

4" J-FORCE™ GEN III

QUICK START GUIDE

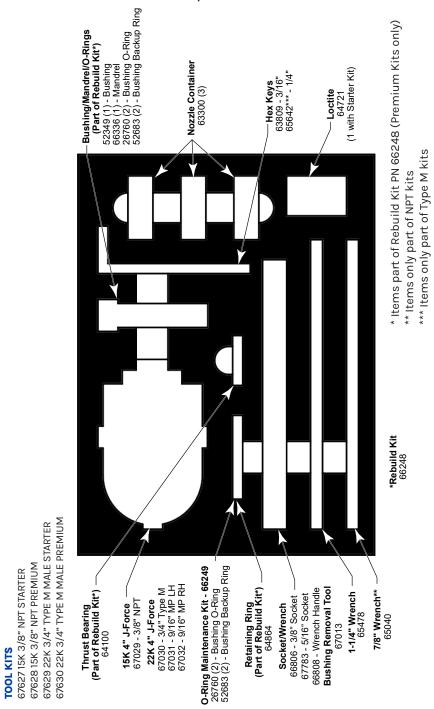
QSG-197



JF4X15	JF4X22			
15,000	22,000			
2,500				
	40			
1000	1550			
170				
150				
3/8" NPT	3/4" Type M 9/16" MP LH/RH			
4				
102				
1000 - 2000				
JS2, P2TCS				
2 @ 10°, 2 @ 45°, 2 @ 100°, 2 @ 135°				
2.75				
3.85				
3.85	3.90			
70				
98				
1.75	1.77			
	15,000 2, 1000 1 3/8" NPT 1 1000 JS2, 2 @ 10° 2 @ 100 3 3.85			

Note: Part numbers and descriptions are subject to change without notice.

4" J-FORCE™ GEN III | PARTS PLACEMENT



4" J-FORCE™ GEN III | NOZZLE FLOW RATES

4" J-Force, Universal									
		2500 psi			5000 psi		7500 psi		
Flow	Pull	Nozzle Diamet	er (inches)	Pull	Pull Nozzle Diameter (inches)			Pull Nozzle Diameter (inc	
(gpm)	(lbf)	Fwd x 4, Side x 2	Rear x 2	(lbf)	Fwd x 4, Side x 2	Rear x 2	(lbf)	Fwd x 4, Side x 2	Rear x 2
21				-33	0.018	0.063	-28	0.020	0.052
22	-30	0.018	0.082	-31	0.020	0.063	-39	0.018	0.057
23	-29	0.020	0.082	-29	0.022	0.063	-36	0.020	0.057
24	-28	0.024	0.082	-27	0.024	0.063	-33	0.022	0.057
25	-27	0.026	0.082	-25	0.026	0.063	-49	0.018	0.063
26	-37	0.018	0.090	-37	0.022	0.069	-30	0.024	0.057
27	-35	0.022	0.090	-35	0.024	0.069	-27	0.026	0.057
28	-35	0.024	0.090	-33	0.026	0.069	-44	0.022	0.063
29	-33	0.026	0.090	-46	0.022	0.075	-41	0.024	0.063
30	-32	0.029	0.090	-44	0.024	0.075	-59	0.020	0.069
31	-43	0.022	0.098	-42	0.026	0.075	-38	0.026	0.063
32	-42	0.024	0.098	-25	0.032	0.069	-56	0.022	0.069
33	-27	0.035	0.090	-57	0.022	0.082	-53	0.024	0.069
34	-39	0.029	0.098	-55	0.024	0.082	-50	0.026	0.069
35	-25	0.038	0.090	-34	0.032	0.075	-27	0.032	0.063
36	-51	0.022	0.106						
37	-49	0.026	0.106	-49	0.029	0.082	-45	0.029	0.069
38	-47	0.029	0.106	-30	0.035	0.075	-63	0.026	0.075
39	-33	0.038	0.098	-45	0.032	0.082	-39	0.032	0.069
40	-63	0.018	0.115						

4" J-Force, Universal										
		10000 psi			12500 psi		15000 psi			
Flow	Pull	Pull Nozzle Diameter (inches)		Pull	Nozzle Diamete	er (inches)	Pull	Nozzle Diameter (inches)		
(gpm)	(lbf)	Fwd x 4, Side x 2	Rear x 2	(lbf)	Fwd x 4, Side x 2	Rear x 2	(lbf)	Fwd x 4, Side x 2	Rear x 2	
21	-27	0.020	0.047							
22				-38	0.018	0.047				
23	-40	0.018	0.052				-27	0.020	0.042	
24	-37	0.020	0.052	-34	0.020	0.047				
25	-33	0.022	0.052	-29	0.022	0.047	-46	0.018	0.047	
26	-51	0.018	0.057				-41	0.020	0.047	
27	-48	0.020	0.057	-46	0.020	0.052				
28	-44	0.022	0.057	-42	0.022	0.052	-35	0.022	0.047	
29				-64	0.018	0.057	-56	0.020	0.052	
30	-40	0.024	0.057	-60	0.020	0.057				
31	-36	0.026	0.057							
32	-59	0.022	0.063	-31	0.026	0.052				
34	-29	0.029	0.057							
35	-51	0.026	0.063							

4" J-Force, Universal											
	17500 psi			20000 psi				22000 psi			
Flow	Pull Nozzle Diameter (inches)		Pull Nozzle Diameter (inches)		Pull	Nozzle Diameter (inches)					
(gpm)	(lbf)	Fwd x 4, Side x 2	Rear x 2	(lbf)	Fwd x 4, Side x 2	Rear x 2	(lbf)	Fwd x 4, Side x 2	Rear x 2		
23	-38	0.018	0.042								
24							-33	0.018	0.038		
25	-32	0.020	0.042	-43	0.018	0.042	-26	0.020	0.038		
26							-47	0.018	0.042		
27	-26	0.022	0.042	-36	0.020	0.042					
28	-48	0.020	0.047								



4" J-FORCE™ GEN III | QUICK START GUIDE



THIS PRODUCT CAN BE DANGEROUS IF NOT USED PROPERLY! Always wear appropriate Personal Protective Equipment (PPE). Detailed PPE information can be found at: www.fsesgsafety.com and clicking on the JETSTREAM name or by referring to the yellow JETSTREAM SAFETY WARNING pamphlet (PI-082).

The following Quick-Start Guide is intended to provide the customer with an expedient reference for 4" J-Force Gen III installation and operation. It does not replace the complete product instructions (PI-197).

This product is sold with the understanding that the purchaser agrees to thoroughly train all operators and maintenance personnel in the correct and safe installation, operation, and maintenance of the product and to provide adequate supervision of personnel at all times. JETSTREAM urges customers to make complete instructions available to all personnel and ensure they are read thoroughly before installing, connecting or using the 4" J-Force Gen III. Retain these instructions for future reference. If this product is resold or otherwise conveyed, the purchaser must pass on these instructions to the new user. If any questions remain, or to request additional copies, call JETSTREAM at (800) 231-8192 or (832) 590-1300.

Read the yellow JETSTREAM SAFETY WARNING pamphlet (PI-082) included with the shipment of the product.

CONNECTING 4" J-FORCE GEN III

Prior to the start of any job, make sure only high pressure rated fittings and hoses are used in the waterblasting system.

Prior to installing the 4" J-Force Gen III onto the hose, flush the system to clear any debris.

15K PSI RATED CONNECTION (NPT INLET)

- 1. Apply 3-4 wraps of Teflon thread sealant tape to the available male threads of the connection.
- 2. Apply anti-seize compound over the sealant tape for additional protection against galling.
- 3. Install the JF4X15 by using an appropriate open-ended wrench on flats found on the body and tighten 1-2 turns past hand-tight. All NPT pipe connections should have a minimum thread engagement of (4) threads.

22K PSI RATED CONNECTION (3/4" Type M Male, 9/16" MP LH/RH Inlet)

1. Apply anti-seize compound to the threads of the Type M connection or to the male MP hose/lance end.

NOTE: DO NOT use Teflon tape on 22K PSI connections.

2. Install the JF4X22 by using an appropriate open-ended wrench on flats found on the body and tighten to 90 lb-ft.

NOTE: DO NOT OVERTIGHTEN; damage to coned sealing surface could result.

OPERATION

As per the WJTA-IMCA Recommended Practices, all operators shall follow the OSHA regulations for personal protective equipment. (OSHA guidelines for Personal Protective Equipment are available in document number 3151-12R 2004, which can be obtained from www.osha.gov.) All operators shall be issued suitable head protection, eye protection, hearing protection, body protection, hand and foot protection and respiratory protection (if needed). For detailed specifications on all protections required, refer to the WJTA-IMCA 'Recommended Practices for the Use of High Pressure Waterjetting Equipment' Section 6, Protective Equipment For Personnel.

CAUTION

The 4" J-Force™ Gen III can be used at a minimum service temperature of -20°C (-4°F) and a maximum service temperature of 115°C (240°F). Use at temperatures lower or higher than these recommended temperatures may result in premature tool failure.

- 1. Start by slowly increasing pressure to 500 psi and check the entire system, including all connections, for leaks. Increase pressure in increments, pausing at each to inspect the system for leaks, proper rotation of tool, temperature, and other operational anomalies. If any problems are discovered, lower pressure back to zero and turn off source of power before making any adjustments.
- 2. During operation, it is normal for water to leak out of the front of the head from around the front nozzle (or front plug). This leak-by water comes from the water-bearing that the tool operates on.



WARNING

Remove the nozzle from service if:

- a. The rotor or mandrel shows signs of cracking or other damage.
- b. The wall thickness of these parts is reduced by 25% at any point.
- c. The nozzles can no longer hold pressure at water flow rate for which it was sized.

NOTE: For improved reliability and longer life, it is recommended that a filter of at least 10 microns be used on the water supply inlet. A strainer (100 mesh minimum) must also be used in the water tank (if equipped with tank).



J-Force surface may exceed 200:F.



J-Force utilizes magnets which produce strong magnetic fields. Keep the tool at least 6 inches away from any medical device.

OSG-197



A DANGER

Failure to follow the following instructions will cause unsafe conditions, severe injury can result.

- DO NOT operate the 4" J-Force Gen III above its specified pressure.
- · Operator must wear ear protection due to the noise generated by the spinning nozzle.
- · NEVER stand in the plane of blasting.
- A Lance Safety Grip is recommended to minimize the risk of a live nozzle unexpectedly exiting the tube back at the lance operator.
- · At high-pressure, the water can be hot. Wear gloves and use caution to prevent
- · Place barricades with warning signs or barricade tape around the work area. This includes the waterblast unit and all high-pressure hoses.
- Operator must be outfitted with proper safety apparel (refer to yellow JETSTREAM SAFETY WARNING pamphlet). Body armor is strongly recommended.



CAUTION

DO NOT use the 4" J-Force Gen III if it has not been cleaned and inspected prior to starting the working shift.

FOR FURTHER INFORMATION SEE:



https://www.youtube.com/user/JetstreamWaterblast

and the

Jetstream Safety Manual

