



by Quality Steel & Aluminum Products LLC

DUMP TRAILER

OWNERS MANUAL



QUALITY STEEL & ALUMINUM PRODUCTS LLC.
28620 C.R. 20 WEST * ELKHART, INDIANA 46517

SAFETY FEATURES

SAFETY CHAINS:

Are located on the front of the trailer. Safety chains should always be hooked to the rear of the towing vehicle before the trailer is moved at all.

PROP ROD:

Is located under the trailer towards the lifting end of the right side. ALWAYS put the prop rod in place before doing anything under a raised trailer bed.

BREAKAWAY SWITCH:

This switch must ALWAYS be connected to the towing vehicle.

WHEELS AND LUG NUTS:

Always check lug-nuts)Torque spec for 1/2" lug-nuts are 75-85# and for 9/16" lug-nuts are 135-145#) and tire pressure about every 300 miles and also check for tire wear.

COUPLING VEHICLE TO TRAILER:

First chock the trailer tires to prevent rolling. Back-up vehicle until hitch coupler is directly over hitch ball. (ALWAYS USE CORRECT BALL SIZE THAT IS MARKED ON THE HITCH COUPLER). Lower trailer and insure coupler is seated on hitch ball. Latch coupler and make sure it is locked in place on the hitch ball. Raise jack fully up in position. Hook up safety chains to the vehicle and plug in the 7-way cord, and hook up the break-a-way cable to vehicle.

LOADING:

Load trailer with approximately 60% of the total weight on the trailer tongue. Use caution not to exceed the GVWR of the trailer and/or vehicle. Keep in mind when loading your trailer with sand, gravel and such the approximate weight is 2800 lbs. Per cubic yard.

DUMPING WEIGHTS:

6000# dump trailer will hold aprox. 4000#
7000# dump trailer will hold aprox. 4500#
12,000# dump trailer will hold aprox. 8000#
14,000# dump trailer will hold aprox. 10,000#

TROUBLESHOOTING - MOST COMMON

1. WHEN LOWERING BED, FLUID COMES OUT OF THE RESERVOIR CAP - INDICATES LOW BATTERY
2. BATTERY NOT CHARGING - CHECK VEHICLE FOR CHARGE LINE/CHECK IN LINE FUSE
3. BED FAILS TO RAISE - LOW FLUID LEVEL/LOW BATTERY/OVER LOADED/LOOSE WIRES
4. BED OPERATES IN A JERKING MOTION - AIR PRESENT IN SYSTEM/DEFECTIVE ORIFICE VALVE
5. BED FAILS TO LOWER - LOW BATTERY/LOOSE OR FAULTY WIRING/FAULTY VALVE SWITCH

FILL THIS CARD OUT FOR YOUR RECORDS.

Purchase Date: _____

Model Number: _____

Serial Number: _____

Dealer Name: _____

Address: _____

City: _____

State and Zip: _____

Phone: _____

FOR YOUR WARRANTY

Thank you for choosing a Quality built dump trailer. Now is a good time to complete the warranty form and mail it to

Quality Steel & Aluminum Products LLC

ATTENTION: WARRANTY DIVISION

28620 C.R. 20 West

Elkhart, IN 46517

Within (30) days of the purchase to obtain warranty service.

Important Information



WARNING

This User's Manual contains safety information and instructions for your trailer.
You must read this manual before loading or towing your trailer.
You must follow all safety precautions and instructions.

FAILURE TO ACT IN ACCORDANCE WITH THE FOLLOWING MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

The Quality dump trailer hydraulic package is intended for the sole purpose of extending and retracting the dump bed off the trailer. Its function should not be used for an other purpose or reason then to actuate the dump bed. To use the system for any reason other that what it is designed for may result in damage to the trailer and or cause severe injury or even death.

Before actuating the system, please keep this in mind:

1. Parking locations should be clear of obstructions that may cause damage when the dump trailer is operated.
2. Be sure all people and objects are at least 15 feet away from the dump trailer prior to operation.
3. Keep hands and other body parts away from dump trailer and Hydraulic system during operation, serious injury or death may result.
4. To optimize dump trailer operation, park trailer on solid and level ground.

DESCRIPTION

The dump trailer hydraulic system is made up of, the Power Unit, and the cylinder(s). The Power Unit drives the cylinder(s) rod forward and backward motion to drive the dump bed up and down. The Quality dump trailer is designed to operate as a negative ground system.

QUALITY STEEL & ALUMINUM PRODUCTS LLC. 1-YEAR LIMITED WARRANTY

Quality Steel & Aluminum Products LLC (Quality) warrants any goods, which have been manufactured by Quality for a period of 12 months from the date of shipment. Quality warrants the goods to be free from defective material or workmanship having been supplied or performed by Quality, provided such goods have been operated under proper load, usage, conditions, and competent supervision. Any material or workmanship, which Quality's examination shall disclose to have been defective, will be repaired or replaced (at Quality option) F. O. B. Quality's plant. Correction of defects by repair or replacement by Quality shall be purchaser's sole and exclusive remedy at law or in equity. In no event shall Quality be liable to purchaser for special, incidental or consequential damages. This warranty is made to the Original Owner and is limited to the original goods upon which were manufactured by Quality. All goods manufactured or supplied by other and distributed by Quality carry the benefit of any warranty expressly extended by such manufacturer or supplier to purchaser. However, Quality makes no warranty of any kind with respect to such goods, either express or implied, including any implied warranty of merchantability and any implied warranty of fitness. Quality does not warranty paint or powder coat.

WARRANTOR'S OBLIGATION - HOW TO GET WARRANTY SERVICE

Warrantor shall elect to remedy defects in material and workmanship caused by warrantor by repair, replacement or refund, if replacement or repair is not possible. All defective products shall be delivered to warrantor's address listed above unless prior written approval's obtained from warrantor. Warrantor may, as its option, select another qualified location for the repair to be completed. Warrantor will not be obligated, in any way, to pay for any repairs made without it's specific prior approval. Warrantor shall remedy defects within reasonable time, not to exceed sixty (60) days after delivery by purchaser.

DISCLAIMER OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

The original purchaser of warrantor's product and any person whom the product is transferred, and, any person who is an intended user or beneficiary of the product, shall not be entitled to recover from warrantor any consequential or incidental damages resulting from any defect in the product, damages declaimed include loss of use of trailer, damage to contents of the trailer, loss of revenues or any other commercial losses, subsequent use or rental recruitment, loss of time and inconvenience.

THINGS EXCLUDED FROM WARRANTY

Warranty is not responsible for claims relating to the following (1) trailer rental (2) defacing: scratched, dents, chips, tears, and defacing on any surface not caused by warrantor; (3) routine maintenance; (4) damage from unauthorized repairs, abuse, misuse, or neglect; (5) damage caused by improper hitch ball or tow vehicle hook up; (6) vibration, water damage, freezing, breakage, or other damage to the contents of any trailer, regardless of cause; (7) component parts covered by separate supplier warranty such as warranties of the manufacturer or tires, axles, jacks, couplers, pump, cylinders, etc. These warranty claims must be presented to their respective component manufacturer for warranty service. Quality Steel & Aluminum Products LLC reserves the right for final determination where or not the product has been abused or misused by the purchaser.

PURCHASER'S OBLIGATIONS

Purchaser must notify the warrantor, at above address, of any defect within fifteen (15) days after it is, or should have been, discovered. Purchaser must complete and return to warrantor the attached warranty card within fifteen (15) days of purchase to obtain warranty service. Purchaser must pay all service, towing, transportation charges incurred to obtain warranty service.

TROUBLESHOOTING

TROUBLESHOOTING CHART

The following troubleshooting chart outlines some common problems, their causes and possible corrective actions. When reference is made to Power Unit the term indicates the motor and actuator as a complete unit. All power units are shipped from the factory with a serial number and date code, which should be given to the service technician when asking for assistance.

DUMP BED DOESN'T MOVE WHEN SWITCH IS PRESSED

PROBABLE CAUSE

Restrictions both inside and outside of unit
Low Battery voltage, blown fuse, defective wiring

Power unit not functioning

CORRECTIVE ACTION

Check for and clear restrictions.
Check battery. Charge battery or add auxiliary power source. Check battery terminals and all other wiring. Look for loose or corroded connections. See "Power Unit Troubleshooting"

POWER UNIT RUNS, DUMP BED DOES NOT MOVE

Restrictions both inside and outside of unit

Check for and clear restrictions.

POWER UNIT RUNS, DUMP BED MOVES SLOWLY

Low battery, poor ground, extremely cold weather
Leaking cylinder

Charge battery and check ground wire outdoor temperature
See "Checking bad cylinder"

DUMP BED DRIFTS IN BOTH EXTEND AND RETRACT POSITIONS

Check for leaks in the hydraulic system
Air in system

Tighten fittings (if under dump bed always use prop rod)
After checking all corrections, cycle pump several times in and out.

IN THE DOWN POSITION, DUMP BED DRIFTS UP

Leaking cylinder seal
Fluid bypassing cylinder piston
Hose from pump leaking
Air in system
Loose mounting bolts

SEE "Checking Bad Cylinder"
SEE "Checking for Bad Cylinder"
Tighten fittings (if under dump always use prop rod) replace hose.
After checking all connections, cycle pump several times in and out.
Tighten mounting bolts

IN THE UP POSITION, DUMP BED DRIFTS DOWN

Leaking cylinder seal
Fluid bypassing cylinder piston
Hose from pump leaking
Low battery

SEE "Checking Bad Cylinder"
SEE "Checking for Bad Cylinder"
Tighten fittings (if under dump always use prop rod) replace hose.
Charge battery and check charging source

SYSTEM MAINTENANCE

It is recommended that when operating in harsh environments (road salt, ice build up, etc.) the moving parts be kept clean using mild soap and water. Some of the pivots points have grease fittings that should be greased every month, make sure to set the **prop rod** under the raised dump box before doing anything under the box. Then to take the **prop rod** down when done before you lower the box.

Quality dump trailers requires full battery current and voltage. The battery must be maintained at full capacity. In addition to good battery maintenance, check the terminals and other connections at the battery, the control switch, and the pump unit for corrosion, and check for loose or damaged terminals. Check motor leads, as these connections are subject to damage from road debris.

Although the system is designed to be virtually maintenance free, operate the dump trailer once or twice a month to keep the seals and the internal moving parts lubricated.

Check for any visible signs of external damage after and before movement of the trailer.

NOTE: For long-term storage: It is recommend that the dump bed be in the down position while in storage.

MAINTAINING THE PUMP UNIT

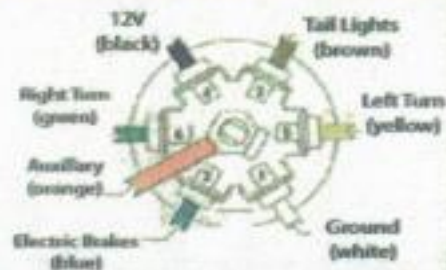
It is advised that yo check the fluid level every 3 months, to do this fully raise the bed up, the fluid level should be at the half-way mark. If more fluid is needed use **ONLY DEXTRON 3** automatic transmission fluid.

7 WAY WIRE HARNESS CODE

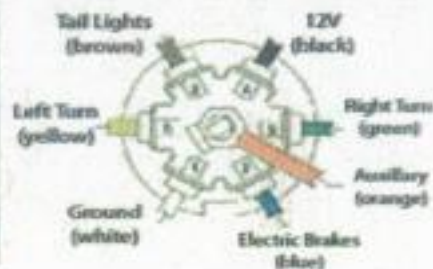
RECEIPT

WHITE	1 GROUND
BLUE	2 BRAKE
BROWN	3 TAIL/CLEARANCE
BLACK	4 POWER
YELLOW	5 LEFT TURN
GREEN	6 RIGHT TURN
ORANGE	7 AUXILIARY

7-WAY CAR END



7-WAY TRAILER END



TROUBLESHOOTING - CHECKING FOR BAD CYLINDER

1. Retract (down) the dump bed completely down.
2. Loosen hose "E" (extend) port on the manifold of the Power Unit.

WARNING!

Do not attempt to run bed down with the "E" port hose loose. The system will experience RAPID FLUID LOSS!

3. Plug opening on manifold to prevent drawing air into system
4. Energize the Power Unit to retract (down) dump bed.
5. Continue to run the dump bed down and watch for fluid flow from the "E" port hose. Fluid flow greater than a few drops will indicate internal cylinder Leaking (bypassing of the piston seal)

If there is no fluid flow, reconnect hose to "E" port and tighten.

WARNING!

Be sure to reconnect and tighten hose at the "E" port before attempting to extend (open) the dump bed or the system will experience RAPID FLUID LOSS! Contact qualified technician if there is excessive fluid flow. The cylinder should not be repaired in the field. Refill the Reservoir as recommended in the manual.

TROUBLESHOOTING - POWER UNIT

Before attempting to troubleshoot the Power Unit, make sure an adequate power source is available. The unit battery should be fully charged or the unit should be plugged into an AC service battery installed. Do not attempt to troubleshoot the power unit without assuring a full 12v DC charge.

The following tests require only a DC voltmeter (or DC test light) and a jumper lead.

Step 1. Attach voltmeter (or DC test light) leads to the negative and positive switch terminals on the back of remote switch. Does the meter or light indicate 12v DC? If YES, see step 2 If NO see step 3.

Step 2. If YES, at the motor, check the incoming leads to 12v DC (if necessary, disconnect leads at wire splices) Does meter indicate 12v DC If YES, power unit needs to be replaced. The motor is not field serviceable. DO NOT ATTEMPT TO REPAIR. If NO, Inspect all wires and connections between the remote switch and the motor. Repair connections as necessary. Recheck as in STEP 1.

Step 3. If NO, Inspect all connections between battery and switch. Inspect 30A. Auto-reset Circuit Breaker. Recheck as above step 1.

Since there are no field serviceable parts in the motor of the Power Unit, electrical troubleshooting and service is limited to replacing only those components as Previously outlined.

Through inspection of wiring and connections is the only other electrical service that can be performed.