

PowderPro[®] Spray System

Installation Instructions

Ryobi 522, 522PF, 524, 582, 662

ACCEL  [®]
Graphic Systems

GENERAL INFORMATION

**ATTENTION
POWDERPRO®
OWNER!**

Accel Graphic Systems provides parts and service through its authorized distributors and dealers. Therefore, all requests for parts and service should be directed to your local dealer.

The philosophy of Accel Graphic Systems is to continually improve all of its products. Written notices of changes and improvements are sent to Accel Graphic Systems' Dealers.

If the operating characteristics or the appearance of your product differs from those described in this manual, please contact your local Accel Graphic Systems Dealer for updated information and assistance.

Always update your equipment when improvements are made available, especially those related to safety.

YOUR AUTHORIZED POWDERPRO® DEALER IS:

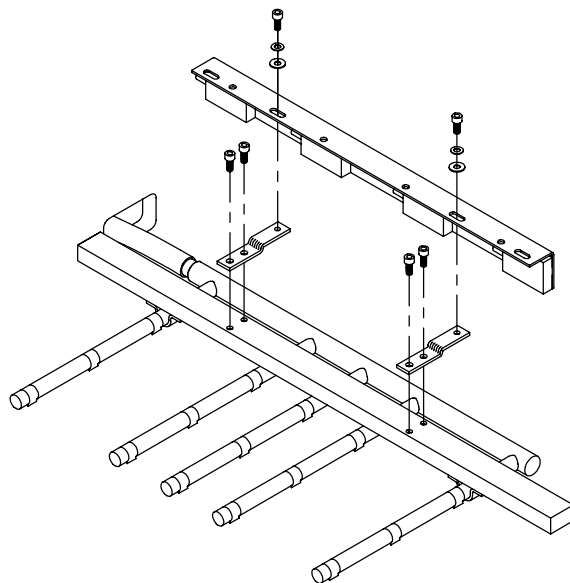
**THE SERIAL NUMBER OF YOUR
POWDERPRO® IS:**

For technical assistance, please contact:

ACCEL GRAPHIC SYSTEMS
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Dallas, TX 75229
PHONE (972) 484-6808
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E-MAIL accel@dallas.net
WEB SITE www.accelgraphicsystems.com

PowderPro® is covered by U.S. Patents Pending

Diagram A



INSTALLATION

1

DISCONNECT THE ELECTRICAL POWER TO THE PRESS.

2

Remove the NOPS cover below the #2 printing unit. Also remove the walkway on the NOPS. For 662 presses remove the NOPS delivery side cover.

3

Remove the hose from the spray bar in the delivery. Remove the spray bar from the press. Using the original hardware install the new spray bar mounting bracket(s) as shown in diagram A for 522, 524 & 582 model presses. For 662 presses see diagram B. Using the provided hardware attach the Powder Pro spray bar to the mounting brackets. Route the tubes through the same hole in the NOPS press frame that the original spray powder hose went through. Use the provided tie-wraps to secure the tubes away from all moving parts.

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Diagram B

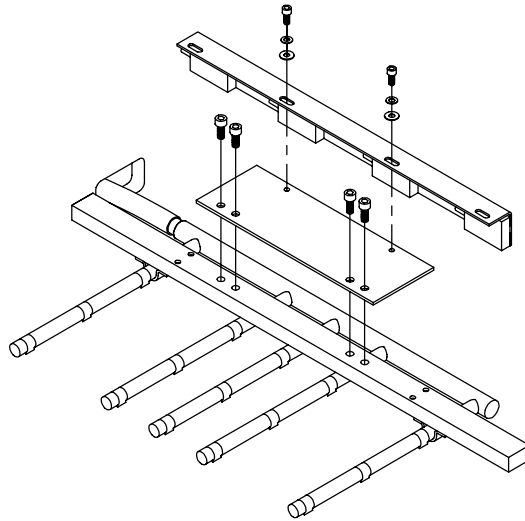


Diagram C

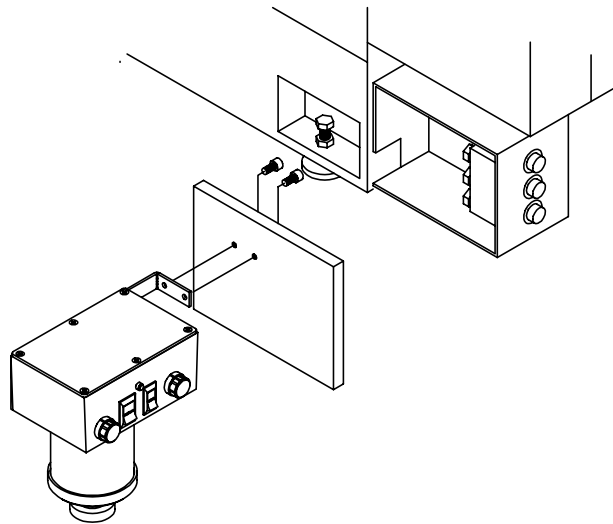
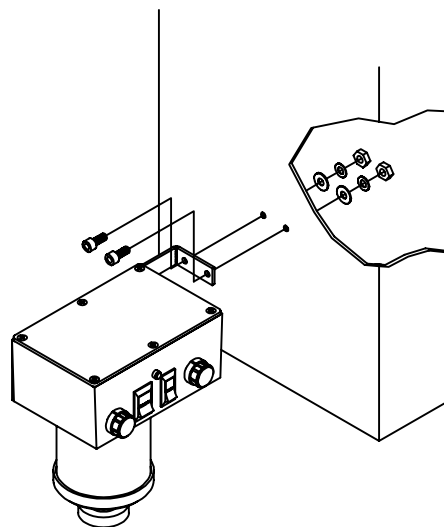


Diagram D



INSTALLATION

4

Remove the hose from the inlet side of the solenoid. Unplug the wire leads from the spray solenoid. On 522, 524 & 582 presses remove the small cover from the press that the hopper assembly mounts to and remove the hopper assembly from the cover (save the bolts). On 662 model presses the factory hopper assembly bolts directly to the press frame.

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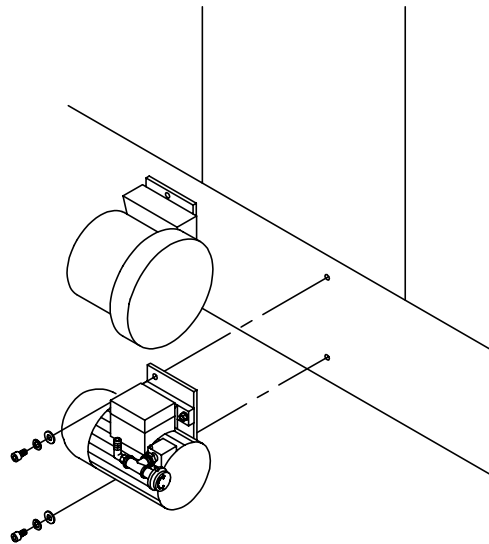
On 522, 524 & 582 presses use the original mounting bolts to install the new Powder Pro control box as shown in Diagram C. Replace the cover on the press. For 662 presses you must drill two 3/8" dia. holes, 1-3/8" apart, about 10" up from the bottom of the NOPS delivery side cover (see diagram D). Hold the control box up to the cover before drilling to make sure that when attached it will clear all press parts and that the powder spray hoses coming from the spray bar will reach. Use the provided hardware to attach the PowderPro® control box to the cover as shown in diagram D.

6

Attach the tubes coming from the spray bar to the tubes coming out of the PowderPro® control box. The tubes that are marked with black tape on their ends (coming from the center two nozzles on the spray bar) must go to the lower two tubes on the control box.

7

Diagram E



INSTALLATION

7

Remove the connectors from the ends of the leads that plugged into the original solenoid wires. Strip about a 1/4" of insulation from the leads and using the provided closed end splice connectors connect the leads to the wires in the cable coming from the PowderPro® control box marked with blue tape on the end of it. It does not matter which wire you connect to either of the two leads.

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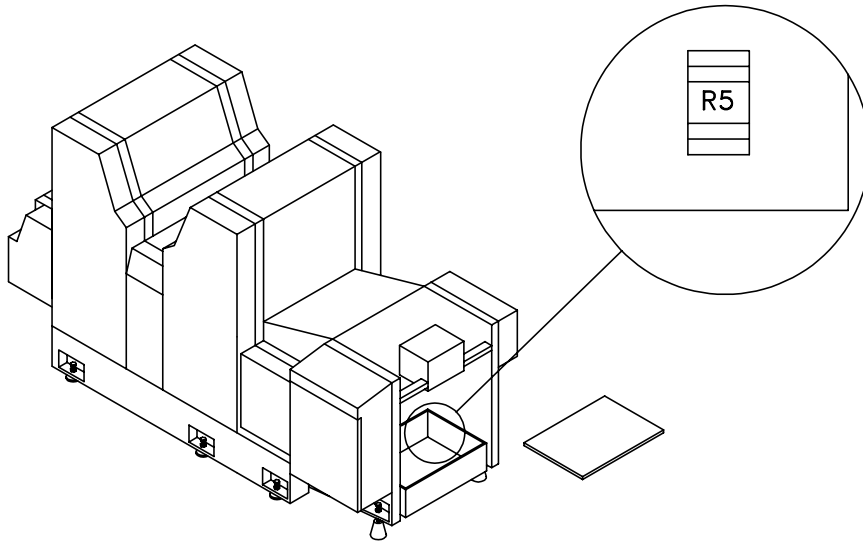
Disconnect the cable that powers the original powder spray blower and remove the blower from the press. On 522 and 524 presses this blower is mounted vertically to the lower press frame on the NOPS (of the two pumps mounted to the frame the spray powder blower is the one nearest to the delivery end of the press). On 582 and 662 model presses the blower sits on the floor. Connect the original cable to the lead coming out of the new pump. If the original blower cable hard wired into the press you will have to hard wire the new pump using the same cable.

9

On 522 and 524 presses use the original blower mounting bolts to attach the new pump to the same holes in the press frame that the original blower used as shown in Diagram E. Mount the pump with the regulator facing the delivery end of the press. On 582 and 662 presses the pump will sit on the floor. Connect the original cable to the lead coming out of the new pump. If the original blower was hard wired into the press you will have to hard wire the new pump using the same cable. Restore the power to the press, turn the press pumps on (the new pump should be on now) and verify that the new pump has pressure and not vacuum. If the pump is creating vacuum then two of the three power leads need to be switched inside the pump. Disconnect the power to the press before reversing the leads (if necessary) or before continuing with the installation.

9

Diagram F



INSTALLATION

10

Route the provided 3/8" ID hose from the barb fitting on the pump to the fitting on the hose coming out of the PowderPro® control box.

11

Route the cable coming out of the PowderPro® control box marked with red tape along the NOPS up to the electrical box directly under the feeder. Secure the cable along the way with the provided tie-wraps. Remove the cover on the box and insert the cable through the back of the box. Locate the R5 relay in the box as shown in diagram F. On 522, 524 and 582 presses locate wire no.'s R1 and 39 on the R5 relay. For 662 presses locate wire no.'s R1 and 22 on the R5 relay. Attach the spade connectors on the end of the cable to the same positions on the relay as wires R1 and 39, or R1 and 22 depending upon which model you have. DO NOT REMOVE WIRES ORIGINAL WIRES FROM THE R5 RELAY. It does not matter which wire lead on the cable you attach to each position on the relay. Replace the cover on the box.

12

Replace all covers and guards. Switch the power to the press ON. Proceed to the next section "OPERATION & MAINTENANCE."

11

OPERATION AND MAINTENANCE

POWDER PRO CONTROLS

VOLUME ADJUSTMENT KNOB

This knob adjusts the amount of powder being sprayed with “0” being the minimum and “10” being the maximum.

INDICATOR LIGHT

This light is illuminated only when the unit is actually spraying. The light will go on and off as sheets pass under the spray nozzles.

TEST SWITCH

Use this switch for setting powder volume when not printing. Turn the pumps on, push the test switch to visually see the amount of powder being sprayed, adjust if necessary.

NOZZLE SELECTOR KNOB

This knob lets you control which spray nozzles are being used. For maximum width sheets set the selector to the lower position. This setting sprays all four nozzles. For narrow sheets (generally 11" wide or less) set the selector to the upper position. This setting sprays only the center two nozzles.

NOTE: The PowderPro® Spray System for this model press utilizes the original ON/OFF switch. When switched to the “ON” position the system is armed, it will spray only when the press goes on impression and a sheet is present under the spray nozzles.

OPERATION AND MAINTENANCE

INITIAL SETTINGS

A good initial setting for the powder volume adjustment on your average job is “5”. If you find that you need more powder than is available at a setting of “10” you will need to adjust the pump. If you find that you need less powder than is available at a setting of “0” you will also have to adjust the pump. So that you have a wide range of powder volume adjustment available for different jobs you want your “normal” setting for average jobs to be somewhere in the range from “4” to “6”, otherwise you need to adjust the pump.

PUMP ADJUSTMENT

On new installations the pressure regulator on the pump must be adjusted before the system can be used. Locate the adjustment knob on the pump near the outlet hose. Loosen the locking knob and turn the adjustment knob clockwise to increase the pressure if your not getting enough powder. Turn the knob counter clockwise to decrease pressure if you are getting too much powder. The easiest method for initially setting the correct pump pressure is as follows:

1. Turn the press pumps on.
2. Turn the powder spray switch to the ON position.
3. Set the powder volume adjustment knob to “10”.
4. Set the nozzle selector knob to its’ four nozzle position.
5. Hold the TEST switch ON while looking at the spray nozzles in the delivery.
6. Have someone slowly adjust the pressure on the pump until powder is just visible. A powder volume setting of “10”, with visible powder, is a LOT of powder. There fore, a setting of around “5” with no powder visible is correct. Remember, if you can see the powder coming out of the nozzle you are using too much powder.
7. Make sure you tighten the locking knob on the pump adjustment before replacing the cover on the press.

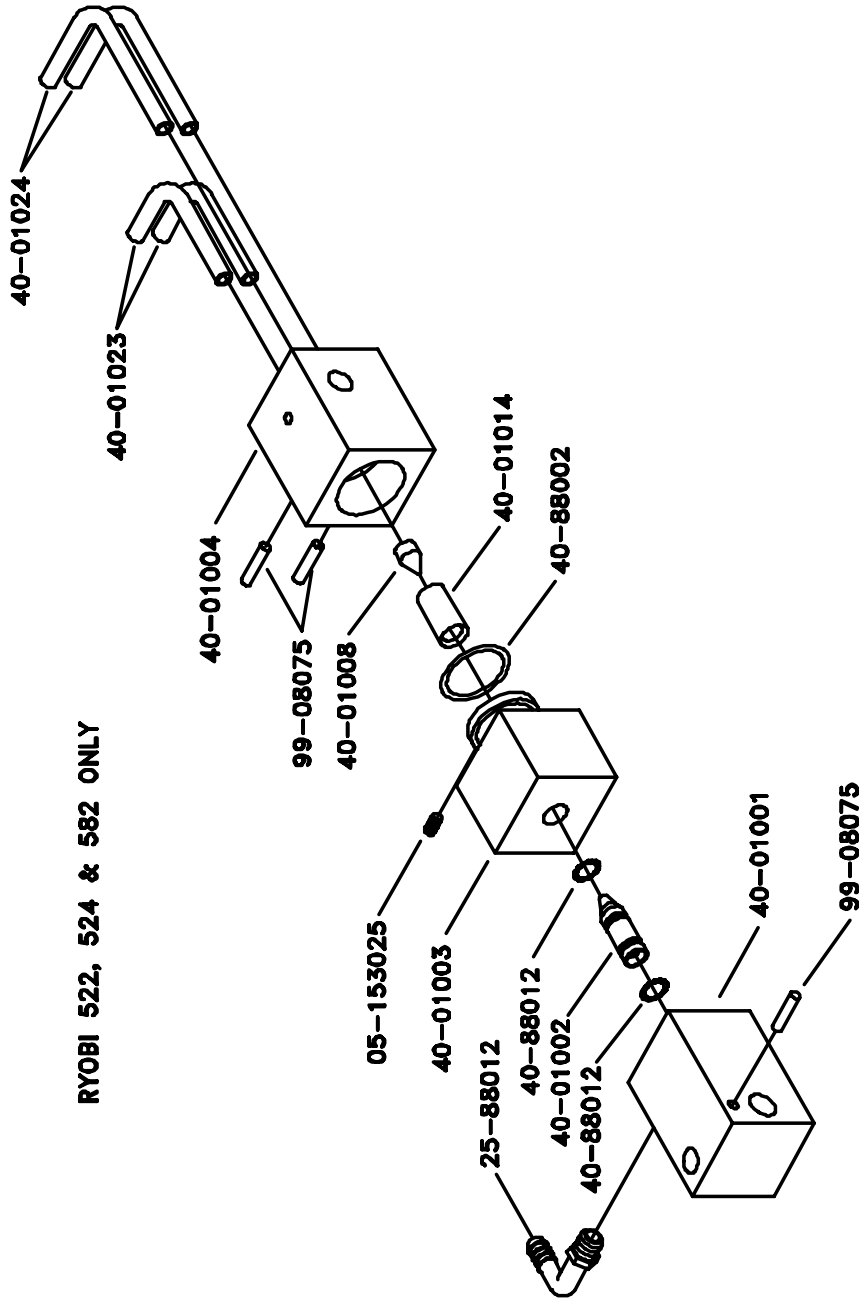
OPERATION AND MAINTENANCE

MAINTENANCE

1. Clean the filter on the pump once a week, blowing it clean with compressed air.
2. Remove any powder that may have accumulated on the bottom of the spray nozzles once a day.
3. Never use solvents containing oil when cleaning any part of the spray system.
4. Use compressed air only if your compressor is equipped with a proper in-line dryer. Any moisture introduced into the spray system will degrade the performance.

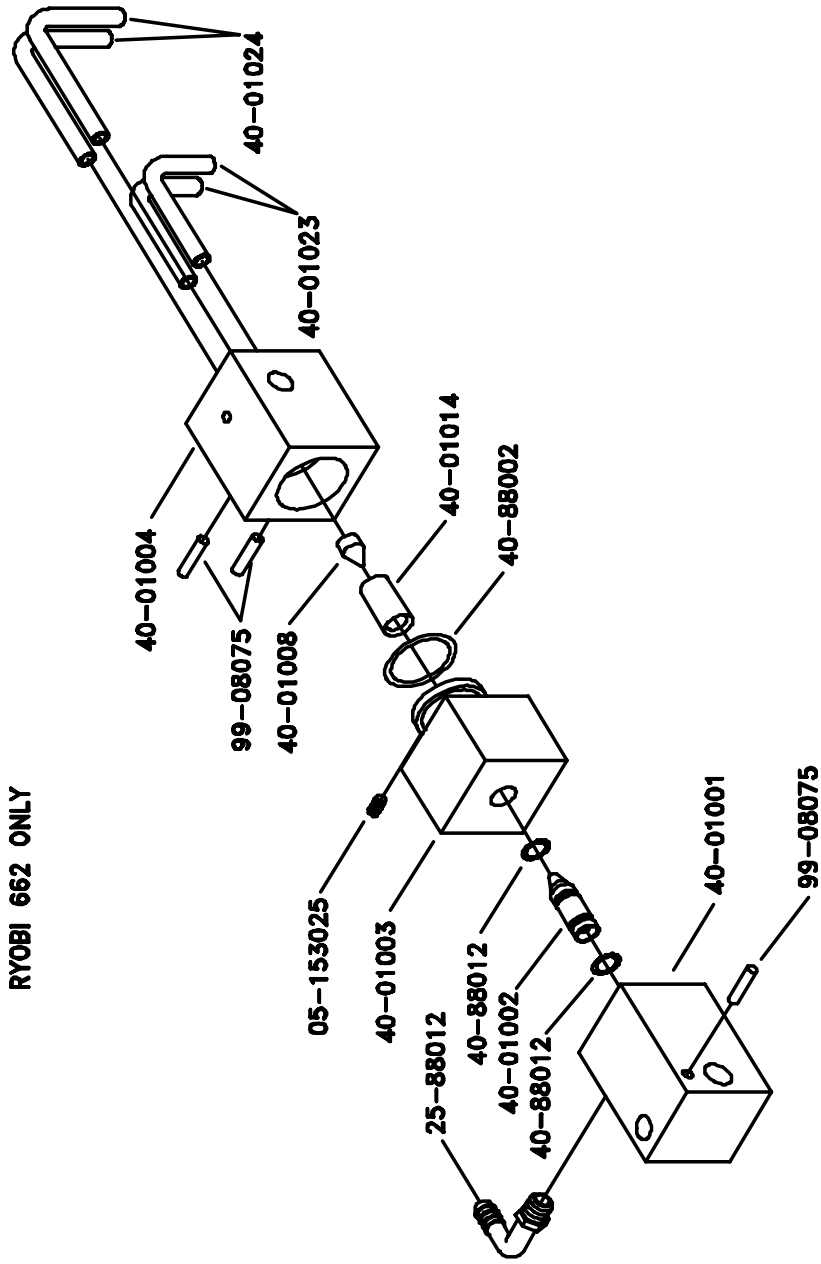
OPERATION

1. Fill the powder hopper with an intermediate grain (20-25) powder (available from Accel) up to the "MAX" line on the hopper.
2. Place the ON/OFF switch to the "ON" position.
3. Consider the sheet width and if necessary change the spray nozzle selector knob. When switching from a four nozzle to a two nozzle setting you must readjust the powder volume.
4. The spray length is automatically controlled by the press.
5. Adjust the powder volume adjustment knob if necessary.
6. The powder sprayer will operate automatically when the press goes on impression and a sheet is present.

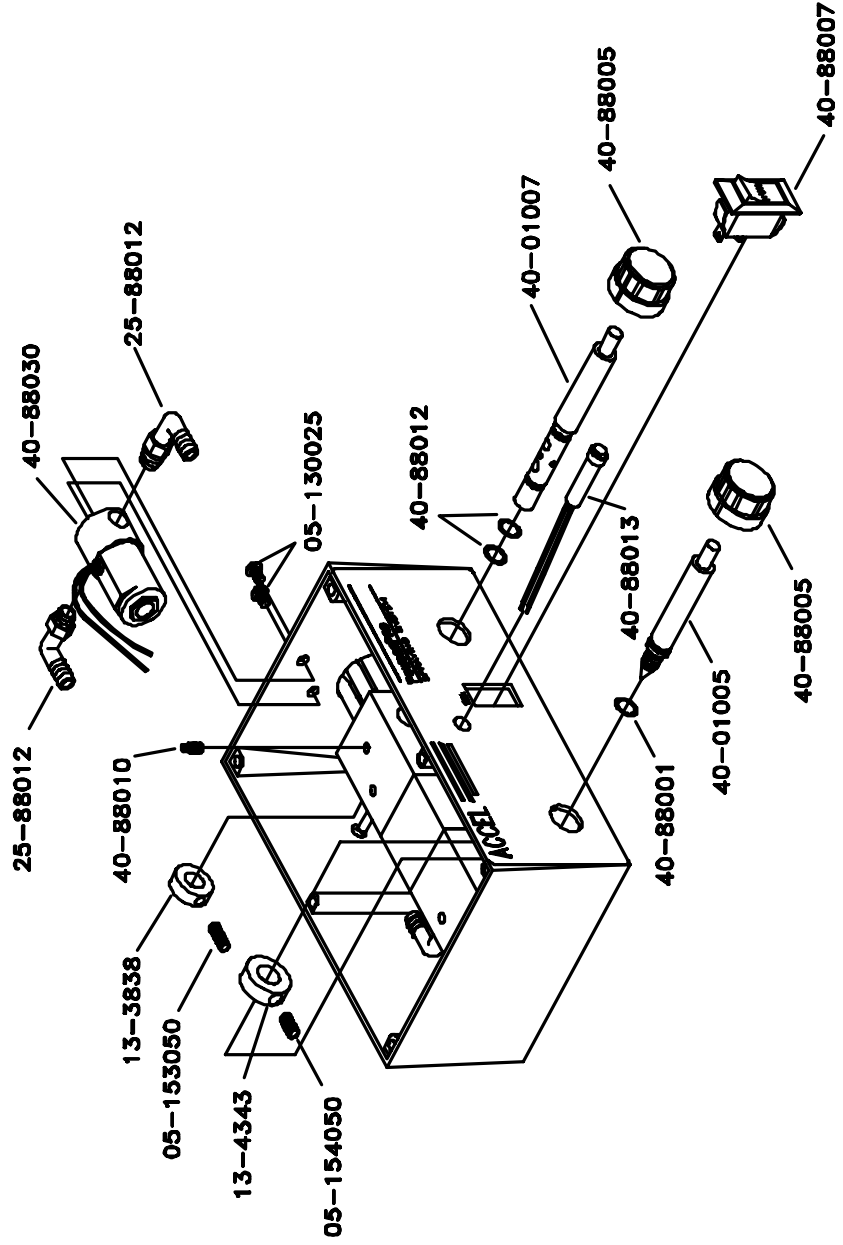


RYOBI 522, 524 & 582 ONLY

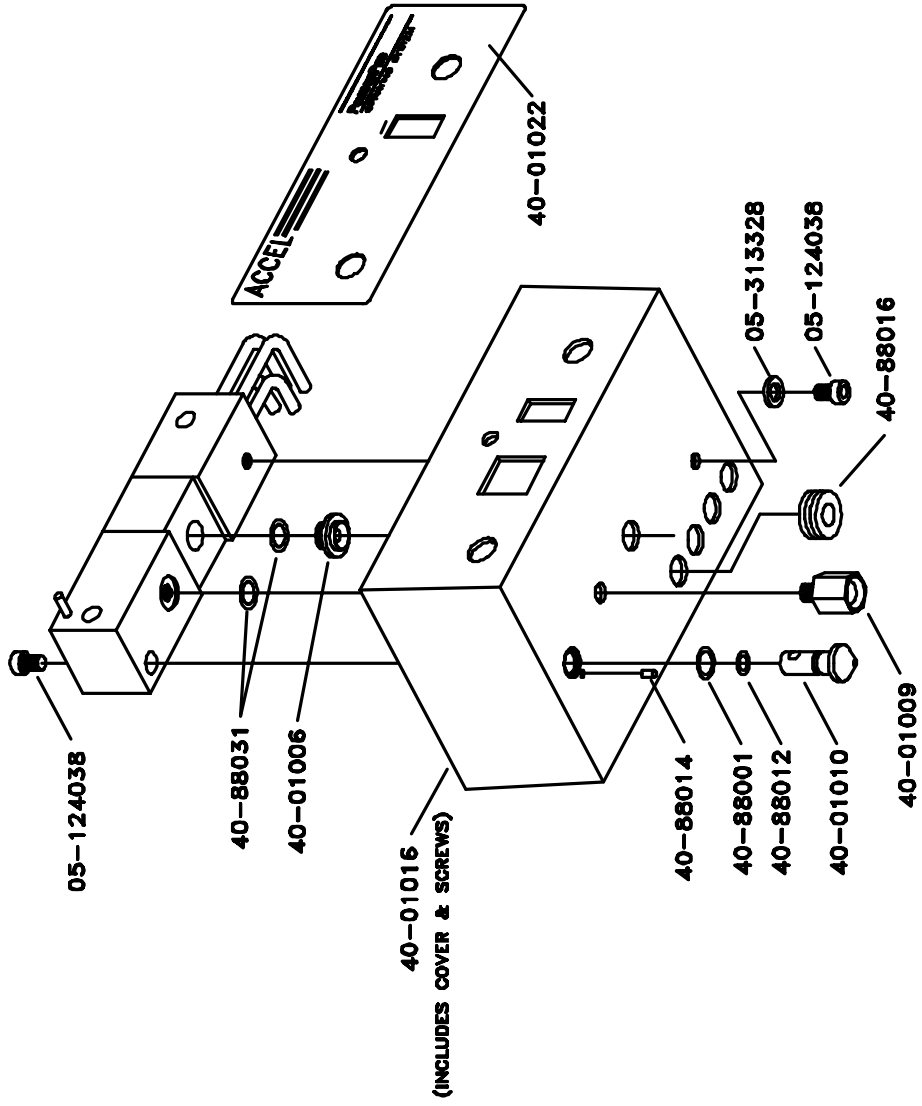
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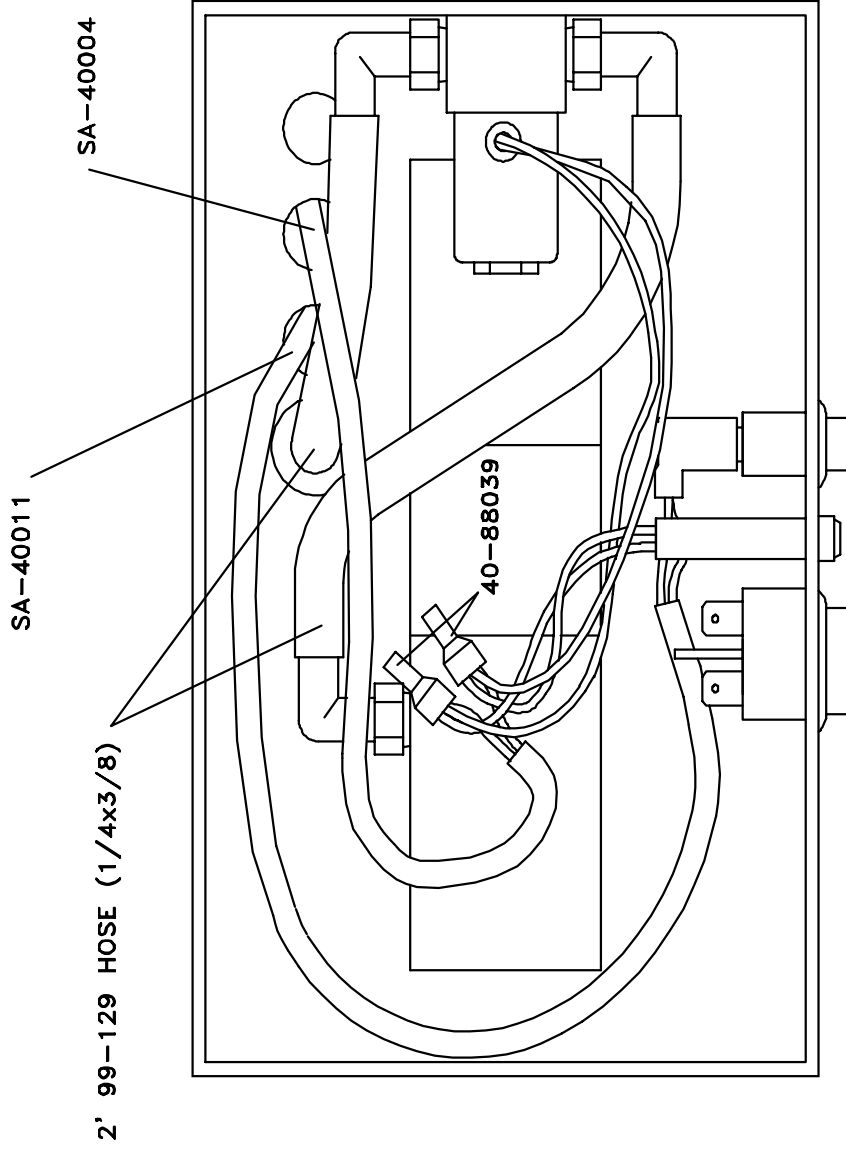


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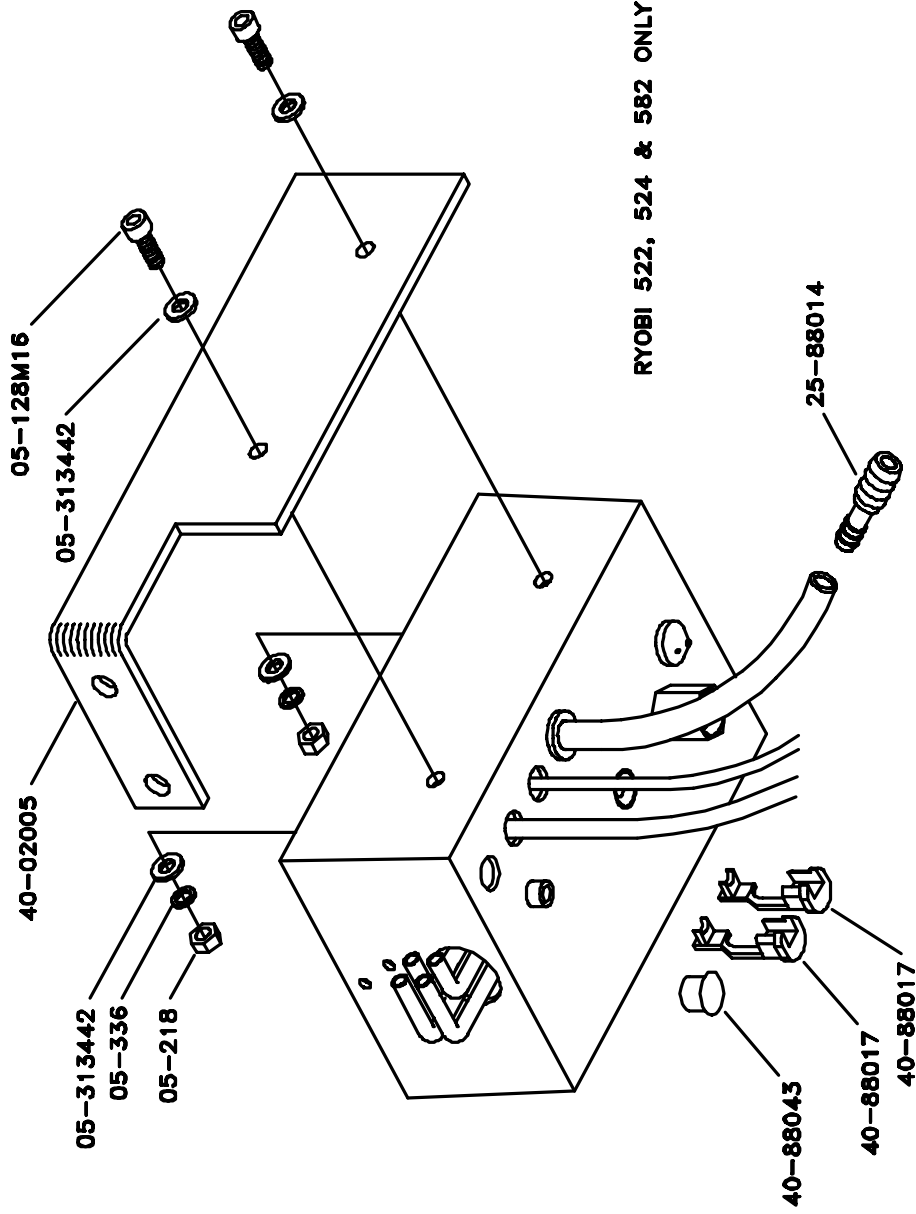


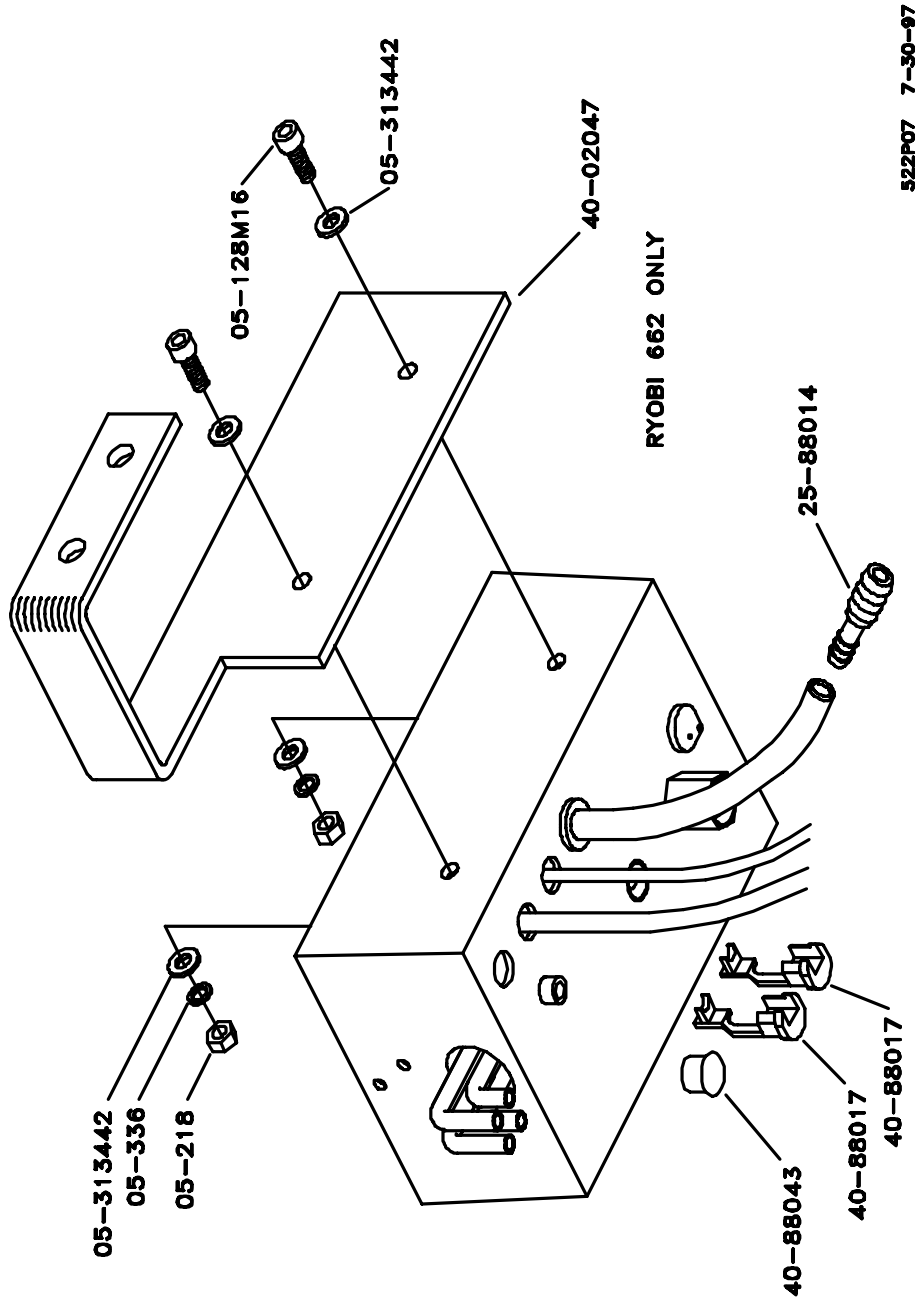
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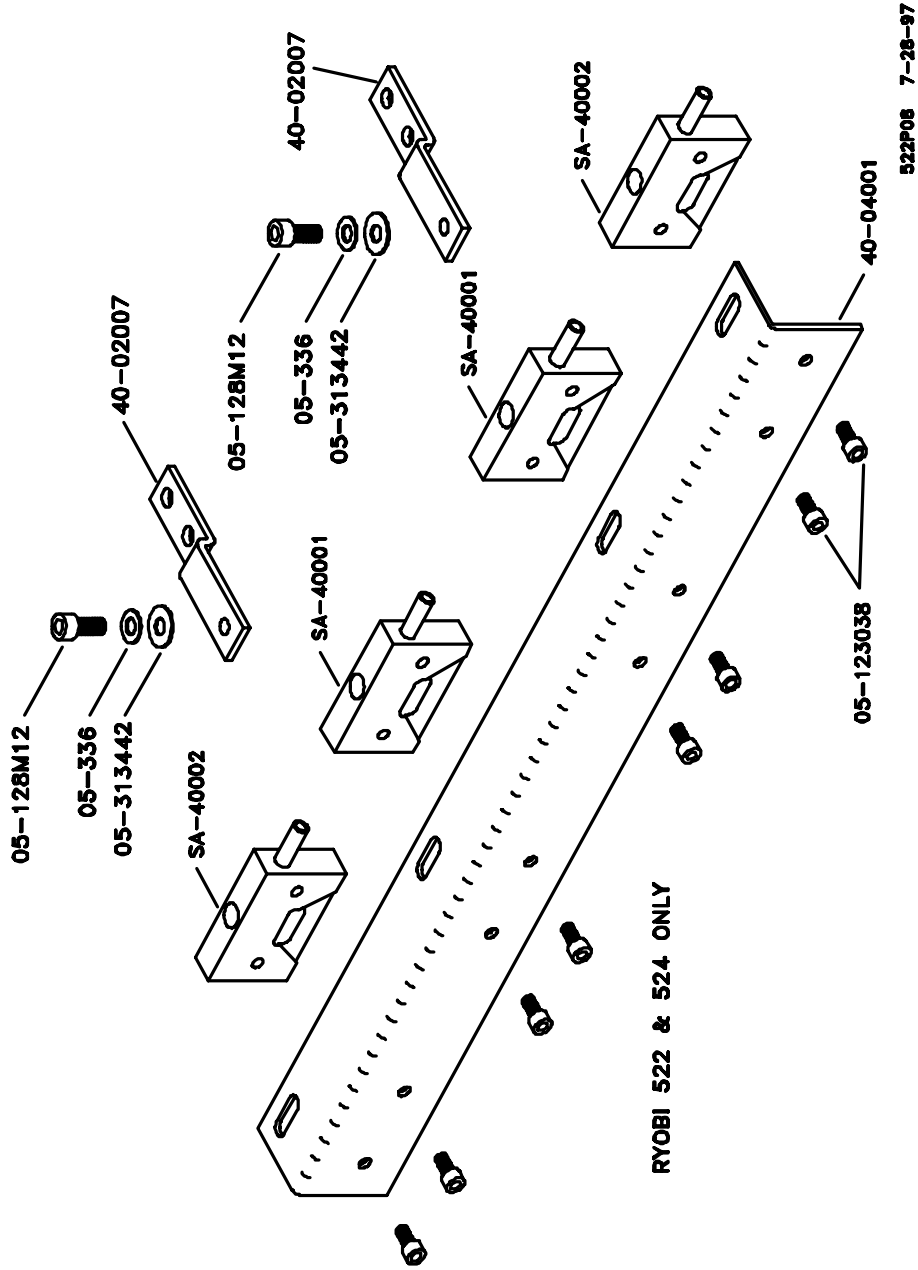


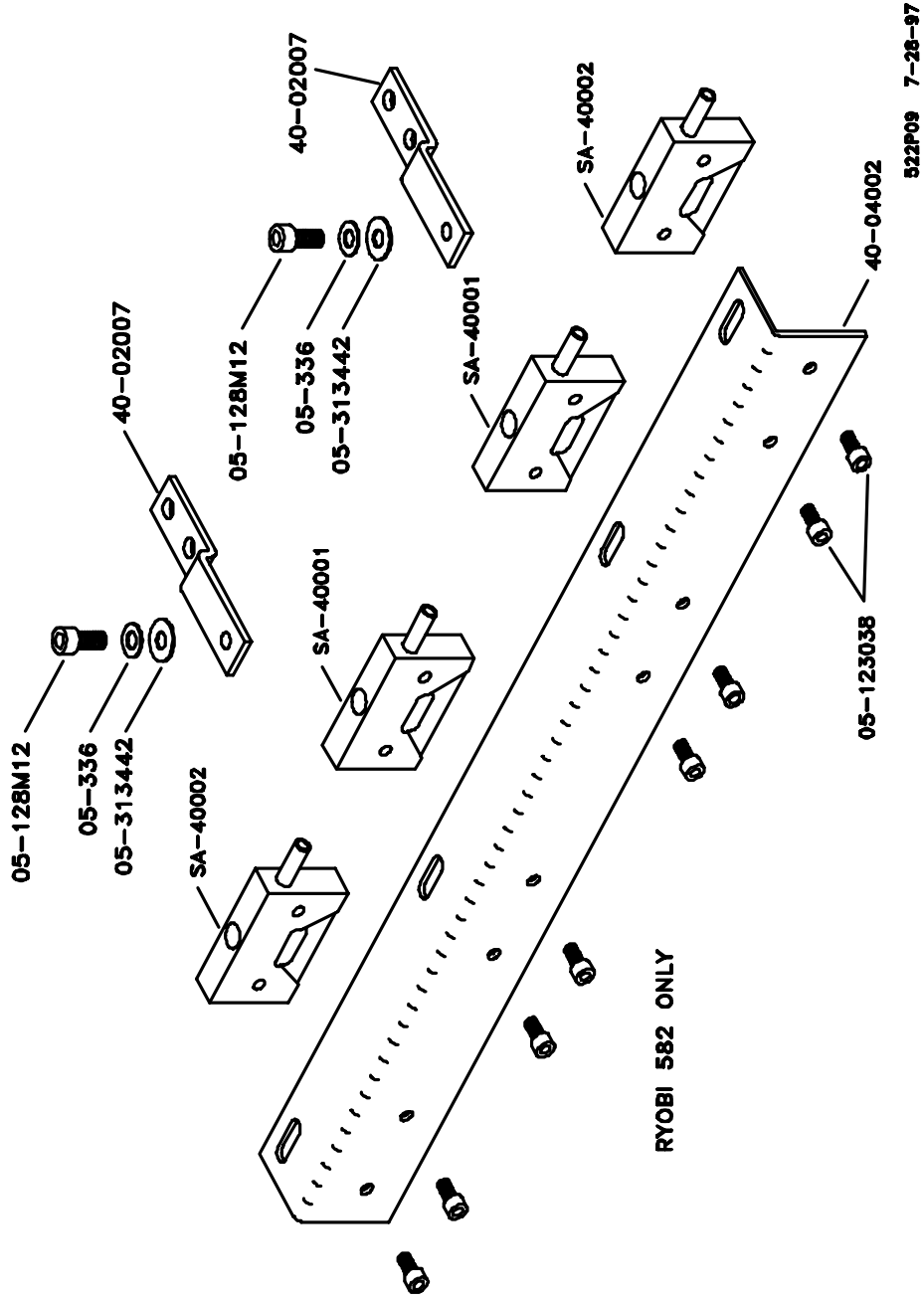


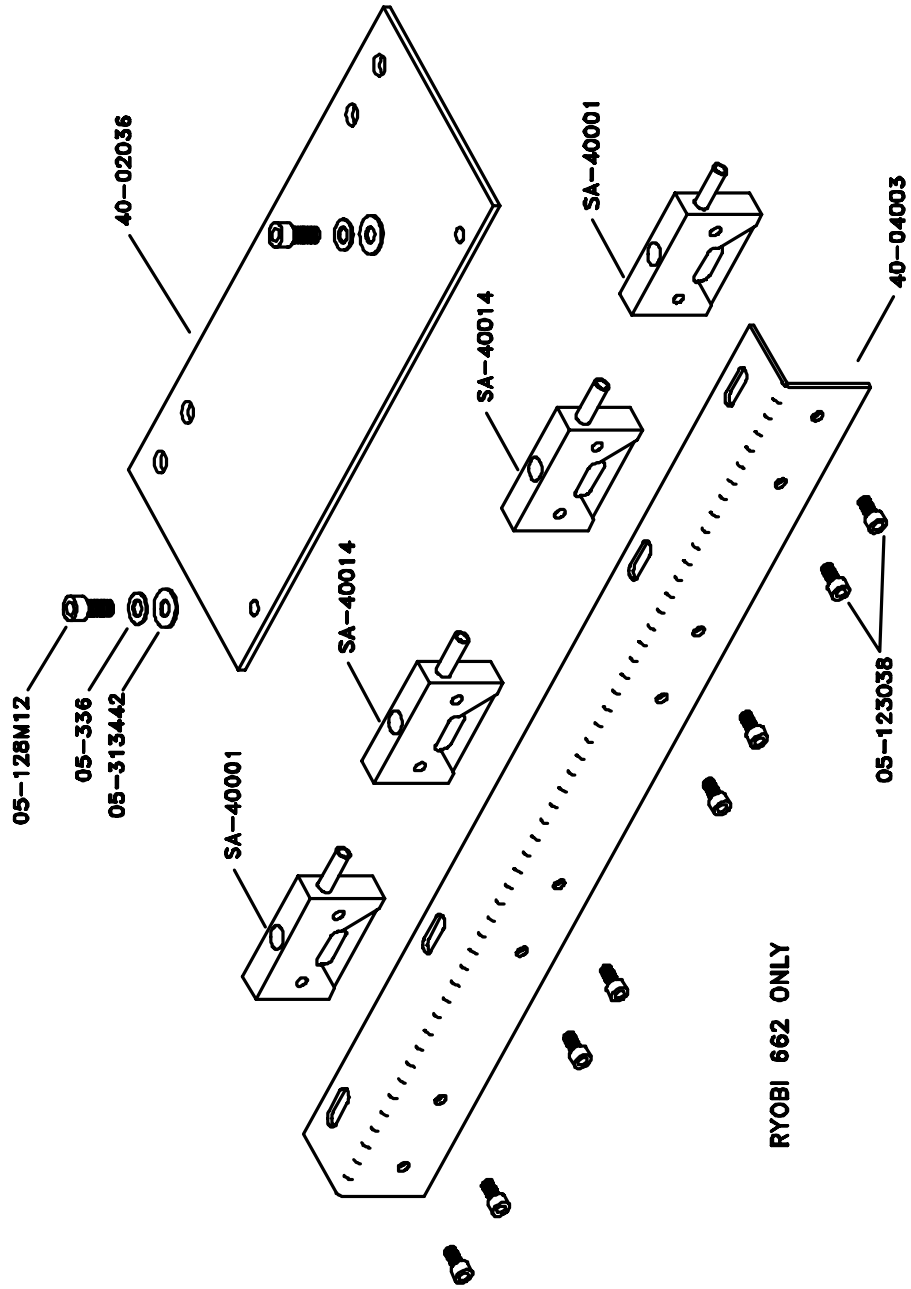
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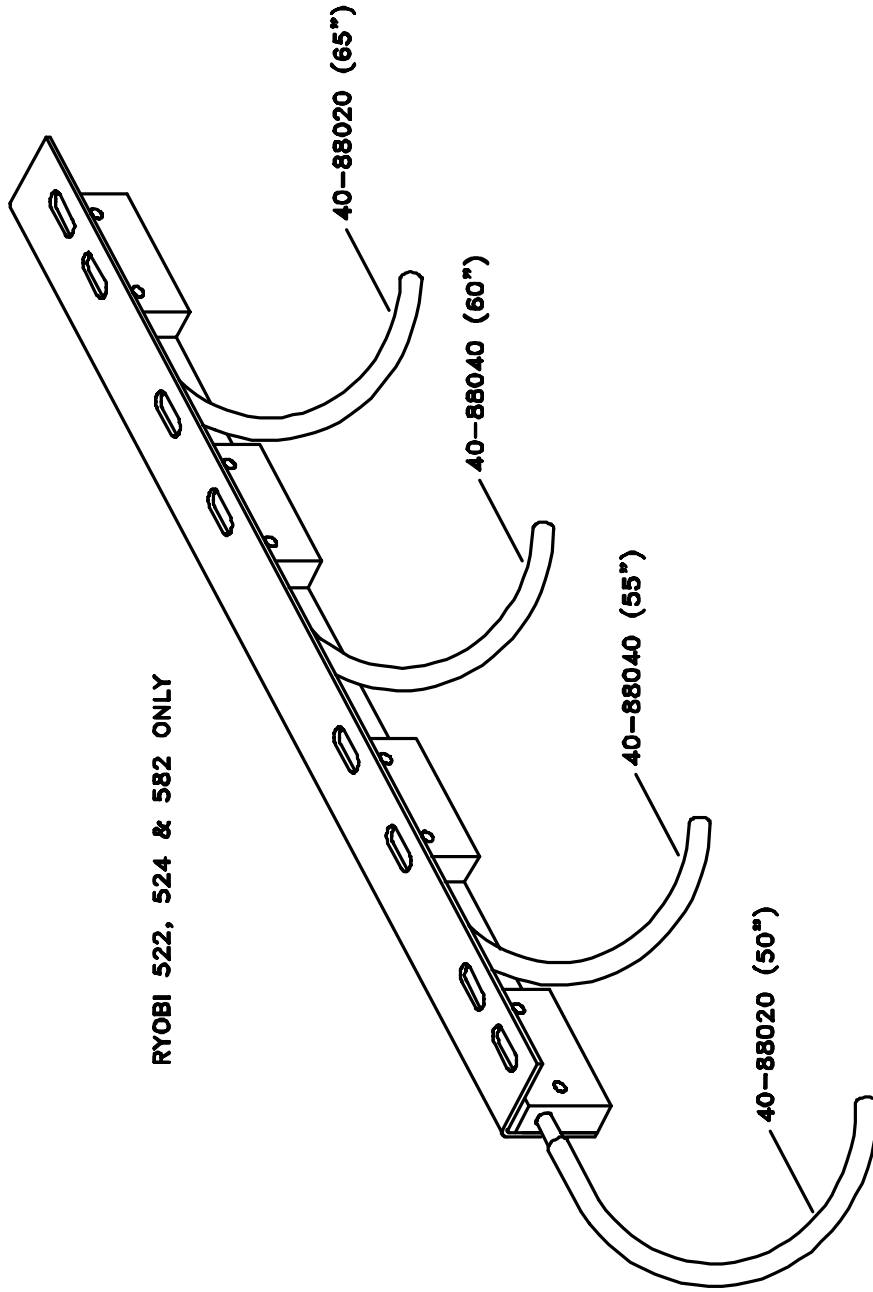






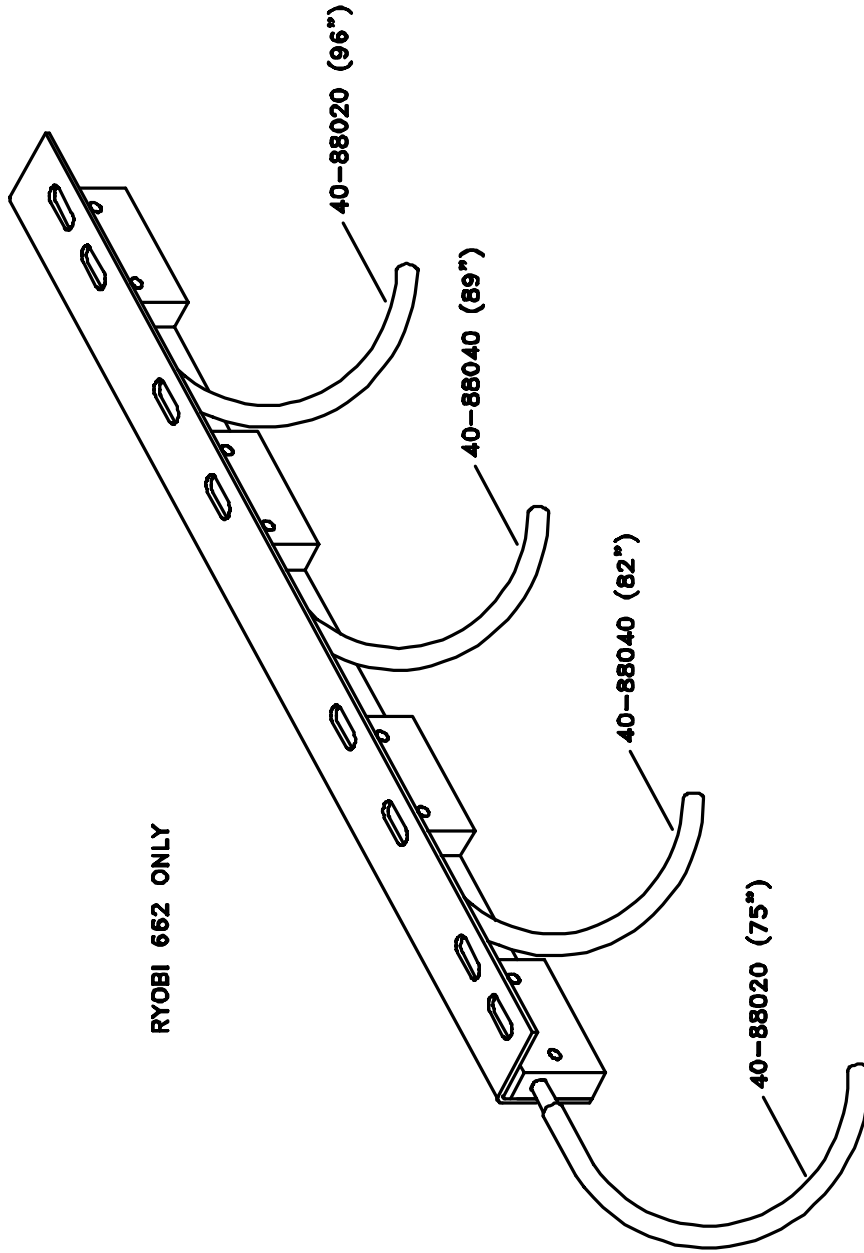


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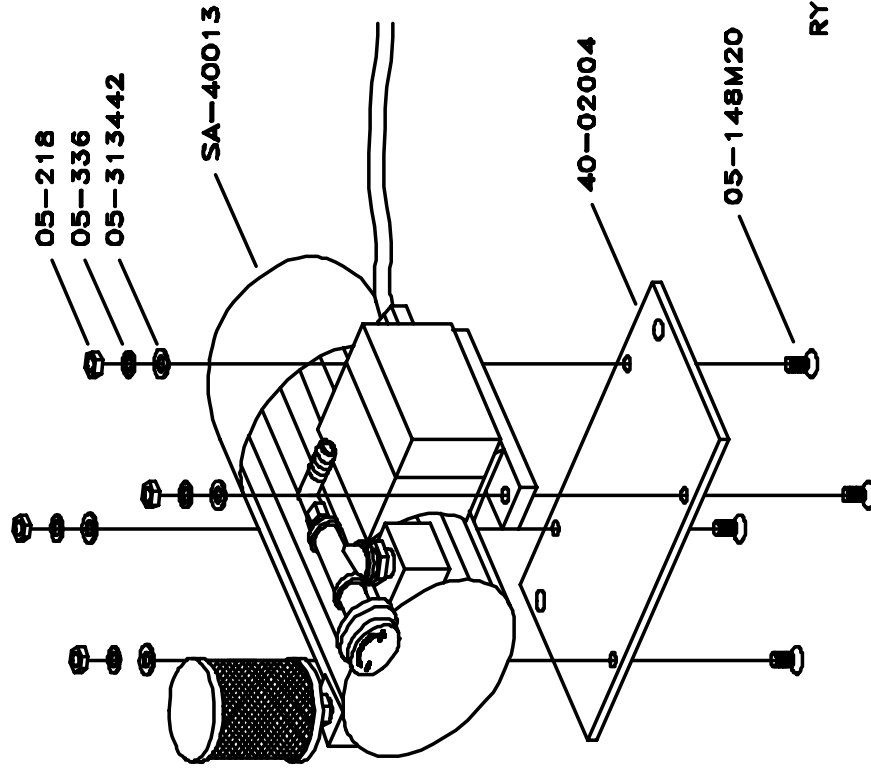


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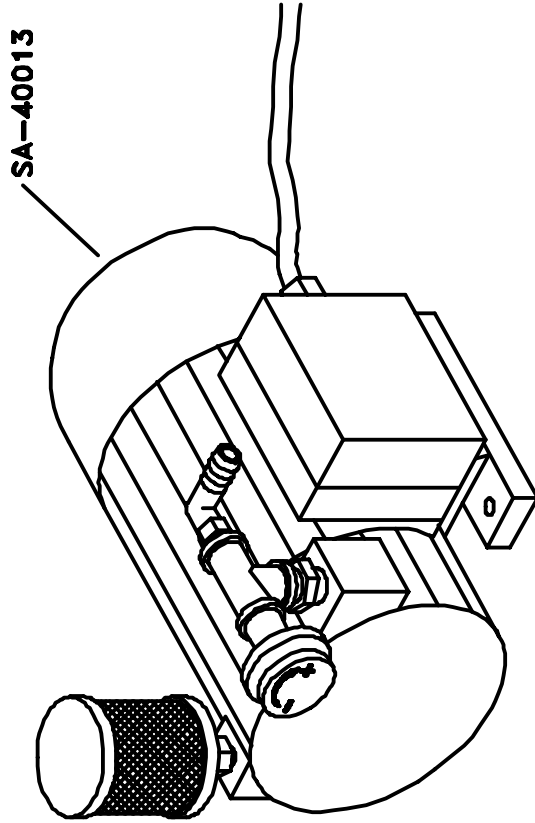
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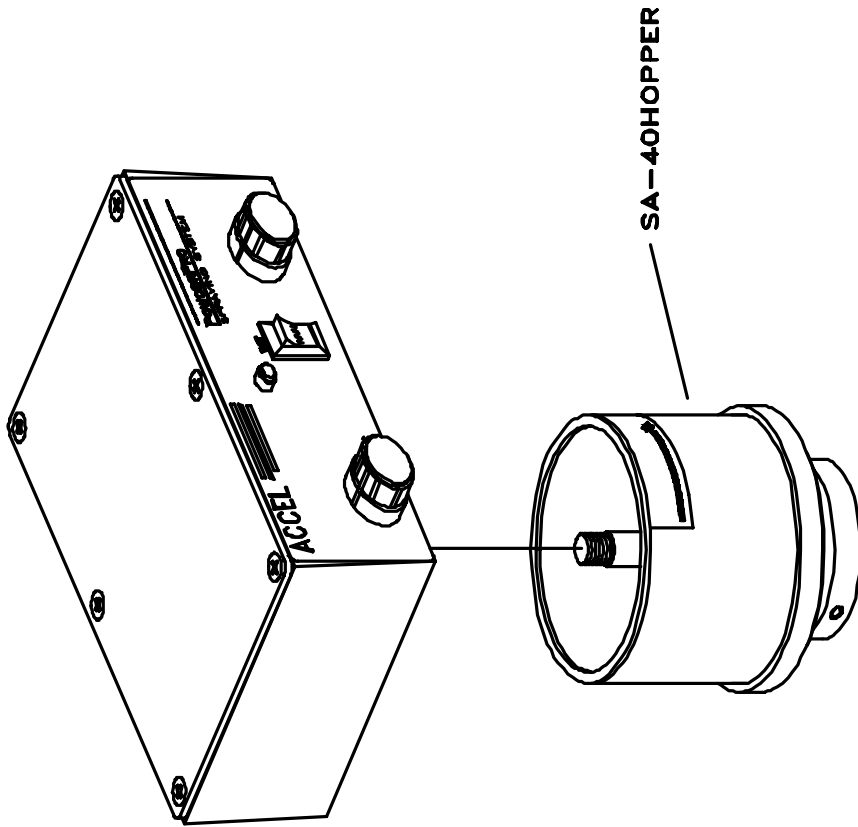
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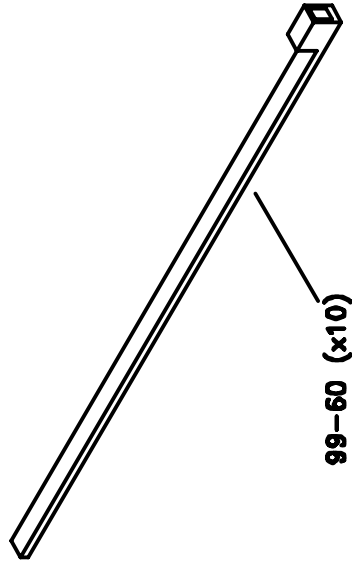
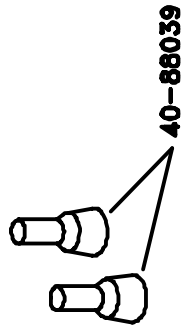
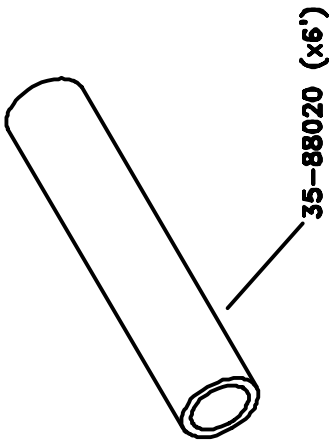
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522P16 7-28-97

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