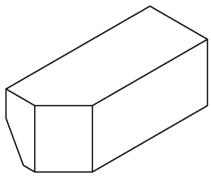
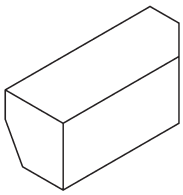
INSTRUCTIONS, TORSION SPRING ADJUSTMENT KIT

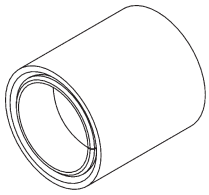
KIT P/N 287622-01 (GPTLR-25 & GPTLR-33 WITH ALUMINUM PLATFORM)



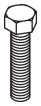
BLOCK (FOR RH SIDE)
P/N 281341-01
QTY. 1



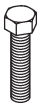
BLOCK (FOR LH SIDE)
P/N 281341-02
QTY. 1



PLATFORM SPRING BUSHING
P/N 285098-01
QTY. 2

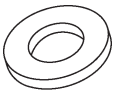


HEX CAP SCREW,
3/8”-16 X 3-1/2” LG. GR8
P/N 900014-13
QTY. 2

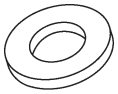


HEX CAP SCREW
3/8”-16 X 2-1/2” LG. GR8
P/N 900014-10
QTY. 2

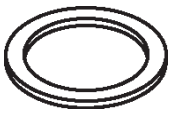
LOCK NUT 3/8”-16
P/N 901002
QTY. 4



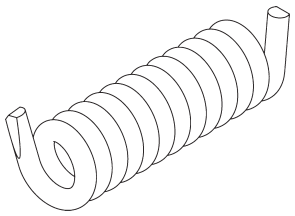
FLAT WASHER, 3/8” X 1.16” THK
P/N 903447-02
QTY. 12



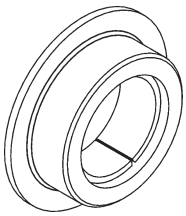
FLAT WASHER 3/8”
P/N 902000-10
QTY. 2



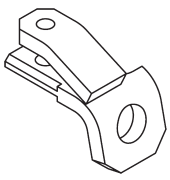
SHIM, 1-3/8” ID X 1-7/8” OD X 1/16”
P/N 903407-02
QTY. 2



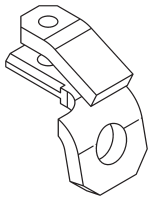
TORSION SPRING
P/N 281319-02
QTY. 1



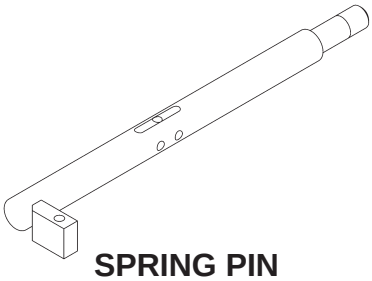
BUSHING
P/N 287618-01
QTY. 2



RH BRACKET
P/N 287767-01
QTY. 1

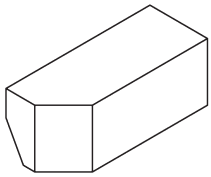


LH BRACKET
P/N 287767-02
QTY. 1

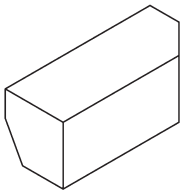


SPRING PIN
P/N 287680-01
QTY. 2

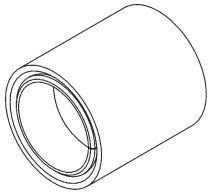
KIT P/N 287622-02 (GPTLR-44 & GPTLR-55 WITH ALUMINUM PLATFORM)



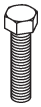
BLOCK (FOR RH SIDE)
P/N 281341-01
QTY. 1



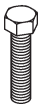
BLOCK (FOR LH SIDE)
P/N 281341-02
QTY. 1



PLATFORM SPRING BUSHING
P/N 285098-01
QTY. 2

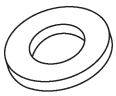


HEX CAP SCREW,
3/8”-16 X 3-1/2” LG. GR8
P/N 900014-13
QTY. 2

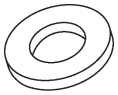


HEX CAP SCREW
3/8”-16 X 2-1/2” LG. GR8
P/N 900014-10
QTY. 2

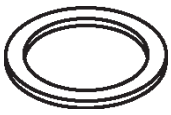
LOCK NUT 3/8”-16
P/N 901002
QTY. 4



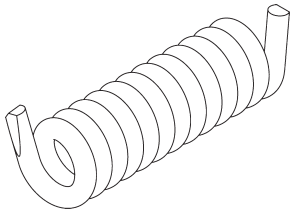
FLAT WASHER, 3/8” X 1.16” THK
P/N 903447-02
QTY. 12



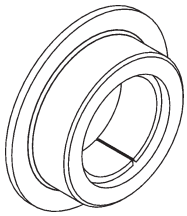
FLAT WASHER 3/8”
P/N 902000-10
QTY. 2



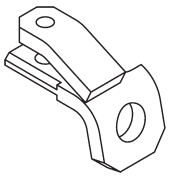
SHIM, 1-3/8” ID X 1-7/8” OD X 1/16”
P/N 903407-02
QTY. 2



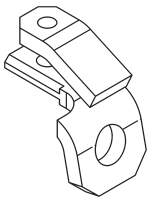
TORSION SPRING
P/N 281319-02
QTY. 1



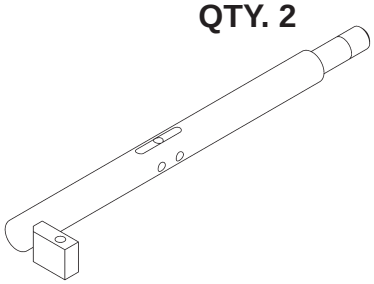
BUSHING
P/N 287618-01
QTY. 2



RH BRACKET
P/N 287767-01
QTY. 1

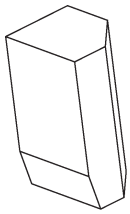


LH BRACKET
P/N 287767-02
QTY. 1

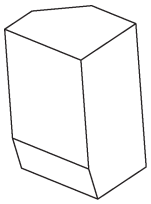


SPRING PIN
P/N 287772-01
QTY. 2

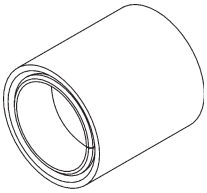
KIT P/N 287622-03 (GPTLR-25 & GPTLR-33 WITH STEEL PLATFORM)



BLOCK (FOR RH SIDE)
P/N 281769-01
QTY. 1

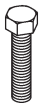


BLOCK (FOR LH SIDE)
281769-02
QTY. 1



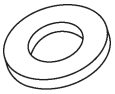
PLATFORM SPRING BUSHING
P/N 285098-01
QTY. 2

HEX CAP SCREW,
3/8”-16 X 3-1/2” LG. GR8
P/N 900014-13
QTY. 2

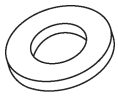


HEX CAP SCREW
3/8”-16 X 2-1/2” LG. GR8
P/N 900014-10
QTY. 2

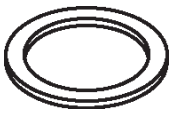
LOCK NUT 3/8”-16
P/N 901002
QTY. 4



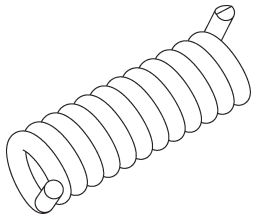
FLAT WASHER, 3/8” X 1.16” THK
P/N 903447-02
QTY. 12



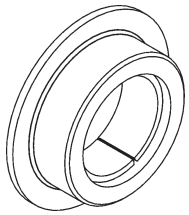
FLAT WASHER 3/8”
P/N 902000-10
QTY. 2



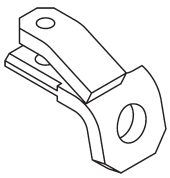
SHIM, 1-3/8” ID X 1-7/8” OD X 1/16”
P/N 903407-02
QTY. 2



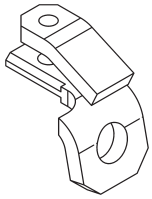
TORSION SPRING
P/N 280950-01
QTY. 1



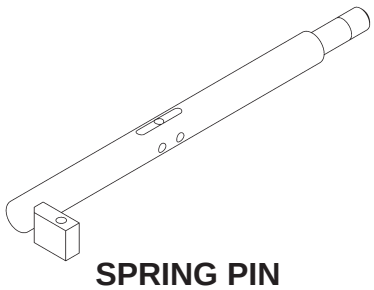
BUSHING
P/N 287618-01
QTY. 2



RH BRACKET
P/N 287767-01
QTY. 1

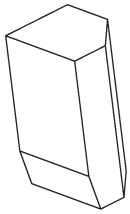


LH BRACKET
P/N 287767-02
QTY. 1

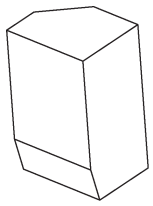


SPRING PIN
P/N 287680-01
QTY. 2

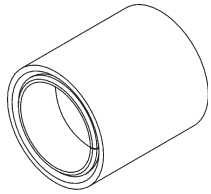
KIT P/N 287622-04 (GPTLR-44 & GPTLR-55 WITH STEEL PLATFORM)



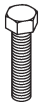
BLOCK (FOR RH SIDE)
P/N 281769-01
QTY. 1



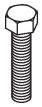
BLOCK (FOR LH SIDE)
281769-02
QTY. 1



PLATFORM SPRING BUSHING
P/N 285098-01
QTY. 2

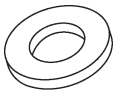


HEX CAP SCREW,
3/8”-16 X 3-1/2” LG. GR8
P/N 900014-13
QTY. 2

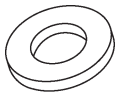


HEX CAP SCREW
3/8”-16 X 2-1/2” LG. GR8
P/N 900014-10
QTY. 2

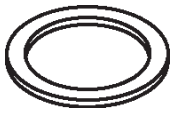
LOCK NUT 3/8”-16
P/N 901002
QTY. 4



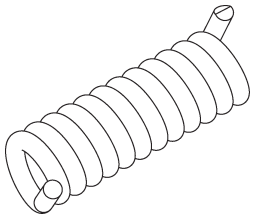
FLAT WASHER, 3/8” X 1.16” THK
P/N 903447-02
QTY. 12



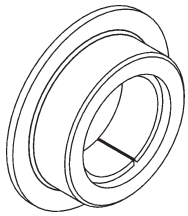
FLAT WASHER 3/8”
P/N 902000-10
QTY. 2



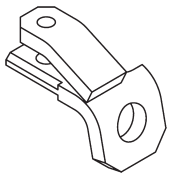
SHIM, 1-3/8” ID X 1-7/8” OD X 1/16”
P/N 903407-02
QTY. 2



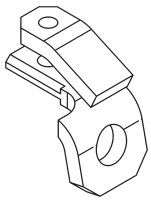
TORSION SPRING
P/N 280950-01
QTY. 1



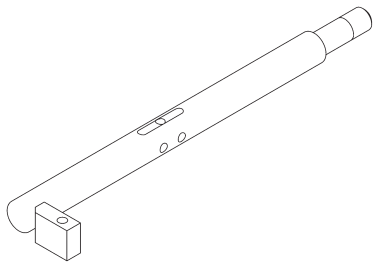
BUSHING
P/N 287618-01
QTY. 2



RH BRACKET
P/N 287767-01
QTY. 1



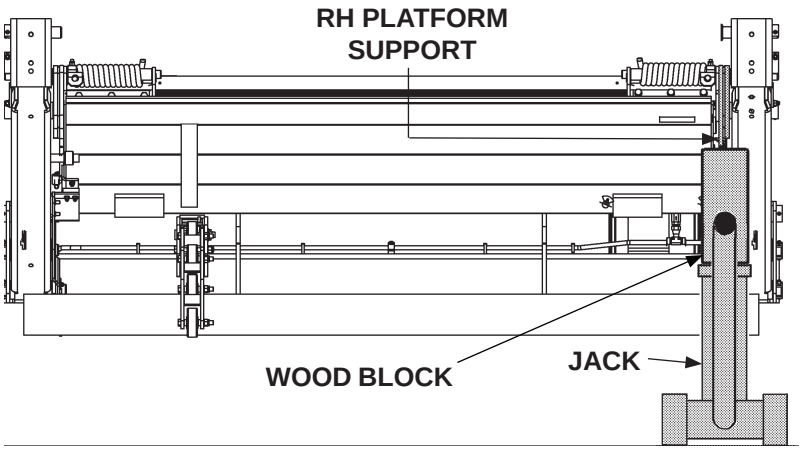
LH BRACKET
P/N 287767-02
QTY. 1



SPRING PIN
P/N 287772-01
QTY. 2

1. Park vehicle on level ground.

2. From stowed position, lower the platform slightly below the extension plate as shown in **FIG. 5-1**. Support the RH platform support with a jack and block of woo (**FIG. 5-1)**.

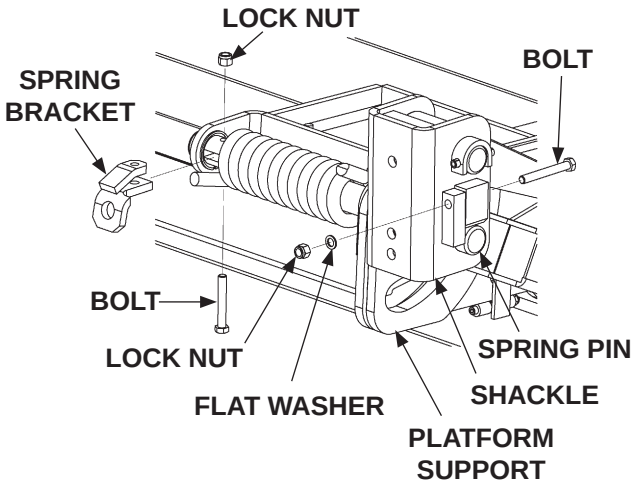


PLATFORM LOWERED & RH LIFT ARM SUPPORTED (ALUMINUM, PLATFORM SHOWN) FIG. 5-1

⚠ CAUTION

To prevent injury and equipment damage, make sure there is no tension on torsion spring before removing hinge pin.

3. Unbolt RH spring pin from shackle and unbolt spring bracket **(FIG. 5-2)**. Drive the spring pin outboard toward the shackle just enough to free the torsion spring as shown in **FIG. 5-3**.

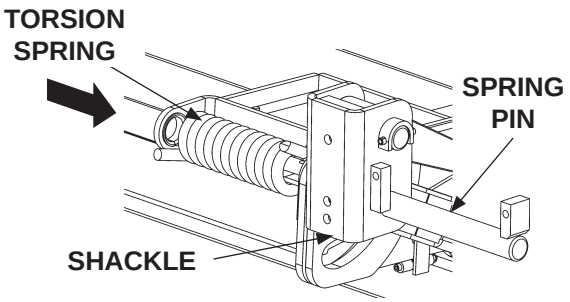


UNBOLTING RH SPRING BRACKET (ALUMINUM, PLATFORM SHOWN) FIG. 5-2

CAUTION

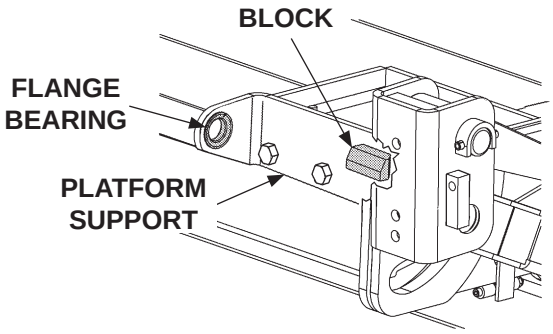
To prevent damage to lift arm bearings, grind off damaged surfaces on spring pin before removing the pin. Damaged areas should be ground lower than the contact surface of the pin. When grinding on the pin, prevent grinder from damaging torsion spring.

4. If necessary, grind off all damaged areas on the surface of the RH spring pin. Then, remove RH torsion spring **(FIG. 5-3)**. Save RH spring. Discard the spring pin, spring bracket, 2 bolts, 2 lock nuts and flat washer.



UNBOLTING RH SPRING PIN FROM SHACKLE (ALUMINUM, PLATFORM SHOWN) FIG. 5-3

5. Drive out flange bearing from platform support. Then, remove spring support block **(FIG. 6-1)**. Discard bearing and spring support block.



REMOVING BEARING & BLOCK (ALUMINUM, PLATFORM SHOWN) FIG. 6-1

⚠ WARNING

Welding on galvanized parts gives off especially hazardous fumes. Comply with WARNING decal on the galvanized part (FIG. 6-2). To minimize hazard remove galvanizing from weld area, provide adequate ventilation, and wear suitable respirator.

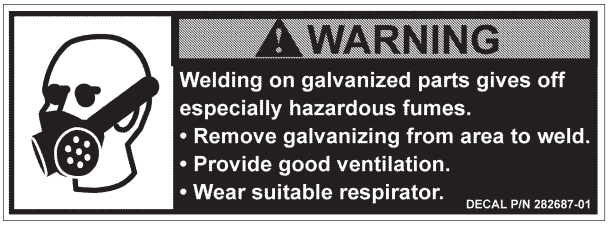
CAUTION

To protect the original paint system, a 3" wide area of paint must be removed from all sides of the weld area before welding.

CAUTION

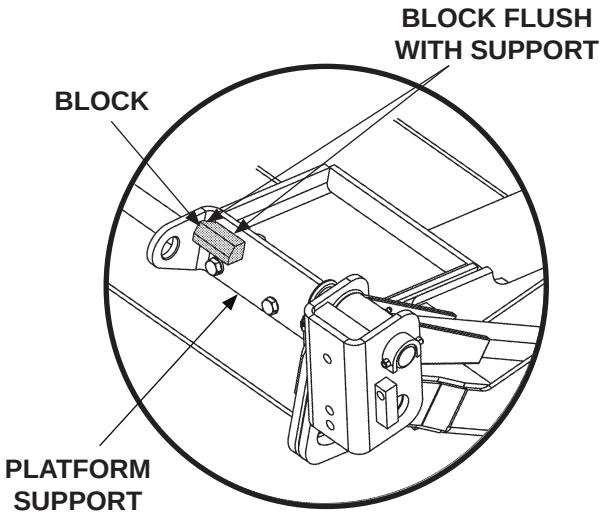
When using electrical welder, make sure the welder ground lead is connected directly to the platform support, as close as possible to the place being welded. Failure to comply can result in damaged cylinders and electrical parts.

6. Prepare painted or galvanized surface for welding.

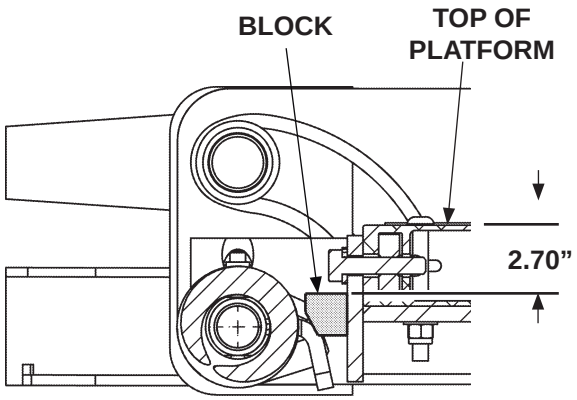


WARNING DECAL FOR GALVANIZED PARTS FIG. 6-2

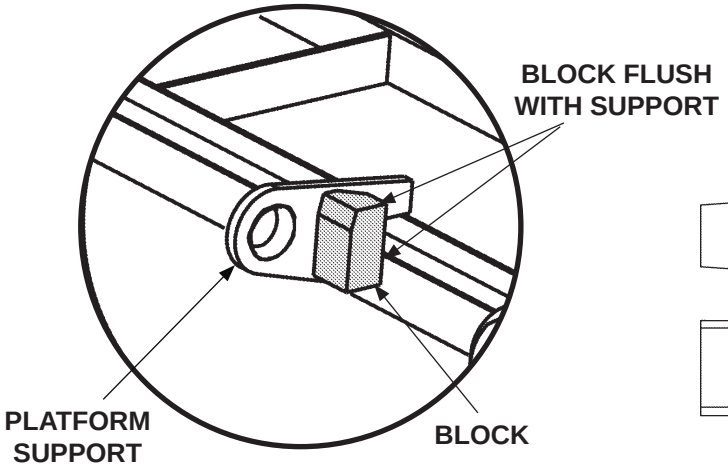
7. Position support block (Kit item) on RH platform support. Refer to **FIGS. 7-1 and 7-2** for aluminum platforms. For steel platforms, refer to **FIGS. 7-3 and 7-4**.



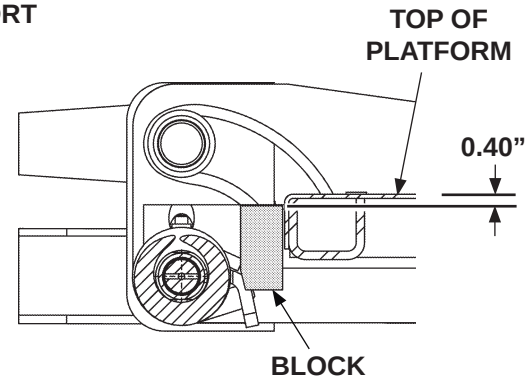
POSITIONING BLOCK ON RH PLATFORM SUPPORT (ALUMINUM PLATFORM SHOWN) FIG. 7-1



POSITIONING BLOCK ON RH PLATFORM SUPPORT (ALUMINUM PLATFORM SHOWN) FIG. 7-2



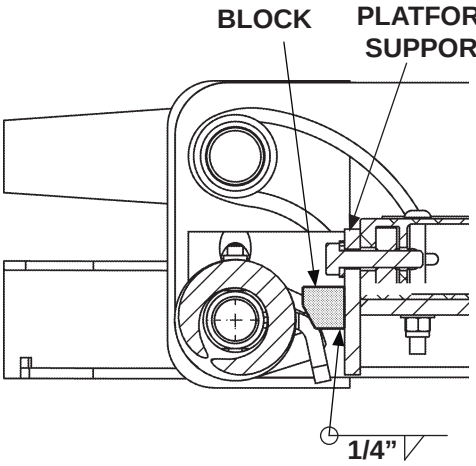
POSITIONING BLOCK ON RH PLATFORM SUPPORT (STEEL PLATFORM SHOWN) FIG. 7-3



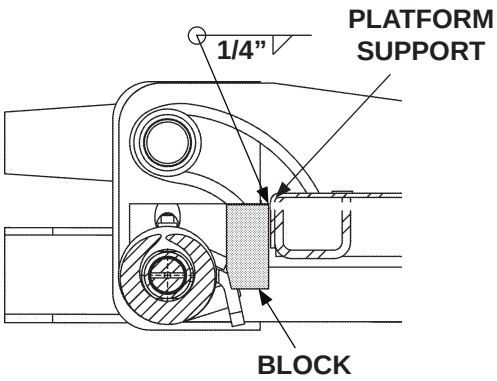
POSITIONING BLOCK ON RH PLATFORM SUPPORT (STEEL PLATFORM SHOWN) FIG. 7-4

NOTE: While welding block to platform support, make sure weld in the upper corner of the block does not interfere with contact surface for the leg of the torsion spring.

8. Weld block to RH platform support as shown in **FIGS. 8-1 and 8-2**.



WELDING BLOCK TO RH PLATFORM SUPPORT (ALUMINUM PLATFORM SHOWN) FIG. 8-1

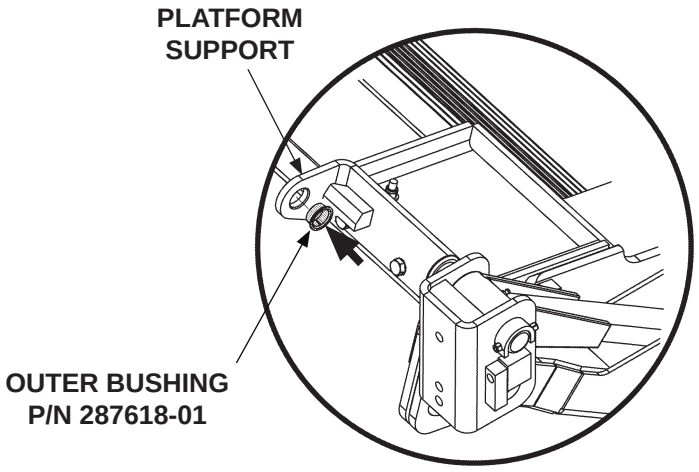


WELDING BLOCK TO RH PLATFORM SUPPORT (STEEL PLATFORM SHOWN) FIG. 8-2

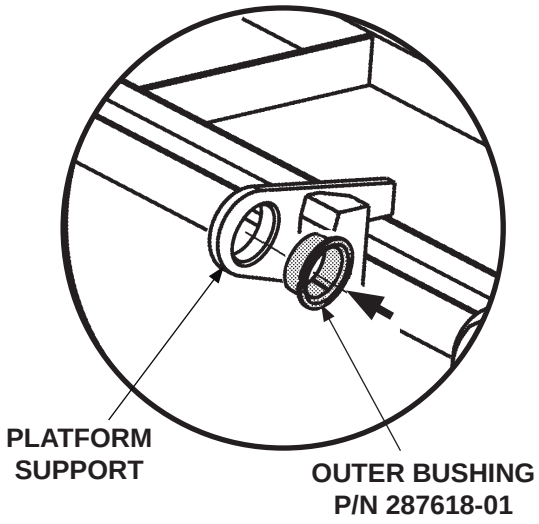
9. After welding support block, clean surfaces thoroughly where paint or galvanized finish was removed.

- If bare metal or primer is exposed on the painted portions of the Liftgate, touch up the paint. To maintain the protection provided by the original paint system, **MAXON** recommends aluminum primer touchup paint kit, **P/N 908134-01**.
- If bare metal is exposed on galvanized portions of the Liftgate, touch up the galvanized finish. To maintain the protection provided by the original galvanized finish, **MAXON** recommends cold galvanize spray, **P/N 908000-01**.

10. Press new outer bushing in platform support. Refer to **FIG. 9-1** for aluminum platforms. For steel platforms, refer to **FIG. 9-2**.

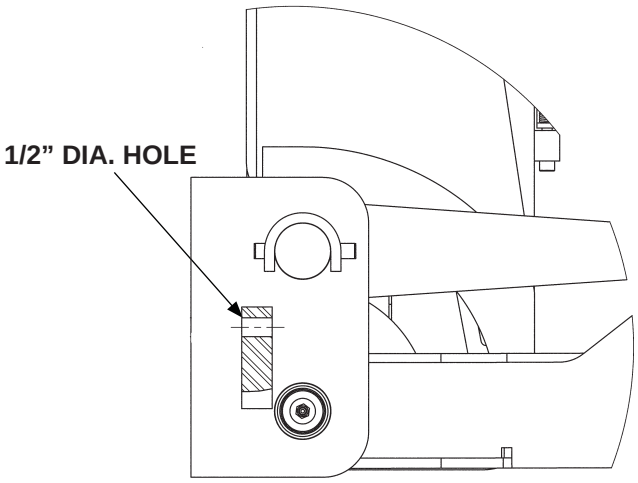


PRESSING OUTER BUSHING IN RH PLATFORM SUPPORT (ALUMINUM PLATFORM SHOWN) FIG. 9-1



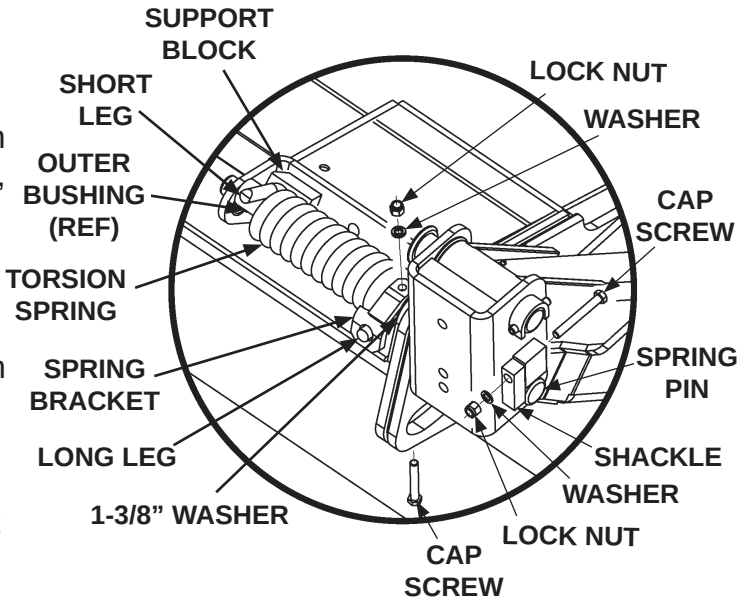
PRESSING OUTER BUSHING IN RH PLATFORM SUPPORT (STEEL PLATFORM SHOWN) FIG. 9-2

11. Use a 1/2” drill bit to enlarge the bolt hole in the spring bracket on the RH shackle **(FIG. 10-1)**.



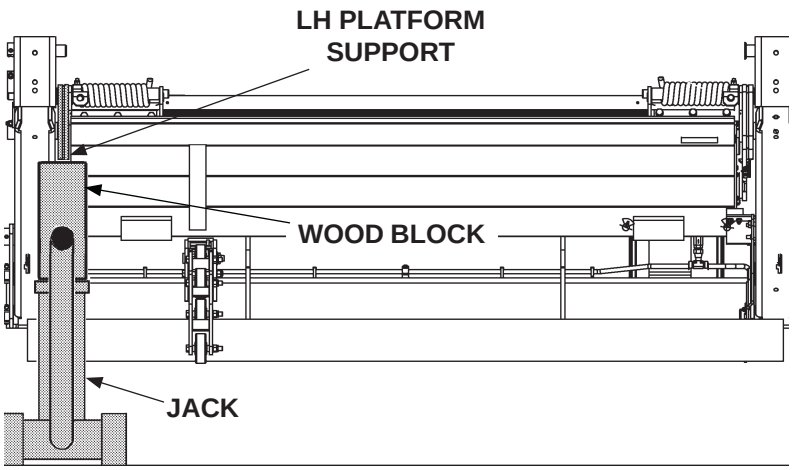
ENLARGING BOLT HOLE
FIG. 10-1

12. Install the RH torsion spring as shown in **FIG. 10-2**. Long leg of the spring should be visible, and free, by the support block **(FIG. 10-2)**. Install new spring pin (Kit item) on RH shackle with 1-3/8” shim-washer, new torsion spring, inner bushing, and new spring bracket (Kit items) as shown in **FIG. 10-2**. Place the springbracket on the short leg of the torsion spring, and through the slot in the spring pin. Bolt spring pin to shackle using cap screw, lock nut and flat washer (Kit items). Then, bolt spring bracket through spring pin with cap screw, flat washer and lock nut (Kit items).



INSTALLING RH TORSION SPRING
FIG. 10-2

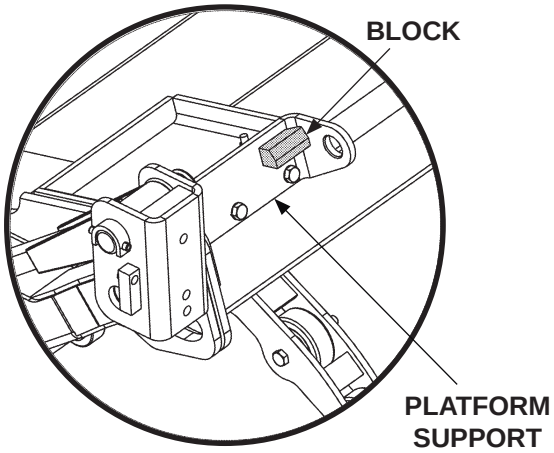
13. Raise platform enough to move jack and wood block under LH platform support **(FIG. 11-1)**.



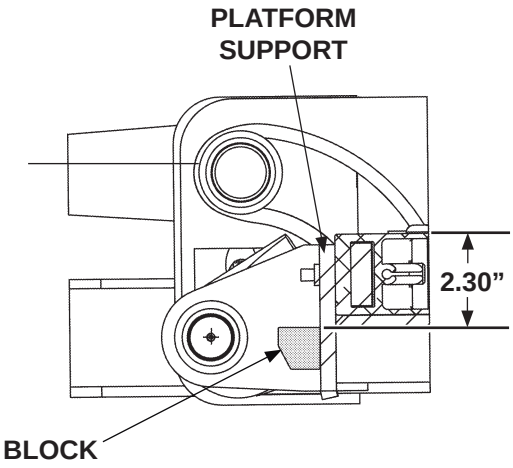
PLATFORM LOWERED & LH LIFT ARM SUPPORTED (ALUMINUM, PLATFORM SHOWN) FIG. 11-1

14. Refer to **steps 3 - 5** to remove the LH torsion spring. Discard the LH torsion spring, spring pin, spring bracket, 2 bolts, 2 lock nuts, flat washer, bearing and spring support block.

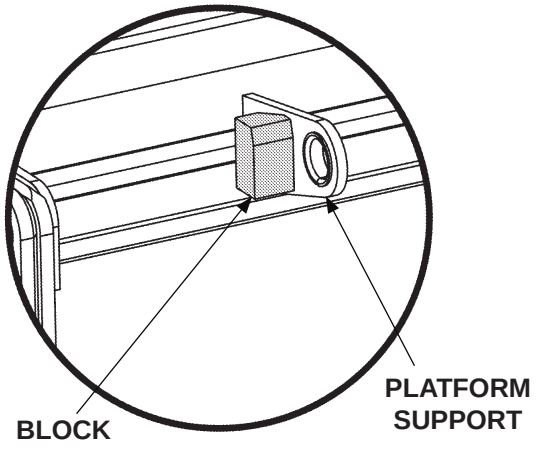
15. Position support block (Kit item) on LH platform support. Refer to **FIGS. 12-1 and 12-2** for aluminum platform. For steel platforms, refer to **FIGS. 12-3 and 12-3**



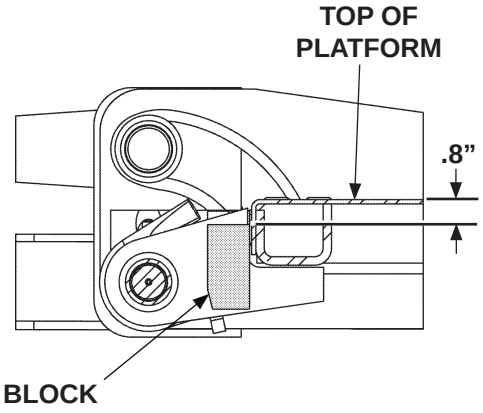
POSITIONING BLOCK ON LH PLATFORM SUPPORT (ALUMINUM PLATFORM SHOWN) FIG. 12-1



POSITIONING BLOCK ON LH PLATFORM SUPPORT (ALUMINUM PLATFORM SHOWN) FIG. 12-2



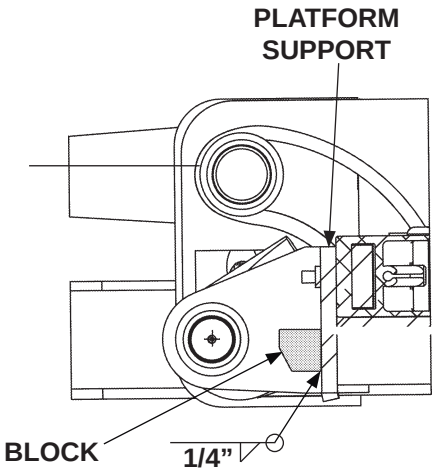
POSITIONING BLOCK ON LH PLATFORM SUPPORT (STEEL PLATFORM SHOWN) FIG. 12-3



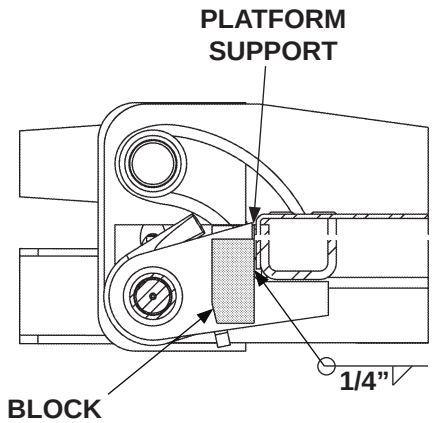
WELDING BLOCK TO LH PLATFORM SUPPORT (STEEL PLATFORM SHOWN) FIG. 12-4

NOTE: While welding block to platform support, make sure weld in the upper corner of the block does not interfere with contact surface for the leg of the torsion spring.

16. Weld block to LH platform support as shown in **FIGS. 13-1 and 13-2**.



WELDING BLOCK TO LH PLATFORM SUPPORT (ALUMINUM PLATFORM SHOWN) FIG. 13-1

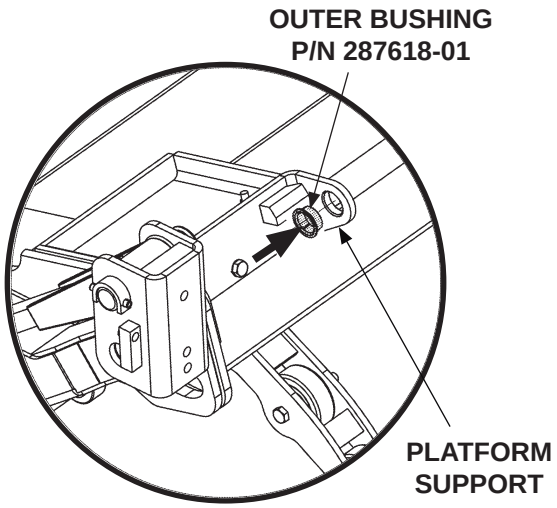


WELDING BLOCK TO LH PLATFORM SUPPORT (STEEL PLATFORM SHOWN) FIG. 13-2

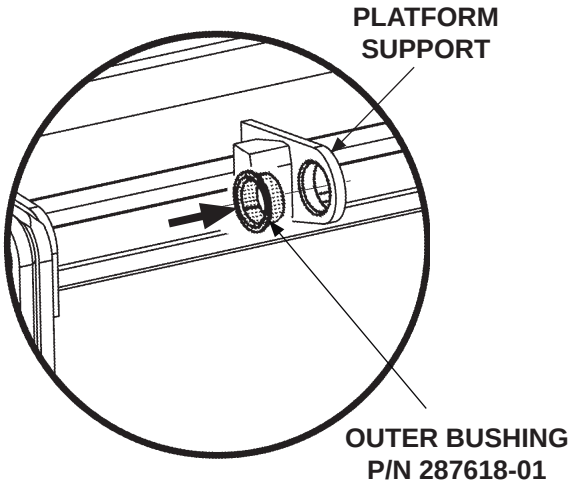
17. After welding, clean surfaces thoroughly where paint or galvanized finish was removed.

- If bare metal or primer is exposed on the painted portions of the Liftgate, touch up the paint. To maintain the protection provided by the original paint system, **MAXON** recommends aluminum primer touchup paint kit, **P/N 908134-01**.
- If bare metal is exposed on galvanized portions of the Liftgate, touch up the galvanized finish. To maintain the protection provided by the original galvanized finish, **MAXON** recommends cold galvanize spray, **P/N 908000-01**.

18. Press new outer bushing in LH platform support. Refer to **FIG. 14-1** for aluminum platforms. For steel platforms, refer to **FIG. 14-2**.

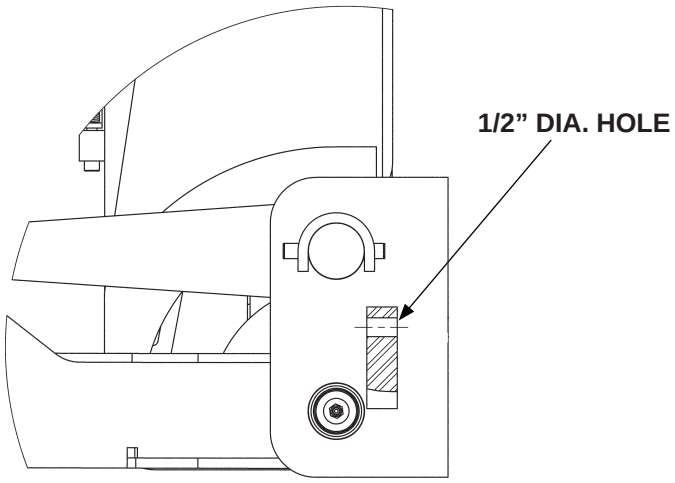


PRESSING OUTER BUSHING IN LH PLATFORM SUPPORT (ALUMINUM PLATFORM SHOWN) FIG. 14-1



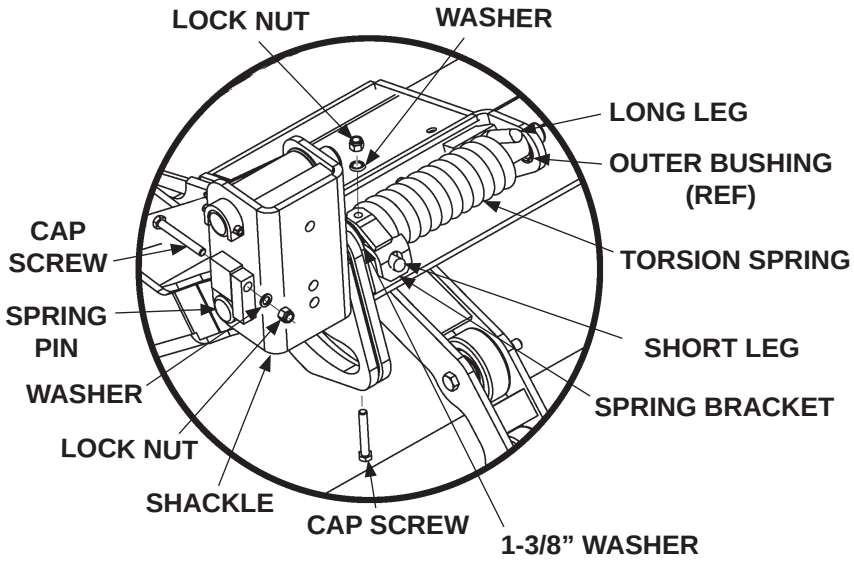
PRESSING OUTER BUSHING IN LH PLATFORM SUPPORT (STEEL PLATFORM SHOWN) FIG. 14-2

19. Use a 1/2” drill bit to enlarge the bolt hole in the spring bracket on the LH shackle **(FIG. 15-1)**.



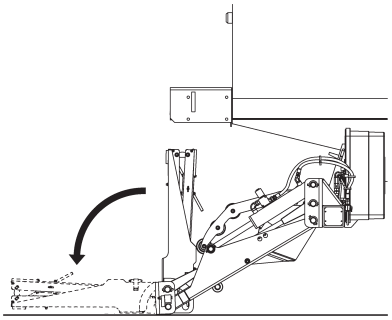
ENLARGING BOLT HOLE
FIG. 15-1

20. Install the LH torsion spring as shown in **FIG. 15-2**. Long leg of the spring should be visible, and free, by the support block **(FIG. 15-2)**. Install new spring pin (Kit item) on LH shackle with 1-3/8” shim-washer, new torsion spring, inner bushing, and new spring bracket (Kit items) as shown in **FIG. 15-2**. Place the spring bracket on the short leg of the torsion spring, and through the slot in the spring pin. Bolt spring pin to shackle using cap screw, lock nut and flat washer (Kit items). Then, bolt spring bracket through spring pin with cap screw, flat washer and lock nut (Kit items) **(FIG. 15-2)**.



INSTALLING LH TORSION SPRING
FIG. 15-2

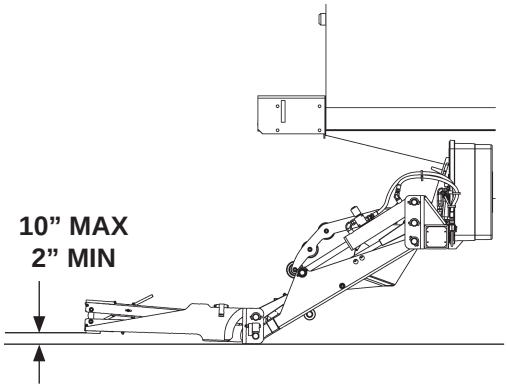
21. Remove jack and wood block so platform can be lowered. **LOWER** platform until shackles touch the ground. Then, unfold platform only **(FIG. 16-1)**. The maximum force to start unfolding platform is **30 lb**.



UNFOLDING PLATFORM
FIG. 16-1

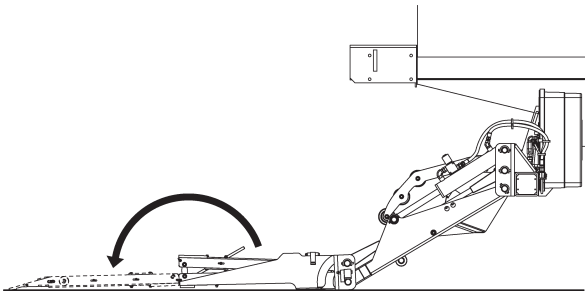
NOTE: Bottom of unfolded platform should be 2" to 10" above the ground. If distance is a little more than 10", and platform can be folded and unfolded with ease, the greater distance is allowed and no adjustment is necessary.

22. Measure the distance between the bottom block of the platform and the ground **(FIG. 16-2)**. Recommended range is shown in **FIG. 16-2**. If required, make the ground clearance distance smaller by grinding a little material off the RH and LH spring support blocks.

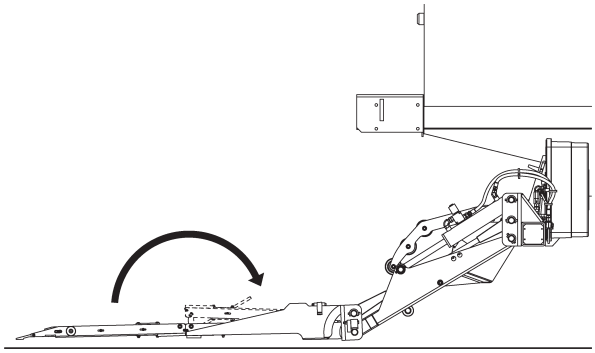


MEASURING DISTANCE OF PLATFORM FROM THE GROUND
FIG. 16-2

23. Unfold flipover **(FIG. 17-1)**. Then, fold flipover **(FIG. 17-2)**. Platform section should not rotate up as the flipover is being folded

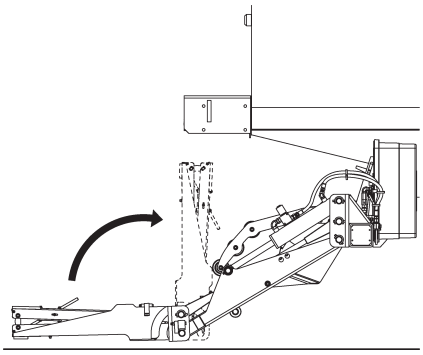


UNFOLDING FLIPOVER
FIG. 17-1



FOLDING FLIPOVER
FIG. 17-2

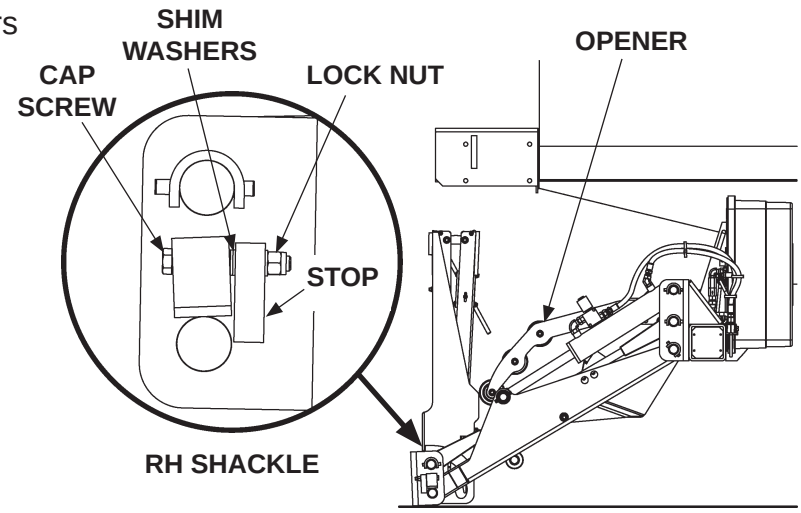
24. Fold platform against opener **(FIG. 17-3)**. The maximum force to start folding platform is **40 lb**.



FOLDING PLATFORM
FIG. 17-3

NOTE: Each shim washer, inserted between torsion spring pin and stop, should make it easier to start unfolding and folding platform. Wait until adjustments are done before reinstalling lock nut on RH and LH shackles.

25. If necessary, insert shim washers (Kit items) between the torsion spring pin and stop bracket on the RH shackle **(FIG. 18-1)**. Keep platform folded against platform opener to remove tension from the torsion springs **(FIG. 18-1)**. Next, remove locknut and bolt enough to insert washers **(FIG. 18-1)**. Then, reinstall bolt and lock nut. Repeat this step for LH torsion spring.



SHIMMING TORSION SPRING TO REDUCE FORCE NEEDED TO UNFOLD OR FOLD PLATFORM (RH SHACKLE SHOWN)
FIG. 18-1