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OPERATOR & PARTS MANUAL
PRO-CLASS DUMP BODY

Airflo®

PRO-CLASS ® DUMP BODY

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INTRODUCTION

THIS MANUAL CONTAINS INFORMATION NECESSARY FOR THE PROPER OPERATION AND MOUNTING OF YOUR AIR-FLO PRO-CLASS ® BODY. PLEASE STUDY THE ENTIRE MANUAL THOROUGHLY BEFORE ATTEMPTING TO OPERATE OR INSTALL THE BODY AND SUBFRAME.

THE FOLLOWING DANGER AND WARNING STATEMENTS MUST BE ADHERED TO WHEN OPERATING THIS DUMP BODY. PLEASE READ AND STUDY THESE WARNINGS FOR YOUR PROTECTION.

A SET OF DANGER LABELS ARE INCLUDED WITH EACH DUMP BODY. THEY MUST BE INSTALLED ON THE BODY IN THE LOCATIONS NOTED ON PAGE 8 & 9 OF THIS MANUAL.

YOU MAY REORDER ANY OF THE DANGER LABELS DIRECTLY FROM AIR-FLO MFG 607-733-8284.

WARNINGS!

FAILURE TO OBEY THESE WARNINGS MAY LEAD TO SERIOUS INJURY OR DEATH!

- **MALFUNCTIONING EQUIPMENT MAY LEAD TO PROPERTY DAMAGE. IF THERE IS DAMAGED EQUIPMENT HAVE IT REPAIRED BEFORE CONTINUING USE.**
- **POSSIBLE SHORTING OF THE TRUCKS ELECTRICAL SUPPLY CAN CAUSE A FIRE OR EQUIPMENT DAMAGE. ALWAYS DISCONNECT THE BATTERY PRIOR TO INSTALLING, REPAIRING OR SERVICING THE PUMP.**
- **NEVER POSITION YOURSELF OR ALLOW OTHERS TO POSITION THEMSELVES UNDER A LOADED BODY. ALWAYS PROP THE UNLOADED BODY WITH THE SUPPLIED BODY PROP.**
- **OVERLOADING OF A TRUCK CAN CAUSE DAMAGE TO PROPERTY. NEVER EXCEED THE GROSS AXLE WEIGHT (GAW) OR THE GROSS VEHICLE (GVW) RATING OF YOUR VEHICLE.**
- **MAKE SURE YOU USE THE BODY PROP FOR THE BODY WHEN YOU ARE INSTALLING ANY COMPONENTS UNDER A RAISED, UNLOADED BODY.**
- **THE HEAT FROM THE TRUCKS EXHAUST SYSTEM COULD LEAD TO HYDRAULIC COMPONENT FAILURE AND POSSIBLE FIRE. NEVER INSTALL EQUIPMENT TOO CLOSE TO THE EXHAUST SYSTEM.**
- **TAKE STEPS TO PREVENT SPARKS FROM IGNITING YOUR FUEL SYSTEM WILE YOU ARE WELDING OR GRINDING DURING INSTALLATION OF EQUIPMENT.**
- **ALWAYS INSTALL EQUIPMENT IN ACCORDANCE TO YOUR MANUFACTURERS INSTRUCTIONS. MAKE SURE YOU FULLY UNDERSTAND THE OPERATORS MANUAL BEFORE INSTALLING.**

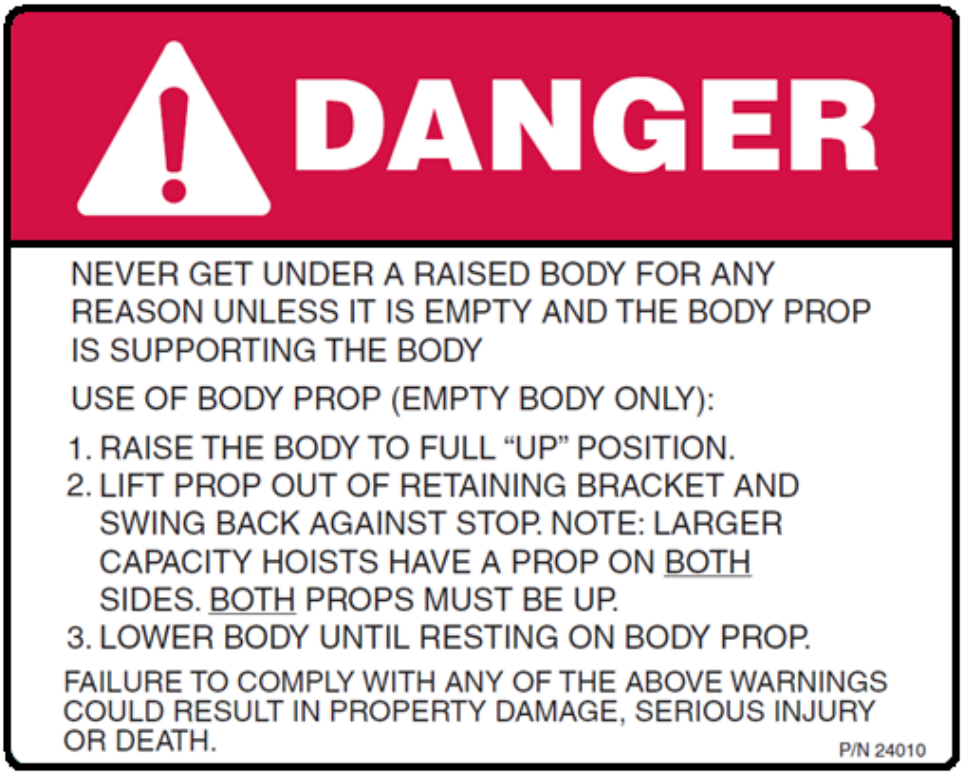
“WARNING”

The hydraulic system with a given hoist is made up of components (pump, valves, cylinder, reservoir, hoses, etc.) that are designated to be compatible with each other.

If you substitute any components, you must MAKE SURE that they are compatible with other components supplied. Incompatible hydraulic components may cause failure of the hoist, which in turn could damage to the truck, property, and cause physical injury or could result in death.

Air-Flo Manufacturing will void any warranty, and responsibility, for a given hoist that has been determined that substituted components were used that were incompatible with the ones supplied.

To ensure component compatibility, consult Air-Flo Manufacturing Co.



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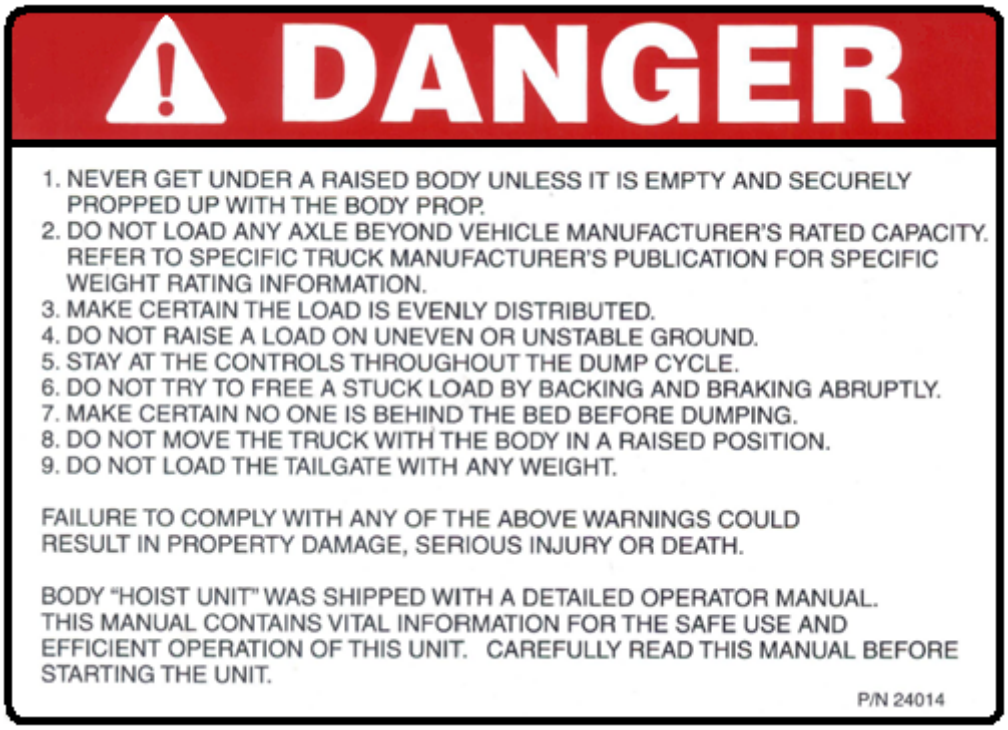

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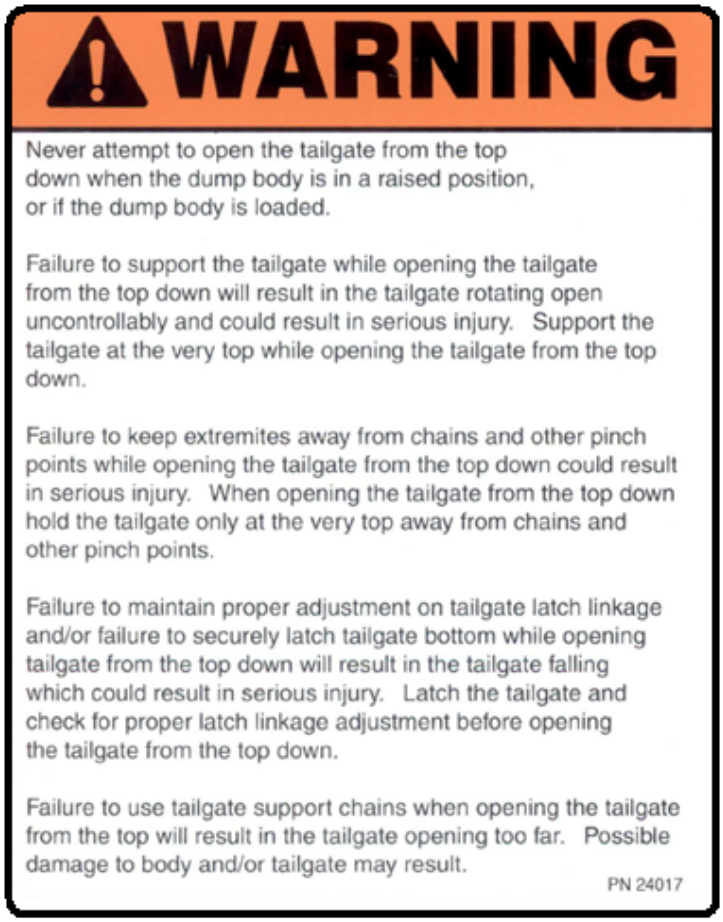

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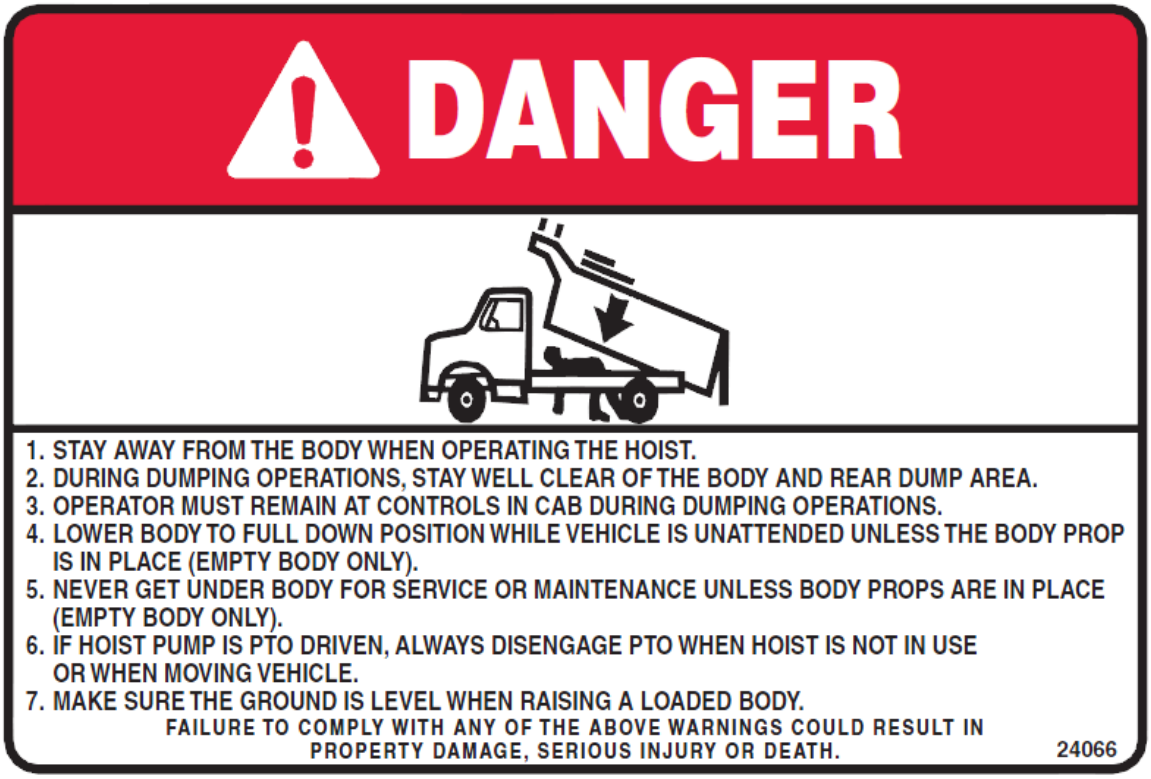
P/N 24092

P/N 24050



P/N 24066

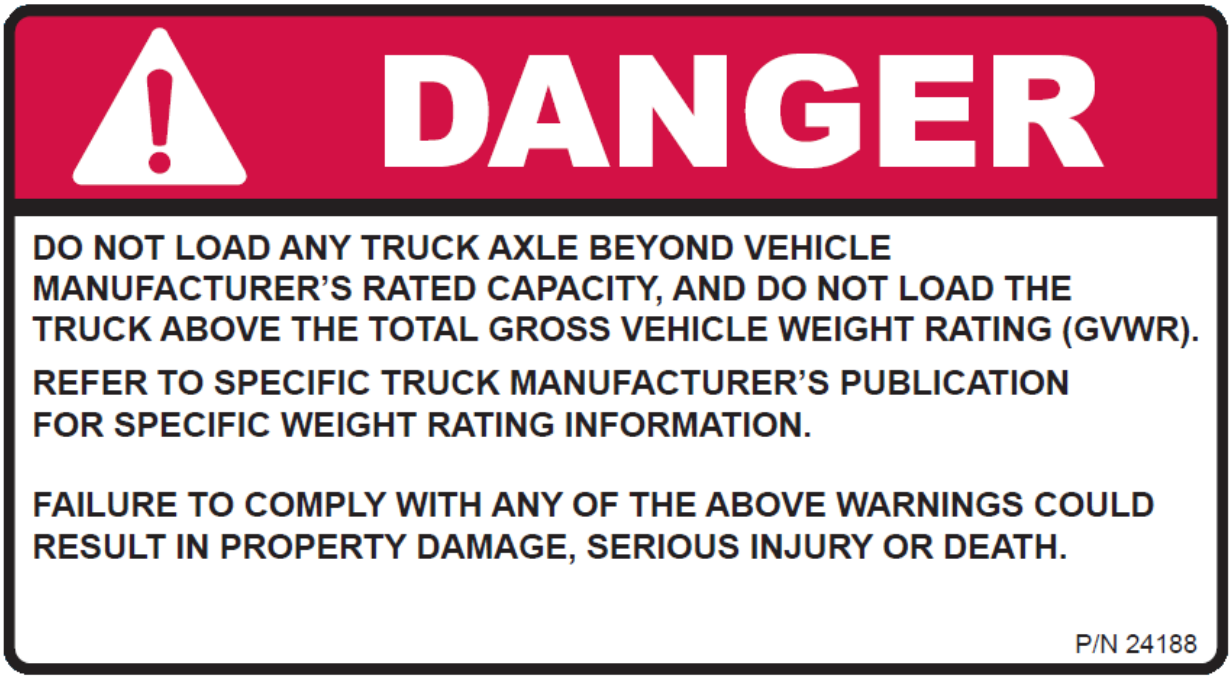
CYLINDER FOR
8 & 9 FT. UNIT

P/N 24022

CYLINDER FOR
10 & 11 FT. UNIT

P/N 24023

P/N 24187



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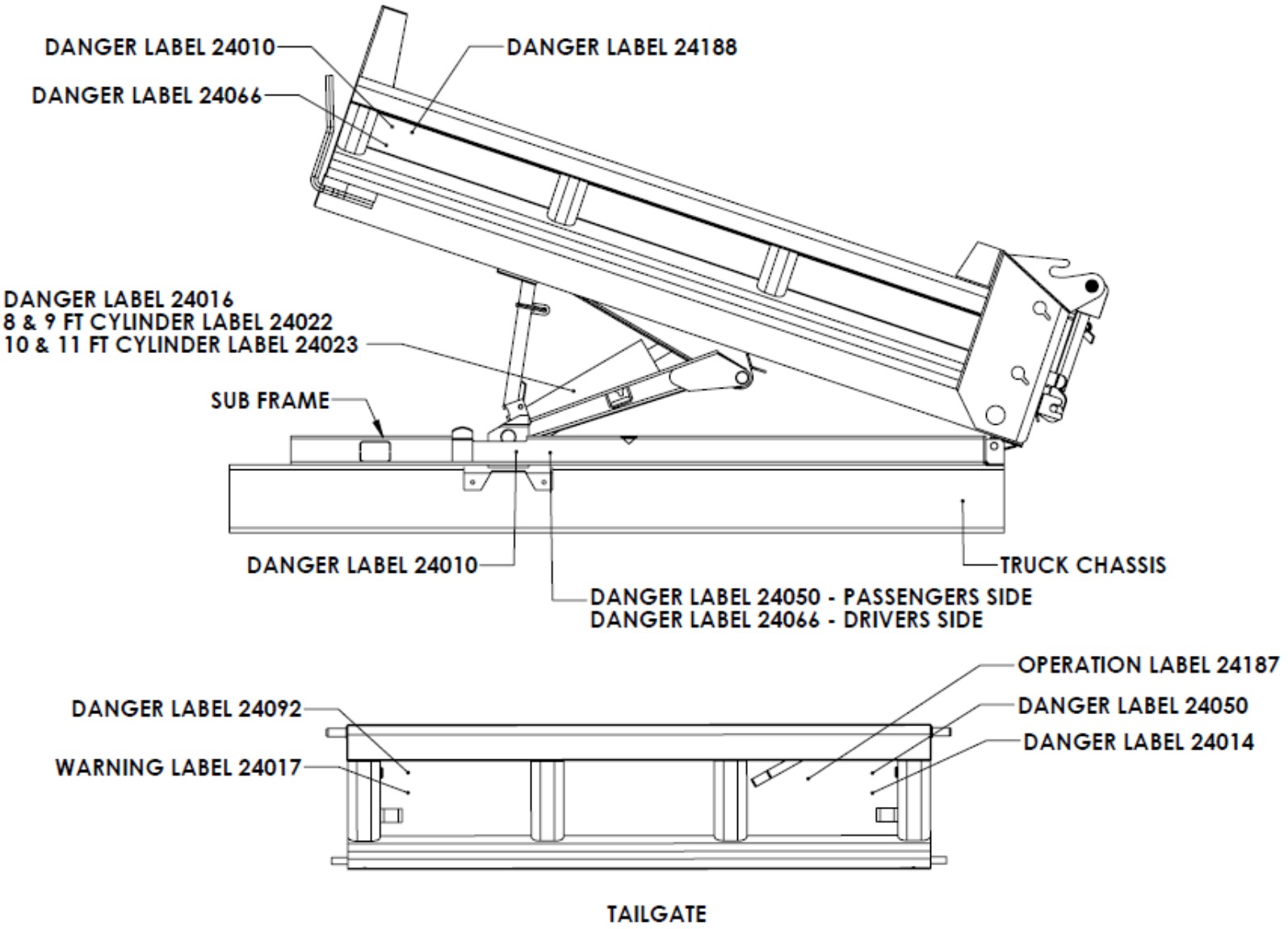
PRO-CLASS ® DUMP BODY
DANGER LABEL LOCATIONS



WARNING LABELS LOCATIONS FOR PRO-CLASS

TO BE PUT ON SUB-FRAME:

#24010 – QTY (1) TO BE PUT ON THE DRIVER'S SIDE NEAR THE BODY PROP

#24016 - QTY (1) TO BE PUT ON CYLINDER

#24022 OR #24023 – (1) TO BE PUT ON CYLINDER

#24050 – QTY (1) TO BE PUT ON PASSENGER'S SIDE BEHIND SADDLE ANGLE

#24066 – QTY (1) TO BE PUT ON THE DRIVER'S SIDE BEHIND SADDLE ANGLE

TO BE PUT IN THE DECAL KIT:

#24010 – QTY (1) (DRIVER'S SIDE NEAR FRONT)

#24014 – QTY (1) (PASSENGER SIDE TAILGATE)

#24017 – QTY (1) (DRIVERS SIDE TAILGATE)

#24050 – QTY (1) (PASSENGER SIDE TAILGATE)

#24066 – QTY (1) (DRIVER'S SIDE NEAR FRONT)

 # 24092 – QTY (1) (DRIVERS SIDE TAILGATE)

 # 24187 – QTY (1) (TAILGATE UNDER RELEASE HANDLE)

 # 24188 – QTY (1) (DRIVER SIDE NEAR FRONT)

MOUNTING INSTRUCTIONS FOR HOIST SUB FRAME

THE SUB FRAME IS NORMALLY MOUNTED TO THE TRUCK BEFORE ATTACHING THE BODY TO IT. THE FOLLOWING INSTRUCTIONS APPLY TO BOTH FLAT FRAME AND HUMPED FRAME INSTALLATIONS. POSITION THE SUB FRAME WITH A MINIMUM OF 2" OF CLEARANCE BETWEEN THE CAB AND SUB FRAME RAILS. THE BACK OF THE FRAME RAILS SHOULD BE A MINIMUM OF 2" BEHIND THE REAR SPRING SHACKLE. MARK THE TRUCK FRAME FOR CUTTING AT THE BACK OF THE SUB FRAME RAILS. MAKE SURE THE MARKS FOR CUTTING THE TRUCK FRAME ARE ACCURATE AND EVEN FROM SIDE TO SIDE. THE TRUCK FRAME SHOULD NOT EXTEND OUT PAST THE SUB FRAME. TRUCKS WITH HUMPED FRAMES MAY NEED SOME TEMPORARY BLOCKING.

NOTES: **ON TRUCKS WITH HUMPED FRAMES THE GAP NEEDS TO BE FILLED WITH SQUARE TUBING BETWEEN THE TRUCK FRAME AND THE SUB FRAME.**

CAUTION: **BE CAREFUL OF BRAKE LINES, WIRING, FUEL TANK, ETC. INSIDE OF TRUCK FRAME WHEN DRILLING.**

WARNING: **BEFORE WORKING UNDER A RAISED, EMPTY BODY, MAKE SURE IT IS SUPPORTED BY THE BODY PROP.**

1. **PLACE THE HOIST INTO THE SUB FRAME AND FASTEN WITH FOUR ½" X 1-1/2" HEX CAP SCREWS, LOCK WASHERS, NUTS, AND EIGHT FLAT WASHERS. ALIGN THE SADDLE BRACKETS OF THE HOIST WITH THE CORRESPONDING BRACKETS IN THE SUB FRAME TO KEEP THE HOIST STRAIGHT. SEE FIGURE ONE.**

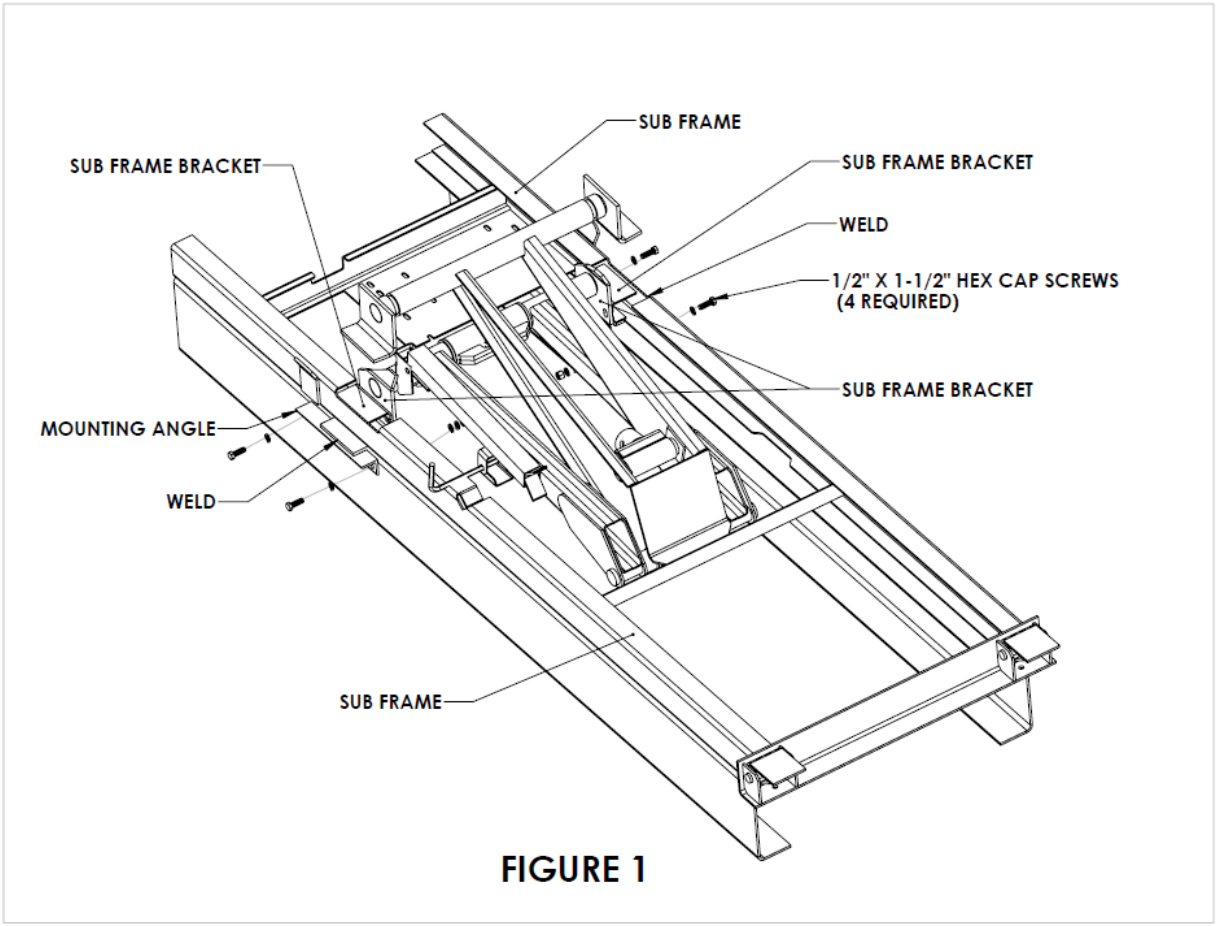


FIGURE 1

2. **POSITION THE HOIST WITH THE SUB FRAME ON THE TRUCK FRAME.**

3. **ON EACH SIDE OF THE SUB FRAME, PLACE A MOUNTING ANGLE UNDER EACH SADDLE FLAT. SECURE EACH MOUNTING ANGLE TO THE TRUCK FRAME BY DRILLING TWO 17/32" DIAMETER HOLES AND BOLTING THE LARGE MOUNTING ANGLE TO THE TRUCK FRAME. INSERT GRADE 5 BOLTS THROUGH THE SUB FRAME AND CHASSIS FRAME. INSTALL LOCK WASHERS AND NUT. LASTLY, WELD EACH MOUNTING ANGLE TO ITS RESPECTIVE SADDLE FLAT.**

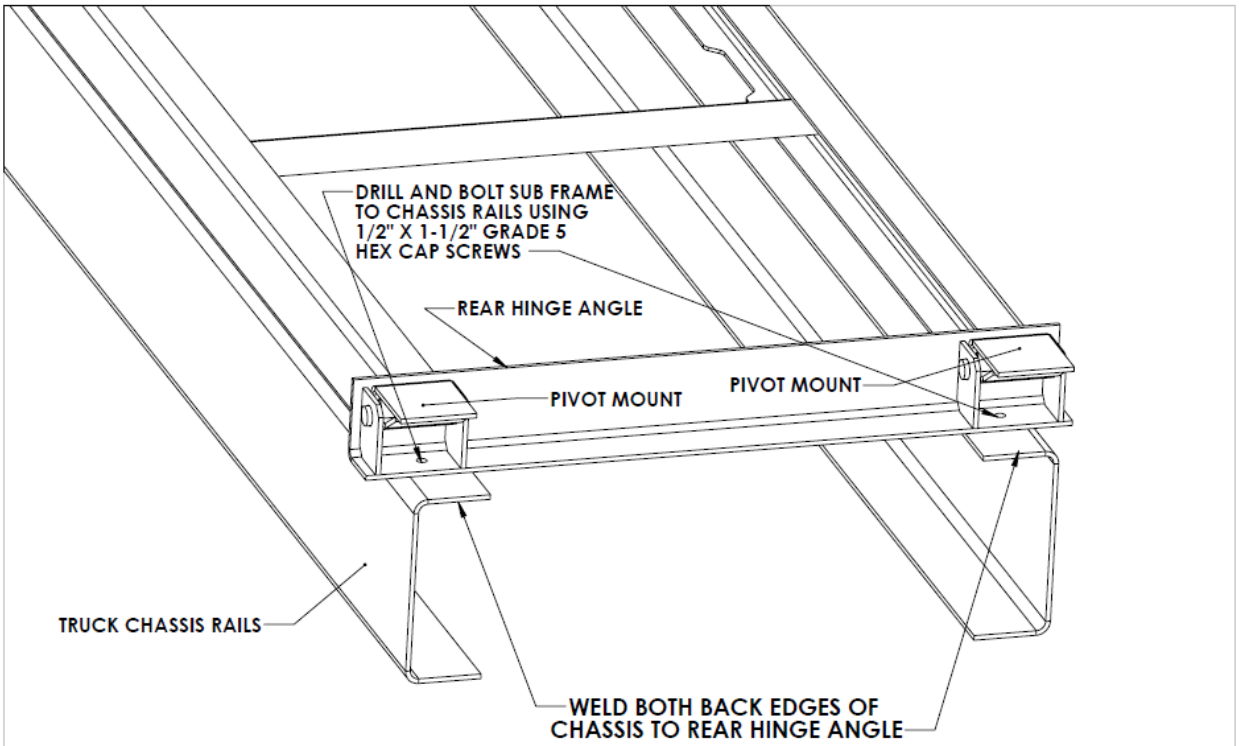


FIGURE 3

4. **ATTACH THE REAR OF THE SUB FRAME TO THE TRUCK BY WELDING AND BOLTING THE REAR HINGE ANGLE TO THE CHASSIS FRAME. REFER TO FIGURE 3.**

NOTICE: DO NOT WELD SADDLE FLATS OR MOUNTING ANGLES TO THE TRUCK FRAME.

NOTICE: ALL OF THE FASTENERS THAT ARE USED IN THE PREVIOUS STEPS ARE ½" X 1-1/2" HEX CAP SCREWS, LOCK WASHERS, AND NUTS. ALL THE ½" FASTENERS SHOULD BE TORQUED TO 90 FT. LG.

5. **CUT THE EXCESS FRAME OFF BEHIND THE SUB FRAME REAR HINGE.**

IMPORTANT NOTICE: IF THE TRUCK HAS FUEL TANKS LOCATED BETWEEN THE RAILS OF THE CHASSIS, RUN THE FILL WELL SPOUT BETWEEN ONE OF THE SUB FRAME SIDE RAIL CUTOUTS FOR ACCESS TO REFUELING THE TRUCK. IF AN ALTERNATE LOCATION IS NEEDED FOR LOCATING THE FILL WELL SPOUT, OTHER THAN THE ONES PROVIDED, CUT A HOLE IN THE SUB FRAME SIDE RAIL AT THE PREFERRED LOCATION. THE HOLE MUST BE COMPLETELY CONTAINED IN THE WEB PORTION OF THE SIDE RAIL, NOR BE LARGER THAN 3", OR DISTURB THE TOP AND BOTTOM FLANGES.

6. **PLACE A LOCK COLLAR ONTO EACH OF THE LIFTING SHAFTS. SLIDE A LIFTING SHAFT WITH COLLAR INTO EACH END OF THE HOIST LIFTING TUBE. REFER TO FIGURE 4.**

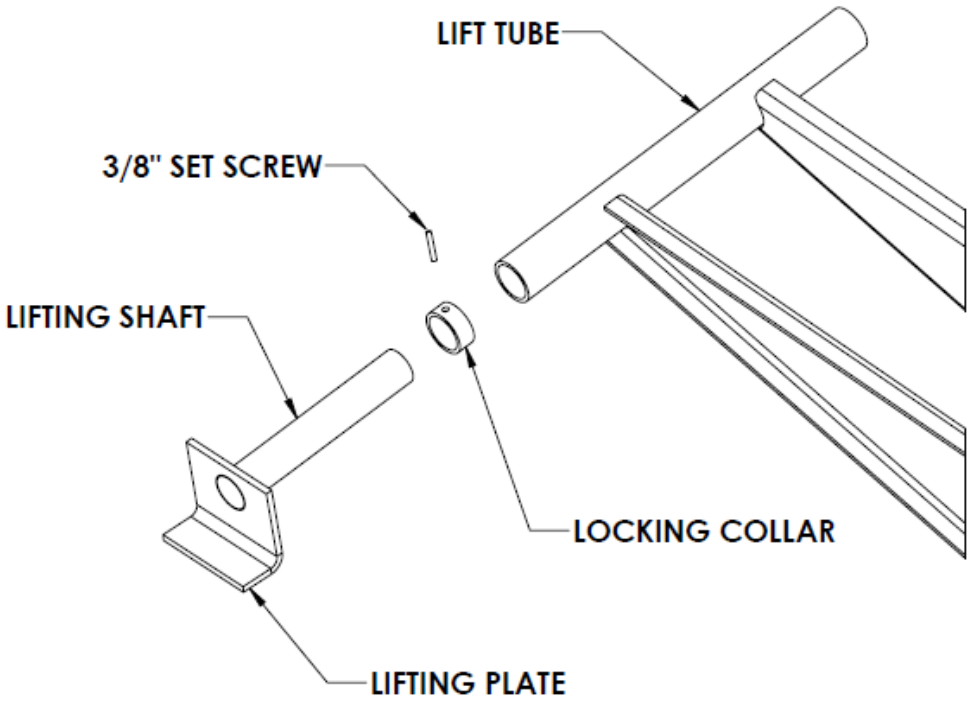


FIGURE 4

7. **POSITION THE BODY ONTO THE SUB FRAME.**
8. **ONCE THE BODY IS IN POSITION, WELD THE REAR HINGE BRACKETS TO THE BODY LONG BEAMS. SEE FIGURE 3.**
9. **POSITION BOTH OF THE LIFTING BRACKETS AGAINST THE INSIDE OF THE CHANNEL LONG BEAM OF THE BODY. TO SECURE THE BRACKETS TO THE LONG BEAM, WELD THE LIFTING BRACKETS AS SHOWN IN FIGURE 5. AFTER THE LIFTING BRACKETS IS SECURED, SLIDE THE LOCK COLLARS AGAINST THE HOIST LIFTING TUBE AND SECURE THEM IN PLACE BY TIGHTENING THE 3/8" SET SCREW. REFER TO FIGURES 4 AND 5. THE SET SCREW SHOULD BE TORQUED TO 24 FT LBS.**

HOIST LIFTING SHAFT INSTALLATION

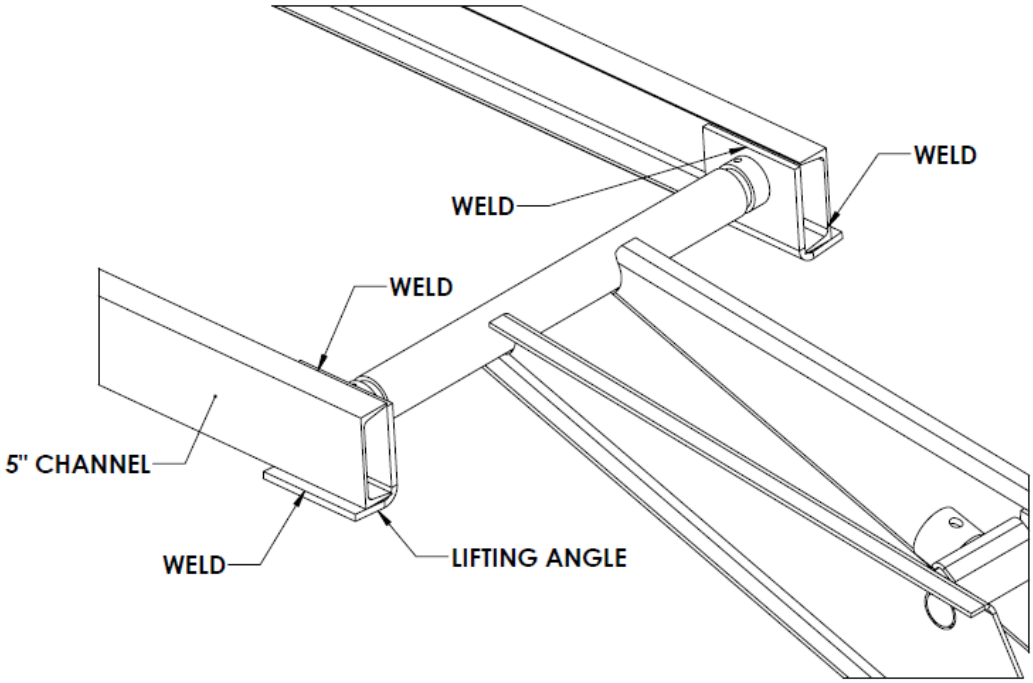


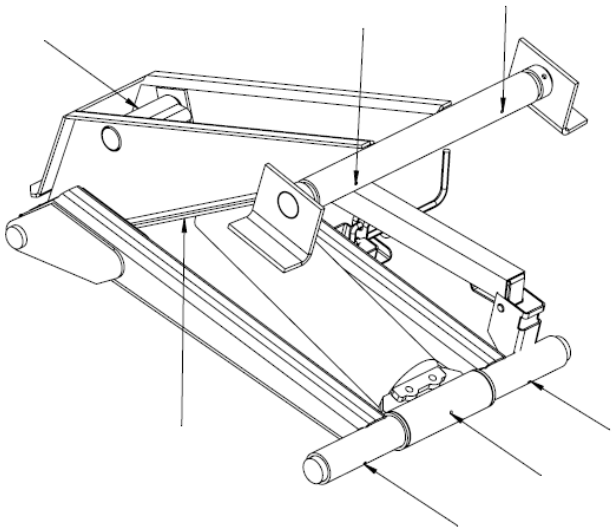
FIGURE 5

10. **INSTALL ALL THE GREASE FITTINGS WHEN DONE. MAKE SURE TO GREASE ALL THE FITTINGS AFTER INSTALLATION. FOR THE LOCATION OF THE GREASE FITTINGS, REFER TO THE LUBRICATION DIAGRAM.**

PRO-CLASS ® DUMP BODY

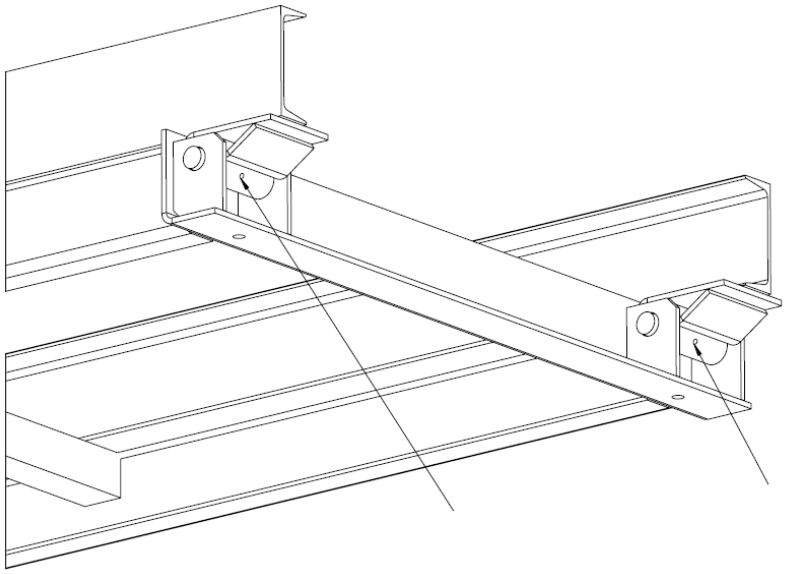
LUBRICATION POINTS

SCISSOR HOIST



POINTER ARROW REPRESENTS LOCATION OF ZERK FITTINGS

REAR HINGE



POINTER AROWS REPRESENT LOCATION OF ZERK FITTINGS.

TAILGATE - LUBE HINGE PIVOTS IN TAILGATE LATCH PERIODICALLY. ALSO LUBE QUICK LATCH PINS PERIODICALLY.

BODY – GREASE HINGES AND ANY OTHER ZERKS PERIODICALLY.

PRO-CLASS ® DUMP BODY
BODY TO SUBFRAME MOUNTING DIAGRAM

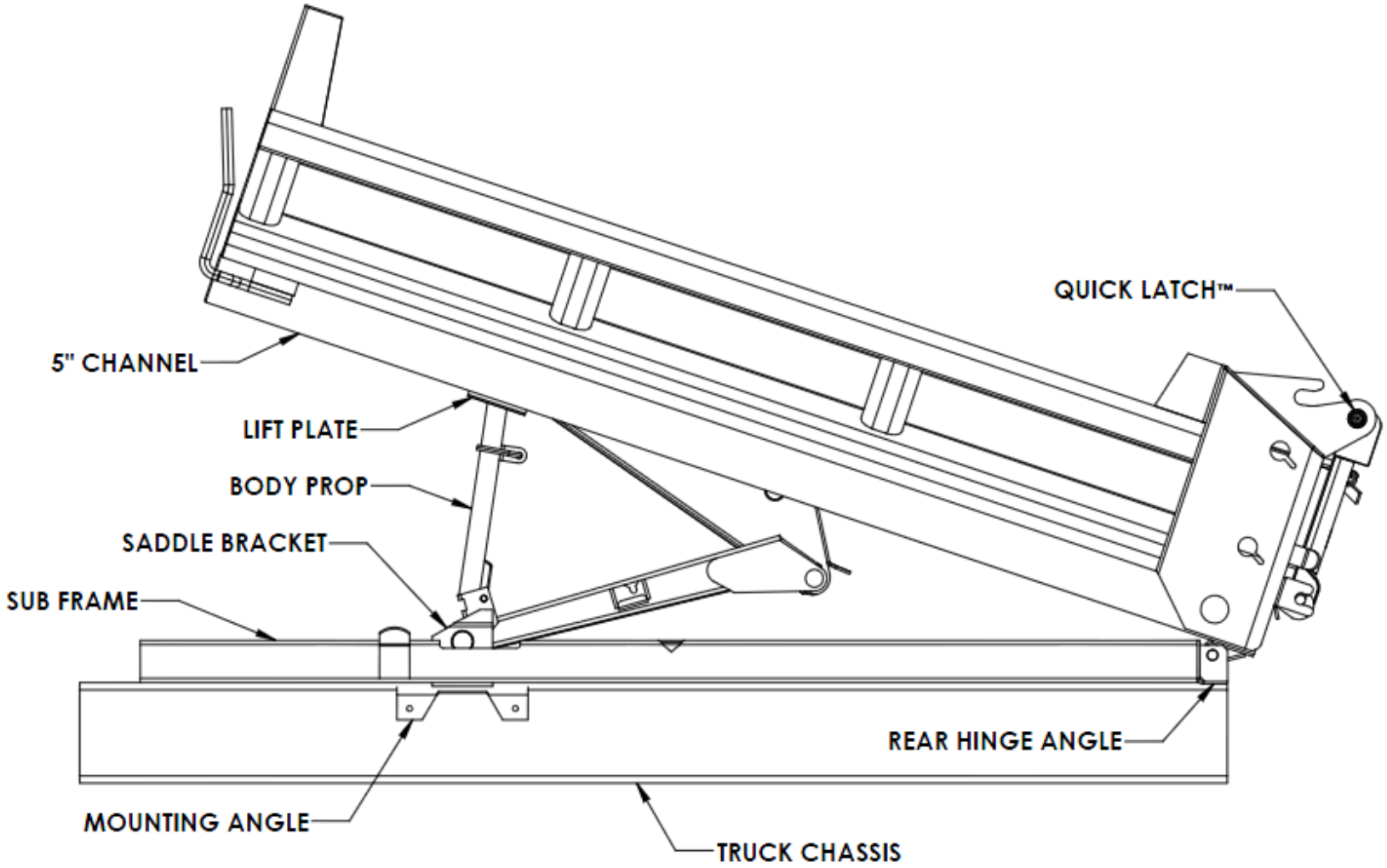
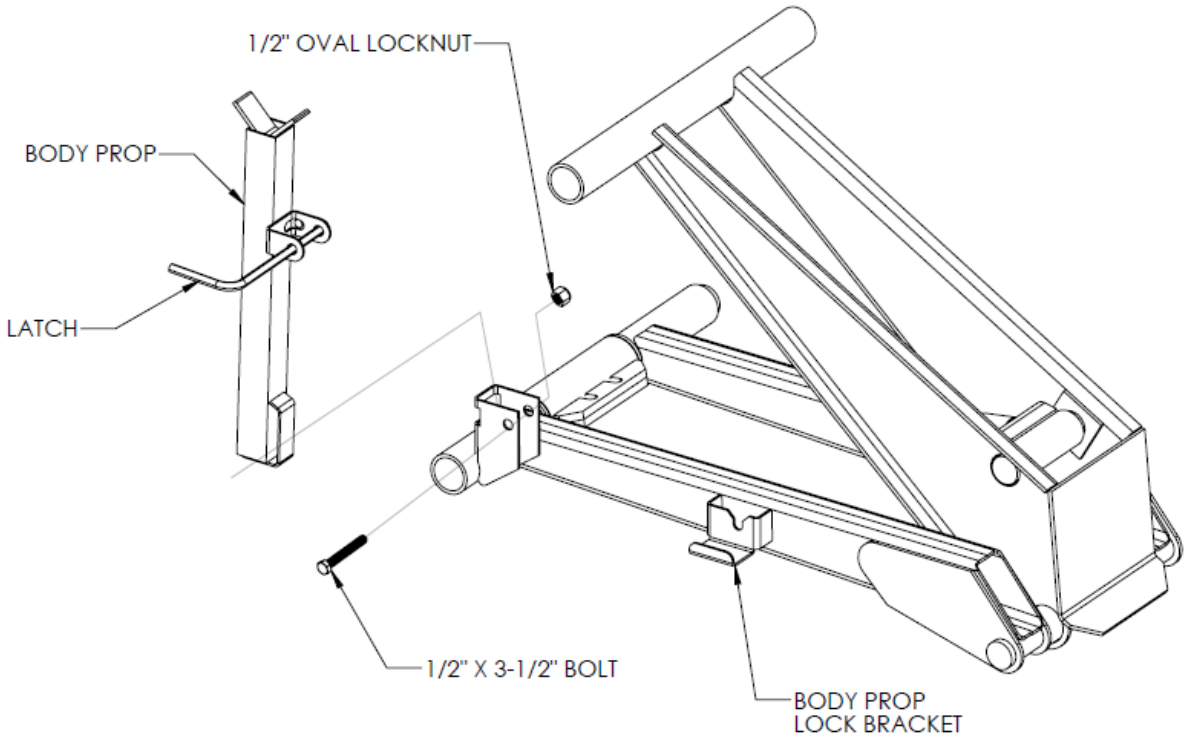


FIGURE #2

BODY PROP INSTALLATION:

1. **A BODY PROP IS SUPPLIED WITH EVERY AIR-FLO HOIST PACKAGE KIT.**
2. **INSERT THE BODY PROP INTO THE BODY PROP BRACKET. MAKE SURE THE LATCH IS LINED UP WITH THE LOCK BRACKET.**



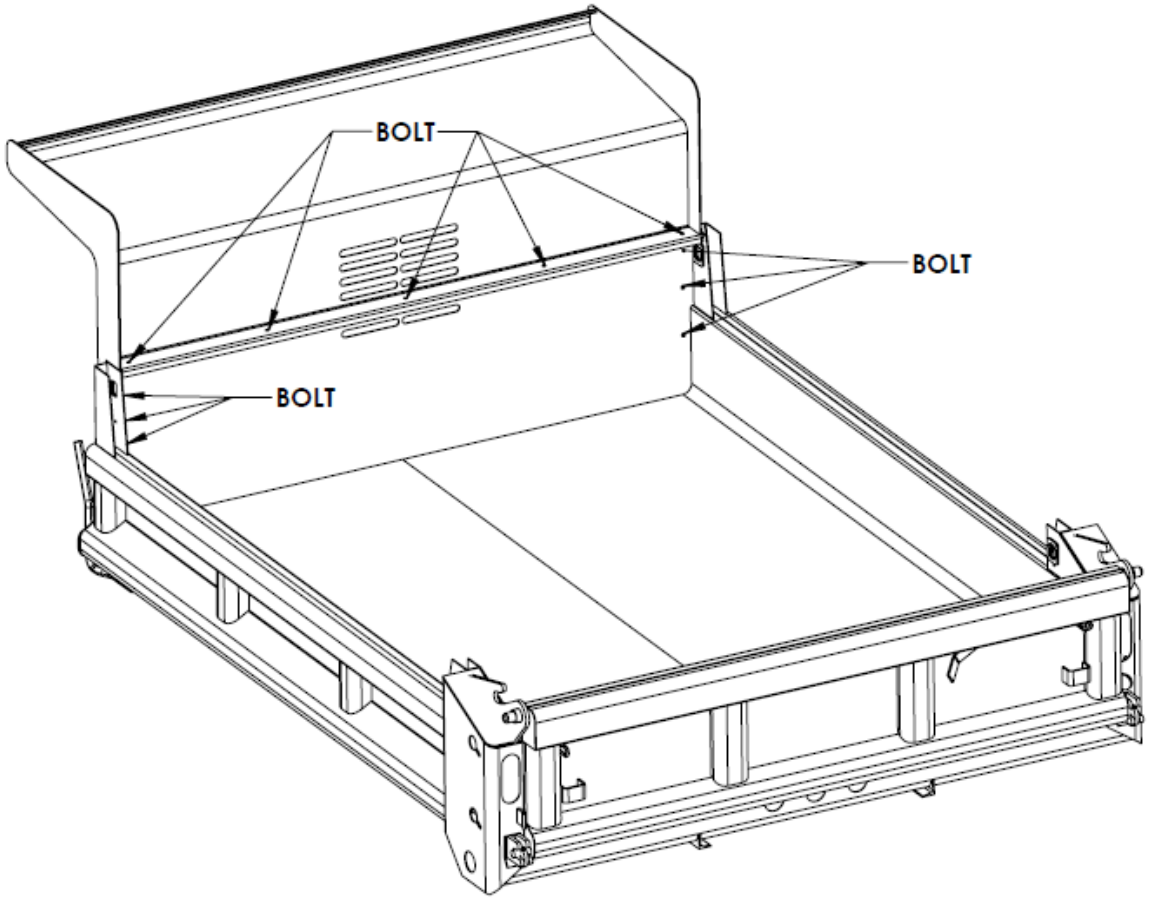
3. **FASTEN THE BODY PROP TO THE MOUNT WITH THE ½" OVAL LOCKNUT AND ½" X 3-1/2" BOLT (SUPPLIED). TIGHTEN LOCKNUT TILL PROP BINDS WHEN MOVED, THEN BACK OFF THE LOCKNUT TILL THE PROP SLIDES FREELY.**

4. **WITH THE HANDLE PUSHED IN, LOWER THE PROP TO THE DOWN POSITION, MAKING SURE THE LATCH IS RESTING IN THE LOCK BRACKET.**

5. **ROTATE THE HANDLE UNTIL THE HOOK LOCKS AGAINST THE BOTTOM OF THE LOCK BRACKET.**

NOTE: TO RAISE AND LOWER BODY PROP, SEE THE "OPERATION OF BODY PROP" SECTION OF THIS MANUAL.

BOLT ON CAB SHIELD MOUNTING



BOLT ON CABSHIELD HARDWEAR LIST

PART # 01189 (QTY 11) : 3/8"-16 X 1" GR 8 HEAD HEAD CAP SCREW
PART # 01172 (QTY 11) : 3/8" FLAT WASHER USS PLAIN
PART # 01179 (QTY 11) : 3/8"-16 NYLOCK NUT GR 8

ELECTRIC HYDRAULIC PUMP INSTALLATION INSTRUCTIONS

THIS HYDRAULIC CONTROL SYSTEM HAS BEEN THOROUGHLY TESTED AND CLEANED.

TO ENSURE PROPER OPERATION AND LONGEVITY IT IS MANDATORY THAT THE SYSTEM IS PROPERLY CHARGED.

FILL THE RESERVOIR TO THE PROPER LEVEL, AFFIX THE HIGH PRESSURE HOSE(S) TO THE HIGH PRESSURE OUTLET(S). ACTIVATE THE UNIT UNTIL OIL FLOWS FROM THE HOSE(S). THEN AFFIX THE HOSE(S) TO THE CYLINDERS.

IMPORTANT WIRING INFORMATION

THE MINIMUM ALLOWABLE VOLTAGE BETWEEN THE SOLENOID BATTERY CABLE AND THE MOTOR CASE IS 10.0V* (12 VOLT SYSTEM) AT THE MAXIMUM RELIEF VALVE PRESSURE SETTING (FIGURE #1) * VOLTAGE DROP IS PROPORTIONAL FOR OTHER D.C. VOLTAGE *

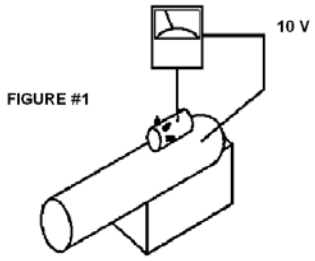


FIGURE #1

POWER CABLES (HOT & GROUND) MUST BE .33 INCH (8.4 MM) OR LARGER #1 COPPER STRANDED AUTOMOTIVE OR WELDING CABLE. CHECK THE CABLE DIAMETER WITH TEMPLATE "A". CABLE EXCEEDING 16 FEET (4.90 M) REQUIRE AND "0" OR "00" GAUGE CABLE.

TEMPLATE "A"

(TEMPLATE "A" IS THE DIAMETER OF A #1 CABLE)

MAXIMUM TORQUE ALLOWANCES:

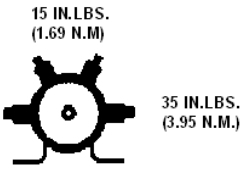


FIGURE #2
MOTOR START SOLENOID

EXCEEDING THE ABOVE TORQUE LIMITS MAY CAUSE ELECTRICAL FAILURE BY TWISTING THE STUD(S) AND VOIDS THE WARRANTY.

FIGURE #3
MOTOR STUDS

DO NOT COAT ELECTRICAL CONNECTIONS. CERTAIN COATING MATERIAL MAY CONDUCT ELECTRICAL CURRENT AND CAUSE THE CIRCUIT TO FAIL. SCORE PAINTED SURFACES AND USE LOCK WASHERS WITH MOUNTING HARDWARE TO OBTAIN AN OPTIMUM POWER UNIT TO VEHICLE GROUND.

ELECTRICAL PUMP INSTALLATION – SINGLE ACTING

INSTALL A 3/8"– 18 NPT MALE ELBOW X 3/8" FTP 90° SWIVEL FITTING IN THE WORK PORT ON THE VALVE BLOCK ON THE ELECTRICAL PUMP. INSTALL A 9/16" MORB X 3/8" FPT SWIVEL (STRAIT OR ELBOW) INTO C-1 PORT ON THE CYLINDER CONNECT THE 3/8" HOSE, WHICH IS CONNECTED TO THE BASE END PORT ON THE CYLINDER, TO THE "C-1" PORT. INSTALL AN AIR BREATHER IN THE ROD END PORT OF THE CYLINDER.

ELECTRIC PUMP INSTALLATION – DOUBLE ACTING

INSTALL A ¼ NPT X 3/8"-18 NPT MALE ELBOW IN EACH OF THE WORK PORTS ON THE VALVE BLOCK ON THE ELECTRIC PUMP. INSTALL A ¼ NPT MALE X ¼ NPT FEMALE ADAPTER IN EACH CYLINDER. CONNECT THE HOSE, WHICH IS CONNECTED TO THE BASE END PORT ON THE CYLINDER, TO THE "C1" PORT; CONNECT THE OTHER HOSE, WHICH IS CONNECTED TO THE ROD END PORT ON THE CYLINDER, TO THE "C2" PORT.

NOTE: THE "C2" PORT IS THE POWER DOWN PORT AND ONLY HAS 500 PSI MAXIMUM PRESSURE.

FUEL FILL TUBE INSTALLATION

THERE ARE HOLES IN THE LEFT (DRIVER'S SIDE) SUB FRAME RAIL FOR ROUTING THE FUEL TANK FILL TUBE TO THE OUTSIDE OF THE TRUCK FRAME. ROUTE THE FILL TUBE THROUGH ONE OF THE HOLES IN THE SUB FRAME. AFTER THE BODY HAS BEEN INSTALLED, CONSTRUCT A SUPPORT FOR THE FUEL TANK TUBE. CONSTRUCT THE SUPPORT SO THAT IT DOES NOT INTERFERE WITH ANY PORTION OF THE BODY OR HOIST OPERATION.

ELECTRICAL PUMP MOUNTING – GENERAL

THE ELECTRIC PUMP IS INTENDED TO BE MOUNTED JUST BEHIND THE CAB, BETWEEN THE LONG BEAMS.

CONNECT THE LARGE TERMINAL ON THE STARTER SOLENOID TO THE POSITIVE TERMINAL ON THE BATTERY, USING A NO. 0 GAUGE OR HEAVIER CABLE. INSTALL A HEAVY DUTY GROUND CABLE FROM THE NEGATIVE TERMINAL OF THE BATTERY DIRECTLY TO THE TRUCK FRAME USING A NO. 0 GAUGE OR HEAVIER CABLE. THE LIGHT CABLE NORMALLY USED FOR GROUNDING THE ENGINE TO THE FRAME IS NOT HEAVY ENOUGH. INSTALL FUSE LINK BETWEEN MOTOR AND STARTER SOLENOID.

INSTALL THE ELECTRIC PUMP CONTROL INSIDE THE CAB AND ROUTE THE CABLE OUT OF THE CAB THROUGH A HOLE IN THE BACK OF THE CAB. CONNECT THE CONTROL TO THE PUMP USING THE INSTRUCTIONS WITH THE PUMP.

MOUNTING OF CAB CONTROL – ELECTRIC

*****CAB CONTROL MAY BE LEFT LOOSE*****

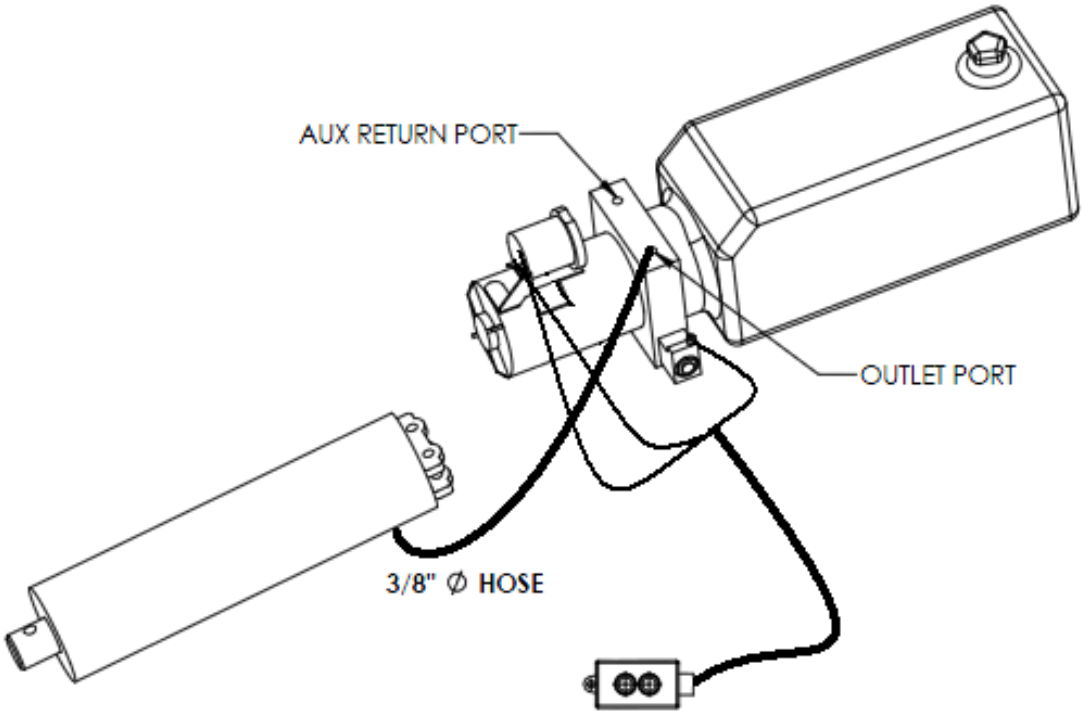
FIND SUITABLE LOCATION WITHIN EASY REACH OF DRIVER.

1. **MOUNT LIFT CONTROL NEAR CONTROL PANEL OR SIMILAR LOCATION.**
2. **WIRE PER WIRING DIAGRAM.**

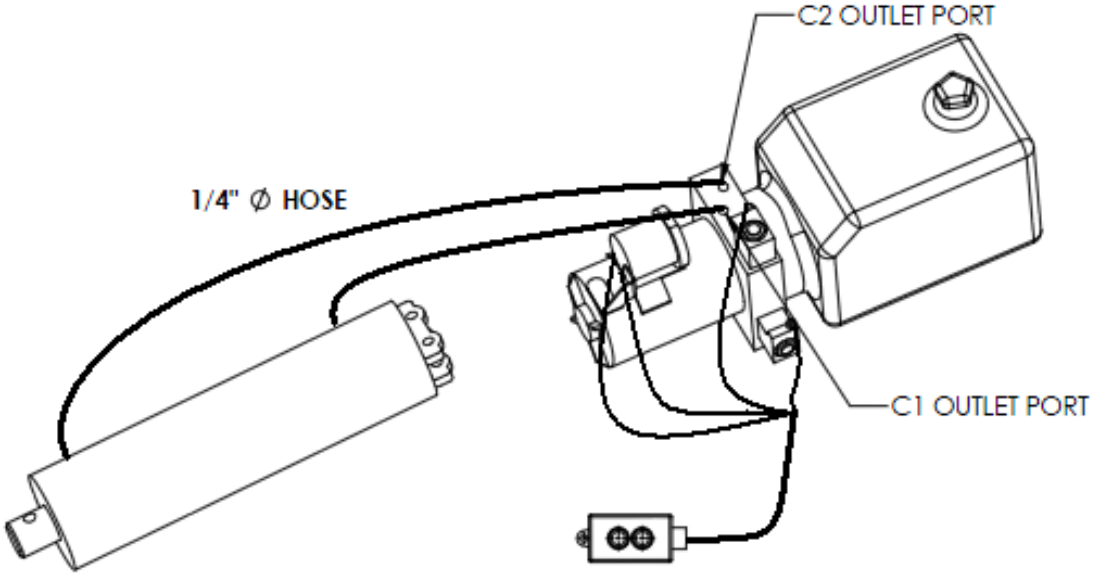
NOTE: LAST CONNECTIONS SHOULD BE MADE TO BATTERY, ONLY AFTER ALL WIRING IS DOUBLE CHECKED.

ELECTRIC HYDRAULIC PUMP

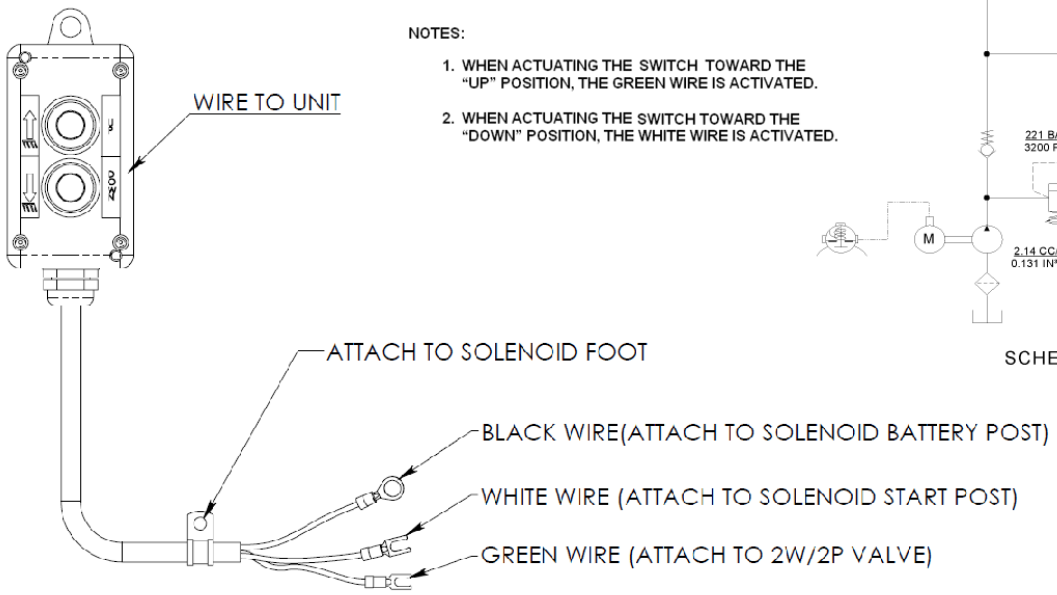
SINGLE ACTING



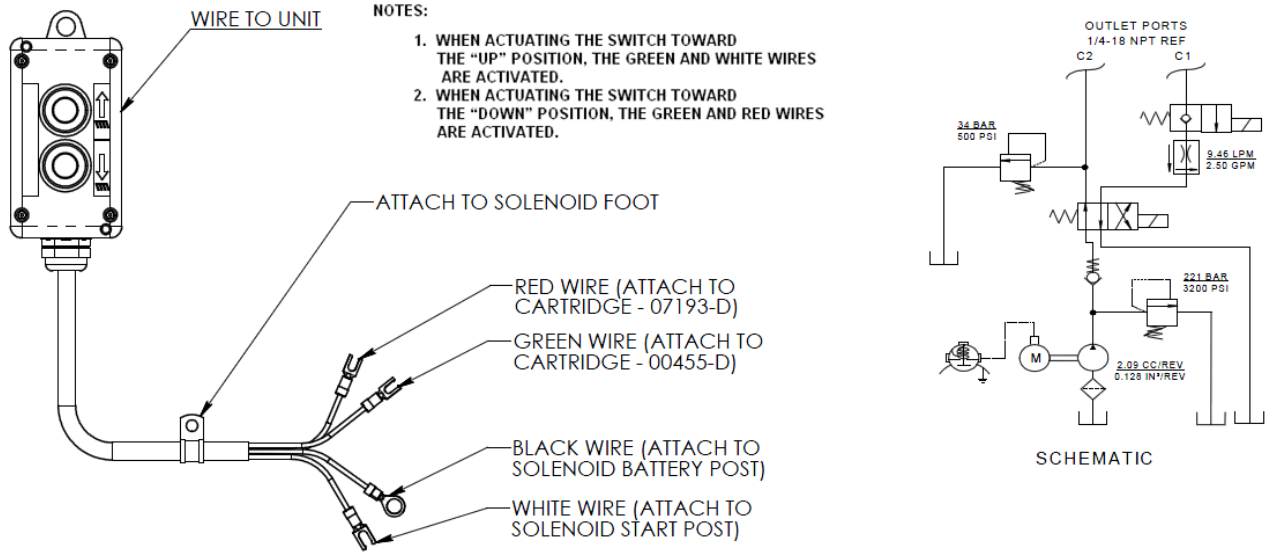
DOUBLE ACTING



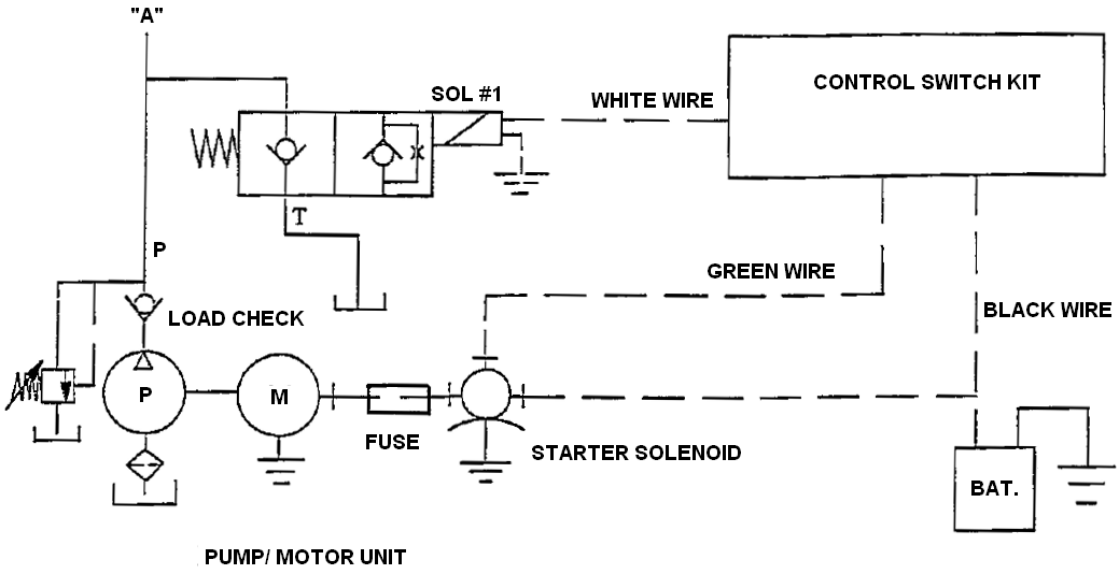
WIRING DIAGRAM FOR SINGLE ACTING APPLICATION



WIRING DIAGRAM FOR DOUBLE ACTING SWTICH

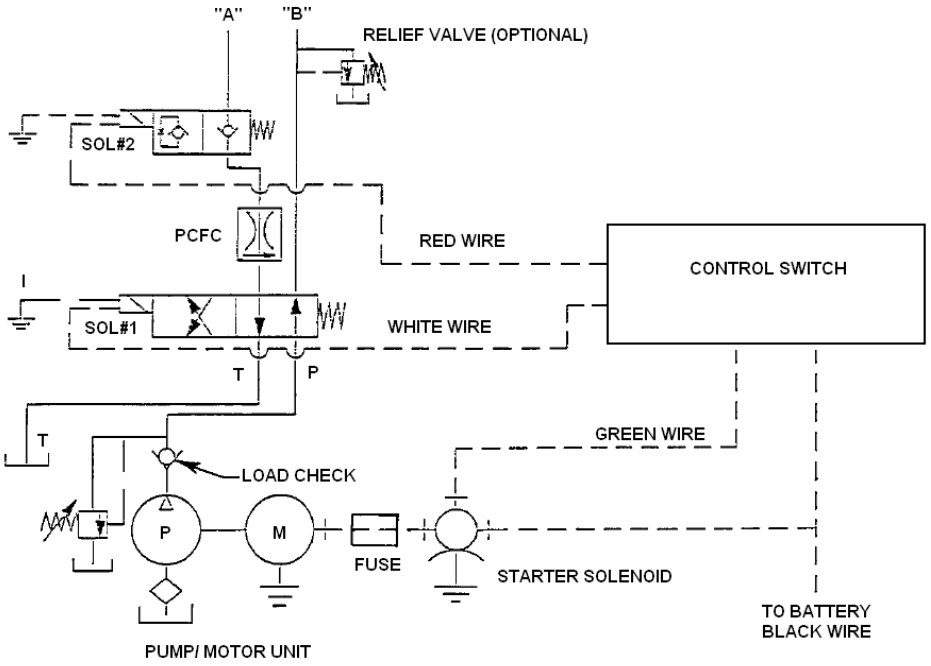


WIRING DIAGRAM FOR SINGLE ACTING SWITCH



SYSTEM FUNCTION	VALVE CHARACTERISTICS
ENERGIZING POWER UNIT ONLY, OIL IS DIRECTED TO PORT "A". **ENERGIZING SOL#1 ONLY, OIL IS DIRECTED FROM PORT "A" BACK TO TANK ("T" PORT).** **APPLICATION** **1 . POWER UP/ GRAVITY DOWN**	1. **USES ONE 2-WAY, N/C P.O. POPPER TYPE CARTRIDGE VALVE, SOLENOID OPERATED.** 2. **MANIFOLD BLOCK MACHINED FOR ONE 2-WAY, CARTRIDGE VALVE AND WITH ONE 3/8" NPT PORT.** **LIMITATIONS** 1. **THIS VALVE MAY BE USED IN LIFTING APPLICATIONS WITH THE FOLLOWING PRECAUTION:** o **IF VALVE IS USED IN AN APPLICATION IN WHICH A CYLINDER IS TO BE LOWERED WITH A LOAD ON IT (OVER-RIDING LOAD), IT SHOULD BE NOTED THAT THE LOADED CYLINDER MAY LOWER VERY RAPIDLY (IN AS LITTLE AS ONE (1) SECOND WITH A HEAVY OVER-RIDING LOAD ON THE CYLINDER.** 2. **THIS VALVE IS NOT STACKABLE** 3. **IT IS RECOMMENDED THAT IN APPLICATIONS IN WHICH A CYLINDER IS TO BE LOWERED WITH A LOAD ON IT (OVER-RIDING LOAD), THE #11, #12, #15 OR #16 VALVE IS TO BE USED SO THAT COMPLETE "CONTROL" OF CYLINDER IS OBTAINED AT ALL TIMES.** 4. **HORIZONTAL MOUNTING**

WIRING DIAGRAM FOR DOUBLE ACTING APPLICATION



SYSTEM FUNCTION

ENERGIZING POWER UNIT AND SOL#1, OIL IS DIRECTED TO PORT "A" AND OIL FROM PORT "B" IS DIRECTED BACK TO TANK ("T" PORT)

ENERGIZING POWER UNIT AND SOL#2, OIL IS DIRECTED TO PORT "B" AND OIL FROM PORT "A" IS DIRECTED BACK TO TANK ("T" PORT).

APPLICATION

1 . POWER UP/ POWER DOWN
2. POWER EXTEND/ POWER RETRACT

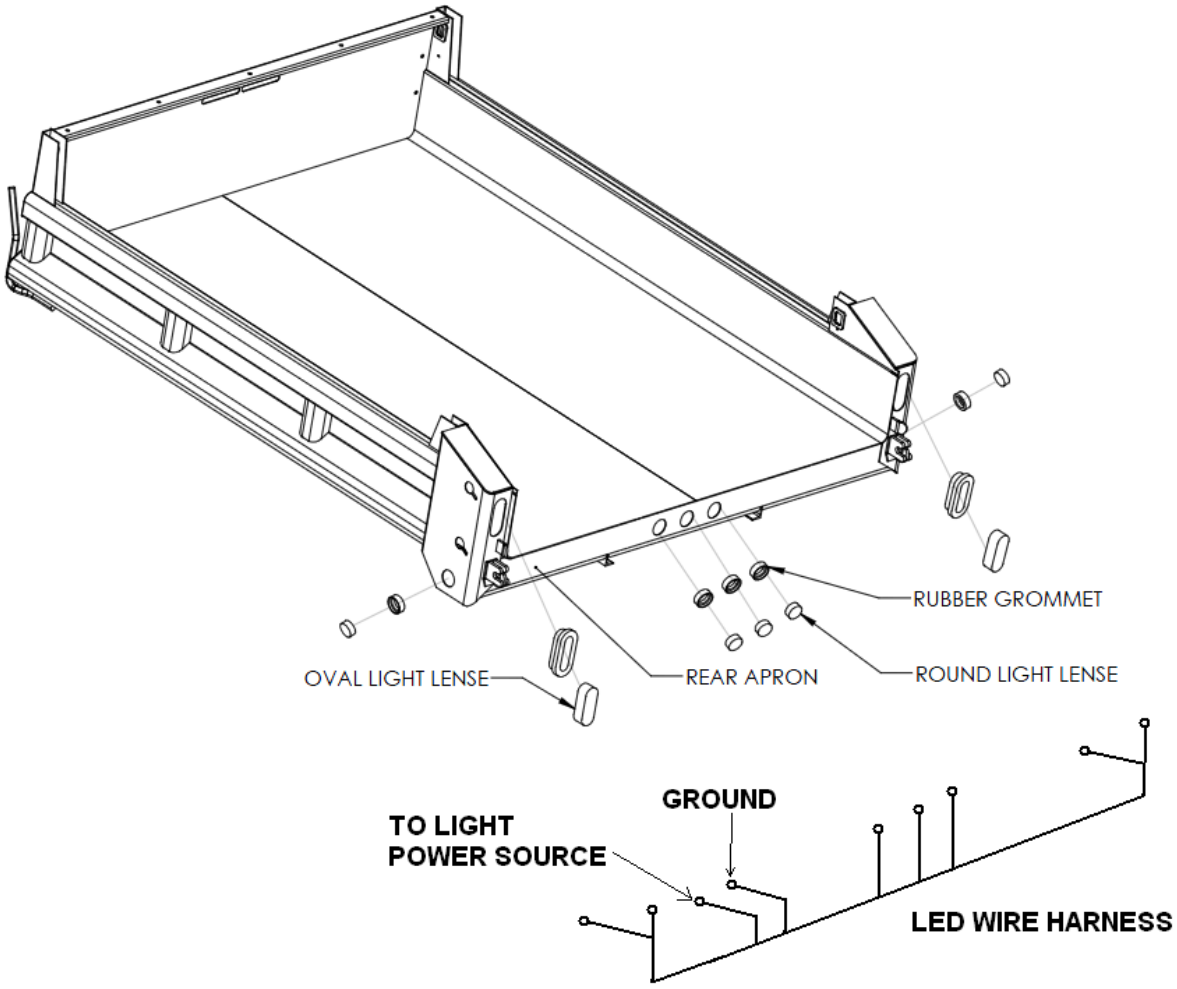
VALVE CHARACTERISTICS

1. **USES ONE 4-WAY, 2 POSITION SPOOL TYPE CARTRIDGE VALVE AND ONE 2-WAY N.C.P.O. POPPET TYPE CHECK VALVE, SOLENOID OPERATED**
2. **ALUMINUM MANIFOLD BLOCK MACHINED FOR 4-WAY, 2-POSITION CARTRIDGE VALVE, TWO 2-WAY CHECK VALVES (PLUGGING ONE CAVITY IN THIS APPLICATION) AND WITH TWO 3/8" NPT PORTS.**
3. **PRESSURE COMPENSATED FLOW CONTROL**

LIMITATIONS

1. **WHEN LIFTING AND/ OR HOLDING A LOAD, USE PORT "A"**
2. **IF VALVE IS USED IN AN APPLICATION IN WHICH A CYLINDER IS TO BE LOWERED WITH A LOAD ON IT (OVER-RIDING LOAD), IT SHOULD BE NOTED THAT PRESSURE SURGES CAN OCCUR IN THE LOAD HOLDING HOSE.**
3. **THIS VALVE IS STACKABLE FROM THE FACTORY UP TO THREE VALVES**
4. **HORIZONTAL MOUNTING**

PRO-CLASS ® DUMP BODY
LIGHT KIT INSTALLATION



1. **INSERT RUBBER GROMMETS INTO CORNER POSTS AND THE REAR APRON.**
2. **INSERT THE LIGHT LENSES INTO THE RUBBER GROMMETS.**
3. **RUN THE WIRE HARNESS ALONG THE REAR APRON AND CONNECT TO ALL LENSES.**

DUMP BODY OPERATING INSTRUCTIONS

1). TO DUMP A LOAD:

A). ENSURE THE TRUCK IS FULLY STOPPED WITH THE PARKING BRAKE ON. ALSO MAKE SURE THE TRUCK IS PARKED ON LEVEL AND STABLE GROUND.

B). REMOVE THE DUMP RELEASE HANDLE SAFETY RING AND PUSH THE HANDLE DOWNWARD TO DISENGAGE THE TAILGATE LOCKING MECHANISM.

C). ENGAGE THE HOIST AND RAISE THE BODY TO MAXIMUM HEIGHT.

CAUTION: BE ALERT FOR ANY OVERHEAD OBSTRUCTIONS WHEN RAISING THE DUMP BODY.

WARNING: NEVER STAND DIRECTLY BEHIND THE DUMP BODY WHILE DUMPING A LOAD! NEVER STAND IN OR ON THE DUMP BODY WHILE DUMPING! NEVER STAND ON ANY PART OF THE TRUCK WHILE OPERATING THE DUMP BODY! NEVER STAND UNDER A RAISED BODY!

D). WHEN THE LOAD IS FINISHING DUMPING, LOWER THE HOIST AND PULL THE DUMP RELEASE HANDLE UPWARDS UNTIL FULLY CLOSED. REPLACE THE DUMP RELEASE HANDLE SAFETY RING.

2). WHEN GETTING UNDER A RAISED BODY FOR SERVICE OR MAINTENANCE, MAKE SURE THE BODY IS EMPTY AND POSITIONED PROPERLY ON THE BODY PROP.

DUMP BODY OPERATING INSTRUCTIONS

3). TO AVOID LOADING THE TRUCK BEYOND VEHICLE MANUFACTURER'S RATED CAPACITY, REFER TO THE SPECIFIC TRUCK MANUFACTURER'S PUBLICATION FOR WEIGHT RATING INFORMATION.

4). MAKE CERTAIN THE LOAD IS EVENLY DISTRIBUTED IN THE BODY.

5). ONLY RAISE A LOAD ON LEVEL AND STABLE GROUND. ALWAYS LOWER THE BODY TO FULL DOWN POSITION WHILE VEHICLE IS UNATTENDED. IF THE HOIST IS PTO DRIVEN, ALWAYS DISENGAGE PTO WHEN HOIST IS NOT IN USE OR WHEN MOVING THE VEHICLE.

6). THE OPERATOR MUST STAY AT THE CONTROLS THROUGHOUT THE DUMP CYCLE. OTHERS MUST STAY WELL CLEAR FROM THE BODY AND REAR DUMP AREA DURING DUMPING OPERATIONS AND WHILE OPERATING THE HOIST.

7). DO NOT TRY TO FREE A STUCK LOAD BY MOVING THE TRUCK AND BRAKING ABRUPTLY.

8). ALWAYS CHECK BEHIND THE DUMP BODY BEFORE DUMPING TO ENSURE THE AREA WHERE THE LOAD WILL BE DUMPED IS CLEAR.

9). DO NOT MOVE THE TRUCK UNLESS THE BODY IS IN THE FULLY LOWERED POSITION.

10). WHEN THE TAILGATE IS OPEN FROM THE TOP AND LAYING IN THE HORIZONTAL POSITION, DO NOT EXCEED 200LBS OF LOAD ON THE TAILGATE.

DUMP BODY OPERATING INSTRUCTIONS

11). BODY PROP USE INSTRUCTIONS:

A). THE BODY PROP SHOULD BE USED WHENEVER ANY ACTIVITY IS TO BE PERFORMED UNDER A RAISED, EMPTY BODY.

WARNING: NEVER USE THE BODY PROP TO SUPPORT A LOADED BODY! ENSURE THE BODY IS EMPTY WHEN USING THE BODY PROP.

B). TO PROP THE RAISED BODY:

1. **RAISE THE BODY TO A HEIGHT SLIGHTLY HIGHER THAN THE REACH OF THE PROP.**
2. **SHUT OFF ALL POWER TO THE UNIT, MAKING SURE THE PUMP CONTROL KNOB IS IN THE NEUTRAL POSITION.**
3. **GRAB THE PROP FROM THE LATCHED POSITION BY TURNING THE PROP HANDLE CLOCKWISE WHILE PUSHING HANDLE IN.**
4. **MOVE PROP UPWARDS INTO VERTICAL POSITION.**
5. **PUSH DOWN UNTIL PROP LOCKS INTO VERTICAL POSITION.**
6. **USING THE CAB CONTROLS, LOWER THE BODY SLOWLY UNTIL UPPER CROSS BEAM OF THE HOIST COMES TO REST ON THE HOOK OF THE PROP.**

WARNINGS: DO NOT POWER DOWN THE HOIST WHILE BODY PROP IS SUPPORTING THE BODY.

C). TO LOWER THE PROP FOR OPERATION OF THE TRUCK, "REVERSE" THE STEPS ABOVE. CAUTION: NEVER POSITION YOURSELF OR ALLOW OTHERS TO POSITION THEMSELVES UNDER A LOADED BODY.

DUMP BODY OPERATING INSTRUCTIONS

12). TAILGATE OPERATING INSTRUCTIONS:

A). ONLY OPERATE THE TOP TAILGATE LATCH WHEN BODY IS EMPTY.

B). THE BOTTOM TAILGATE LATCH MUST BE IN THE CLOSED POSITION AND THE BOTTOM LATCH HANDLE SECURED BY THE SAFETY CHAIN PRIOR TO OPERATION OF THE TOP TAILGATE LATCH.

C).THE TOP TAILGATE LATCH SHOULD NEVER BE OPENED WHEN THE DUMP BODY IS IN A RAISED POSITION AND ONLY WHEN THE DUMP BODY IS EMPTY.

D). THE TOP TAILGATE LATCH SHOULD ONLY BE USED WHILE SUPPORTING THE TAILGATE AT THE VERY TOP. FAILURE TO DO SO CAN CAUSE THE TAILGATE TO ROTATE OPEN UNCONTROLLABLY.

E). EXTREMITIES MUST BE KEPT AWAY FROM CHAINS AND OTHER PINCH POINTS WHILE OPENING THE TAILGATE FROM THE TOP DOWN. WHILE SUPPORTING THE TAILGATE AT THE VERY TOP DURING OPENING, BE SURE ALL EXTREMITIES ARE AWAY FROM CHAINS AND OTHER PINCH POINTS.

F). THE BOTTOM OF THE TAILGATE SHOULD BE LATCHED AND PROPERLY ADJUSTED PRIOR TO OPENING THE TAILGATE FROM THE TOP DOWN. THIS WILL KEEP THE TAILGATE FROM FALLING.

G).TAILGATE SUPPORT CHAINS SHOULD BE USED WHEN OPENING THE TAILGATE FROM THE TOP. THIS WILL PREVENT THE TAILGATE FROM OPENING TOO FAR AND CAUSING DAMAGE TO THE TAILGATE OR DUMP BODY.

DUMP BODY STORAGE INSTRUCTIONS

1). ALL THE BOXED PARTS THAT WERE SHIPPED INSIDE THE BODY SHOULD BE IMMEDIATELY REMOVED AND STORED INSIDE.

2). DUMP BODIES SHOULD NOT BE STACKED ON TOP OF EACH OTHER FOR STORAGE.

3). SET THE BODY ON WOOD BLOCKS OR OTHER COMPARABLE MATERIAL TO RAISE IT ABOVE THE GROUND AT LEAST 4" TO PREVENT STANDING WATER FROM MAKING CONTACT WITH THE BODY.

4). THE FRONT END OF THE BODY SHOULD BE AT LEAST 2" HIGHER THAN THE REAR END TO FORCE WATER TO DRAIN OUT OF THE INSIDE OF THE BODY. THE TAILGATE SHOULD BE STORED MOUNTED TO THE BODY, BUT UNLATCHED AT THE BOTTOM AND PROPPED OPEN SLIGHTLY TO FACILITATE DRAINAGE OF WATER OUT OF THE BODY.

5). DO NOT STORE BODIES ON UNPAVED GROUND FOR MORE THAN 4 MONTHS.

TROUBLESHOOTING

WARNING: THE BODY PROP MUST BE USED BEFORE WORKING ON ANY RAISED BODY!

1. **HOIST WILL NOT RAISE WITH LOAD:**
   - A. **REDUCE THE LOAD OR DISTRIBUTE THE LOAD TO THE REAR.**
     1A. REDUCE THE LOAD OR DISTRIBUTE THE LOAD TO THE REAR.
   - B. **A HYDRAULIC LINE MAY HAVE A RESTRICTION OR BE DAMAGED.**
     1B. CHECK FOR A DAMAGED OR PINCHED LINE. REPLACE OR RE-ROUT LINE IF NECESSARY.
   - C. **THE VALVE MAY NOT BE ACTUATING PROPERLY.**
     1C. WHEN ENGAGED THE VALVE MUST RUN A FULL STROKE. CHECK THE VALVE FOR DAMAGE OR CONTAMINATION. CLEAN VALVE OR REPLACE DAMAGED VALVE IN NECESSARY.
     2C. CHECK FOR WEAR ON THE PUMP CONTROL CABLE. REPLACE IF NECESSARY.

     NOTICE: THE PUMP CONTROL KNOB SHOULD RETURN TO THE NEUTRAL POSITION NATURALLY, WHEN THE KNOB IS RELEASED.

   - D. **THE PUMP PRESSURE MAY NOT BE SET CORRECTLY.**
     1D. THE MAXIMUM OUTPUT PRESSURE SHOULD BE 2500 PSI FOR THE HOIST.
     2D. IF THE PUMP RELIEF VALVE CANNOT BE ADJUSTED TO MEET THE REQUIRED SPECIFICATIONS REPLACE THE PUMP.
2. **HOIST WILL NOT LIFT LOAD TO TOP OF CYCLE:**
   - A. **THE OIL LEVEL IN THE RESERVOIR MAY BE LOW.**
     1A. CHECK THE LEVEL OF THE OIL IN THE RESERVOIR. ADD OIL TO THE RESERVOIR IF THE OIL LEVEL IS LOWER THAN 2 INCHES FROM THE TOP WITH THE HOIST IN THE CLOSED POSITION.
3. **HOIST DELAYS BEFORE BEGINNING TO LIFT:**
   - A. **THE SYSTEM MAY HAVE AIR TRAPPED IN IT.**
     1A. RUN THE HOIST FOR A FULL CYCLE 6-7 TIMES TO REMOVE ALL THE AIR FROM THE CYLINDER.
   - B. **THE PUMP MAY BE INADVERTENTLY DRAWING AIR INTO THE SYSTEM.**
     1B. CHECK ALL THE HOSES AND FITTINGS TO MAKE SURE THAT NO AIR IS BEING DRAWN INTO THE SYSTEM. TIGHTEN THE FITTINGS AND HOSES. REPLACE IF NECESSARY.

TROUBLESHOOTING

4. **THE HOIST LIFTS SLOWLY:**
   - A. **THE FLOW RATE OF THE PUMP MAY BE TOO LOW.**

     1A. CLEAN THE RESERVOIR FILTER SCREEN AND BREATHER CAP IF NECESSARY.

     2A. CHECK FOR SEVERE BENDS IN THE PUMP SUCTION HOSE. REPLACE IF DAMAGED OR RE-ROUTE.
   - B. **THE OIL MAY BE TOO THICK.**

     1B. REPLACE WITH A LIGHTER WEIGHT OIL, PREFERABLY DEXRON ATF (AUTOMATIC TRANSMISSION FLUID)
5. **LOAD SLOWLY DESCENDS WHILE IN A HOLD POSITION:**
   - A. **OIL MAY BE LEAKING.**

     1A. THE VALVE MAY BE DEFECTIVE OR WORN. REPLACE IF NECESSARY.

     2A. THERE MAY BE AN OIL LEAK PAST THE CYLINDER SEALS. REPLACE ALL OF THE SEALS OR THE CYLINDER IF NECESSARY.

     3A. THERE MAY BE AN EXTERNAL LEAK. INSPECT ALL THE HOSES, FITTINGS, AND THE CYLINDER FOR ANY OIL LEAKS. REPAIR OR REPLACE AS NEEDED.

GENERAL MAINTENANCE

WARNING: BEFORE WORKING UNDER A RAISED BODY, MAKE SURE IT IS SUPPORTED BY THE BODY PROPS!

ELECTRIC HOIST LIFT

CLEANLINESS IN HANDLING OF THE HYDRAULIC OIL CANNOT BE STRESSED ENOUGH. TO INSURE MAXIMUM PERFORMANCE OF THE SYSTEM, THE OIL MUST BE KEPT IN CLOSED CONTAINERS AND HANDLED WITH CLEAN MEASURES. OIL MUST BE CHANGED EVERY 200 HOURS UNDER NORMAL USE CONDITIONS. IN HEAVY USE AND/OR DUSTY CONDITIONS, FLUID SHOULD BE CHANGED MORE OFTEN. USE DEXRON AUTOMATIC TRANSMISSION FLUID ONLY!

ELECTRIC LIFT SYSTEM

CHECK FLUID LEVEL AT LEAST ONCE A WEEK. REPAIR ANY LEAKS AS SOON AS POSSIBLE AS THIS SYSTEM HAS A LIMITED RESERVOIR CAPACITY. PLEASE SEE THE LUBRICATION SECTION OF THIS MANUAL FOR MORE INFORMATION.

ELECTRICAL PLUGS

ELECTRICAL PLUGS SHOULD BE CHECKED PERIODICALLY, ESPECIALLY IN THE WINTER FOR CORROSION. RECOMMEND USE OF A CORROSION INHIBITOR THAT CAN BE FOUND IN ANY ELECTRICAL SUPPLY STORE.

BODY

ANY RUST SPOTS SHOULD BE SAND BLASTED OR SANDED & REPAINTED WITH A GOOD QUALITY PRIMER AND ACRYLIC ENAMEL PAINT. THIS SHOULD BE DONE EVERY SPRING. SPECIAL ATTENTION MUST BE GIVEN TO THE SPLASH AREA ABOVE THE REAR WHEELS AND THE CONVEYOR AREA OF THE BODY. THESE ARE THE AREAS WHERE THE PAINT IS MOST LIKELY TO WEAR OFF.

PART LISTS

AND

ILLUSTRATIONS

PRO-CLASS ® DUMP BODY
DUMP RELEASE MECHANISM

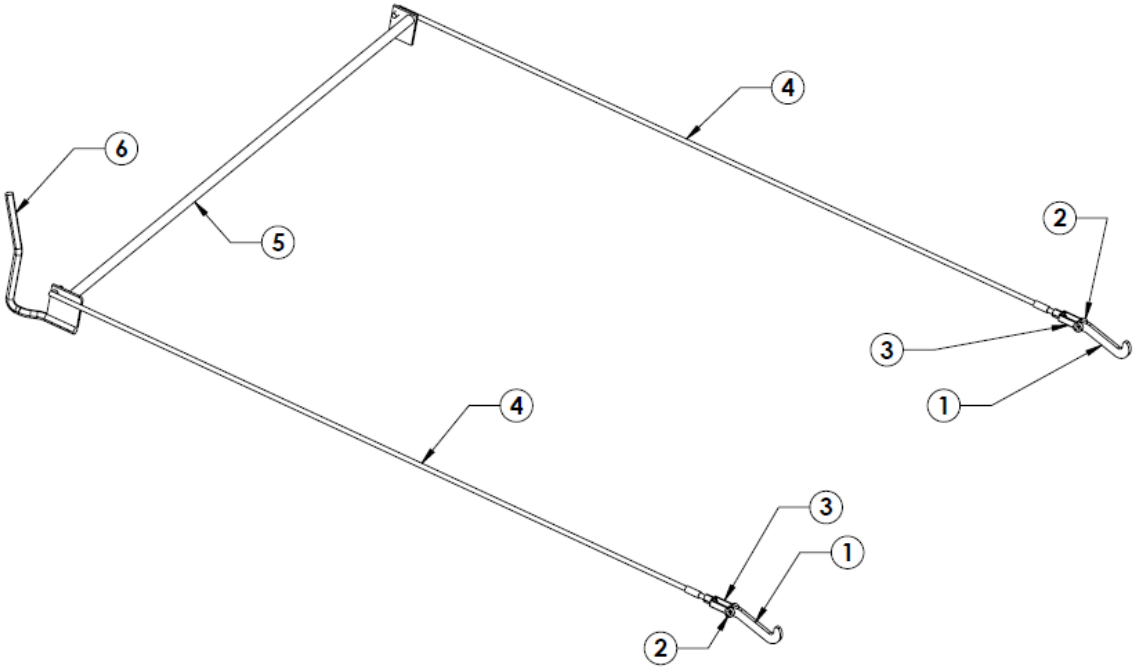
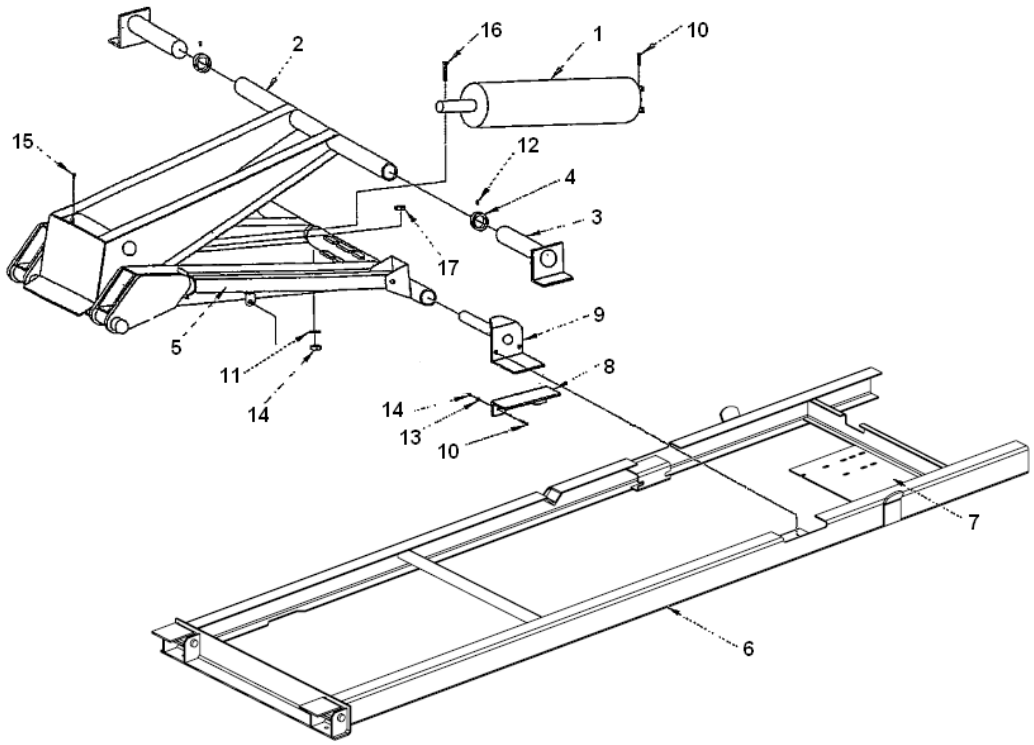


DIAGRAM NUMBER	PART NUMBER	DESCRIPTION
1.	86006	TAILGATE LATCH HOOK
2.	86007	YOKE PIN AND HAIR PIN
3.	01095	YOKE
4.	86008	TAILGATE RELEASE ROD
5.	86009	HORIZONTAL TG RELEASE ROD
6.	86010	TAILGATE RELEASE HANDLE

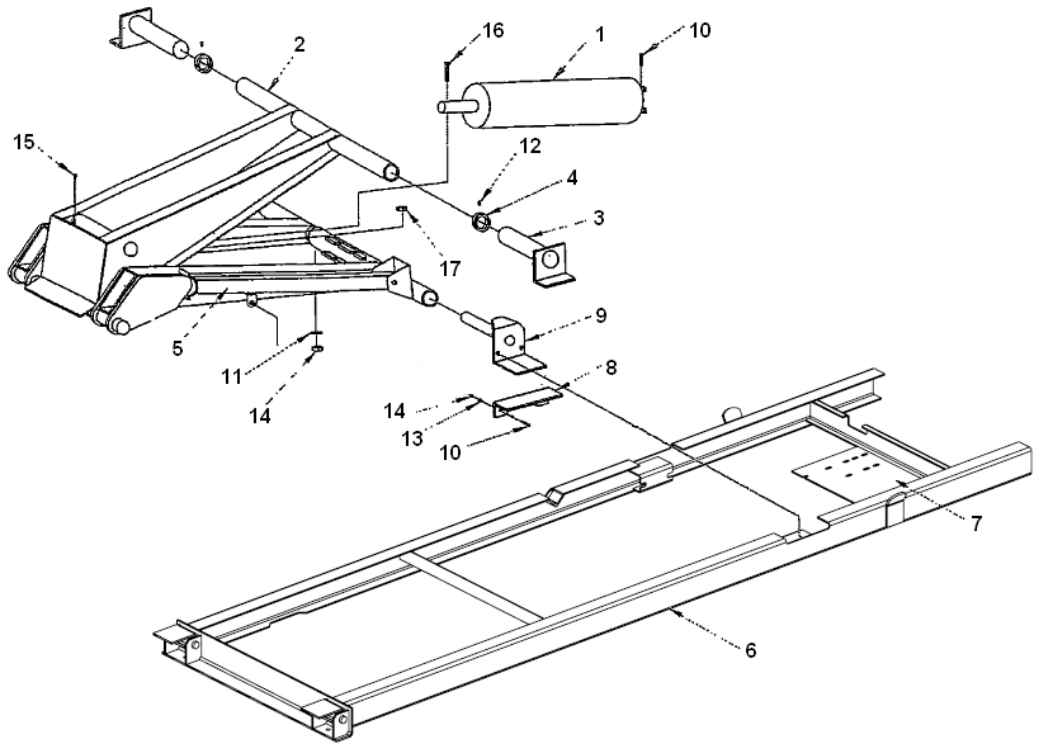
PARTS LIST



Airflo PCS – 20 HOIST with SUB FRAME FOR 8’ & 9’ UNITS

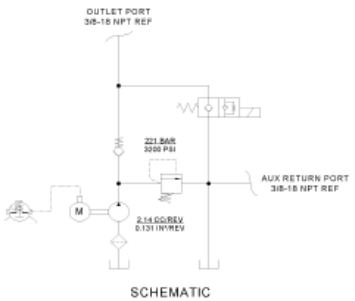
ITEM #	PART #	DESCRIPTION	REQ'D	ITEM #	PART #	DESCRIPTION	REQ'D
1	37058	HYDRAULIC CYLINDER 8'-9'	1	10	01380	1/2"-13 X 2-3/4" GRADE 8 BOLT	10
2	86416	PCS-20 SCISSOR HOIST ASSEM.	1	11	01399	1/2"-13 X 3-1/2" GRADE 8 BOLT	1
3	86032	LIFT SHAFTS	2	12	01134	3/8"-16 X 5/8" SQUARE HEAD SET SCREW	2
4	86035	LOCKING COLLAR	2	13	01049	1/2" FLAT WASHER	8
5	86014	BODY PROP	1	14	01337	1/2" NYLOCK NUT	11
6	86418	8-9' PCS-20 SUB FRAME	1	15	20005	1/4"-28 TAPERED THD 39/64 GREASE FITTING	4
7	86116	PUMP BRACKET	1	16	01139	5/8" X 4" GR. 8 HEX CAP	1
8	86034	MOUNTING BRACKET	2	17	01297	5/8" HEX LOCK NUT	1
9	86033	SADDLE BRACKET SET	1				

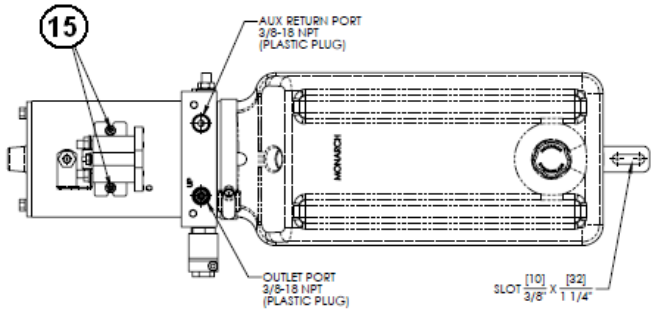
PARTS LIST

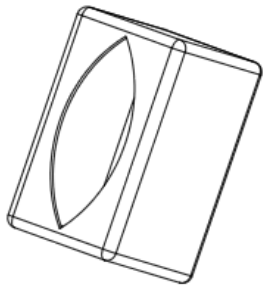


Airflo PCS – 40 HOIST with SUB FRAME FOR 10’ – 12’ UNITS

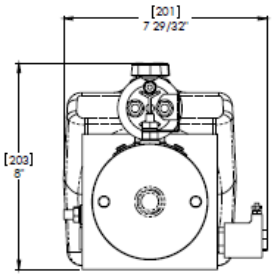
ITEM #	PART #	DESCRIPTION	REQ'D	ITEM #	PART #	DESCRIPTION	REQ'D
1	37024	HYDRAULIC CYLINDER 10'-12'	1	10	01380	1/2"-13 X 2-3/4" GRADE 8 BOLT	10
2	86016	PCS-40 SCISSOR HOIST ASSEM.	1	11	01399	1/2"-13 X 3-1/2" GRADE 8 BOLT	1
3	86032	LIFT SHAFTS	2	12	01134	3/8"-16 X 5/8" SQUARE HEAD SET SCREW	2
4	86035	LOCKING COLLAR	2	13	01049	1/2" FLAT WASHER	8
5	86014	BODY PROP	1	14	01337	1/2" NYLOCK NUT	11
6	86030	10-12' PCS-20 SUB FRAME	1	15	20005	1/4"-28 TAPERED THD 39/64 GREASE FITTING	4
7	86116	PUMP BRACKET	1	16	01139	5/8" X 4" GR. 8 HEX CAP	1
8	86034	MOUNTING BRACKET	2	17	01297	5/8" HEX LOCK NUT	1
9	86033	SADDLE BRACKET SET	1				

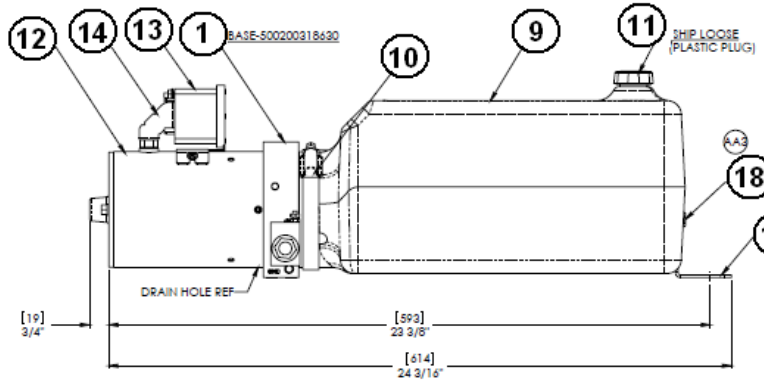


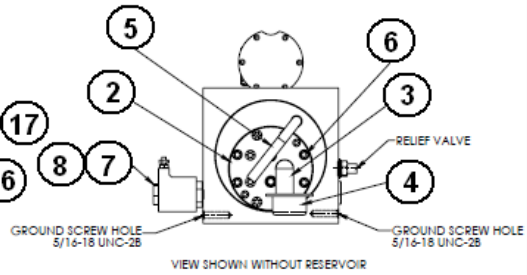


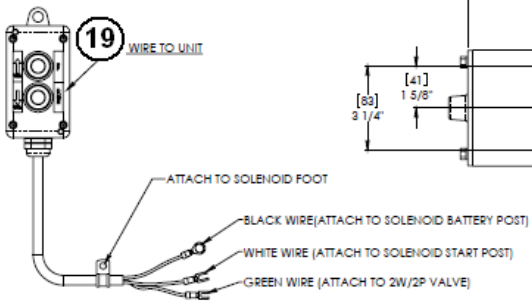

SOLENOID COVER TOP
15083

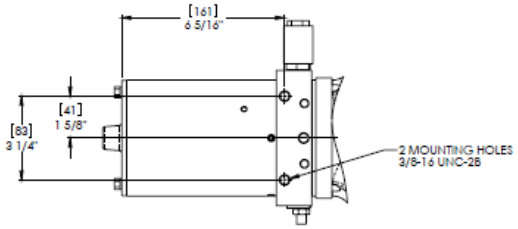

SOLENOID
COVER BOTTOM
77182





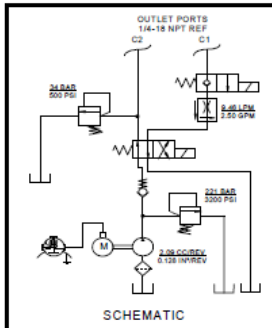


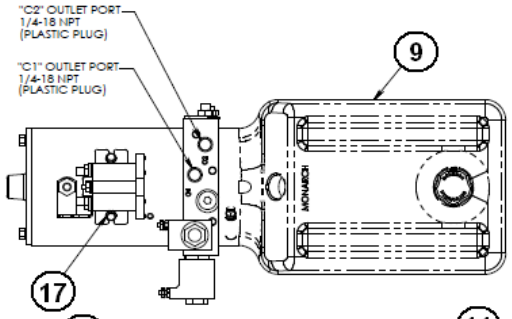


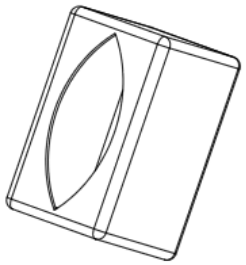


PART # 15011 - PUMP UNIT, M-3519-0237, HORZ MT, 12 VDC			
ITEM #	QTY	AIR-FLO PART #	DESCRIPTION
1	1	15085	BASE ASSY,M3519,MOD,STD MTR/MT
2	1	15077	P ASSY,QM,MDLR,DC,BRGS BLD RSV
3	1	15086	TUBE,SUCTION,90 DGR,3/8NPT
4	1	15087	FILTER,SCREEN M-SERIES SUCT.
5	1	15088	TUBE,RETURN,90DEG,1/8NPT,M301
6	4	15089	SCREW,SHC,1/4-20 X 3.0,BLK OX
7	1	15064	CARTRIDGE,2W/2P,NC,POPPET,4000
8	1	15066	COIL,10VDC,GROUNDED,SNGLE STUD
9	1	15071	RESV,PLASTIC,6.7X6.7X15,H/MT
10	1	15074	CLAMP,HOSE,WORM GEAR,RSV,M-SER
11	1	15069	PLUG,RESEV,BREATHER-FILLER
12	1	15062	MOTOR,DC,12V,4.5",1 TERM
13	1	15063	SWITCH,SOL ACT MTR ST,12 VDC
14	1	15081	STRAP,MOTOR-SOLENOID CONNECTNG
15	2	15090	SCREW,PAN HD,TORX,10-32 X 5/16
16	1	15091	BRACKET,MT,RESV,90 DEG,SINGLE
17	1	15092	WASHER,LOCK,5/16
18	1	15093	SCREW,H.H.CAP,5/16-18 X 5/8
19	1	15072	CONTROL STATION,WP,2 PB,W/120"

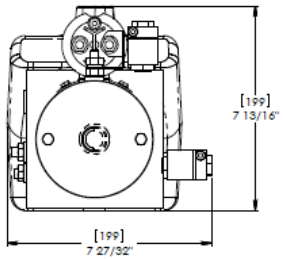
Air flo®

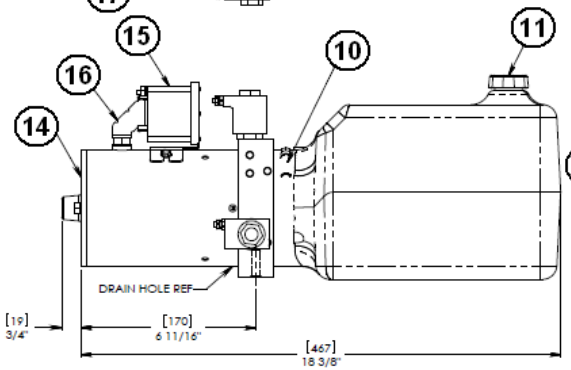


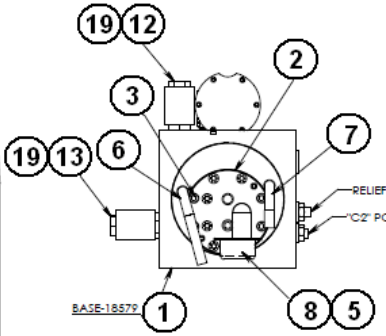



SOLENOID COVER TOP
15083

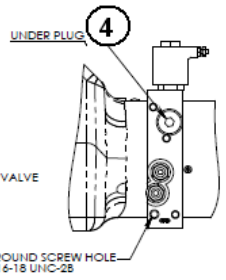

SOLENOID
COVER BOTTOM
77182

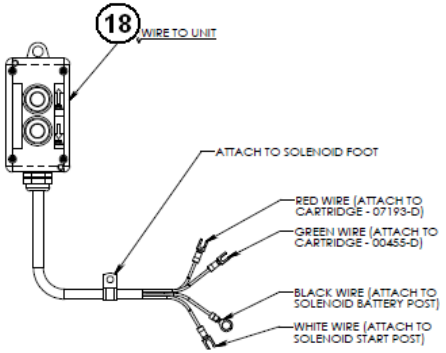


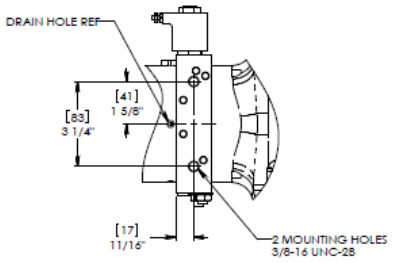




VIEW SHOWN WITHOUT RESERVOIR







PART # 15012 - PUMP UNIT, M-3551-0300, HORZ MT, 12 VDC			
ITEM #	QTY	AIR-FLO PART #	DESCRIPTION
1	1	15094	BASE ASSY,M3551,MOD,STD MTR/MT
2	1	15078	P ASSY,QM MDLR,DC,BRGS BLD RSV
3	4	15095	SCREW,SHC,1/4-20 X 3.0,BLK OX
4	1	15096	POPPET ASSY,P CMP FL,GPM2 1/2
5	1	15097	TUBE,SUCTION,90 DGR,3/8NPT
6	1	15098	TUBE,RETURN,90DEG,1/8NPT,M301
7	1	15099	TUBE,RETURN,90DEG,1/8NPTF
8	1	15100	FILTER,SCREEN M-SERIES SUCT.
9	1	15068	RESV,PLASTIC,6.7X6.7X11,H/MT
10	1	15074	CLAMP,HOSE,WORM GEAR,RSV,M-SER
11	1	15069	PLUG,RESEV,BREATHER-FILLER
12	1	15064	CARTRIDGE,2W/2P,NC,POPPET,4000
13	1	15065	CARTRIDGE,4-W/2-P,#8,1/2"STEM
14	1	15062	MOTOR,DC,12V,4.5",1 TERM
15	1	15063	SWITCH,SOL ACT MTR ST,12 VDC
16	1	15081	STRAP,MOTOR-SOLENOID CONNECTNG
17	2	15101	SCREW,HEX,WSHR,SERRATED HD
18	1	15070	CONTROL STATION,WP,2 PB,W/120"
19	2	15066	COIL,10VDC,GROUNDED,SNGLE STUD

PRO-CLASS ® DUMP BODY PARTS LIST

PART NUMBER	DESCRIPTION
07273	LED LIGHT KIT
12019	HYDRAULIC HOSE WITH CRIMPED FITTINGS
15011	SINGLE ACTING HYDRAULIC PUMP UNIT
15012	DOUBLE ACTING HYDRAULIC PUMP UNIT
17014	250 AMP FUSE FOR ELECTRIC PUMP
17015	FUSE HOLDER FOR ELECTRIC PUMP
24010	DANGER LABEL
24014	DANGER LABEL
24016	DANGER LABEL
24017	WARNING LABEL
24022	8 & 9 FT CYLINDER LABEL
24023	10 & 11 FT CYLINDER LABEL
24050	DANGER LABEL
24066	DANGER LABEL
24092	WARNING LABEL
24187	TOP TAILGATE RELEASE OPERATION LABEL
24188	DANGER LABEL
37022	HYDRAULIC CYLINDER SEAL KIT
37024	HYDRAULIC CYLINDER 10'-12'
37025	HYDRAULIC CYLINDER BREATHER
37058	HYDRAULIC CYLINDER 8'-9'
86014	BODY PROP
86416	PCS-20 SCISSOR HOIST
86016	PCS-40 SCISSOR HOIST

PRO-CLASS ® DUMP BODY WARRANTY

AIR-FLO MANUFACTURING CO., INC., hereinafter referred to as "Manufacturer", warrants each new Pro-Class ® Body sold by the Manufacturer to be free from defects in material and workmanship, under normal use and service, for a period of One (1) year after the date of delivery to the original retail purchaser, and Manufacturer will, at its option, replace or repair, at one of the Manufacturer's Dealers, or at a point designated by the Manufacturer, any part or parts which shall appear to the satisfaction of the Manufacturer to bear and transportation charges in connection with the replacement or repair of defective parts.

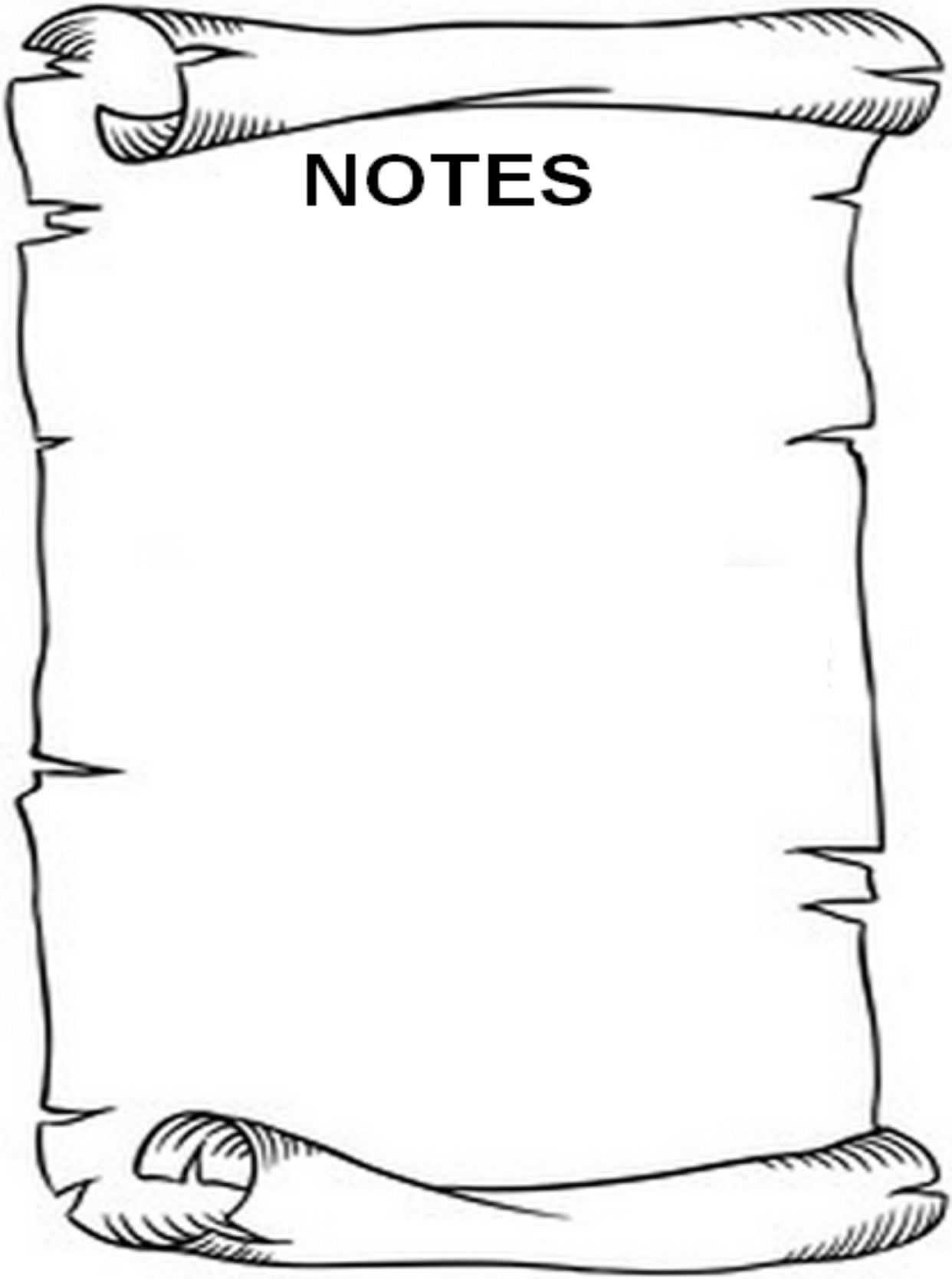
This Warranty shall not apply to any Unit which shall have been installed or operated in a manner not recommended by the Manufacturer; nor to any Unit which shall have been repaired, altered, neglected or used un any way which, in the Manufacturer's opinion, adversely affects it's performance; nor to any Unit in which parts not manufactured by the Manufacturer, or supplied by the Manufacturer or by one of the Manufacturer's Distribution or Service Centers, have been used; nor to any accessories installed on the Unit where the accessory manufacturer has its own warranty; nor to normal maintenance services or replacement of normal service items. Items this would pertain to include the Electric/ Hydraulic Pump Assembly and the Hydraulic Cylinder.

Manufacturer reserves the right to modify, alter, and improve a unit or parts without incurring and obligation to replace and Unit or parts previously sold with such modified, altered, or improved Unit or part.

THIS WARRANTY, AND THE MANUFACTURER'S OBLIGATION HEREUNDER, IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED, OR STATUTORY, INCLUDING ANY WARRANTIES OR MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, and all other obligations or liabilities, including special or consequential damages or contingent liabilities arising out of the failure of any Unit or part to operate properly. No person is authorized to give any other warranty or to assume any additional obligation on the Manufacturer's behalf unless made in writing and signed by the Manufacturer.

Air Flo Mfg. Co. Inc.

Elmira Heights, New York 14903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