## TWIN TELESCOPIC HOIST

### Table of Contents

<table>
<thead>
<tr>
<th>Page</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Service Information</td>
</tr>
<tr>
<td>5-6</td>
<td>Operations and Service Do’s &amp; Don’ts (SAFTY INFORMATION)</td>
</tr>
<tr>
<td>7</td>
<td>Hoist Operation Instructions</td>
</tr>
<tr>
<td>8-10</td>
<td>Champion Subframe Hoist Installation Procedures</td>
</tr>
<tr>
<td>11-12</td>
<td>Subframe Installation Details</td>
</tr>
<tr>
<td>13</td>
<td>Hydraulic Reservoir Tank Installation</td>
</tr>
<tr>
<td>14</td>
<td>Safety Prop Cup Installation</td>
</tr>
<tr>
<td>15</td>
<td>Upper Bunk Detail</td>
</tr>
<tr>
<td>16</td>
<td>Hinge Detail</td>
</tr>
<tr>
<td>17</td>
<td>Instructions to Reverse a C102 Pumps Rotation</td>
</tr>
<tr>
<td>18</td>
<td>Hinge Lube Points</td>
</tr>
<tr>
<td>19-20</td>
<td>Hydraulic Plumbing Diagram</td>
</tr>
<tr>
<td>21</td>
<td>Stop Cable Installation</td>
</tr>
</tbody>
</table>
CHAMPION
HOIST AND EQUIPMENT

200 CHAMPION DRIVE
DUNN, N.C. 28334

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

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

this information is provided as indicated
Operations and Service Manual

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.

DANGER

Do not go underneath a 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 each time truck is serviced.
* Add correct hydraulic oil to reservoir as needed.

PTO PUMP APPLICATIONS

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CAUTION

USE HYDRAULIC OIL ONLY!
TEXACO RANDO HD 32
EXXON NUTO HD 32
SHELL TELLUS HD 32
OR COMPARABLE

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* Grease hoist and rear hinge assembly each time truck is serviced.

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

Flatbed: model number  
serial number  
Serial Plate Location

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.
GODWIN MANUFACTURING
TWIN TELESCOPIC
INSTALLATION INSTRUCTIONS

STEP #1  LOCATE AND MARK CENTERLINE LOCATION OF REAR HINGE.
SEE MP50101. HINGE LOCATION SHOULD BE FROM THE BACK OF THE
CAB, BODY LENGTH MINUS OVERHANG PLUS BEHIND THE CAB
CLEARANCE.

STEP #2  AFTER MARKING CENTERLINE OF REAR HINGE, REMOVE EXCESS
CHASSIS PER MP50104.

STEP #3  AFTER REMOVING EXCESS CHASSIS, CUT A 2" DIA. HOLE IN CHASSIS
AND WELD REAR HINGE INNER BRACKET TO CHASSIS AS INDICATED
ON MP50104.

STEP #4  REFER TO MP50101 DETAIL "A", AND MOUNT LOWER BUNK ONTO
CHASSIS USING THE APPROPRIATE "G" DIMENSION PROVIDED IN THE
LOWER LEFT CORNER OF MP50101.

STEP #5  AFTER MOUNTING LOWER BUNK ON CHASSES, WELD LOWER BUNK
MOUNTING BRACKETS TO LOWER BUNK. SEE MP50101 DETAIL "B".

STEP #6  AFTER BRACKETS ARE SECURELY WELDED TO LOWER BUNK, DRILL  (4 )
1/2" DIA. HOLES THRU MOUNTING BRACKETS AND CHASSIS AS SHOWN
ON MP50101 DETAIL "B", AND INSTALL HARDWARE.

STEP #7  MOUNT UPPER BUNK TO HYDRAULIC CYLINDER SHAFT ENDS, AND
INSTALL PINS & COTTER PINS. SEE MP50102 ITEM 1 FOR PROPER
ORIENTATION OF UPPER BUNK.

STEP #8  INSTALL RESERVOIR TANK IN FRONT OF LOWER BUNK AS INDICATED
ON MP50102. CUSTOMER WILL NEED TO FABRICATE RESERVOIR
MOUNTING BRACKET THAT WILL BOLT SECURELY TO CHASSIS FOR
MODEL #'S 4250 & 4265. MODEL #'S 4398 & 5390, REQUIRE A
STANDARD 30 GA. RESERVOIR. LOCATION OF RESERVOIR WILL VARY
DEPENDING ON MAKE OF THE TRUCK. SEE MP50102 BEFORE
MOUNTING RESERVOIRS.

STEP #9  MOUNT HYDRAULIC PUMP TO PTO. BEFORE MOUNTING, CHECK
ROTATION OF PUMP. IF PUMP ROTATION HAS TO BE CHANGED,
SEE MP50078.

STEP #10  PLUMB HYDRAULICS PER CORRECT DIAGRAM:
4250 & 4265 SEE PD40032
4398 & 5390 SEE PD40033

STEP #11  AFTER HYDRAULIC CONNECTIONS ARE COMPLETED, INSTALL CABLE
ASSEMBLY IN CAB OF TRUCK. SEE PAGE 3 & MP50076 FOR MOUNTING
INSTRUCTIONS.
STEP #12   FILL RESERVOIR FULL OF HYDRAULIC OIL.

STEP #13   INSTALL SAFETY PROPS & PROP CUPS IN SUCH A MANNER THAT THE PROP IS ANGLED SLIGHTLY TO THE REAR.  SEE MP50054 DETAILS "A" & "B".

STEP #14   SET SPACER BLOCKS ON TOP OF CHASSIS IN SUCH A WAY THAT THEY WILL NOT INTERFERE WITH THE LOWER BUNK & RESERVOIR TANK. NOTE: THE SPACER BLOCKS WILL BE WELDED TO BODY MAIN RUNNERS. DO NOT WELD TO MAIN RUNNERS UNTIL UPPER BUNK IS COMPLETELY INSTALLED!! SEE MP50101 DETAIL "C" ITEM 6.

STEP #15   INSTALL REAR HINGE (FLIPPERS) ASSEMBLY.  SEE MP50105 FOR ISOMETRIC VIEW.

STEP #16   SUSPEND BODY OVER CHASSIS APPROX. 3" AWAY FROM CAB BEFORE LOWERING. YOU WILL NEED ASSISTANCE OF 2 OR MORE PEOPLE. FOLLOW THESE INSTALLATION STEPS.

1ST. ONE PERSON NEEDS TO BE UNDERNEATH CHASSIS BELOW TWIN CYLINDERS. HIS FUNCTION IS TO PUSH THE CYLINDERS TOWARDS THE CAB & CHASSIS TO INSURE PROPER GROUND CLEARANCE.

2ND. THE SECOND PERSON SHOULD BE TO THE SIDE DIRECTLY IN FRONT OF THE UPPER BUNK. HIS FUNCTION IS TO GIVE THE 3rd PERSON (WHO IS STEERING THE BODY) DIRECTIONS TO POSITION THE BODY SO THAT THE UPPER BUNK IS BETWEEN THE CROSS SILLS. SEE MP50106.

NOTE: THE BODY MAY BE SHIFTED FORWARD AND/OR BACKWARDS IN ORDER TO LINE-UP UPPER BUNK WHILE MAINTAINING A 2-1/2" MINIMUM GAP BETWEEN CAB AND BODY.

WHEN BUNK IS PROPERLY INSTALLED, THERE SHOULD BE APPROXIMATELY 1-1/2" BETWEEN TOP OF UPPER BUNK & FLOOR OF BODY. SEE MP50106 FOR DETAILED DIMENSIONS.

HOWEVER, IF THE DISTANCE BETWEEN CAB & BODY IS NOT APPEALING, REMOVING CROSS SILL MATERIAL WILL BE REQUIRED TO INSTALL UPPER BUNK.

STEP #17   NOW THAT BODY IS SET ON CHASSIS, CENTER UPPER BUNK EVENLY BETWEEN BODY MAIN RUNNERS.
CHAMPION
TWIN TELESCOPIC
INSTALLATION INSTRUCTIONS

STEP #18  NOW THAT THE BODY IS SET AND THE UPPER BUNK IS IN THE PROPER POSITION, INSTALL 3/8" x 3" x 6" LG. SUPPORT BRACKET (CUSTOMER SUPPLIED), AND WELD TO UPPER BUNK & BODY MAIN RUNNERS SECURELY. SEE MP50103, ITEM #4.

STEP #19  NOW INSTALL 3" x 3" x 12" LG. ANGLE SUPPLIED BY GODWIN MFG. IN SUCH A MANNER THAT THERE ARE 3 POINTS OF CONTACT. WELD SECURELY AS DETAILED ON MP50103, ITEM #2.

STEP #20  NOW THAT THE UPPER BUNK IS SECURELY ATTACHED TO THE BODY, WELD REAR HINGE FLIPPERS TO BODY MAIN RUNNERS AS INDICATED ON MP50101, ALSO SEE MP50105 FOR ISOMETRIC VIEW OF REAR HINGE ASSY.

STEP #21  AFTER COMPLETING STEP #20, WELD SPACER BLOCKS ON BODY MAIN RUNNERS.

STEP #22  AFTER COMPLETING STEP #21, RAISE BODY WITH HOIST POWER, MAKING SURE THAT THE RESERVOIR IS FULL OF OIL UNTIL THE CYLINDERS ARE FULLY EXTENDED & SAFETY PROPS ARE IN PLACE!! OPEN THE BLEEDER VALVE ON BOTH CYLINDERS AND PURGE AIR OUT OF CYLINDERS UNTIL A STEADY STREAM OF OIL EXPELS. REFILL WITH OIL AS NEEDED. CLOSE VALVES AND LOWER BODY BACK TO CHASSIS AND REPEAT SEVERAL TIMES.

NOTE: AFTER BLEEDER VALVES ARE OPENED, THE BODY WILL DROP SLOWLY UNTIL REACHING HYDRAULIC OIL.

NOTE: NEVER WORK ON A RAISED EMPTY BODY WITHOUT SAFETY PROPS IN PLACE!!

STEP #23  AFTER COMPLETING STEP #22, INSPECT ALL WELDS & CHECK ALL HARDWARE/PLUMBING CONNECTIONS FOR LOOSENESS &/OR LEAKS. REPAIR AS NECESSARY.

STEP #24  AFTER COMPLETING STEP #23, INSTALL BODY STOP CABLE, SEE MP50090. INSTALL CABLE ON PUMP USING A 1/8" CABLE CLAMP AND TIGHTEN SECURELY. FABRICATE STOP BLOCK MTG. PAD & WELD SECURELY TO THE LAST BODY CROSS SILL AS INDICATED ON MP50090. MOUNT & WELD STOP BLOCK TO PAD, AFTER COMPLETING, ELEVATE BODY TO THE DESIRED HEIGHT, AND PULL CABLE THRU STOP BLOCK, TIGHTEN SET SCREW. RAISE BODY & TEST STOP CABLE ASSY. TO ENSURE IT IS WORKING PROPERLY.

THE STOP CABLE IS A SAFETY DEVISE USED TO LIMIT BODY DUMP ANGLE AND TO PREVENT CYLINDERS FROM OVER EXTENDING.

STEP #25  GREASE ALL PIVOT POINTS AND GREASE FITTINGS.
NOTE: CYLINDERS NEED TO BE AS HIGH AS POSSIBLE. THIS REQUIRE AT LEAST 2 PEOPLE. PUSH CYLINDERS TOWARDS CAB & CHASSIS, WHEN UPPER BUNK IS PROPERLY IN PLACE AND LEVEL, IT SHOULD BE APPROX. 1-1/2" FROM THE BODY'S FLOOR.

BODY CAN BE MOVED FORWARD & OR BACKWARDS WITHIN 1" TO CENTER UPPER BUNK BETWEEN BODY CROSS SILLS WHILE MAINTAINING A MINIMUM OF 2-1/2" AWAY FROM CAB.
HYDRAULIC RESERVOIR MOUNTED IN FRONT OF LOWER BUNK

CUSTOMER TO FABRICATE EXTENSION BRACKET AND MOUNT TO UNDER SIDE OF TOP LIP OF CHASSIS NOT ON TOP OF CHASSIS!!!!

RESERVOIR 30 GAL. STD. FOR MODEL #S 4398 & 5390

RESERVOIR 8 GAL. FOR MODEL #S 4250 & 4265

TRUCK CAB

HYDRAULIC RESERVOIR INSTALLATION

13
**SAFETY PROP INSTALLATION**

**DETAIL ”A”**

BODY CROSS MEMBER

3/8” WELD AT ALL POINTS OF CONTACT

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.

**DETAIL ”B”**

WELD SAFETY PROP U-BRACKET TO MOUNTING ANGLE

SAFETY PROP MOUNTING ANGLE BOLTED TO CHASSIS (2) PLACES. DO NOT WELD TO CHASSIS!
TRIM BACK CORNER OF CHASSIS FOR CLEARANCE

1/2" WELD ON ALL FOUR SIDES

CUT 2" DIA. HOLE IN CHASSIS

REAR HINGE INNER BRACKET

2-1/2"

NOTE: WHEN CUTTING 1-3/4" DIA. HOLE IN CHASSIS, BE SURE TO PUT THE FRAME ATTACH BRACKET ON THE INSIDE OF THE CHASSIS TO MARK THE CENTER FOR THE HOLE TO BE CUT OUT. THE REASON BEING THE BRACKET MUST FIT FLUSH WITH CHASSIS RAIL, AND NOT ON RADIUS CORNERS OF CHASSIS.
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.
GODWIN REAR HINGE LUBRICATION POINTS

NOTE: USE GENERAL PURPOSE CHASSIS GREASE

* Grease hoist and rear hinge assembly each time truck is serviced.
NOTE: RESERVOIR TANK HAS (2) 1-1/4" FLANGES ON THE BOTTOM EITHER OF THE 2 COULD BE USED FOR SUCTION/RETURN TO TANK.
STOP CABLE INSTALLATION

BODY CROSS SILL

STOP BLOCK

STOP CABLE

1/8" CABLE CLAMP

G102 PUMP