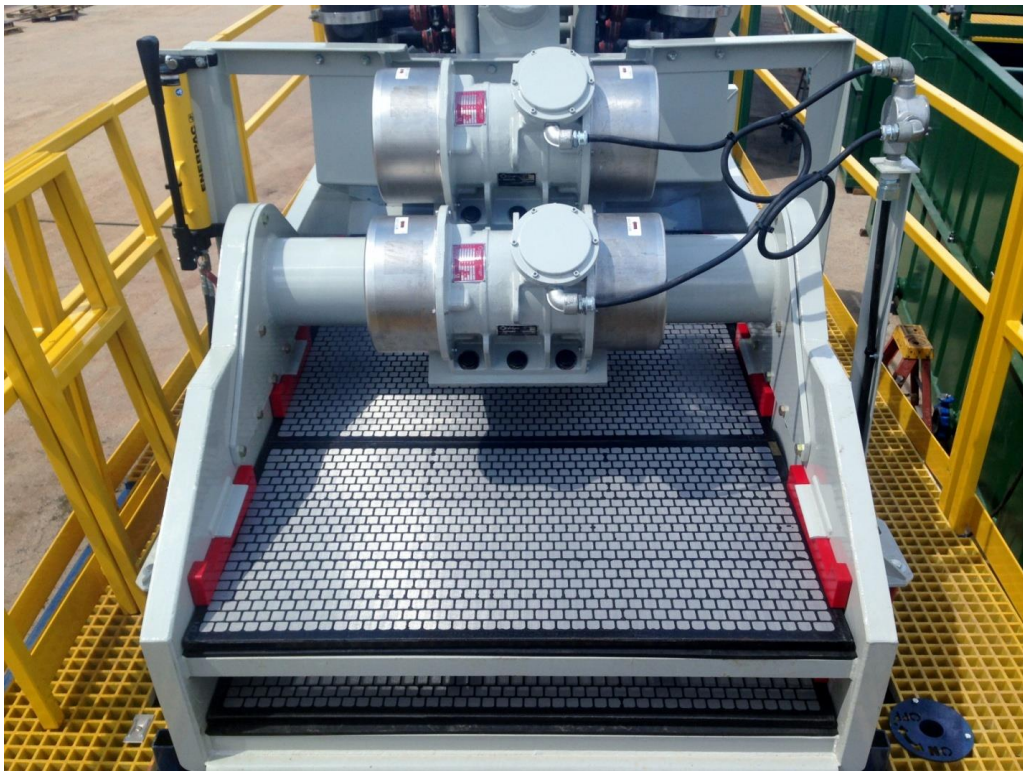


## Triflo 148L-8 Elliptical PTP Shale Shaker ([15-00-010](#))



### GENERAL INFORMATION

The Triflo 148L-8 LINEAR PTP SHALE SHAKER (148L-8) is a compact and reliable solids removal method. This shaker easily removes down to 74 micron particles for proper mud weight maintenance and efficient solids control. This in turn will produce balanced mud rheology which will lengthen pump life, lessen daily fluid maintenance expense and increase penetration rates.

The intensity of vibrations may be varied to suite conditions by changing the position of the adjustable counterweights. Position of 100% gives the maximum, and each successive notch or setting reduces the motion. Position of 0% gives the minimum intensity of vibrations.

**BOTH COUNTERWEIGHTS MUST HAVE THE SAME SETTING.** This is easily checked by a scale located on both inner counterweights.

1. Trailer is complete with air brakes, highway marks and U.S. DOT lighting

## SAFETY

- Before setting up or starting unit make sure all safety and environmental rules and regulations are in compliance and all personnel have the required Personal Protection Equipment.
- Before operating any equipment all procedures, training, PPE is in place and in compliance.
- **NEVER USE THE NON-XP VERSION IN A CLASSIFIED AREA**
- High voltage is present, follow De-Energize and Lock Out/Tag out procedures before maintaining or working on any equipment.
- Only trained Personnel should operate or repair the equipment.
- The successful and safe operation of the equipment on this system depends on proper Handling, Installation, Operation and Maintenance.
- Power down and Lock Out/Tag Out starter before performing any Maintenance or Screen changes or any work on Rotating Machinery.
- Safety Shoes, Safety Glasses, Ear Protection and Head Protection are needed.
- If welding is done – **DO NOT** Ground welder through vibrating screen.
- No person should stand, hold or lean against the vibrating frames.
- Never lay tools or spare parts on the screens while operating.

## POWER REQUIREMENTS

33. The Triflo 148L-8 PTP SHALE SHAKERS are normally wired at the factory for 460 V.A.C. 60 HZ, 3 Phase or 380 V.A.C., 50 HZ, 3 Phase.
34. If 230 V.A.C. 60 HZ, 3 Phase is needed it is necessary to:
  - 34.1 Rewire the motor.
  - 34.2 Replace or adjust overloads.
35. Turn the starter switch on and check the motor rotation.
  - 35.1 The two (2) motors should rotate towards each other, this necessary to obtain linear motion.

## SCREENS

36. The screens used on the 148L-8 are Pretension Panels (PTP) and are held in place by polyurethane wedges. Strike with mallet on "Flag" end toward the angled retainer to loosen and the opposite end to tighten.
37. The 148-8L has seven (7) PTP Screens per Shaker deck, four (4) lower screens and three (3) upper screens.
38. Removal of 148L-8 PTP Screen Panels:
  - 38.1. Remove the lock wedge as described above
  - 38.2. Remove panels toward end of discharge.
39. When the panels are removed, clean and inspect rubber seals on shaker deck.
40. Installation of 148-8L PTP Screen Panels:
  - 40.1 Clean and inspect rubber seal on shaker deck as well as bottom of panel.
  - 40.2 Feed the panels from discharge end of shaker basket.
41. Push back and center panels in basket, make sure that the panels have cleared over holding hooks and panels are tight to the back.
  - 41.1 Place locking wedge blocks under retainers and strike firmly on the end toward retainer and then alternate side to side to insure proper seal and even pressure.

## SCREEN SELECTION

42. Screen to the flow or cut point, if discharging wet, correct by the following:
  - 42.1. Too much flow. Adjust the liquid or slurry by lowering the flow.
  - 42.2. If Slurry Solid Content is high, dilute bring solids to liquid ratio to a manageable level.
  - 42.4. Check for screen blinding (solids stuck in the screen opening or fibers wrapping and/or matting). If blinding is apparent try going up to the next mesh size.
  - 42.4. Last choice, screen to lower mesh, this will let more solids through that section and may interfere with the downstream equipment.
43. Suggested screen selection for the shaker is Mesh 80-325. (This of course will differ depending on the drilling fluid being processed)

## CHANGING THE SPRING COILS ON VIBRATING DECK

44. The Spring Coils on the vibrating deck should be checked every 6 months. New springs measure 6 ¼" tall, when they collapse to less than 5 5/8" they should be replaced.
45. To replace springs you simply lift the shaker deck and swap in the new spring  
Part Number: [03-00-618](#)

Please see [triflo.com](http://triflo.com) for spring selection and replacement

## ADJUSTMENTS

46. Refer to the "Adjustment of Centrifugal Force Output" Section of the Vibratory Motor Manual.
47. The intensity of vibrations may be varied to suit conditions by changing the position of the adjustable counterweights. Position 100% gives the maximum, and each successive notch or setting reduces the motion. Position 0% gives the minimum intensity of vibrations.
  - 47.1 **BOTH COUNTERWEIGHTS MUST HAVE THE SAME SETTING.** This is easily checked by a scale located on both inner counterweights.

## **MAINTENANCE and INSPECTION**

- 48. A regular schedule of complete dismantling, and inspection intervals assure maximum screen life and minimum downtime.
- 49. The customer should keep a complete record of all such preventive maintenance plus a record of any repairs.
- 50. Because the Triflo 148L-8 SHAKER is a vibratory machine, it is important to correct all minor troubles before serious damage develops.
  - 50.1. Replace faulty shaker springs and any missing bolts at once.
  - 50.2. Inspect the equipment for unusual noises and motion.
  - 50.3. Consult Triflo immediately in the event of any failure.

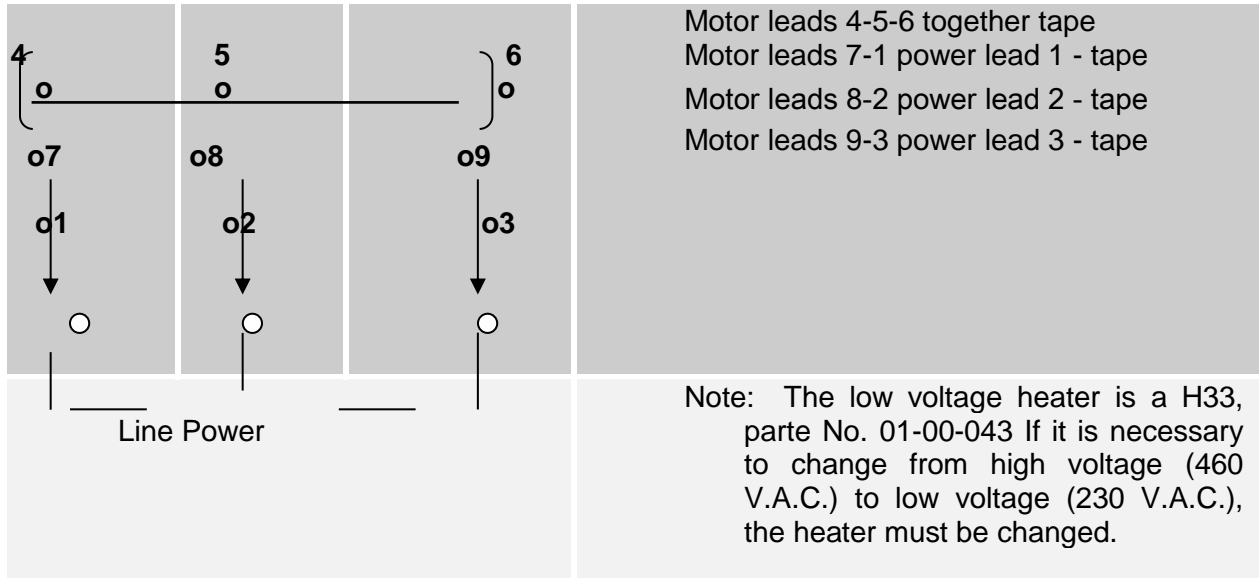
## **ELECTRIC MOTOR**

- 51. Check the mounting bolts.
- 52. Inspect the power cable for wear between the switch and the motor.
- 53. Vibratory motor mounting bolts are to be torqued to 288ft/lbs. (This is done at the Triflo facility upon initial installation).

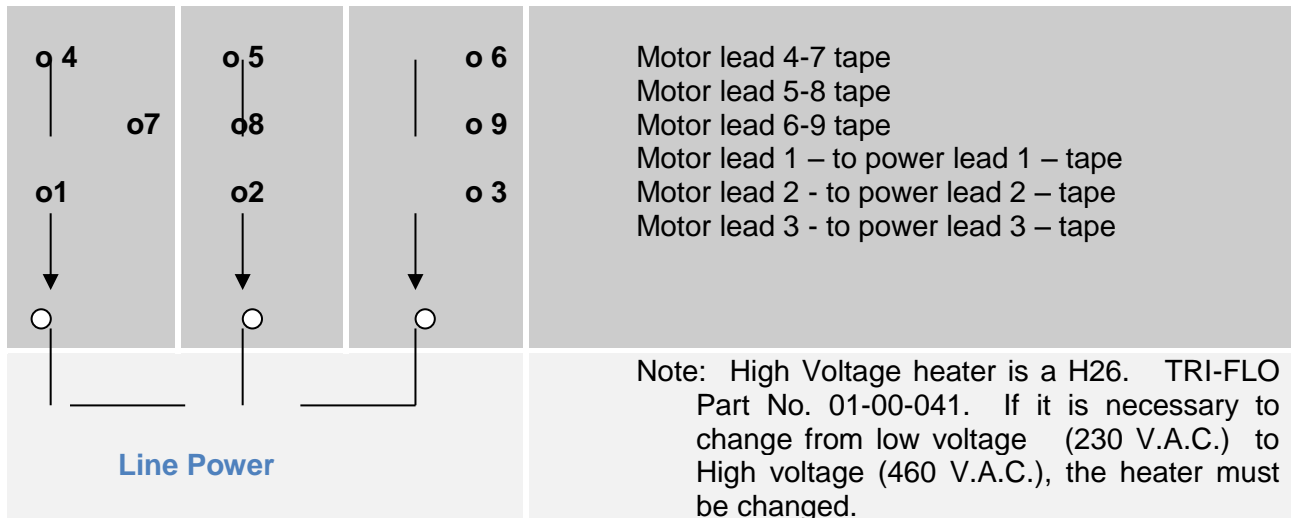
## **SHORT SCREEN LIFE**

- 54. Careless handling and installation.
- 55. Failure to clean all support surfaces prior to screen installation.
- 56. Improper installation of wedgelocks.
- 57. Cuttings build up under the edge of the screen.

### LOW VOLTAGE WIRING



### HIGH VOLTAGE WIRING



**NOTE:** (If the motor rotates in wrong direction reverse any two of the power leads.)

**NOTE:** IF THE MOTOR JUNCTION BOX IS REWIRED OR CHANGED, IT MUST BE PACKED WITH FOAM RUBBER TO PREVENT THE WIRES FROM RUBBING TOGETHER WHEN THE SHAKER IS VIBRATING



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### RECOMMENDED SPARE PARTS FOR ONE (1) YEAR

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY</u>
01-01-179	VIBRATORY MOTOR XP 60Hz, 460v, 1750 RPM <b>(IF YOUR UNIT IS EXPLOSION PROOF)</b>	2
12-00-446	VIBRATORY MOTOR NON-XP 60Hz, 460V, 1750 RPM <b>(IF YOUR UNIT IS NON EXPLOSION PROOF)</b>	2
03-00-618	DECK SPRINGS 146L/148L	4
12-00-489	SCREEN WEDGE LOCKS	14

### PTP SCREENS

<u>Part Number</u>	<u>Description</u>
12-00-625	12 Mesh 146/148 PTP screen
12-00-491	20 Mesh 146/148 PTP screen
12-00-492	30 Mesh 146/148 PTP screen
12-00-493	38 Mesh 146/148 PTP screen
12-00-580	50Mesh 146/148 PTP screen
12-00-581	70 Mesh 146/148 PTP screen
12-00-650	80 Mesh 146/148 PTP screen
12-00-651	100 Mesh 146/148 PTP screen
12-00-164	110 Mesh 146/148 PTP screen
12-00-582	140 Mesh 146/148 PTP screen
12-00-652	175 Mesh 146/148 PTP screen
12-00-817	210 Mesh 146/148 PTP screen
12-00-818	325 Mesh 146/148 PTP screen

Please see [triflo.com](http://triflo.com) for any additional information on replacement parts



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**FOR INFORMATION**

**PLEASE CALL TRIFLO INTERNATIONAL AT:**

**(936) 856-8551                      FAX (936) 856-5668**

**OR TOLL FREE: 1-888-255-2440    EMAIL: [info@triflo.com](mailto:info@triflo.com)**

**Web Site: [www.triflo.com](http://www.triflo.com)**

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**NOTES:**





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