

ENGINEERING BULLETIN

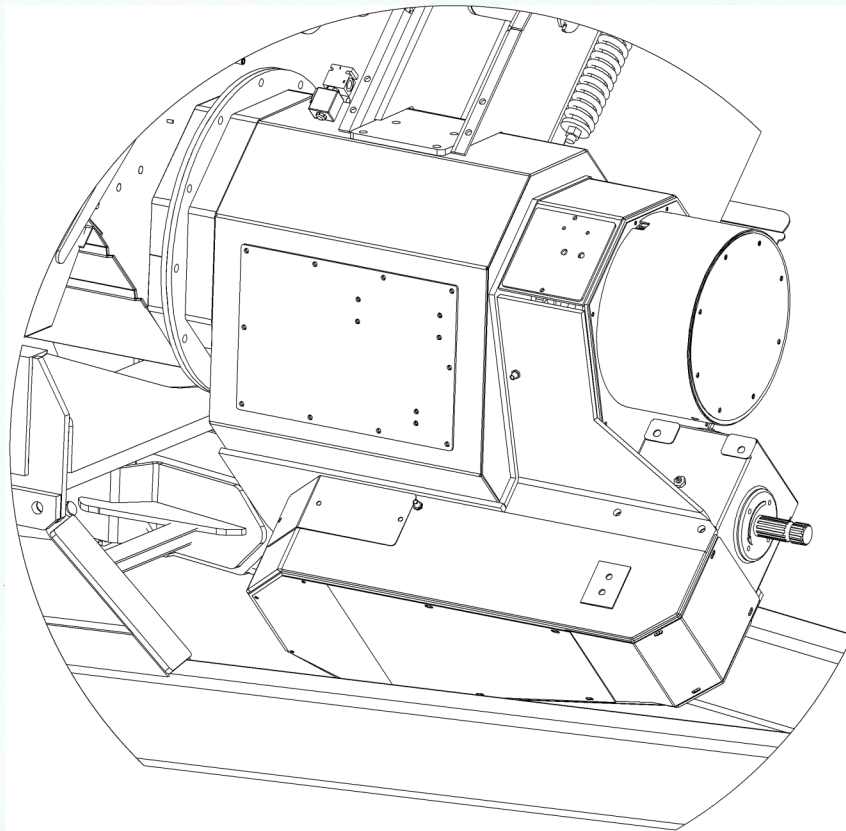
Grain Cart Clutch Caliper Replacement

Supplies needed:

- 1- 9/16" JIC tee fitting 1 female 2 male ports. (Balzer P# 72152)
- 1- 9/16" JIC female to 1/4" female adapter (Balzer P# 72153)
- 1- 3000 psi gauge (Balzer P# 8638)
- 1- 81025 Pressure reducing valve
- 1- 84459 Dual Piston Brake Caliper
- 1- 84477 Dual Brake Pads

Tools needed:

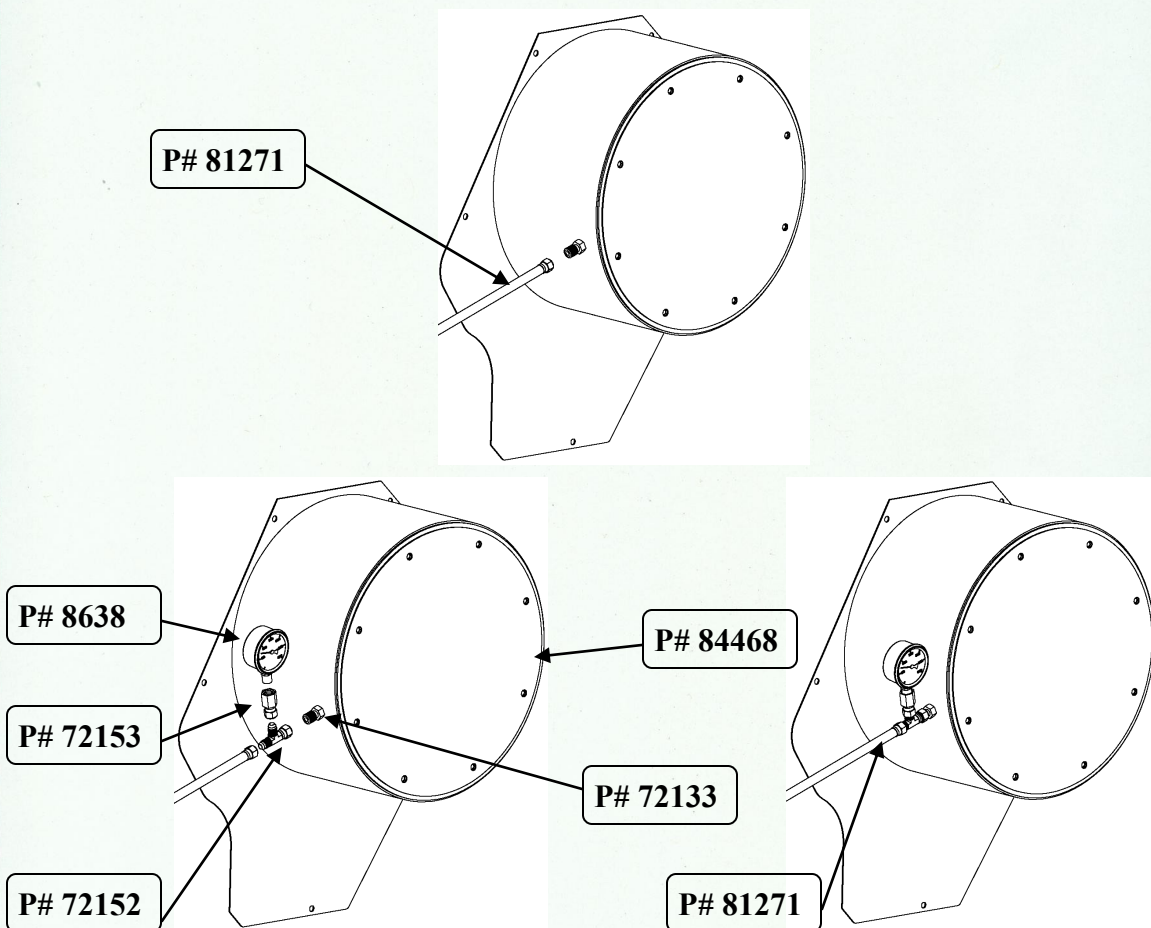
- SAE wrench set
- SAE allen wrench set



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If there is no pressure gauge installed, you must put one in-line with hydraulic hose **P# 81271**. The following procedure can be used to accomplish this:

Loosen hydraulic hose **P# 81271**



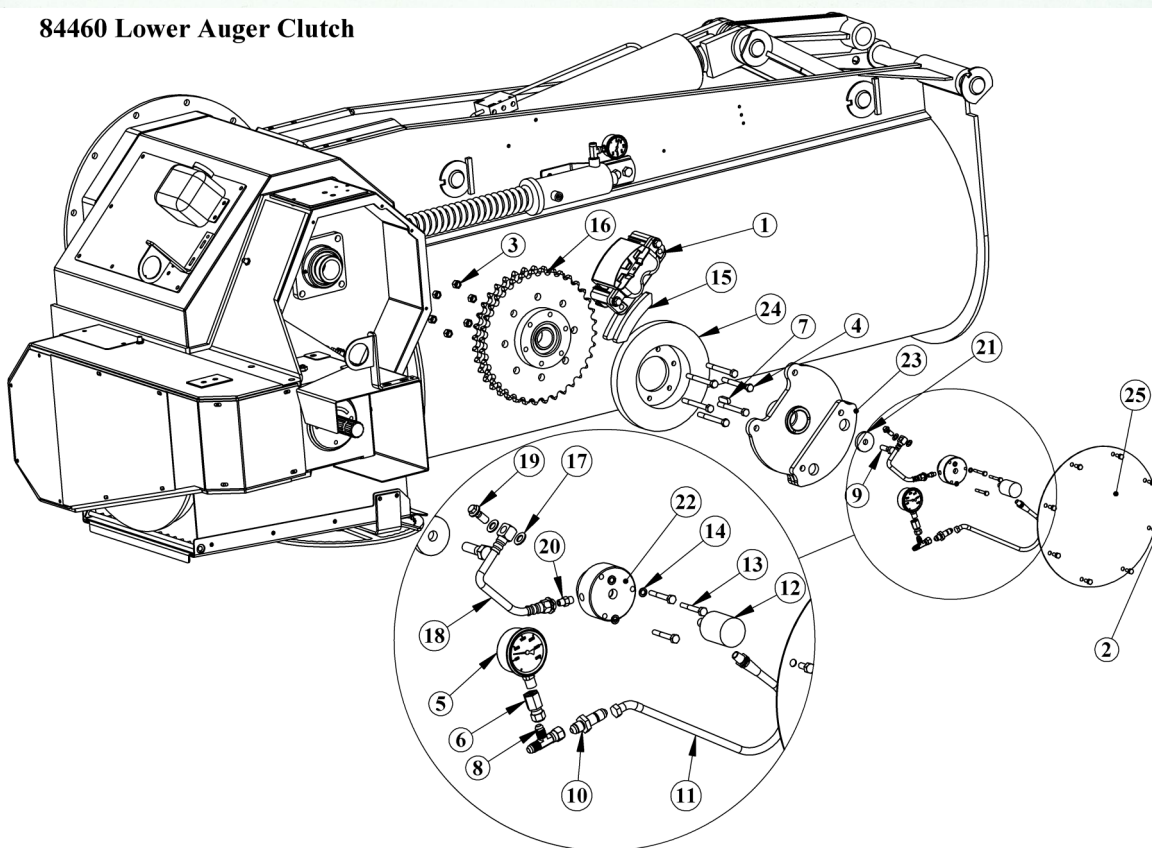
Connect T-fitting **P# 72152** to bulkhead fitting **P# 72133**. Connect JIC Female adapter **P# 72153**. Connect pressure gauge **P# 8638** to female adapter using Teflon thread tape. Reconnect hydraulic hose **P# 81271**. Tighten all connections.

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Installation of Brake Caliper

Remove brake clutch cover plate P# 84468. Remove Front Clutch Cover Housing P# 84465. Remove Brake Line hose P# 84480 from Brake Caliper P# 84459. Remove bolts from Brake Caliper Mount P# 84458 and slide brake caliper out and replace with new brake caliper. Re-install brake caliper in reverse order of dis-assembly.

84460 Lower Auger Clutch



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84460 Lower Auger Clutch

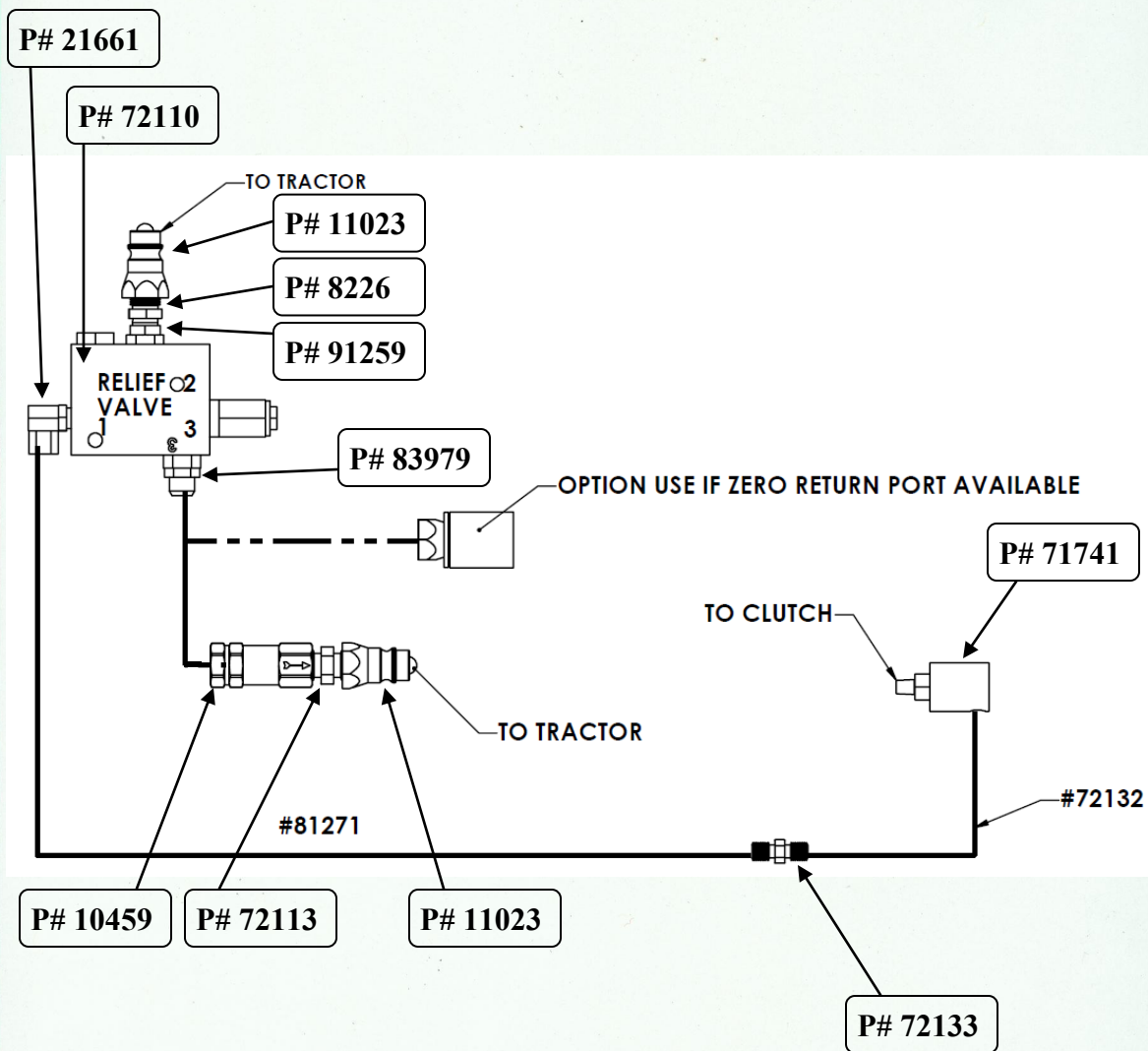
| ITEM # | PART # | DESCRIPTION | QTY. |
|--------|--------|---|------|
| 1 | 84459 | BRAKE CALIPER | 1 |
| 2 | 1183 | BOLT HEXHEAD .31" x .75" - UNC 18 GR5 | 8 |
| 3 | 2539 | NUT TOPLOCK .50" - 13 UNC | 8 |
| 4 | 1262 | BOLT HEXHEAD .50" x 5.00" - UNC 13 GR5 | 6 |
| 5 | 8638 | GAUGE PRESSURE | 2 |
| 6 | 72153 | HYD ADAPTOR .25NPTFMX .56JICFMS (6506-6-4) | 1 |
| 7 | 80793 | KEY 9 x 14 x 45MM | 1 |
| 8 | 72152 | HYD TEE .56JICMX.56JICFMSX.56JICM (6602-6) | 1 |
| 9 | 1251 | BOLT HEXHEAD .50" x 1.75" - UNC 13 GR5 | 1 |
| 10 | 72133 | HYD BULKHEAD .56JICMX.56JICM (2700-6) | 1 |
| 11 | 72132 | HYD HOSE .25X .25NPTMX .56JICFMS 45DEGX 15"LG | 1 |
| 12 | 71741 | HYD ROTATING COUPLER .25" NPT | 1 |
| 13 | 1168 | BOLT HEXHEAD .25" x 2.00" - UNC 20 GR5 | 3 |
| 14 | 1634 | WASHER LOCK .25" | 3 |
| 15 | 84477 | BRAKE PAD | 2 |
| 16 | 90895 | SPROCKET/BEARING ASBY | 1 |
| 17 | 37090 | FLATE WASHER .37" BRASS | 2 |
| 18 | 84480 | BRAKE LINE HOSE | 1 |
| 19 | 84479 | BOLT BANJO | 1 |
| 20 | 84478 | HYD COUPLER 1/8 NPT - 3/16 BRK LINE | 1 |
| 21 | 84476 | 3/8" WASHER 2.156" OD x .562"ID | 1 |
| 22 | 84464 | END CAP 3" OD x 2" LONG MACHINED | 1 |
| 23 | 84458 | WELDMENT | 1 |
| 24 | 84461 | BRAKE ROTOR MACHINED | 1 |
| 25 | 84468 | PLATE, COVER BRAKE CLUTCH .07" x 15.5"OD | 1 |

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Installation of Pressure Reducing Valve

Remove Pioneer Fitting P# 28392 from the clutch circuit and add the Pressure Reducing Valve P# 81025 to hose.

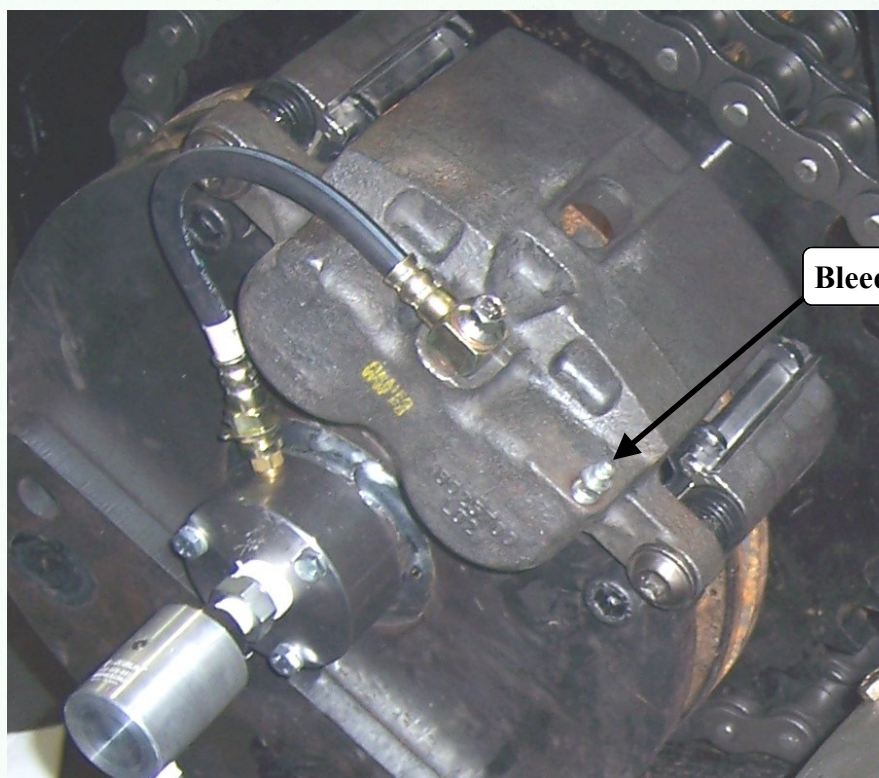
Pressure reducing valve for clutch should be adjusted to 2000 PSI.



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Clean Horizontal Auger Rotor and Bleed Brake Caliper

Remove brake clutch cover plate **P# 84468**. Rotate brake caliper so the bleeder screw is at the highest position. Pressurize clutch circuit and then loosen brake caliper bleeder screw to remove any air. Once only fluid escapes, tighten bleeder screw. Use brake cleaner to remove any hydraulic fluid and debris from brake rotor. Replace brake clutch cover plate **P# 84468**.



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Adjust Hydraulic Pressure

This is accomplished by loosening the jam nut on the adjusting screw of the aluminum block, and turning the adjusting screw clockwise until the gauge reads 2000 PSI at the clutch shield.



WARNING

Inform the operator to engage the tractor valve to the Float position (Note: This does not mean the Neutral Position on the tractor valve.) "Clutch should be Disengaged" when auger is not unloading, and more importantly before shutting down the tractor. Trapped oil in the clutch circuit can expand due to warm air temperatures, causing clutch component failure.