

OWNER'S MANUAL

LEGACY
BRI-MAR
DI-100
DUMP
INSERT





1002 Wayne Avenue • Chambersburg, PA 17201
717.261.0922 • Fax: 717.264.5581

DI-100

LEGACY MODEL

OWNER'S MANUAL

- General Information
- Instructions
- Maintenance





TABLE OF CONTENTS

| | |
|--|-----|
| Installation Instructions | 4-5 |
| Installation of Remote Control Cable in Cab of Truck..... | 6 |
| Installation Diagram..... | 7 |
| Wiring Schematic - Pump Assembly | 8-9 |
| Main Assembly, Front View | 10 |
| Main Assembly, Rear View | 11 |
| Parts List..... | 12 |
| Maintenance and Troubleshooting..... | 13 |
| Warranty..... | 14 |

When making requests concerning parts and warranty, please have the information below before calling your local dealer.

* Date of purchase _____

* Your dump insert has been provided with a serial number _____

* Place of purchase and address

INSTALLATION INSTRUCTIONS

All dump insert units are shipped with an Installation Kit containing (2) battery cables, installation manual and (4) steel clamps. Please check to make sure all items are on hand before installation. The installer must provide bolts and plate washers.

1. Remove tailgate from truck.
2. Hydraulic fluid reservoir is shipped full, but may need to be “topped off.” Before operating, fill hydraulic fluid to fill line on tank with dumper in down position. Use only Dextron ATF fluid.
3. Connect battery cables provided to hydraulic pump.
4. Slide dumper into truck bed, checking for proper clearance.
 - Rear cross member of dumper frame must not extend beyond truck bed.
 - Allow 1” to 1 1/2” minimum clearance between dumper pump and front wall of truck bed.
5. Remove shipping straps from the front of the dumper.
6. Secure power cables. Run battery cables to positive and negative terminal of battery.
 - Extreme care should be taken when positioning cables.
 - Keep cables clear of exhaust system and protect at points of rubbing and sharp edges.
 - Do not expose cables below truck frame and prevent from drooping.
 - Keep cables clear of dumper body where it rests on frame.
7. Push unit forward and position dumper properly in truck bed, and using remote unit, raise it.

**CAUTION: TO PREVENT ACCIDENTAL LOWERING,
BLOCK UNIT IN RAISED POSITION
FOR INSTALLATION AND SERVICING**

- Prop is provided for blocking. Do not block under loaded condition.
8. Four clamps are provided for easy installation of your dumper. Set the clamps over the sides of the frame at points B and C (refer to diagram, page 7). Clamps at location C must be positioned over rear cross member on sub-frame.
 - Clamps at position C should be placed as close to the hinge points as possible.
 - When possible, use bolt holes provided by front and rear bed bolts. If truck bed is welded, holes must be drilled into frame or cross member.

Do Not Mount To Bed Sheet; Unit Must Be Bolted To Truck Frame Or Cross Member!

- When it is necessary to mount through cross member, reinforce with steel plate washers as illustrated in the installation diagram on page 7 of installation manual.
 - Use minimum of 3/8” bolts with lock washers and shake proof nuts.
 - Bolt unit down.
9. Once unit is bolted down, bolt through clamps and through dumper sub-frame.
 - Bolt clamp and sub-frame together using proper size bolts and lock-washers (not provided).
 - Clamps can also be tack welded to dumper sub-frame.
 10. Cycle several times. Press the “Up” arrow on the hand control to raise dump bed. Press the “Down” arrow on the hand control to lower the dump bed.
 11. Recheck all bolts to make sure unit is secure.
 12. Raise unit and block up using prop rod.
 - Disconnect Remote cord and hand control from the pump.
 - Mount hand control in cab of truck, following instructions on page 6 of the instruction manual.
 - Remote Control Box Must Be Mounted In Cab Of Truck. Unit Is Not Waterproof And Extended Exposure To Moisture Will Cause Damage to Control.

Your dump insert unit is now ready for use, please read notice below before operating equipment.

DANGER OPERATOR WARNING

DO NOT LOAD OVER 6000 POUNDS ON VEHICLE. DUMP INSERT AND CARGO MUST NOT EXCEED MANUFACTURERS GROSS VEHICLE WEIGHT RATING.

PRIOR TO SERVICING UNIT ENSURE SAFETY PROP IS SECURE.

DO NOT PLACE ANY PART OF YOUR BODY UNDER DUMP UNIT WITHOUT SAFETY PROP BEING SECURED.

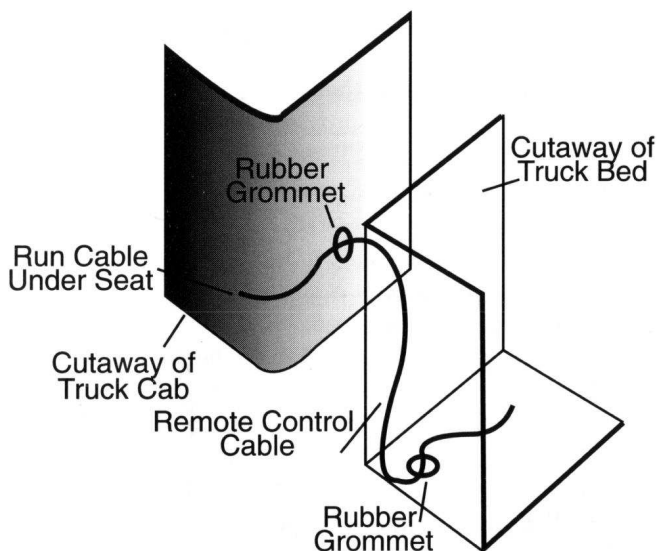
DO NOT ATTEMPT TO SECURE PROP OR BLOCK DUMP BODY UNDER LOADED CONDITIONS.

ENSURE AT ALL TIMES THAT LOCKING MECHANISMS FOR TAILGATE ARE PROPERLY ENGAGED.

DURING OPERATION OF DUMP INSERT, KEEP ALL BODY PARTS CLEAR OF MECHANICAL OPERATING DEVICES, STRUCTURAL SUPPORTS AND FASTENING SYSTEM.

FAILURE TO ADHERE TO THE MANUFACTURERS PUBLISHED WARNINGS COULD RESULT IN LOSS OF CONTROL, SEVERE PERSONAL INJURY OR DEATH.

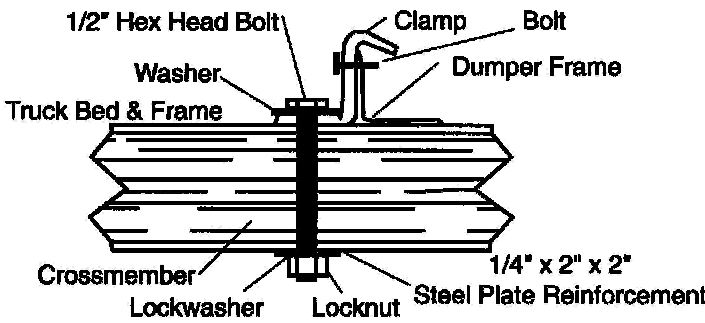
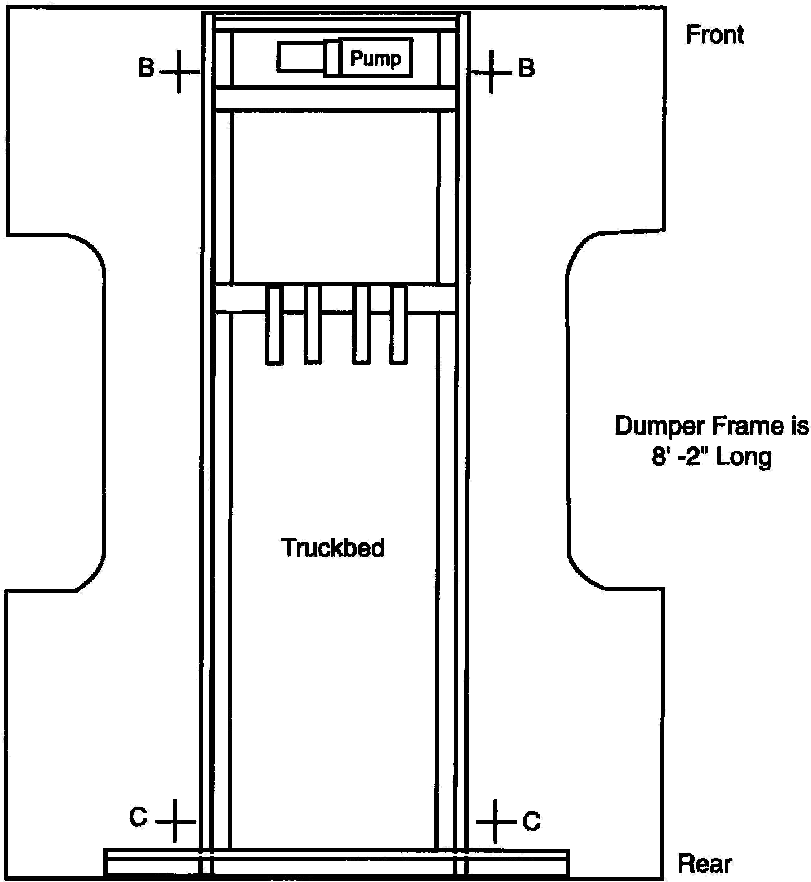
INSTALLATION OF REMOTE CONTROL CABLE IN CAB OR TRUCK

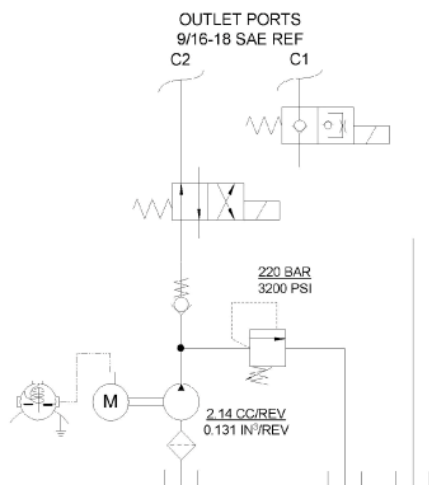


Drill either 13/16 or 3/4 inch holes through truck bed and through cab of truck behind seat. Place remote control on transmission hump in cab and run end of cable under seat and through drilled hole in cab. Slide rubber grommet over end of cable and seat it in the cab hole. Thread cable under bed and up through hole in bed to interior bed. Slide the second rubber grommet over end of cable and seat in bed hole. Connect remote control cable to pump as per enclosed wiring diagram. Seal rubber grommet and cable through the hole in cab of truck with silicone (not provided) to prevent moisture from entering cab.

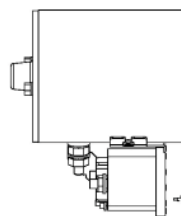
**Remote Control Is Not Water Resistant
Do Not Submerge**

INSTALLATION DIAGRAM

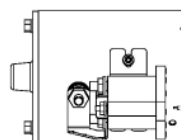




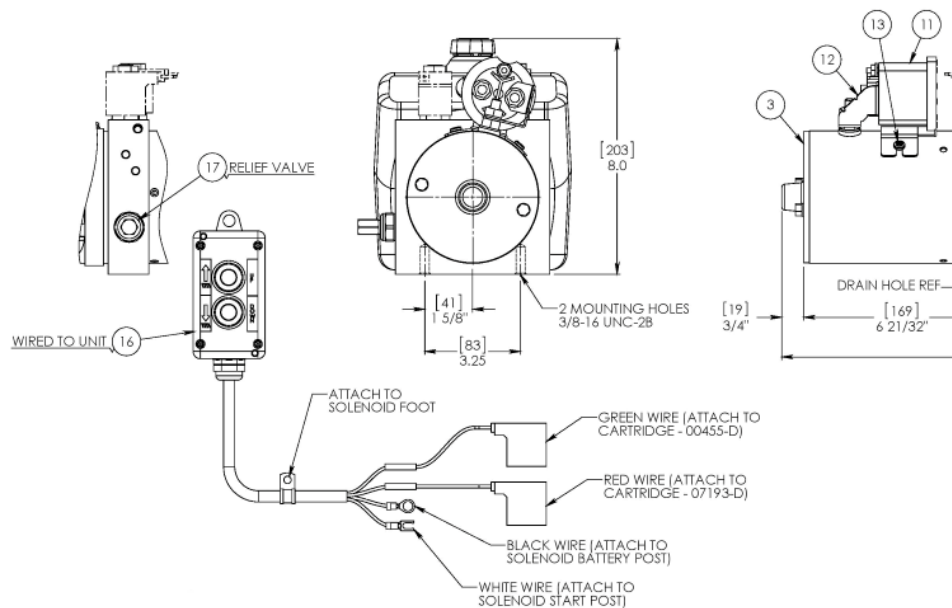
SCHEMATIC

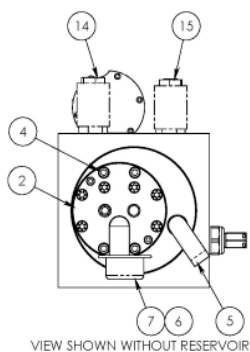
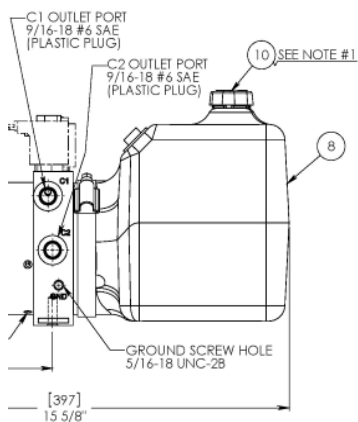
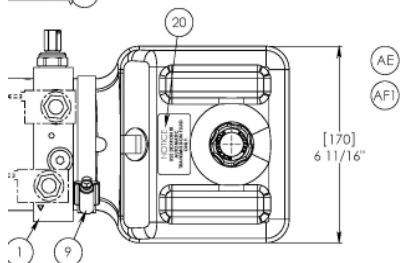
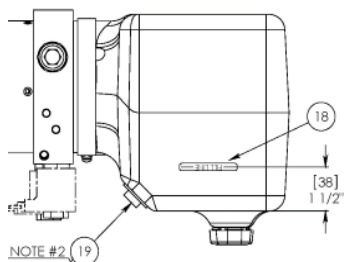


SEE



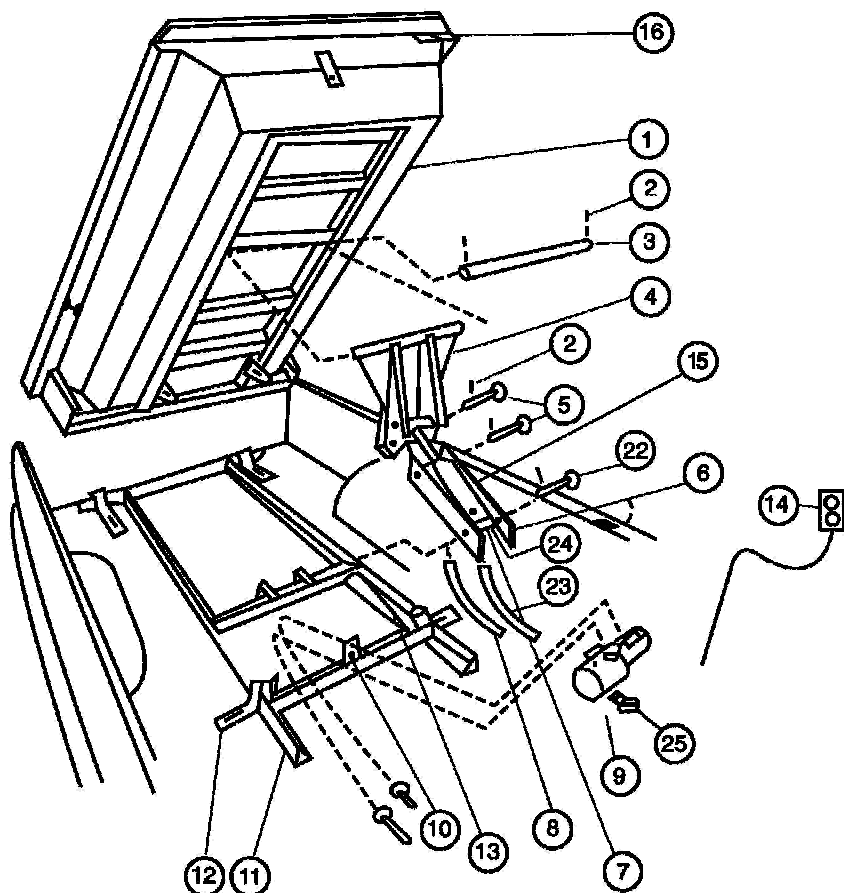
BASE - 500200323139/





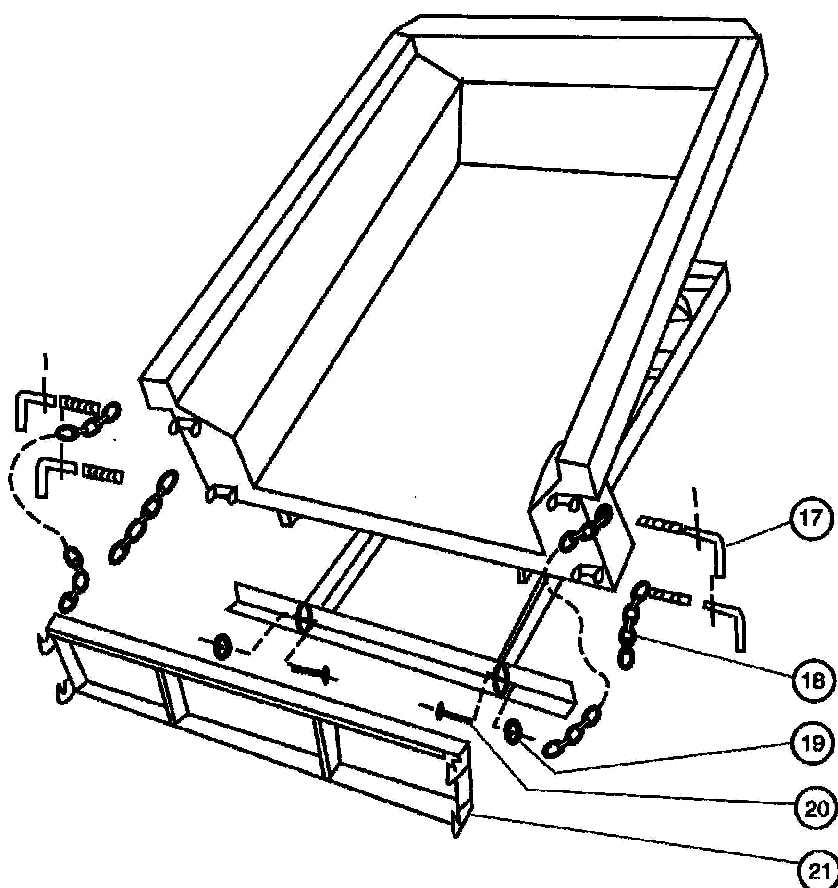
VIEW SHOWN WITHOUT RESERVOIR

MAIN ASSEMBLY FRONT VIEW



MAIN ASSEMBLY

REAR VIEW



BRI-MAR DI-100 PARTS

| | | | |
|----|---|---------|--|
| 1 | - | 405-065 | Dumper Body - Box Only |
| 2 | - | 106-001 | Roll Pin 1/4" x 2" |
| 3 | - | 323-040 | Cylinder Cross Pin, 1-1/8" x 29.63" |
| 4 | - | 405-057 | Hoist |
| 5 | - | 100-054 | HHCS 1-8 x 11 GR8 |
| 6 | - | 405-112 | Support Link |
| 7 | - | 120-053 | Hydraulic Cylinder Double Acting |
| 8 | - | 120-014 | Hydraulic Hose Assembly 68" |
| 9 | - | 120-032 | Double Acting Hydraulic Pump/Motor |
| 10 | - | 360-323 | Pump Mtg. Brkt. |
| 11 | - | 405-061 | Bottom Frame |
| 12 | - | 405-070 | Hold Down Clamp |
| 13 | - | 405-060 | Safety Support |
| 14 | - | 500-012 | Remote for Double Acting Pump |
| 15 | - | 120-002 | Hose Fitting |
| 16 | - | | Serial Number |
| 17 | - | 109-022 | Spring Handle Assembly |
| 18 | - | 108-011 | Tailgate Chain |
| 19 | - | 102-018 | 5/8" Nylon Lock Nut |
| 20 | - | 100-047 | Shoulder Bolt 5/8" x 2 1/2" |
| 21 | - | 405-064 | Dumper Tailgate |
| 22 | - | 100-055 | HCS 1-8x9" GR8 |
| 23 | - | 120-048 | Hydraulic Hose Assembly 3/8" x 56" NPT |
| 24 | - | 120-049 | JIC Adapter 3/8" NPT |
| 25 | - | 120-038 | 3/8" Orb Male/NPT Frame 90° Swivel Fitting |

MAINTENANCE AND TROUBLESHOOTING

Call an authorized dealer for exchange or service parts.

To keep your DI-0100 in top operating condition, follow these simple maintenance procedures:

1. If it squeaks, grease it.
2. Do not operate when low on hydraulic fluid.
3. Keep service area clean.

Hydraulic Pump

If malfunction of the power unit should occur, inspect all hydraulic lines and electrical connections, and check for good ground. Many malfunctions are caused by loose connections. Check the reservoir for proper fluid level as indicated by the fill line on the plastic reservoir. If fluid must be added, use clean Dextron ATF. Please keep in mind servicing this unit that the most common cause of system failure is dirt! Keep service area clean.

1. If unit does not operate at all: malfunction is due to switch, solenoid, motor, dead battery, corroded terminals or bad connections at the pump motor package.
2. If unit operates slowly and/or with low pressure: malfunction is due to a leaking relief valve, clogged filter, worn pump, corroded or bad battery terminals or hydraulic fluid that is too heavy.
3. If unit is unable to hold pressure, malfunction is due to a leaking relief valve.

Note: *In most cases a leaking relief valve is caused by dirt. This can often be corrected by unscrewing relief valve and cleaning thoroughly.*

WARRANTY

Your Bri-Mar Dump Insert is warranted to the original purchaser to be free from defects in material and workmanship for a period of 12 months, except as herein limited, from the date of purchase. The obligations of B Wise Manufacturing under this limited warranty shall be limited to repairing or replacing any part or parts which, in the opinion of B Wise Manufacturing, shall be proved defective in materials or workmanship under normal use and service.

This warranty does not cover any part or parts that have been damaged as a result of an accident, misuse, abuse or which have been modified, altered or repaired by a party not previously authorized by B Wise Manufacturing. This warranty shall not apply if the Dump Insert has been subjected to loads in excess of its rated capacity. The remedies described herein are the sole remedies.

BWISE MANUFACTURING, LLC
1002 Wayne Avenue
Chambersburg, PA 17201
PH 717-261-0922 • FAX 717-264-5581

DANGER

OPERATOR WARNING

DO NOT LOAD OVER 6000 POUNDS ON VEHICLE. DUMP INSERT AND CARGO MUST NOT EXCEED MANUFACTURERS GROSS VEHICLE WEIGHT RATING.

PRIOR TO SERVICING UNIT ENSURE SAFETY PROP IS SECURE. DO NOT PLACE ANY PART OF YOUR BODY UNDER DUMP UNIT WITHOUT SAFETY PROP BEING SECURED.

DO NOT ATTEMPT TO SECURE PROP OR BLOCK DUMP BODY UNDER LOADED CONDITIONS.

ENSURE AT ALL TIMES THAT LOCKING MECHANISMS FOR TAILGATE ARE PROPERLY ENGAGED.

DURING OPERATION OF DUMP INSERT, KEEP ALL BODY PARTS CLEAR OF MECHANICAL OPERATING DEVICES, STRUCTURAL SUPPORTS AND FASTENING SYSTEM.

FAILURE TO ADHERE TO THE MANUFACTURERS PUBLISHED WARNINGS COULD RESULT IN LOSS OF CONTROL, SEVERE PERSONAL INJURY OR DEATH.



1002 Wayne Avenue
Chambersburg, PA 17201

