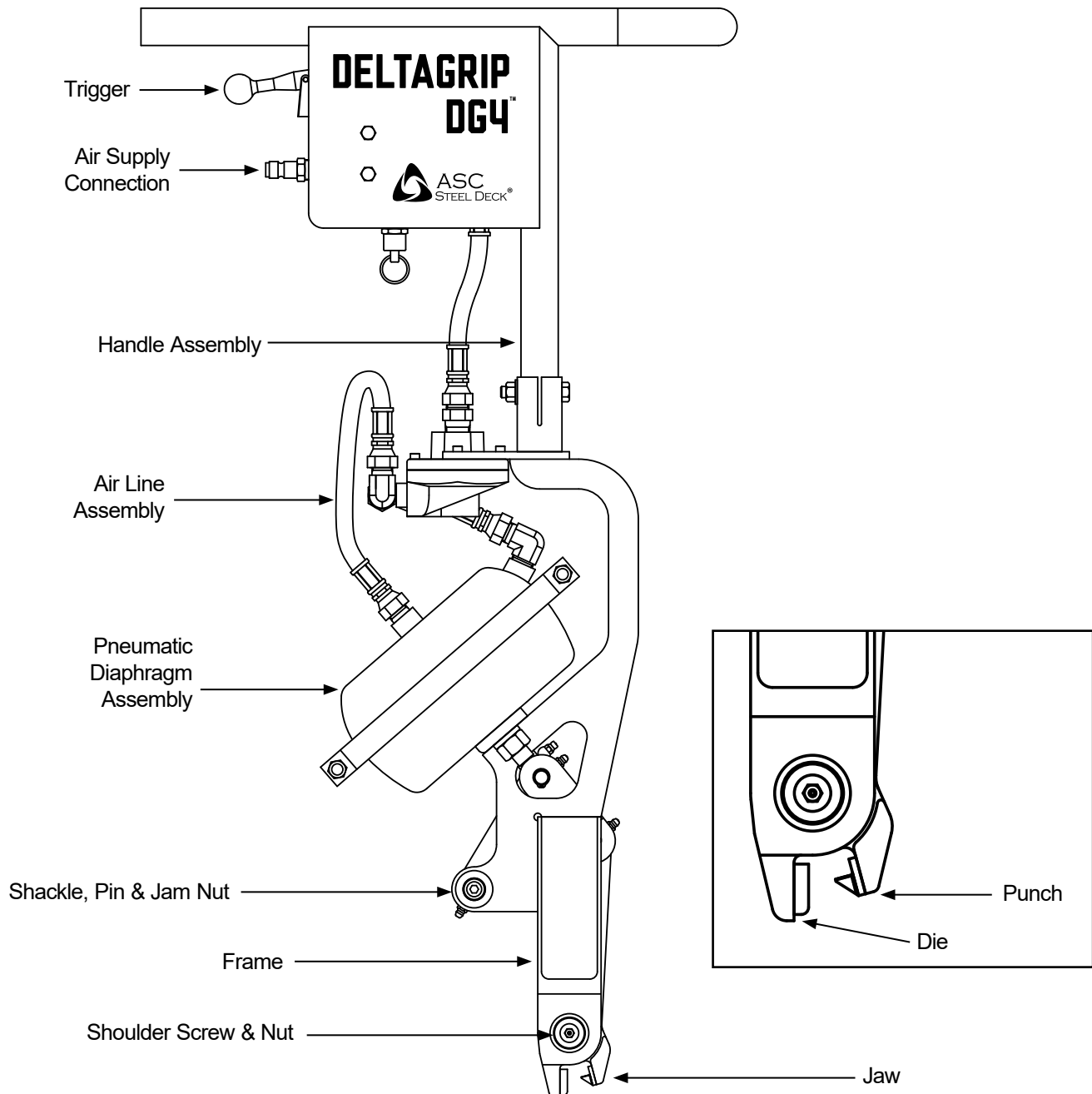


DELTA GRIP DG4™

Safety and Operating Instructions





The ASC DeltaGrip® DG4™ Tool

General Safety Precautions

1. Read and understand instruction manual before operating the tool.
2. Keep work area clean and uncluttered.
3. Keep visitors away from the work area.
4. Store idle tools. When not in use, tools should be stored in a dry, secure location.
5. Use tool for its intended purpose only. For use in ASC Steel Deck products only that are designed for the DG4 attachment.
6. Wear safety glasses.
7. Do not wear loose clothing or jewelry when operating the tool. Wear protective hair covering to contain long hair. Rubberized gloves and non-skid footwear are recommended.
8. Do not overreach. Use proper stance, and keep proper footing and balance at all times.
9. Maintain tools with care. Keep tools clean and lubricated for better and safer performance.
10. Check for damaged parts. Damaged parts should be properly repaired or replaced by ASC Steel Deck only.
11. Use only recommended air hose attachments.
12. Stay alert when operating tool.
13. Stop operating tool if something appears to be wrong.
14. Keep finger off trigger until a DeltaGrip® DG4™ attachment is to be made.
15. Do not connect/disconnect hose when finger is on the trigger.
16. Allow only authorized & trained people to use the pneumatic tools.
17. Pay attention to those around you – never permit horseplay around or with the tool.
18. Maintain proper tool assembly – do not make any modifications.
19. Follow correct maintenance and lubrication procedures (see pg 5).
20. Check tool before each use by inspecting air hose connections for leaks and that proper lubrication has been completed.
21. Keep tool out of reach of children.
22. Never exceed maximum air pressure (see pg 3).
23. Make sure hose is securely fastened into the coupler and that the air fitting is securely seated in the tool.
24. Use only compressed air – using any other kind of gas mixture is dangerous.
25. In elevated locations on structures, secure air hose to a point near the location where you are working to avoid tool pulling operator off structure.
26. Do not walk backwards while using the tool.
27. Do not use tool while under the influence of drugs, alcohol, medication or while impaired.
28. Disconnect air supply from tool before replacing the punch or die.
29. Keep hands and feet away from moving parts.
30. Disconnect air supply hose when tool is unattended.

Operating Instructions

- 1. Ensure that the tool is complete and in working order with all parts secure.
- 2. Set air pressure regulator on your compressor to the recommended pressure for the gauge of metal deck you are punching, prior to connecting to DeltaGrip® DG4™ tool.

Deck Gauge	Recommended Air Pressure
20, 21, 22	90 psi
16, 18, 19	135 psi

Note: 145 psi maximum pressure

- 3. Make sure hands and feet are clear of the jaw before attaching air supply hose to the DeltaGrip® DG4™ tool.
- 4. Attach air supply hose to tool. Maximum hose length without reserve tank is 100'-0".
- 5. Actuate tool once, without punching deck, to verify that the jaw closes fully.

- 6. Place jaw over deck standing seam side lap. Be sure the tool is perpendicular to the metal deck and the tool is in contact with the deck bottom flange and oriented with the handle and teeth on the same side as the downward return leg. (see Figure 1)

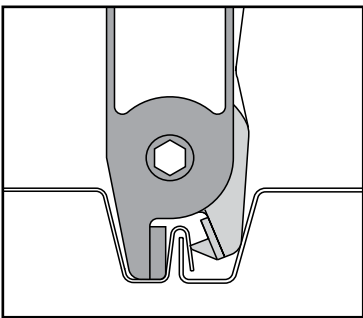


Figure 1

- 7. Actuate tool by pulling trigger. Depress trigger until the jaw fully closes to ensure a full punch. (see Figure 2)
- 8. Inspect completed punch for correct offset of the DeltaGrip® DG4™ interlock. If the offset is not sufficient increase the air pressure

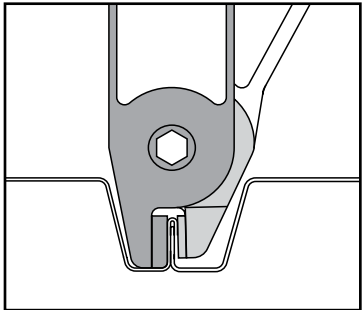


Figure 2

Deck Gauge	Minimum Offset
20, 21, 22	0.19 inches
16, 18, 19	0.16 inches

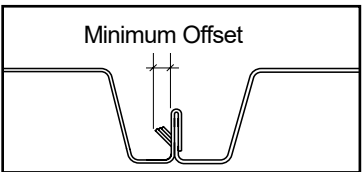
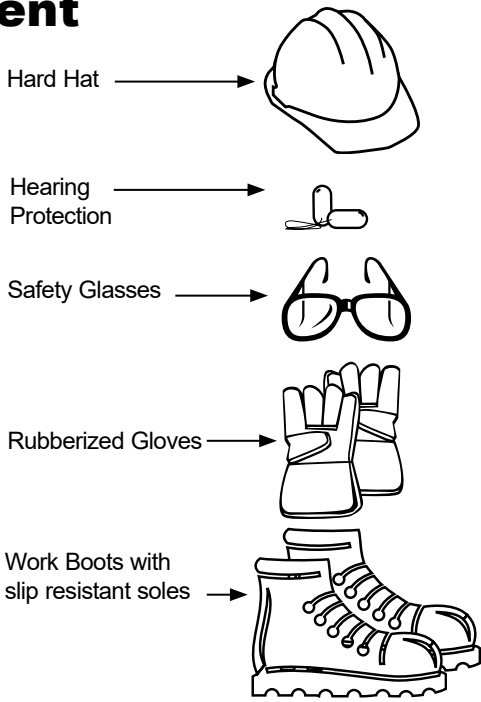
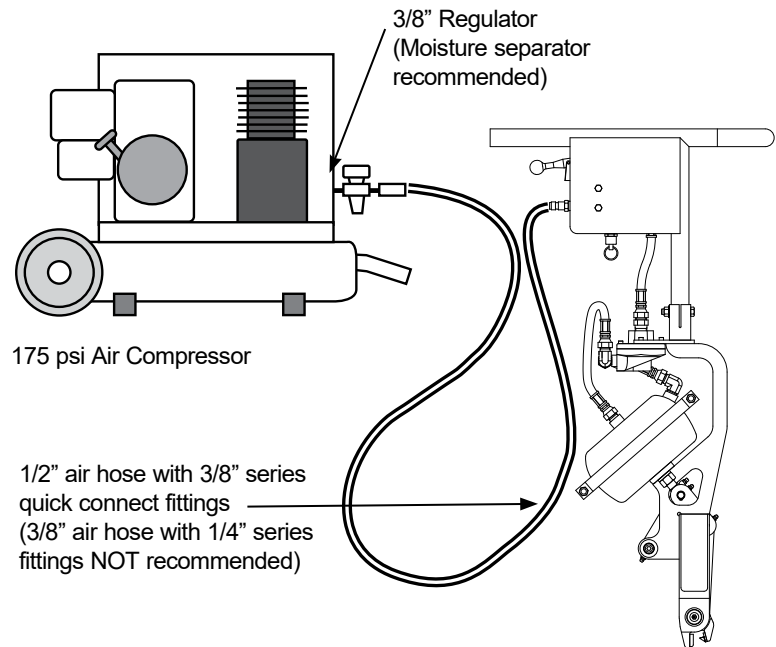


Figure 3

to achieve a full punch. Do not exceed 145 psi. (see Figure 3)

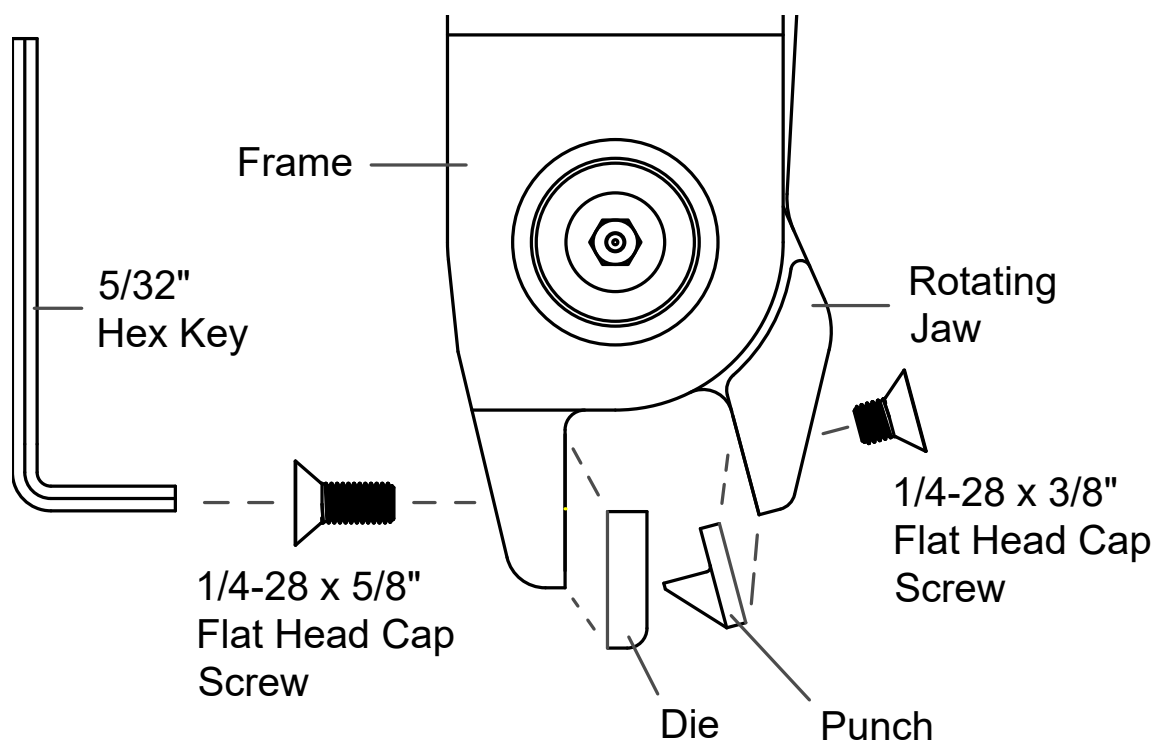
- 9. For technical assistance, contact ASC Steel Deck at 800-726-2727.

Minimum Recommended Equipment



Change Punch & Die Inserts

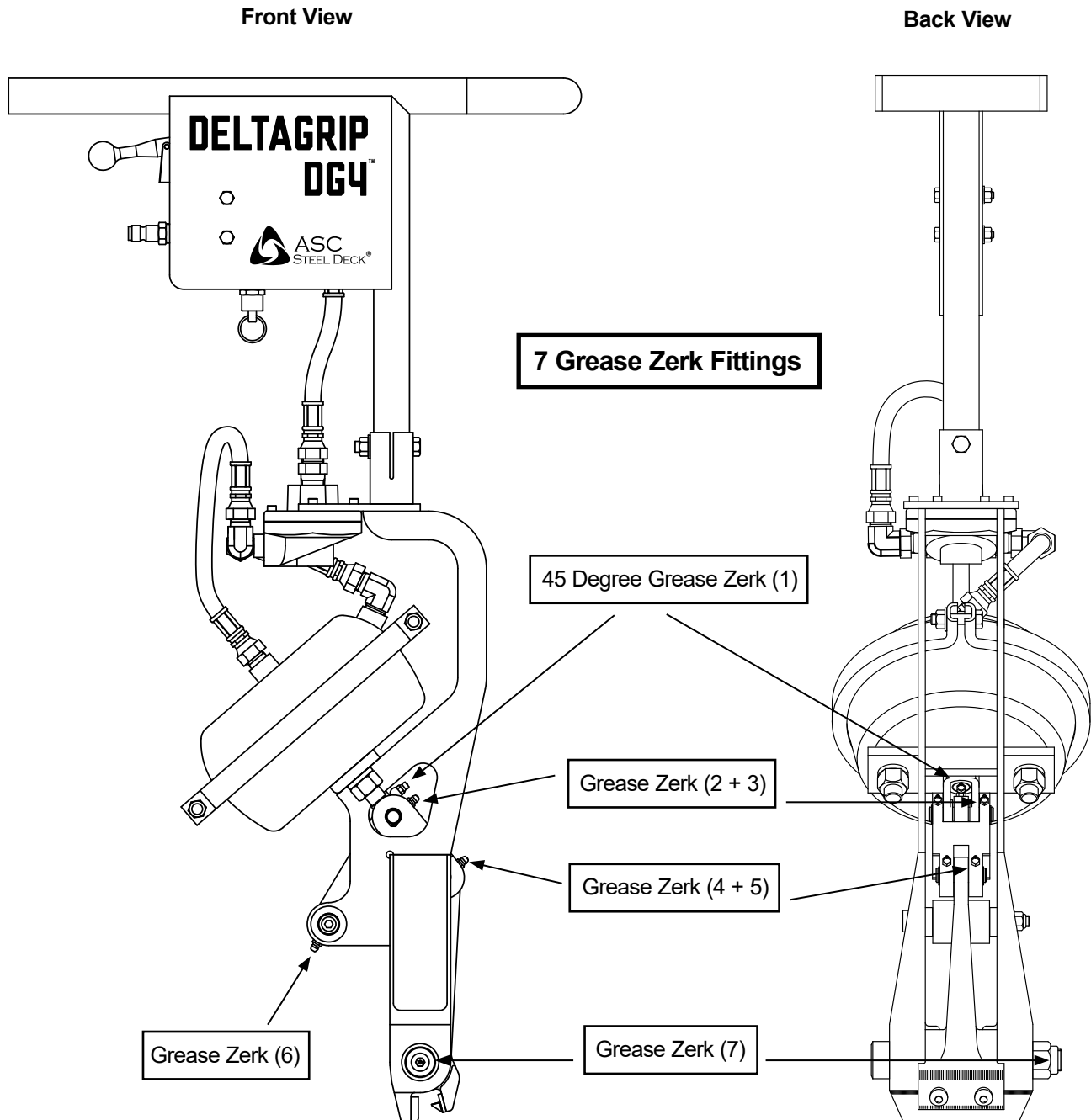
1. Disconnect the air supply hose from DeltaGrip® DG4™ tool.
2. Use hex key to remove flat head cap screws holding die or punch to tool jaw or frame.
3. Install new die or punch using new screws provided.
4. Make sure die is securely installed on the frame and the punch is installed on the rotating jaw. Ensure punch and die are installed in the correct orientation as depicted below.
5. Connect air supply hose. Set air compressor to 10-15 psi. Actuate tool to ensure punch and die clears.
6. Return to air recommended operating pressure setting and follow operating instructions for usage of the tool.



Daily Maintenance & Lubrication Instructions

Punch and Die

1. Scrape off build-up of zinc from galvanizing or other foreign material as required to maintain a good quality punch.
2. Replace punch when edges are worn or fractured to a point where a good quality punch in the seam cannot be achieved.
3. Replace die when edges are worn to a point where a good quality punch in the seam cannot be achieved.
4. Please note that daily maintenance of this tool (i.e., lubrication at the 7 Zerk grease fittings) is required and is the responsibility of the end user. ASC Steel Deck recommends synthetic or lithium grease for daily maintenance. See Diagram below for the 7 Zerk grease fitting locations. Failure to do so will likely result in damage to the DeltaGrip® DG4™ Tool. The ASC Steel Deck customer who has requested this tool for use, will be responsible for any and all costs associated with repair and replacement of damaged parts up to the cost of a complete tool replacement.



Daily Maintenance & Lubrication Instructions Cont.

Jaw

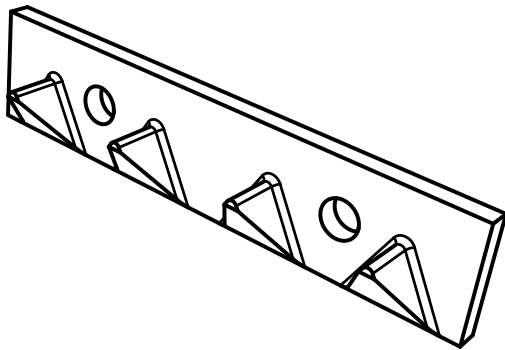
Clean and lubricate the jaw frame, link, lever and clevis when foreign material builds up, or when grease has worn away due to normal usage. Lubricate pivot points with heavy service grease using the 7 Zerk grease fittings in pivot shoulder screw and clevis shoulder screw. Wipe off excess grease.

Control Valve

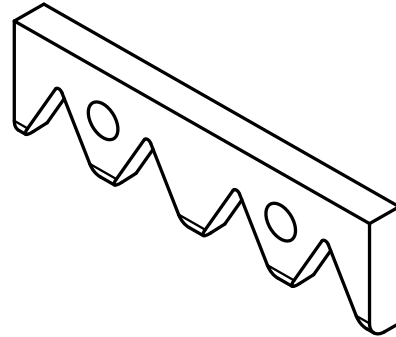
Lubricate control valve with a drop of air tool oil in air fitting as required to maintain friction free motion of trigger. Excessive lubrication is not recommended.

Punch/Die Kit

All accessories are individually packaged with mounting screws and hex key.



DeltaGrip DG4™
Punch



DeltaGrip DG4™
Tool Die

Tool Return

Please ensure the Delta Grip tool is returned to ASC Steel Deck in its original packaging. Please ship the Delta Grip tool in the original box with the Styrofoam protective inserts to ASC Steel Deck, 220 W. Kalama River Rd, Kalama, WA 98625.



220 West Kalama River Rd, Kalama, WA 98625
Toll: 800-726-2727 • Tel: 916-372-2851

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US Patent No.'s: 7,021,108; 6,990,781