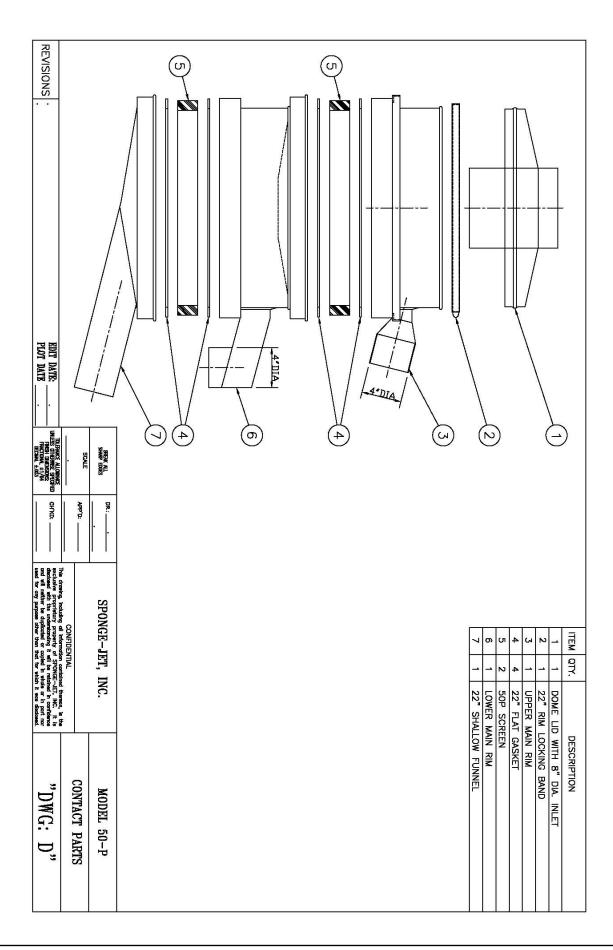
Unit won't turn on or vibration	Confirm Pressure Gauge reads between 2.5-2.8bar(35-40psi).	
is slow	If unit temperature is near freezing or below,	
	a) Warming the unit prior to operation may be required.	
	b) Use winter grade pneumatic tool oil in lubricator.	
	c) Minimize moisture in supply air.	
	If vibration is slow but unit is operating, run without Sponge Media until vibration normalizes.	
Sponge Media is exiting	Confirm Top Screen is properly installed and free of debris.	
Large Particle Downspout		
When Blasting, excessive	Confirm Bottom Screen is properly installed.	
amounts of dust are observed	Additional dust reduction can be achieved by:	
	1. Passing Sponge Media through unit again.	
	2. Using a smaller number Bottom Screen (with larger wire spacing).	

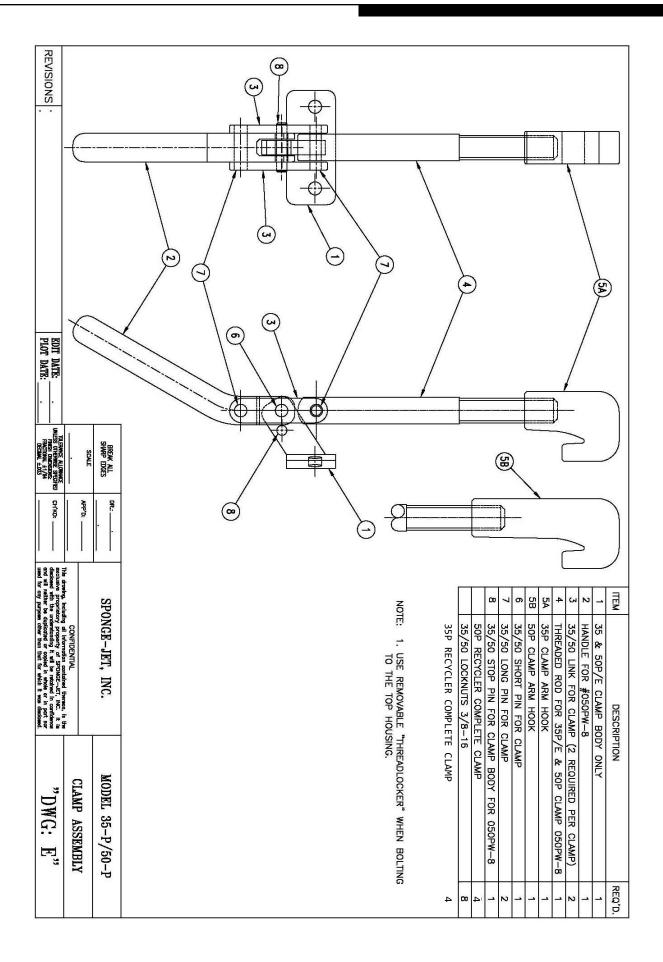
7.0 Drawings

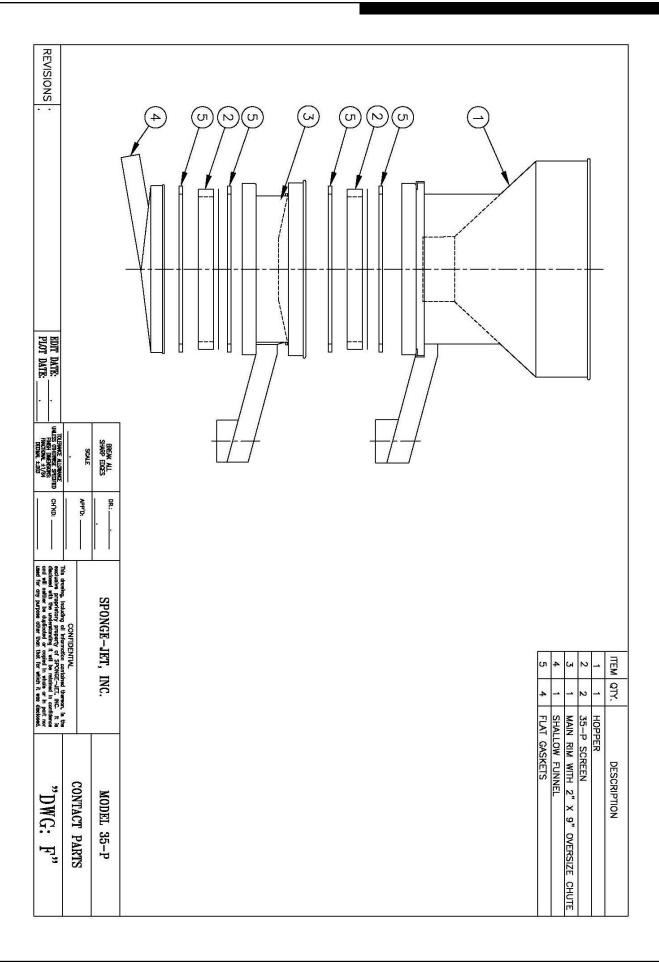












N	lotes:
-	
_	
-	
_	
-	
_	
-	
-	
-	
-	
-	
-	
-	
-	
_	
-	
-	
-	
N	лоdel#:
2	ERIAL#:



Dry, Low Dust Abrasive Blasting Technology Sponge-Jet, Inc. 14 Patterson Lane, Newington, NH 03801 USA / 1-603-610-7950 USA / Fax: 603-431-6043 www.spongejet.com

EC Declaration of Conformity

We Of:

Sponge Jet Inc. 14 Patterson Lane, Newington, N.H. 03801 Telephone Inquiries to: 1-603-610-7950

Email: sjadmin@spongejet.com



Hereby declare that:

Equipment: Sponge-Jet Recycler

Model: 25P-CE or 35P-CE or 50P-CE

Serial Number: XXXX Year of construction: XXXX

Is in conformity with the applicable requirements of the following standard documents

The Directives covered by this Declaration:

Machinery Directive: 2006/42/EC (Formerly 98/37/EC)

The Machinery Directive 2006/42/EC Standards:

Minit

EN ISO 14121-1-2007 - (Safety of Machinery—Risk Assessment)

I hereby declare that the equipment named above has been designed to comply With the relevant sections of the above referenced specifications. The unit complies With all applicable Essential Requirements of the Directives.

Signed:

Name: Michael T Merritt

Position: President On This Date: XX/XX/XXXX

Authorised Representative:

Eurolink (Europe) limited Avalon House Marcham Road Abingdon OX14 1UD UK