UNDERBODY HOIST

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CHAMPION
HOIST AND EQUIPMENT

200 CHAMPION DRIVE
DUNN, N.C. 28334

Phone# (800) -649-4995
Phone# (910) -897-4995
fax# (910) -897-7306

when calling, specify (parts) - (service) - (sales)
have the following information on hand for
greater service, body model # & Serial #
hoist model # & serial #
year, make, type of truck.

this information is provided as indicated
Do not operate this equipment without fully reading and understanding this manual.

Do not allow unauthorized personnel to operate this equipment.

Do not go underneath a loaded raised bed under ANY circumstances.

Do not go underneath an unloaded raised bed unless the safety props are properly positioned.

Do not go underneath a truck with engine running.

Do not allow controls and area around them to become cluttered with tools, cans, etc.
Do not use hands or other body parts to check for hydraulic leaks.
Do not leave truck unattended with bed raised.
Do not allow personnel to ride in or on the bed.
Do not load the equipment beyond the GVW rating of the vehicle or the hoist rating.
Do not operate the hoist on an unlevel or soft surface.
Do not operate the hoist UNDER POWER LINES!!

Do not raise the hoist when vehicle is in motion.

Do not move a vehicle with a raised hoist.
Be sure to........

* Follow all Federal, State, Local regulations pertaining to this equipment.
* Keep unit properly maintained and serviced.
* Understand and follow all safety decals and keep them in good condition.
* Check hydraulic oil level weekly.
  * For PTO driven pumps use HD 32 hydraulic oil.
  * For electric driven pumps use ATF, automatic transmission fluid.
* Add correct hydraulic oil to reservoir as needed.
* Use EP-3 grease for all grease fittings.
* Lubricate hoist and rear hinge assembly every 90 to 180 days depending on usage. (See MP50077)
* Check all bolts, welds, electrical connections frequently.

When calling for Parts/Service Be Sure To Have....

Hoist: model number
serial number

Serial Plate Location
HOIST OPERATION

To Operate Hoist:

(1) Engage PTO per PTO operation instructions.

(2) The pump/hoist control should be in the neutral or “hold” position.

(3) For a manual control - pull to raise, push to lower.  
   NOTE: Manual push/pull controls require a 1/2 inch mounting hole.

(4) When bed raises to desired height, push the pump/hoist controls to 
   the center neutral or “hold” position.  This will stop bed movement 
   up or down.

(5) To lower bed - push pump/hoist control.

(6) Disengage PTO.
INSTALLATION INSTRUCTIONS
REFER TO MP50074

STEP #1  SET SUB FRAME ON CHASSIS 4” FROM CAB.
(NOTE: MAKE SURE THERE ARE NO OBSTRUCTIONS (MUFFLER ETC.)

STEP #2  DRILL (8) 1/2” HOLES THRU CHASSIS AND INSTALL HARDWARE.
(EACH SIDE)

STEP #3  DRILL (2) 5/8” HOLES THRU CHASSIS AND INSTALL 5/8” x 2-1/2” BOLT.
(EACH SIDE)

STEP #4  REMOVE EXCESS CHASSIS.

STEP #5  INSTALL PUMP CABLE ASSEMBLY IN CAB OF TRUCK. THIS REQUIRES A
1/2” HOLE DRILLED THRU CAB FLOOR. (NOTE: CONTROL MUST MOUNTED
IN FLOOR DUE TO CABLE LENGTH)

STEP #6  MOUNT HYDRAULIC PUMP TO PTO. BEFORE MOUNTING, CHECK ROTA-
TION OF PUMP. IF PUMP HAS A ROTATION THAT NEEDS TO BE REVERSED
SEE MP50078 - PROCEDURES TO REVERSE C102 PUMPS ROTATION. IF
APPLICATION CALLS FOR A P22 PUMP SEE NOTE ON PD40030 FOR
FURTHER INSTRUCTIONS.

STEP #7  INSTALL RESERVOIR TANK IN FRONT OF LOWER BUNK FOR A C102 PUMP
APPLICATION AS INDICATED ON MP50077.
FOR A P22 PUMP APPLICATION, TWO THINGS NEED TO BE CONSIDERED:
#1 - REQUIRES A SP4 VALVE & VALVE MOUNTING BRACKET & A
CABLE SUPPORT BRACKET. (SEE MP50079)
#2 - RESERVOIR MOUNTING. SP4 BRACKET IS TO BE MOUNTED IN
SUCH A WAY THAT THE PORTS ARE ACCESSIBLE AND THE
CABLE CONTROLS OPERATE FREELY. AFTER DETERMINING
WHERE THE SP4 VALVE MOUNTING BRACKET WILL BE
MOUNTED, INSTALL RESERVOIR. (SEE MP50077)

STEP #8  PLUMB HYDRAULICS PER PLUMBING DIAGRAM:
PD40029 - SINGLE ACTING CYLINDERS W/ C102 PUMP
PD40030 - DOUBLE ACTING CYCILNDERS W/ P22 PUMP

STEP #9  AFTER HYDRAULIC CONNECTIONS ARE COMPLETED AND CABLE
ASSEMBLY INSTALLED, FILL RESERVOIR WITH OIL.
INSTALLATION INSTRUCTIONS CONTINUED

STEP #10  SET BODY.  THERE ARE 2 METHODS.

#1  FOR A SINGLE ACTING ASSEMBLY - WITH HOIST RAISED SUSPEND BODY OVER SUBFRAME A MINIMUM OF 4” AWAY FROM CAB, AND LOWER BODY DOWN LOW ENOUGH TO INSTALL UPPER LIFT ARM PINS TO BODYS UPPER BUNK. (SEE MP50077 ITEM 1)  AFTER INSTALLATION OF LIFT ARM PINS AND COTTER PINS, LOWER HOIST AND BODY ONTO CHASSIS MAKING SURE CYLINDER IS FULLY RETRACTED.  BODY SHOULD BE EVEN WITH FRONT SUBFRAME RAILS.  WELD REAR HINGE FLIPPERS SECURELY TO BODY.

#2  FOR A DOUBLE ACTING ASSEMBLY - RAISE HOIST AND SUSPEND BODY OVER SUBFRAME A MINIMUM OF 4” AWAY FROM CAB, AND LOWER BODY DOWN LOW ENOUGH TO INSTALL UPPER LIFT ARM PINS TO BODYS UPPER BUNK. (SEE MP50077 ITEM 1)  AFTER INSTALLATION OF LIFT ARM PINS AND COTTER PINS, WHILE LOWERING BODY ONTO CHASSIS AND AT THE SAME TIME USING HYDRAULIC POWER, BOTTOM OUT CYLINDER TO PULL SLACK OUT OF HOIST.  SECURELY WELD REAR HINGE FLIPPERS TO BODY.

CAUTION - IF SLACK IS NOT REMOVED DAMAGE TO HOIST/BODY COULD OCCUR!!!

STEP #11  INSTALL SAFETY PROP CUPS ON BODY IN SUCH A MANNER THAT THE PROP IS ANGLED SLIGHTLY TO THE REAR. (SEE MP50080)

STEP #12  REINSPECT ALL WELDS, CHECK THAT ALL HARDWARE IS SECURE, AND PLUMBING CONNECTION FOR LEAKS. (REPAIR AS NECESSARY)

STEP #13  GREASE ALL PIVOT POINTS AND GREASE FITTINGS. (SEE MP50077)

NOTE:NEVER WORK ON A RAISED EMPTY BODY WITHOUT SAFETY PROPS IN PLACE!!!
C.A. DIMENSIONS (CAB TO CENTER OF AXLE)

BODY LENGTH

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<thead>
<tr>
<th>C.A. DIMENSION (CAB TO CENTER OF AXLE)</th>
<th>84&quot;</th>
<th>10&quot;</th>
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4" MINIMUM BETWEEN CAB & SUBFRAME/BODY

1/2" CONTINUOUS WELD ON BODY ONLY!!

DRILL THRU CHASSIS 1/2" HOLES (EACH SIDE)

10

CAB  

SUBFRAME

CHASSIS

BODY

CHAMPION Hoist and Equipment

MP50074
- INDICATES GREASE FITTING LOCATIONS THAT MUST BE LUBRICATED DEPENDING ON USAGE, LOAD, ENVIRONMENT AND CLIMATE. LUBRICATE ALL PIVOT POINTS USING EP-2 CHASSIS GREASE OR EQUAL.

* Grease hoist and rear hinge assembly each time truck is serviced.
INSTRUCTIONS TO REVERSE C102 PUMP ROTATION

STEP #1 SECURELY MOUNT PUMP FLANGE IN VISE SHAFT DOWN!

STEP #2 REMOVE (4) HEX BOLTS, WASHERS.

STEP #3 LIFT OFF VALVE AND CENTER SECTION OF PUMP LEAVING FRONT COVER AND GEARs IN PLACE, AND ROTATE 180°.

STEP #4 LOWER CENTER SECTION AND VALVE ONTO FRONT COVER AND GEARS BEING CAREFUL NOT TO DISTURB POCKET SEALS IN TRUST PLATES. (IF NEEDED GLUE IN WITH CHASSIS GREASE).

STEP #5 REINSTALL BOLTS AND WASHERS AND EVENLY TORQUE ASSEMBLY BOLTS TO 200 FOOT LBS.
SP4 VALVE CONTROL HANDLE ASSEMBLY
REMOTE VALVE for DA APPLICATION

PORTS
A = BODY DOWN
B = BODY UP
INLET = DISCHARGE FROM PUMP
OUTLET = RETURN TO RESERVOIR

HYDRAULIC CONTROL CABLE FOR STANDARD CABS-R38LLR 8' LONG, STANDARD.
OTHER LENGTHS AVAILABLE
SAFETY PROP CUP INSTALLATION

LOCATE SAFETY PROP CUPS ON BODY MAIN RUNNER SO THAT THE SAFETY PROP IS ANGLED SLIGHTLY TO THE REAR. ALSO, BE SURE CUPS ARE SUPPORTED BY A BODY CROSS CHANNEL.
G102 PUMP

1-1/4" BARED ADAPTER

BODY UP

SUCTION FROM TANK

1-1/4" BARED ADAPTER

RETURN TO TANK

1-1/4" HOSE CLAMP

1-1/4" BARED ADAPTER

9 GALLON DIRECT MOUNTED RESERVOIR

CAUTION

THIS PORT IS NOT TO BE PLUGGED. IT IS TO BE ROUTED BACK TO THE RESERVOIR BOTTOM. ANY OTHER METHOD WILL CANCEL THE WARRANTY.

3/4" 90° STREET ELBOW

NOTE: RESERVOIR TANK HAS (2) 1-1/4" FLANGES ON THE BOTTOM. EITHER OF THE 2 COULD BE USED FOR SUCTION/RETURN TO TANK.

HYDRAULIC PLUMBING DIAGRAM

PD40029
NO. PART NUMBER QTY. DESCRIPTION
1 W15045 1 WELDMENT, 9 GAL. RESERVOIR
2 W15044 1 WELDMENT, RESV. ACCESS COVER
3 P10241 1 CAP
4 1G-3-41 4 3/8" HEX NUT
5 1G-4-41 4 3/8" LOCK WASHER
6 33-41 1 PLUG, RITE 1/2" (NOT SHOWN)
7 1G-5-41 4 1/2" HEX NUT
8 1G-6-41 4 1/2" LOCK WASHER
9 102-409 4 1/2" X 2" CAP SCREW

9 GALLON RESERVOIR

CHAMPION
A15061
NOTE: SIDE PORTS MAY BE USED IF REAR PORTS ARE OBSTRUCTED.

NOTE: RETURN TO TANK HAS (2) 1-1/4" FLANGES ON THE SIDES.
OTHER OF THE PORTS (ONE FOR SUCTION) DIRECTION TO TANK.

NOTE: WHEN OPERATING PUMP, BE SURE TO SET THE PRESSURE PUMP.
OPERATE THE PUMP AT 50 PSI MAXIMUM.

NOTE: WHEN OPERATING PUMP, BE SURE TO SET THE PRESSURE PUMP NO LOWER THAN 2 SECONDS. THIS WILL
RECORD THE MAIN PRESSURE SHADIN FOR PLUG. BE SURE IT RUNS NO LOWER THAN 3 SECONDS OR PERMANENT DAMAGE
to THE PUMP MAY OCCUR!
P21 PUMP

P22 PUMP

P23 PUMP
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<td>1</td>
<td>8.5 GALLON RESERVOIR WELDMENT</td>
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<td>P10241</td>
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CHAMPION HOIST MODEL: 5530DM

STANDARD SUBFRAME LENGTHS (FT):

12, 13, 14

DESIGNED FOR TRUCKS WITH 24,000 TO 33,000 GVW

CHAMPION Hoist and Equipment
Dunn, North Carolina, U.S.A.
910 - 897 - 4995
Fax 910 - 897 - 6822
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