

RICE HYDRO, INC.
MANUFACTURER'S OPERATING INSTRUCTIONS
TR-SERIES (TRH2, TRH8, TRH10) MODEL TEST PUMPS

FOR WARRANTY REGISTRATION CALL 800-245-4777.

CONNECTING THE PUMP:

1. Check oil level of engine, thru sight glass, use 10W30 as needed. Also oil level of pump thru sight glass, use 30 non-detergent as needed.
2. Connect **CLEAN** pressurized water source (minimum ¾") to the inlet of the pump. *It is recommended that the unit be pressure fed.* For gravity feed locate water within 8 feet and above level of unit, and then prime the pump.
3. Connect high-pressure outlet hose to the pump and your test environment.

OPERATING THE PUMP:

1. Turn the outlet ballvalve to the open position, begin water flow, and start engine. **DO NOT ADJUST ENGINE RPM**, it has been preset at the factory.
2. The pressure regulator has been preset at factory also. **To change this setting you must make this adjustment while the water is flowing freely, under no pressure.** To adjust pressure, first loosen the locknut. Turn the **T-handle/knob** clockwise to increase and counter-clockwise to decrease the pressure. Place a ballvalve at the end of outlet hose, open and close ballvalve to check pressure setting and re-adjust as necessary. It is also recommended that you open and close the RICE bleed valve to remove excess air from piping and ensure accurate pressure readings. Once desired pressure setting is reached, **IT IS VERY IMPORTANT THAT YOU RE-TIGHTEN THE LOCK/JAM NUT**, do not leave adjustment handle free to move or vibrate out of setting. If unloader valve handle does fall out see attached diagram to replace parts correctly. **CAUTION: IT IS VERY COMMON TO REPLACE POPPET/BUTTON BACKWARDS, THE LONGER LEG WITH STEEL BALL FACES AWAY FROM THE SPRING.** With the ballvalve open begin building pressure in test environment. Bleed air thru RICE bleed valve at least once during this process. Once test pressure has been reached, **close ballvalve and shut off engine.**
4. Once the outlet ballvalve is closed and your test begins, you have now isolated the test pump from your test environment; any loss of pressure is due to leaks or trapped air in the line.

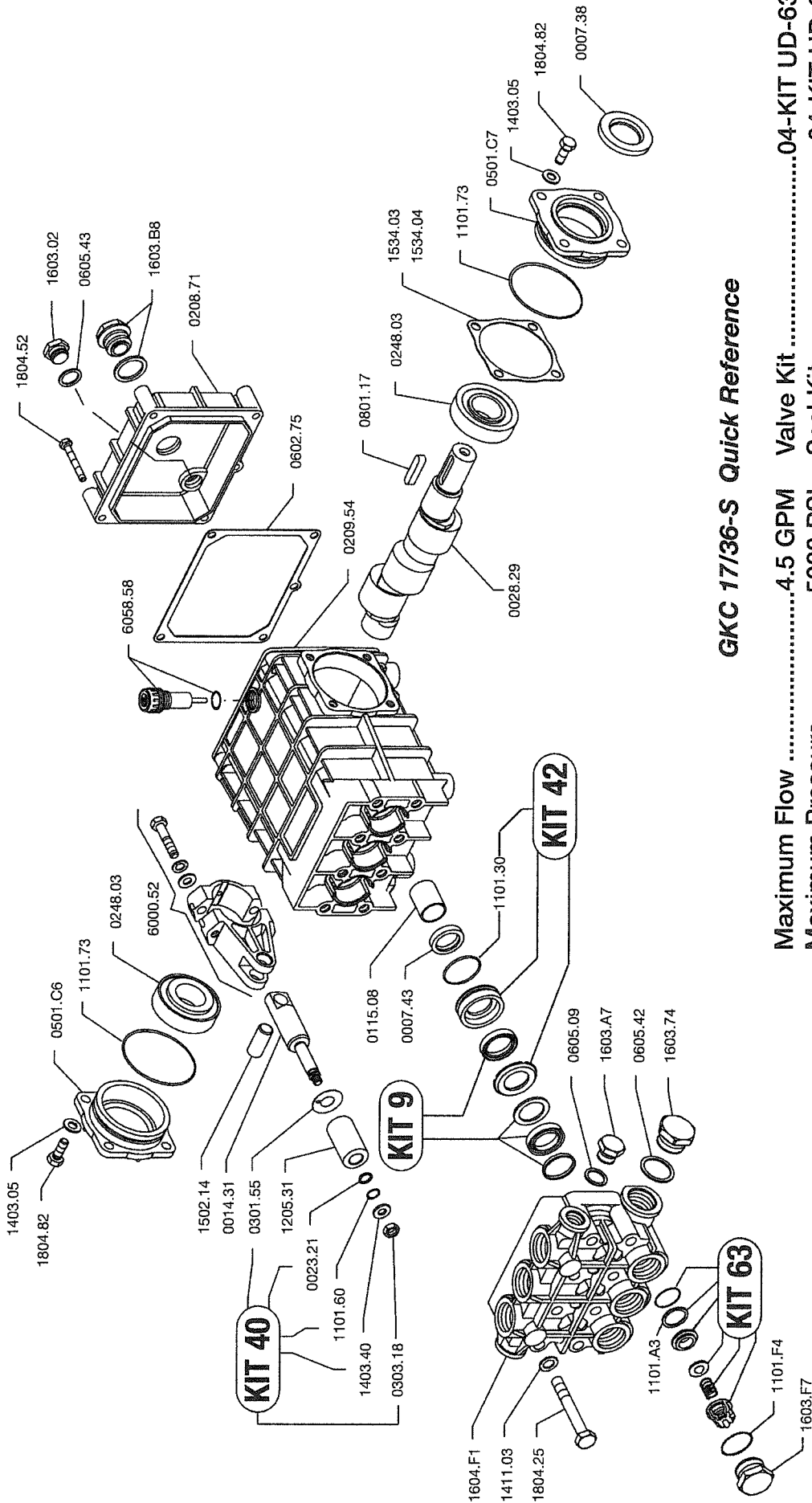
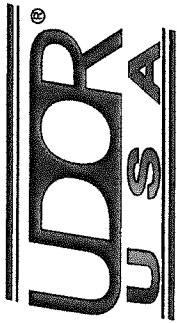
REMEMBER THESE CAUTIONS:

1. Check all oil/fluids in unit before operation.
2. Use a sound ¾" or larger supply hose.
3. DO NOT run dry or pump chlorine through the unit.
4. Protect the pump from freezing, FLUSH with anti-freeze.

RECOMMENDED PERIODIC MAINTENANCE PROCEDURE

1. **Plunger pump - Change oil in the pump body after first 50 hours of use, and every 250 hours thereafter. Change oil in engine after first 5 hours of use, and every 80 hours thereafter.**

GKC 17/36-S



GKC 17/36-S Quick Reference

| | | | |
|------------------------|--------------------------------|------------------------|--------------|
| Maximum Flow | 4.5 GPM | Valve Kit | 04-KIT UD-63 |
| Maximum Pressure | 5000 PSI | Seal Kit | 04-KIT UD-9 |
| Rated Pump Speed | 1450 RPM | Brass Kit | 04-KIT UD-42 |
| Oil Capacity | 40 oz. UDOR LUBE or SAE 30W | Plunger Bolt Kit | 04-KIT UD-40 |
| | Non-Detergent Oil | Plunger Part # | 04-1205.31 |
| | | Plunger Diameter | 20 MM |

PARTS BREAKDOWN FOR MODEL TRH-10 (36-S) SN#39387

RICE HYDRO, INC.

| PART NUMBER.. | DESCRIPTION.. | QTY REQ'D |
|----------------------------|-------------------------------|--------------|
| UD04-0007.38 | SEAL | 1 |
| UD04-0007.43 | SEAL | 3 |
| UD04-0014.31 | PLUNGER ROD | 3 |
| UD04-0023.21 | SUPPORT RING | 3 |
| UD04-0028.29 | CRANKSHAFT | 1 |
| UD04-0115.08 | ROD GUIDE G SERIES | 3 |
| UD04-0208.71 | BACK COVER GKC SERIES | 1 |
| UD04-0209.54 | CRANKCASE G & GK SERIES | 1 |
| UD04-0248.03 | BEARING | 2 |
| UD04-0301.55 | SLINGER RING | 3 |
| UD04-0303.18 | PLUNGER NUT | 3 |
| UD04-0501.C6 | BEARING CAP | 1 |
| UD04-0501.C7 | BEARING CAP | 1 |
| UD04-0602.75 | GASKET | 1 |
| UD02-0605.09 | GASKET | 1 |
| UD04-0605.42 | WASHER | 1 |
| UD02-0605.43 | GASKET | 1 |
| UD04-0801.17 | KEY | 1 |
| UD04-1101.A3 | O-RING | 6 |
| UD04-1101.F4 | O-RING | 6 |
| UD04-1101.30 | RETAINER O-RING | 6 |
| UD02-1101.60 | O-RING | 6 |
| UD04-1101.73 | O-RING | 2 |
| UD04-1205.31 | PLUNGER - 20 MM | 3 |
| UD04-1403.05 | WASHER | 8 |
| UD04-1403.40 | ONLY AVAIL IN KIT #40 | 3 |
| UD02-1411.03 | WASHER | 8 |
| UD04-1502.14 | CONNECTING ROD PIN | 3 |
| UD04-1534.03 | SHIM .003 | 1 |
| UD04-1534.04 | SHIM .010 | 1 |
| UD04-1603.A7 | DISCHARGE PLUG | 1 |
| UD04-1603.A8 | INLET PLUG | 1 |
| UD04-1603.B8 | SIGHT GLASS G SERIES | 1 |
| UD04-1603.F7 | VALVE CAP | 6 |
| UD04-1603.02 | DRAIN PLUG | 1 |
| UD04-1604.F1 | MANIFOLD GKC | 1 |
| UD02-1804.25 | BOLT | 8 |
| UD02-1804.52 | BOLT | 4 |
| UD04-1804.82 | BOLT | 8 |
| UD04-6000.52 | BRONZE CONNECTING ROD - GK | 3 |
| UD04-6058.58 | DIP STICK - GK SERIES | 1 |
| MISC PARTS.. | | |
| GAUGE-6000 | LIQUID FILLED GAUGE | 1 |
| NEEDLEVALVE-1/4 | BLEED VALVE | 1 |
| BALLVALVE-7250-3/8 | OUTLET BALLVALVE | 1 |
| UNLOADER-5000PSI | PRESSURE REGULATOR | 1 |
| COUPLERPLUG-S-3/8 | MALE PUMP OUTLET PIPING QC | 1 |
| COUPLERBODY-S-3/8 | FEMALE CONNECT TO OUTLET HOSE | 1 |
| HOSE-3/8-5000X8-RH | HIGH PRESSURE OUTLET HOSE | 1 |
| FITTING-3/8-MPIPE | RIGID HOSE END | 1 |
| FITTING-3/8-MPX | SWIVEL HOSE END | 1 |
| HOSE-HYD-3/8-HP | CUSTOMER TO SPECIFY LENGTH | |
| LINESTRAINER-1/2 | INLINE STRAINER | 1 |
| HOSESWIVEL-1/2 | SWIVEL HOSE INLET | 1 |
| PUMP-4.5/5000PSI | TRIPLEX PLUNGER PUMP | 1 |
| HONDA-GX630RHQZB3 | GAS ENGINE | 1 |
| HONDA-HD654270 | MUFFLER FOR ENGINE | 1 |
| BATTERY-ACCESSORIES | BATTERY AND ACCESSORIES | 1 |
| KITS.. | | |
| **KITS ARE ALL INCLUSIVE** | | |
| UD04-KIT-UD9 | SEAL KIT - 20 MM | |
| UD04-KIT-UD40 | PLUNGER - O-RING KIT GK HD | |
| UD04-KIT-UD42 | BRASS KIT - GK SERIES HD | |
| UD04-KIT-UD63 | VALVE KIT | |

**Prices subject to change without notice

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