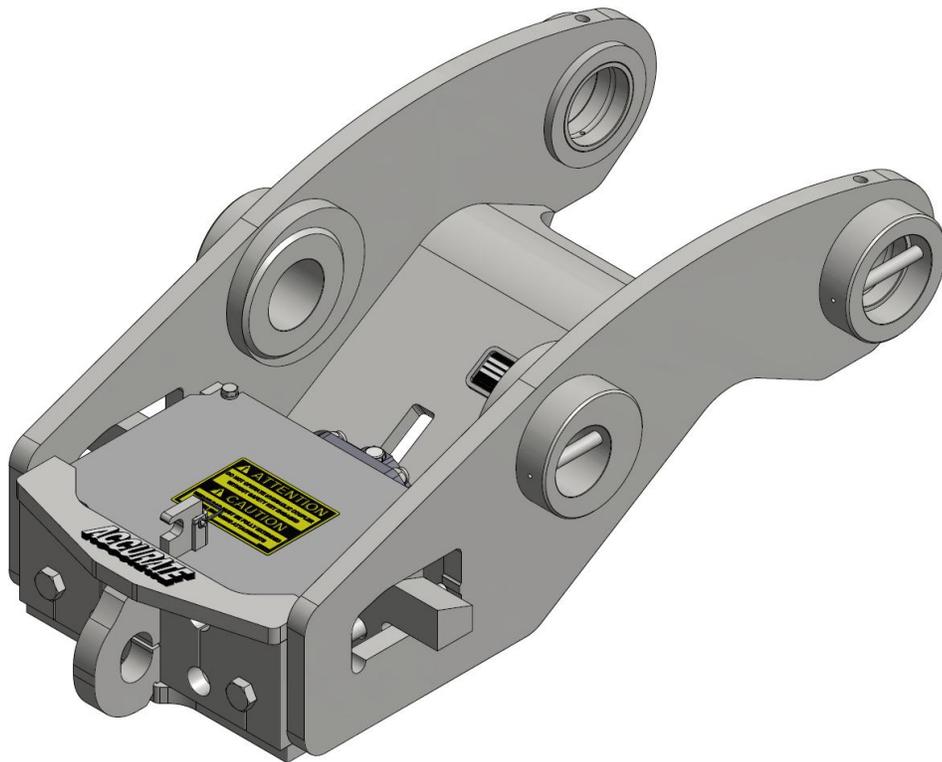


***ACCURATE* Fabricating Ltd.**

- SERIES 6 - Hydraulic Quick Coupler

Installation, Operation & Maintenance Manual



ATTACHMENT INNOVATION

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Introduction

The unique design and specially developed hydraulic installation kit make the ACCURATE coupler inherently safe.

The **primary** locking system utilizes a hydraulic cylinder with a **built-in check-valve** while the **secondary** system consists of an **interlocking safety key** that prohibits accidental attachment release.

Failure mode analysis indicates that the probability of accidental attachment release is practically zero – and then we added the safety key!!

Several design features achieve this:

- The reverse-mounted cylinder results in a mechanism that is less susceptible to damage. The hydraulic wedge bar accommodates variances in lugging while isolating the cylinder from harm.
- Tensioned guide bolts provide stability, accuracy and repeatability of engagement
- The in-cylinder check-valve prevents unwanted cylinder travel. Should all the bolts become loose, the cylinder would still hold in place. (Stover nuts and Removeable Loctite prevent loosening).
- A heavy-duty cover protects the hydraulic cylinder and mechanism
- An open bottom frame allows loose material to exit the cylinder area easily. This is especially important when working in freeze-thaw climates. Extending and retracting the cylinder when not engaged in attachments helps the coupler to clear itself of debris build-up.

The check-valve is the only possible component failure that could put an attachment at any risk of accidental detachment. If it should fail to operate properly the wedge bar could become loose. The probability of this is extremely small. The safety key **eliminates** the consequence of such a problem, as **the wedge bar cannot completely disengage the lugging with the safety key in place.**

To recap, the ACCURATE quick coupler, combined with the ACCURATE hydraulic installation kit cannot release attachments without the operator removing the safety key and then operating the switch in the cab. Installing an Accurate Coupler without an Accurate install kit may void the coupler warranty.

The installation must be performed by a certified Dealer trained technician and may void warranty if installed by unqualified personnel.

Case

Caterpillar

Doosan

Hitachi

Hyundai

JCB

John
Deere

Kobelco

Komatsu

Link-Belt

General Information

This section provides general information and recommendations required prior to installing, operating or maintaining your Hydraulic Quick Coupler.

All safety messages and decals that are explained in this manual, and in the Hydraulic Installation Kit, must be read and understood by all personnel installing, maintaining or operating the Hydraulic Quick Coupler.

Safety Message Classification

Safety messages in this manual are as follows:

Danger: Indicates an imminently hazardous situation. If not avoided, this hazard will result in serious injury or death.

Warning: Indicates a potentially hazardous situation. If not avoided, this hazard could result in serious injury or death.

Caution: Indicates a potentially hazardous situation. If not avoided, this hazard may result in minor or moderate injury and/or damage to the coupler or machine.

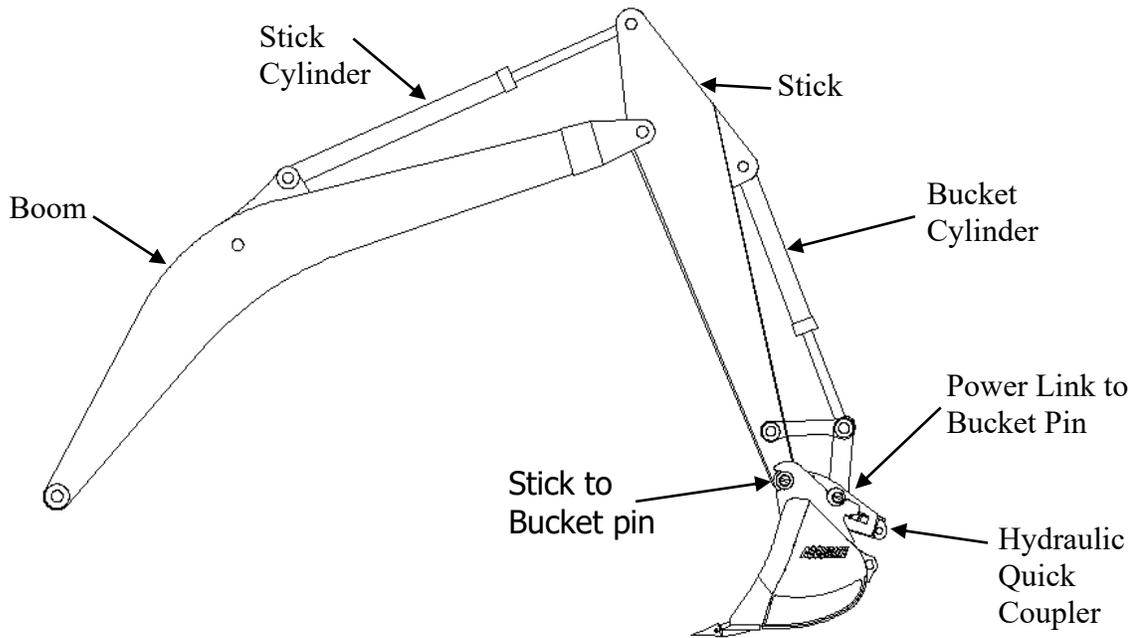
All personnel who are to operate the Hydraulic Quick Coupler must read and familiarize themselves with how it Works, Maintenance and Safe Working Procedures sections of this manual prior to operating or maintaining the hydraulic quick coupler.

The owner/operator of any equipment using a hydraulic quick coupler should review all additional materials including hazard assessments and operating manuals supplied by the manufacturer of the machine to ensure safe use and operation.

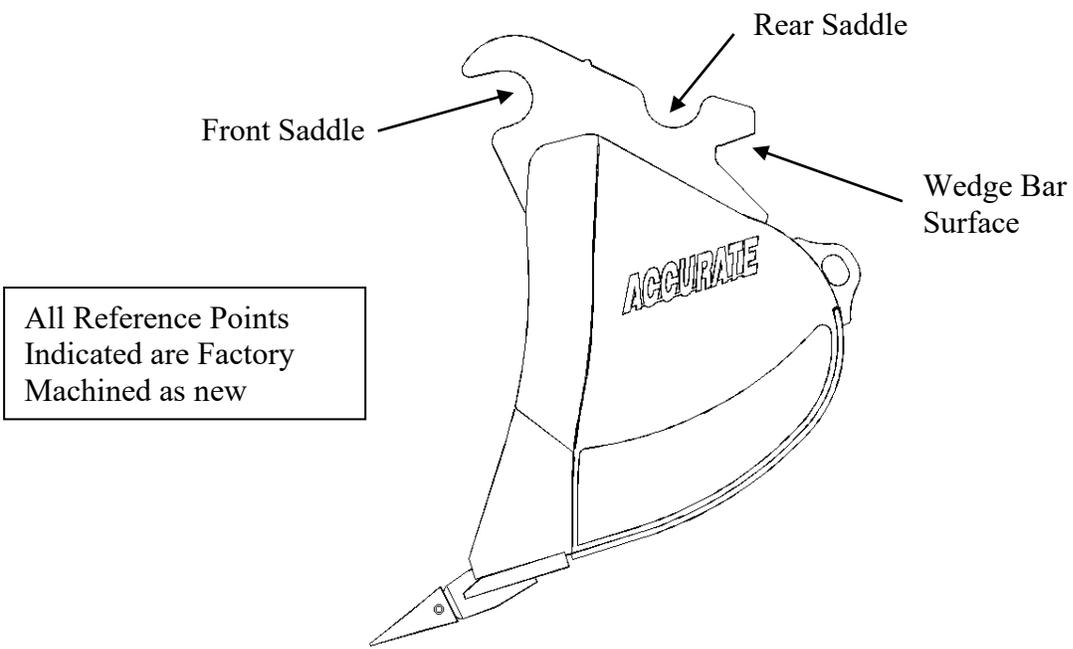
WARNING

Failure to comply with information contained within the Accurate Parts and Installation Manual may result in injury, death, damage to property and/or damage to the Quick Coupler. Ensure that all personnel have read and understand the information contained in the Manual before attempting to install, maintain and/or operate the Accurate Hydraulic Quick Coupler.

Excavator Terminology

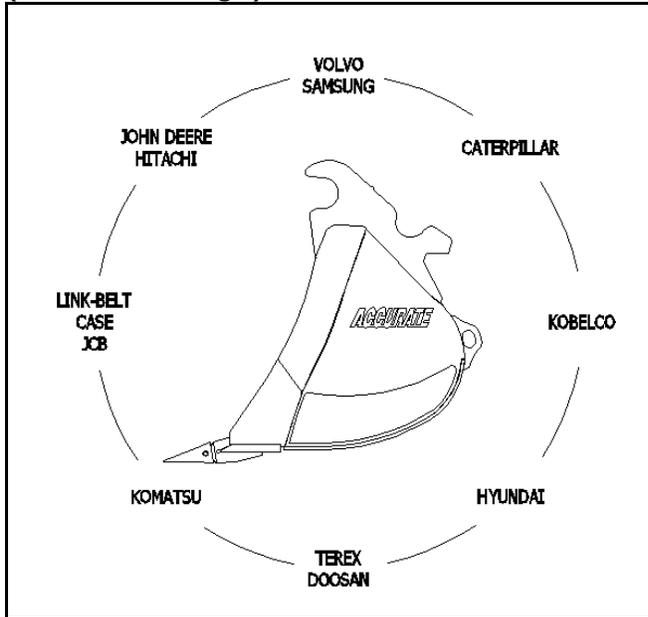


Excavator Bucket Terminology



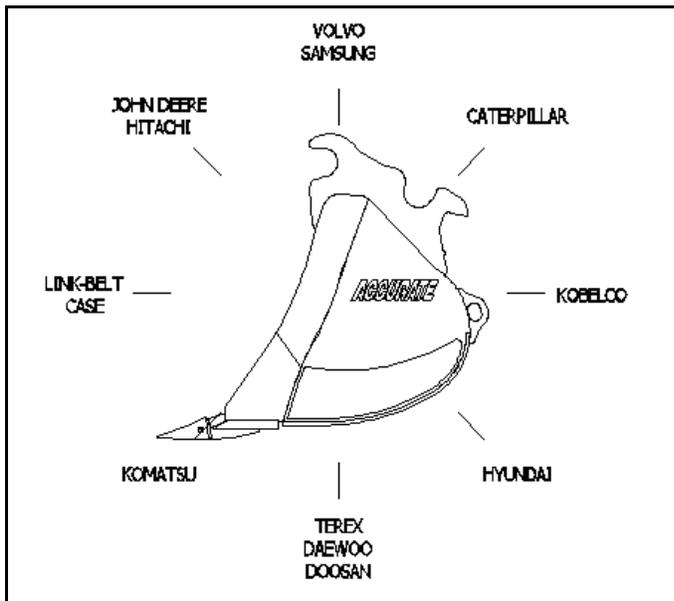
Quick Change Lugging Styles

WBM Universal Lugging (Preferred Design)



Compatible with all attachments within each specific OEM machine manufacturer series.

CWS Standard Lugging

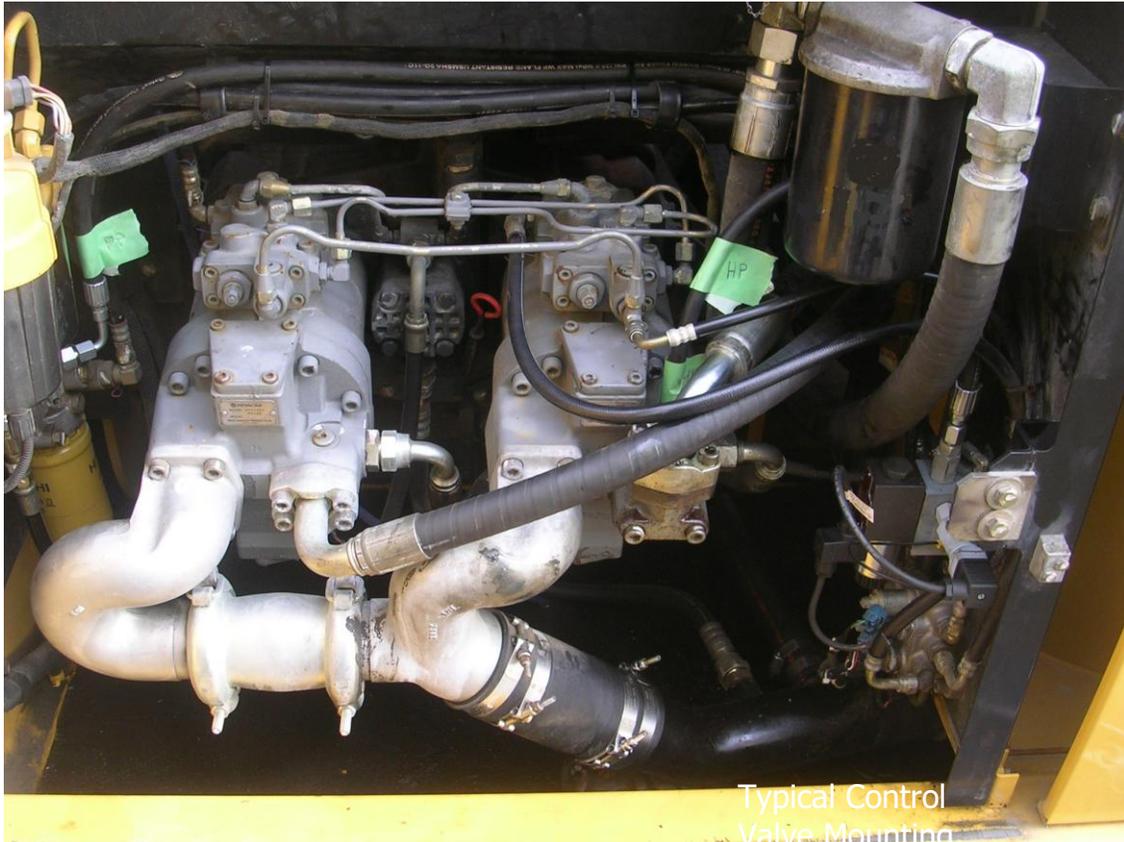


Specific attachments for each specific OEM machine manufacture

Installation Section

Installation of Accurate Hydraulic Kit

Upon purchasing an install kit, you must determine what voltage the machine operates with (12 volt or 24 volt) and order accordingly. (Please refer to page 35 for items included in kit)



Locating the control valve.

(Photo above is a sample only. Location may vary due to different carrier manufacturers)

The hydraulic quick coupler valve is to be mounted in the upper house area of the excavator preferably near the hydraulic pumps, hydraulic tank, and main hydraulic control valve. The quick coupler valve comes with a generic mounting plate and mounting bolts that work for most applications. Alternate mounting at installers' discretion may apply. Orient the valve in such a way to allow the easiest fit into the hydraulic and electrical systems of the excavator. The valve may need to be removed from the mounting plate for hose and adapter installations. Before loosening any hydraulic connections, all hydraulic pressure **MUST** be relieved from the circuit.

All connections to Accurate valve block are -04 JIC except to Pilot pressure `IN' port which is -06 JIC.

Hydraulic Connections (See Diagram & Photos on Next Page)

Pilot Pressure Source required **500 psi - 1100psi** (This pressure must remain constant). See page 9 example.

For systems with insufficient pilot pressure, a second system pressure line should be installed with a pressure-reducing valve. Contact Dealer.

Full System Pressure Source required **5000-6000 psi max range**. See page 9 example.

Connection Data

Connect Pilot pressure to manifold port **PP** (-6 JIC). See page 9

Connect System pressure to manifold port **HP** (-4 JIC). See page 9

Connect **T** to tank. If no extra ports are available at the tank, you may tee into one of the existing return lines at the tank. See page 9

Connect manifold port **EXT** to the Extend port of the cylinder marked EXT

Connect manifold port **RET** to the Retract port on the cylinder marked RET

Note:

The hydraulic quick coupler utilizes pilot pressure from the excavator hydraulics pilot pressure system and maintains the wedge bar in the engaged or retracted position when the solenoid valve is in neutral. The blind end of the cylinder is vented through the P port to tank.

When the solenoid valve is energized, system pressure at port **HP** is directed through the (EXT) port to the piston end of the cylinder to disengage the wedge bar. The rod end of the cylinder is vented to tank through the (RET) port.

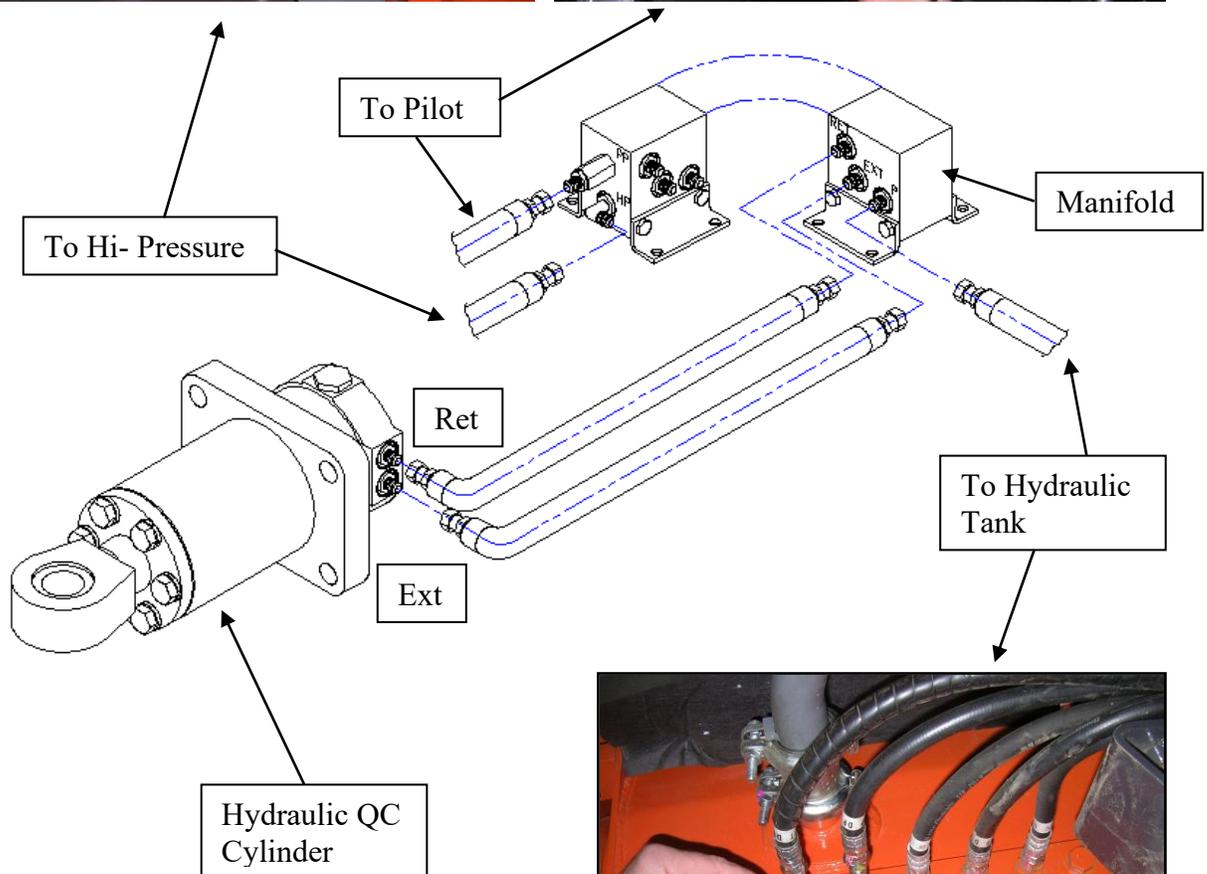
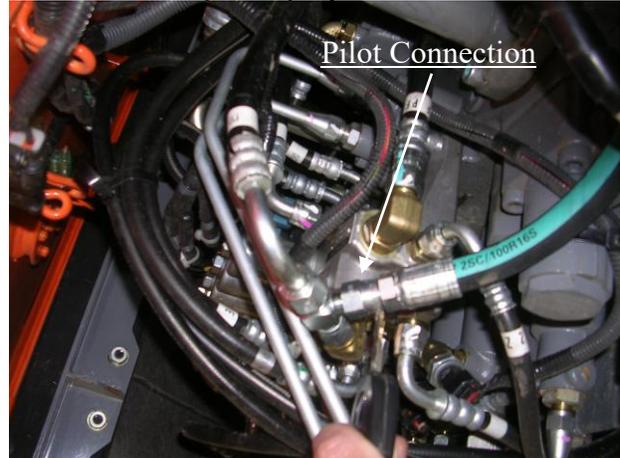
Refer to the Hydraulic Diagram (page 10) for complete details regarding connections.

Hydraulic Connections

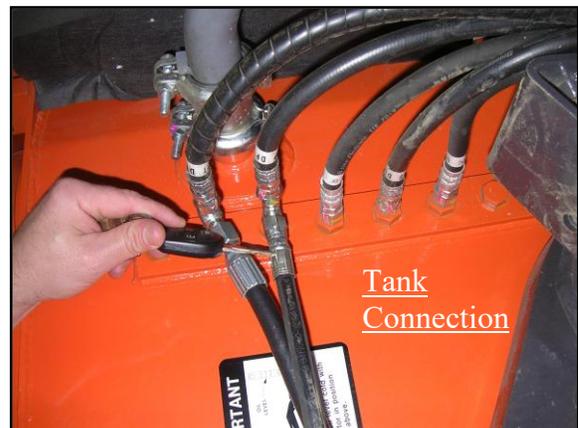
HP Source (example)



PP Source (example)

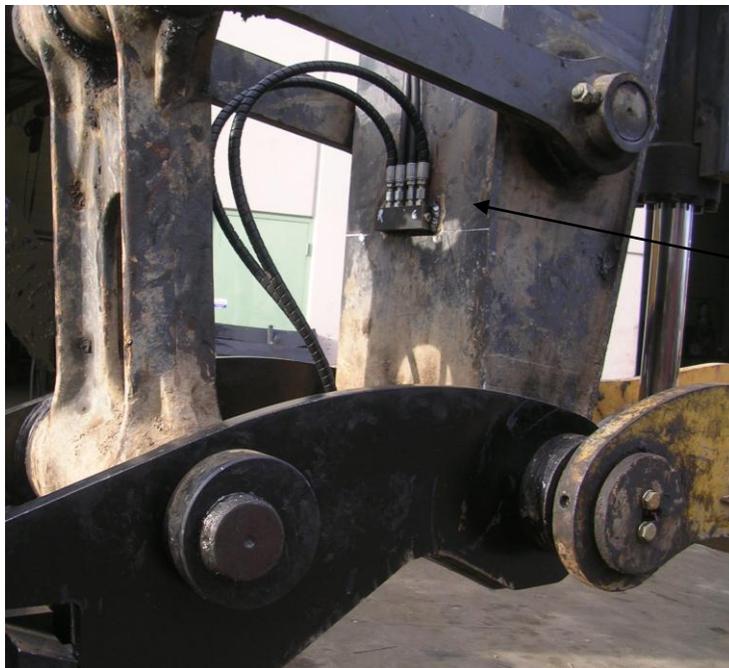
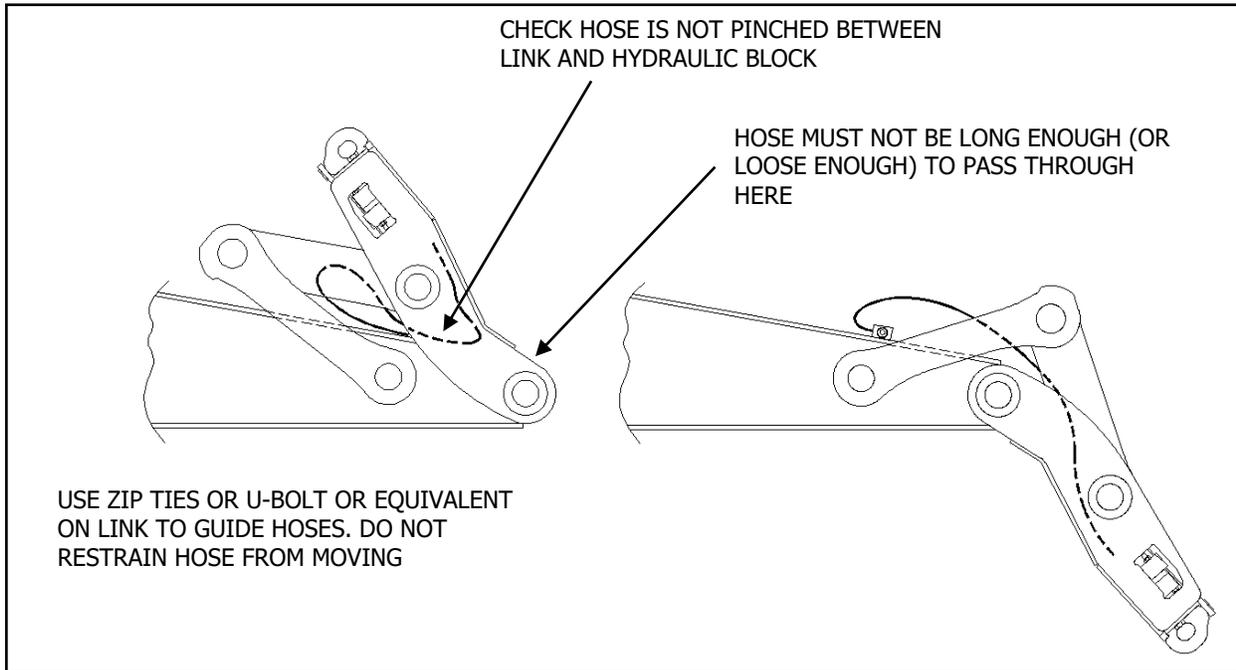


Photos above are sample only. Location may vary due to different carrier manufacturers



Jump Hose Routing Recommendation

Install jump hoses and fittings (not supplied) between supplied coupler and turnaround block. Hoses will be the same length. Both the turnaround block and cylinder ports will require -04 ORB connections. Use one standard and one long straight fitting at the cylinder.



Turn around block (P/N 00002278) is typically mounted in this area at installers discretion based upon pinch points & preferred hose lengths.

Control Box Installation

Select a suitable area in the operators' cab of the excavator to install the hydraulic quick coupler control box. A location easily accessed by the operator when they are seated is suggested. However, must be far enough away from joystick control to safely activate open and close function and not prematurely bump a joystick. The control box has 4 mounting holes for screws or bolts to facilitate installation. Alternate bonding 3m product and location is acceptable provided hand controls to operate machine are accessible. The control box has two 16/2 wiring harnesses coming out of it. Connect the **WHITE** wire from the harness with the straight chrome connector to the fused run side of switch (NOT auxiliary), and the **BLACK** wire to a suitable ground. Electrical power must run from the machine source through the fuse or circuit breaker and then to the quick coupler release switch. Run the wire harness with the straight molded connector out to the hydraulic quick coupler control valve.

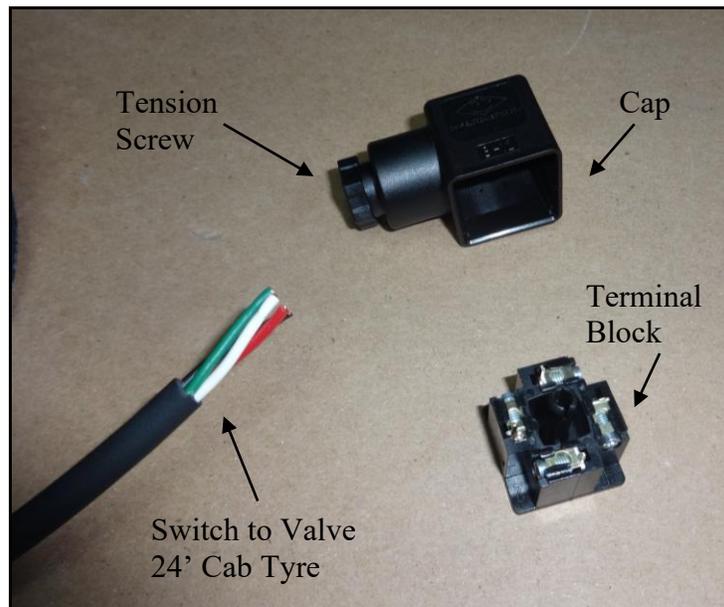


Typical Control Box Location, door pillar or boom side window

Electrical connections at the Solenoid Valve

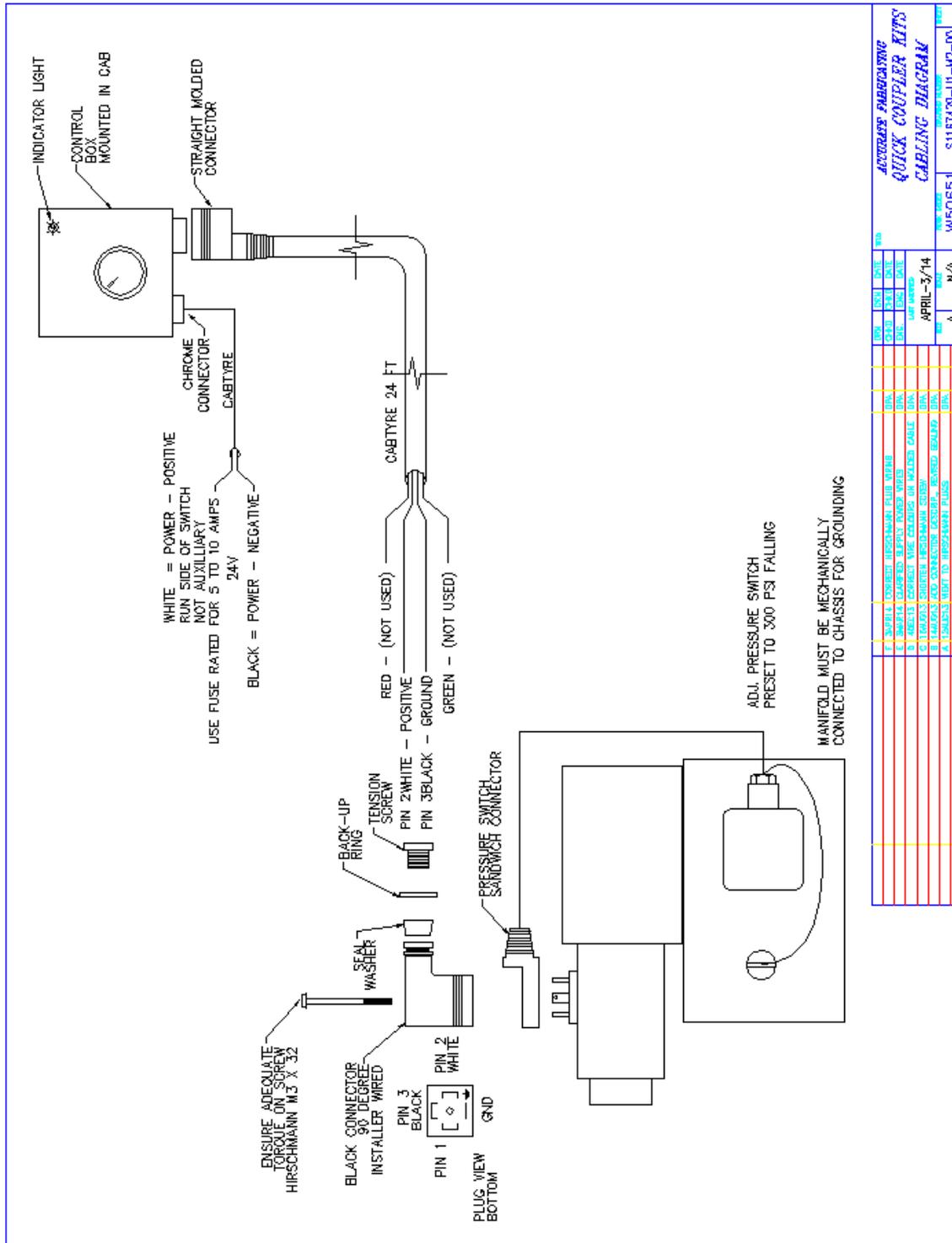
Ensure you have the correct voltage kit (12 Volt or 24 Volt).

Connect the wiring harness to the control using the supplied DIN connector. Loosen the screw on top of the DIN connector cover and remove the cover from the control valve.



Use a small screw driver to remove the terminal block from the cap. Run the wires through the cover and connect to the block. Connect the white wire to pin #2 on terminal block and the black wire to pin #3 on terminal block. (note that the red wire and green wire are not used). It is recommended to solder connections. Re-install the block into the cap and fasten the DIN connector to the solenoid control with the screw. Snug up the tension screw. See Cabling Diagram and Wiring diagram for more detail (pages 14-15.)

Cabling Diagram (Install Instructions)



REV	DATE	BY	CHKD	DATE	BY
1	APRIL-3/14	W50651			
ACCURATE FABRICATING QUICK COUPLER KITS CABLING DIAGRAM					
W50651 31187423-V1-M2-10					

Operation Section

Operation of Unit

Ensure all the electrical wires and hydraulic lines have been secured and tightened. Check the hydraulic oil level and top it up if required. With everyone clear of the machines operating area, start up the machine and run at low idle. Test all functions for proper operation and clearance for the hoses. Shut down the machine and then check for leaks or pinch points. Tighten or alter routing of hoses or wire as required. Recheck hydraulic oil level and add if required.

Checking the Function of the Control Box

1 – Machine key switch ON (run side of switch, NOT auxiliary), engine OFF:

- Control box switch in closed mode
- Pressure switch contacts are closed, buzzer is ON, LED is ON, valve is OFF.

2 - Engine running:

Control box switch in closed mode:

- When the pilot pressure is greater than 300psi, the pressure switch contacts are open, the buzzer is OFF, and the LED is OFF. Valve is in constant pilot pressure mode.
- If the buzzer remains on, the pilot pressure maybe too low. (Contacts for pressure switch are closed). Lock may not engage.
- Pilot pressure is supplied to the rod end of the cylinder, engaging the wedge bar.

Control box switch in open mode:

- The buzzer is ON, LED is ON, and the valve is in high pressure mode.
- System pressure is applied to the blind end of the cylinder, releasing the wedge bar.



3 - When the buzzer is ON, and the LED is ON, it indicates that **EITHER** the control box switch is in open mode or that there is low pilot pressure.

Quick Coupler Operation

Start the engine and the alarm will sound for approximately 10 seconds before going quiet. This is normal. The alarm will sound until the operational pressure gets above 300psi +/-10psi, assuming the cab switch is in the closed position.

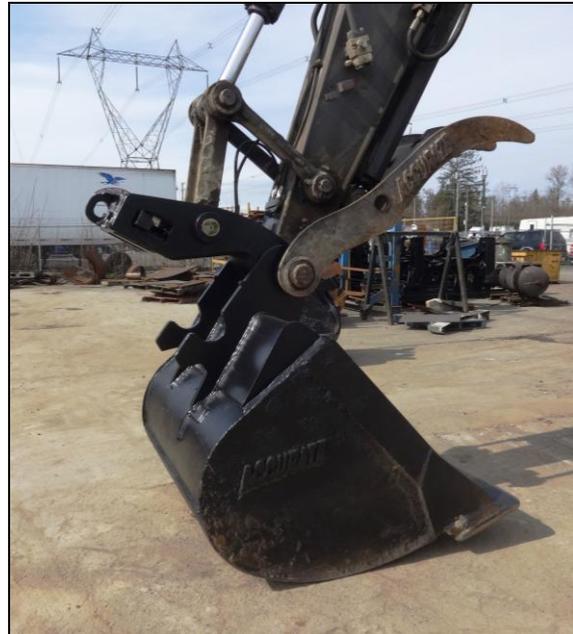
To Pick up an Attachment

CAUTION 

No one should be within 25 Ft of the Hydraulic Quick Coupler during testing of the attachment engagement.

Refer to photos below for the following steps.

1. Maneuver the coupler to the attachment.
2. Exit the machine and remove the safety key. It can be placed on the stowage bracket on the coupler or retained in the operator's possession.
3. Return to the cab and turn the switch to the OPEN position. The alarm will sound. The wedge bar **begins** to retract (and will stay retracted) for engagement. **Total disengagement takes approximately 10 seconds.**
4. After 10 second delay of turning switch to open position, engage the stick nose end of the coupler into the attachment lugging.
5. Rotate the coupler into the rear of the lugging using the tool cylinder. Allow the attachment to be lifted off the ground. Fully curl the attachment towards the cab so that you can clearly see the wedge & wedge bar surface of the lugging.
6. Flip the switch to the CLOSED position. The alarm will turn off immediately and the wedge bar will **begin** to engage the lugging. This is visible from the cab with the attachment curled toward it. **Total engagement takes approximately 10 seconds.**
7. Rotate and jiggle the attachment to ensure it is properly engaged.
8. You **MUST** then exit the machine and replace the safety key. (failure to replace the safety key can result in serious injury or death).





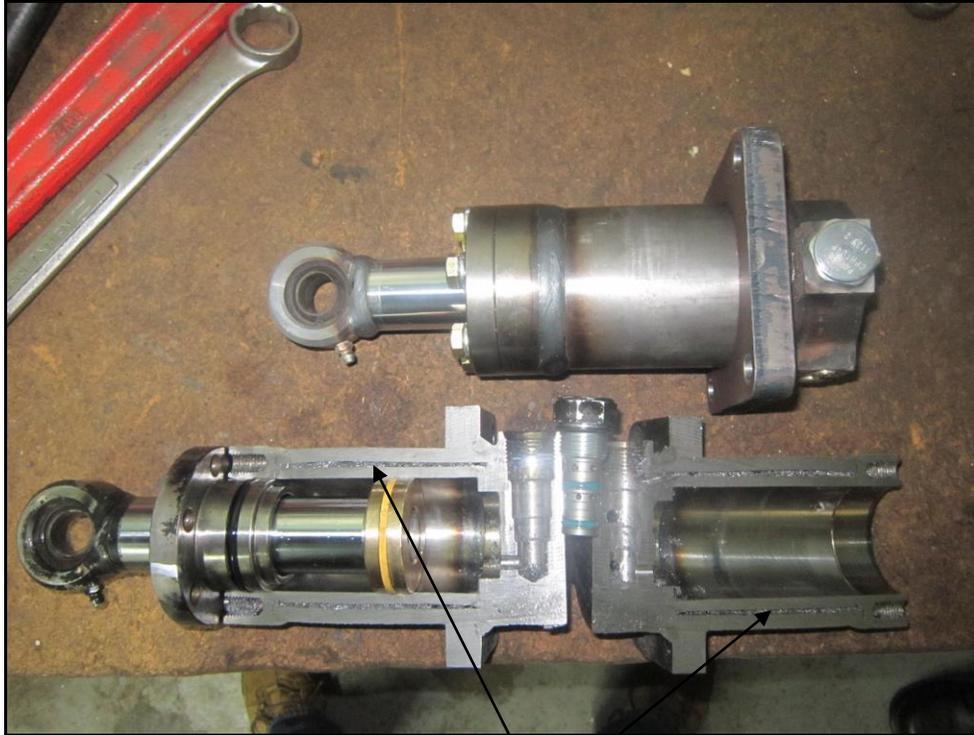
NOTE: The operator must wait for the wedge bar to fully retract before engaging the coupler into the attachment. Premature timing of the wedge bar moving to the “closed” position will subject the coupler to clipping the attachment lugging with the wedge bar. This causes hydraulic pressure spikes which will damage the hydraulic cylinder, bend and/or misalign guide tracking bolts. See photos below.



Wedge Bar Not Fully Retracted



Wedge Bar Not Fully Retracted & Interfering with The Top of The Attachment Lugging



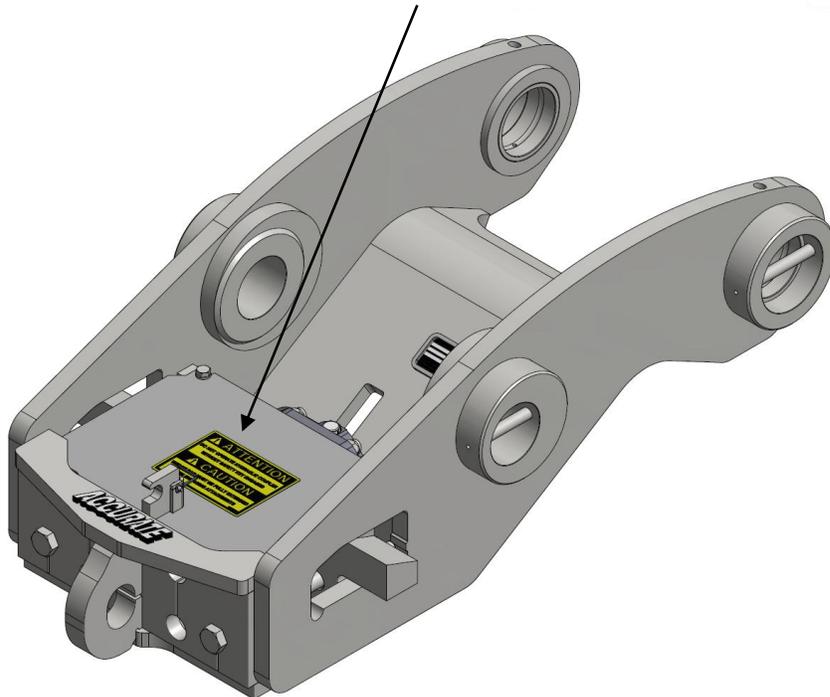
Cylinder Damage

Hydraulic pressure spikes will cause the cylinder barrel to "balloon" and damage the cylinder

To Release an Attachment

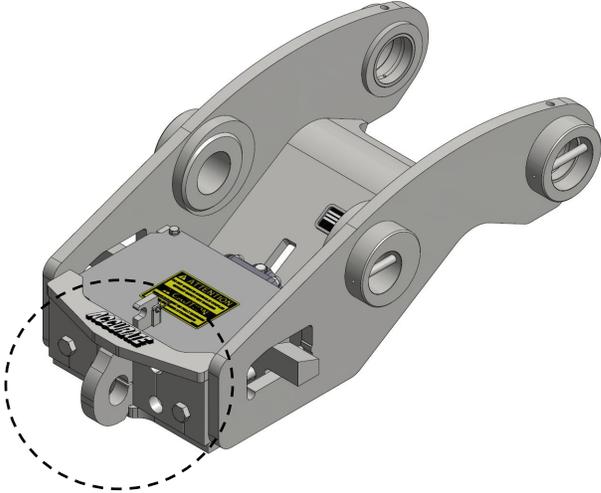
1. Exit the machine and remove the safety key. It can be placed on the stowage bracket on the coupler (see pages 22 & 39), or retained in operator's possession.
2. Lift the attachment slightly off the ground and fully curl it towards the cab. **This takes the load off of the wedge bar.**
3. Perform a **wedge bar release and re-engagement** by turning the switch to the OPEN position. The alarm will sound. Once the wedge bar **begins** to retract turn the switch back to the CLOSED position. **Total engagement takes approximately 10 seconds.**
4. Maneuver the attachment to a safe place to be released and lowered to the ground.
5. Turn the switch to the OPEN position. The alarm will sound. The wedge bar **begins** to retract (and will stay retracted) for engagement. **Total disengagement takes approximately 10 seconds.**
6. Using the tool cylinder, rotate the coupler away from the rear of the lugging.
7. Maneuver the stick nose end of the coupler away from the lugging.
8. The machine is ready to pick up another attachment – See **To pick up an attachment** instructions 4-8 on page 18.

Warning Label



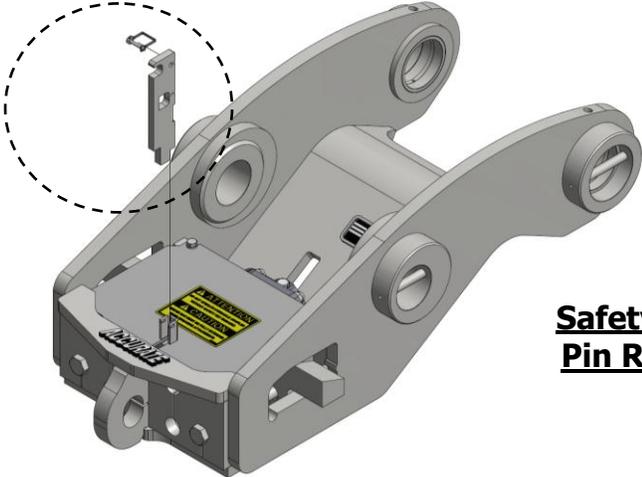
The warning label is affixed to all ACCURATE manufactured hydraulic quick couplers and by law, must be adhered to at all times. Operating the coupler without the safety key engaged, risks the opportunity for injury or death. Accurate reserves the right to not be held accountable when the safety key is altered or not used.

Hydraulic Quick Coupler Safety Lock

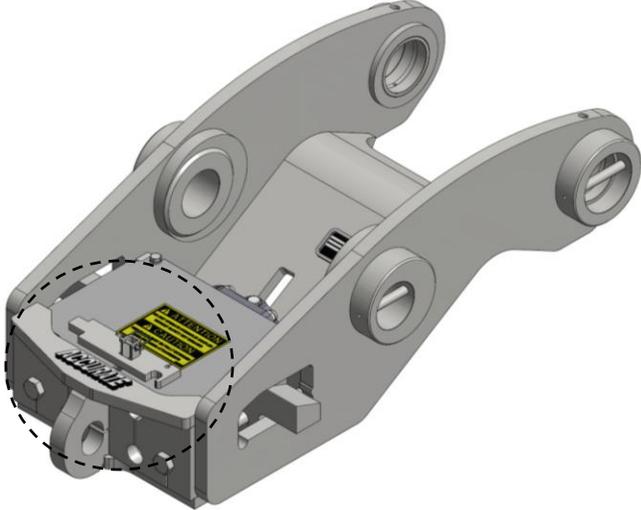


Working Position

Safety Lock MUST always be installed according to Worksafe Law



Safety Lock & Pin Removed



Stored Position

Certified Lifting Eye Capacity

<u>Coupler Class</u>	<u>Capacity (Lbs.)</u>
80	20,000
120	26,000
150-250	40,000
300-400	60,000
650-850	90,000

All connection welds & lifting eyes must regularly be inspected for irregularities due to wear etc. If damage is discovered, it should then be re-inspected by a qualified engineer for further assessment.
Contact Accurate or your local authorized dealer to schedule this.

DANGER 

**Do not operate the machine with the safety key removed!
Failure to replace safety key can result in serious injury or death.**

Maintenance
& Trouble shooting
Section

Maintenance

DANGER

Improper operation and maintenance of the Hydraulic quick Coupler could result in serious injury or death. Read and understand this manual prior to operating and/or maintaining this equipment.

DANGER

Always use the Accurate Fabricating supplied wedge bar safety lock during operation. Failure to follow all safety precautions could result in serious injury or death. Read and understand this manual prior to operating and/or maintaining this equipment.

Maintenance General Information

Only qualified personnel should complete all maintenance and inspection operations.

Prior to all service, maintenance or inspection operations ensure that the attachment is resting on the ground and is properly supported.

Always wear the proper protective equipment when performing maintenance operations.

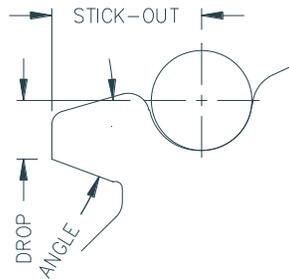
DANGER

The attachment end of the excavator stick, the linkage and attachments contain several pinch points. Stay clear when bucket cylinder is in operation. Properly support all attachments and linkages before performing maintenance or inspections. Failure to do so may result in serious injury.

ATTENTION!

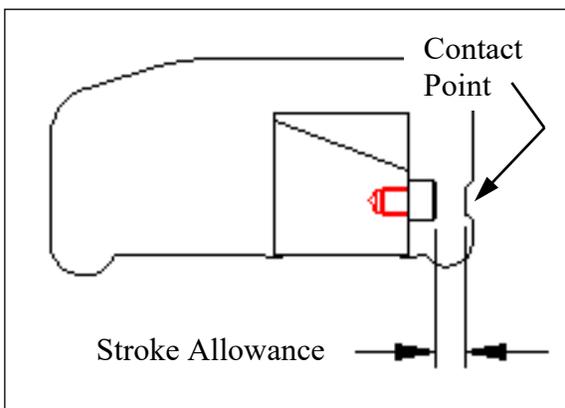
THIS DEVICE IS A PRECISION MECHANISM. IT IS INTENDED TO WORK WITH LUGGING DESIGNED TO OEM SPECIFICATIONS WITH MACHINED CONTACT SURFACES.

LUGGING THAT DOES NOT MATCH THE OEM STICK-OUT, DROP, AND ANGLE, MAY NOT BE COMPATIBLE WITH THIS COUPLER.



USE OF THIS COUPLER WITH HAND GROUND, BURNED CONTACT SURFACES, AND EXCESSIVELY WORN/USED ATTACHMENTS, MAY RESULT IN IMPROPER ENGAGEMENT TO ATTACHMENTS, PREMATURE WEAR ON CONTACT POINTS, OR DAMAGE TO THE COUPLER CYLINDER AND/OR LOCKING MECHANISM COMPONENTS.

USE OF SUCH PRODUCTS WILL PRESENT WARRANTABLE LIMITATIONS AND CAN RESULT IN MACHINERY DAMAGE, PERSONAL INJURY OR DEATH.



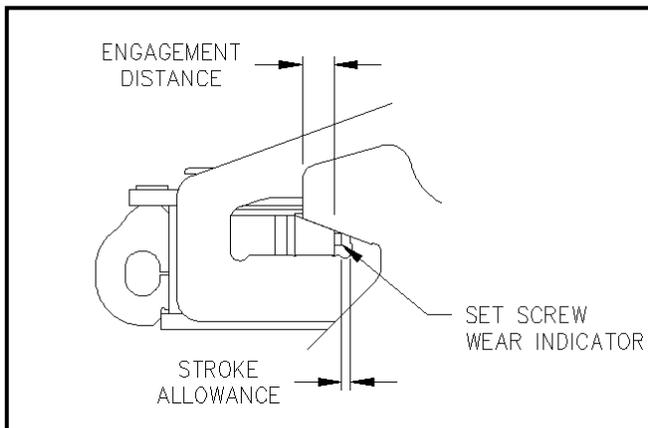
If contact occurs due to old lugging, worn lugging, etc, the coupler hubs, wedge bar faces, and lugging will rapidly pound out in a very short time from when first contact occurs.

Do not allow contact to occur between wear indicator (set screw) and contact point when engaged to attachment lugs. See page 27.

Daily Coupler Inspections (Static):

Perform visual daily inspections on/for all of the following items, without the Hydraulic Quick Coupler being engaged to an attachment, machine rpm at low idle, and the machine's hydraulic safety engage lever in the off position:

- 1) Structural integrity of the Hydraulic Coupler and its' accompanying components. Inspect all welds and components for cracks or damage. Contact Accurate Fabricating for recommended repair and welding procedures before repairing any welds.
- 2) Excessive wear on components that would impede or impair proper operating procedures.
- 3) Quick coupler bosses that show signs of wear which reduces the original boss diameter by more than 1/32" will require rebuilding or replacement.
- 4) Hydraulic components (hoses, hose ends, fittings, valves, cylinders) and connections for leakage or damage.
- 5) Quick Coupler cylinder for structural integrity, weld cracks or damage as well as its anchor points.



6) Over time the wear surfaces of the coupler will require maintenance. The surfaces should be built-up with weld and dressed with a grinder to provide an even wear surface. No more than 1/8" (3mm) wear per surface should be allowed before repairing. There are also (2) set screw indicators on the front of the wedge bar. Once the set screws contact the coupler side plate, the surfaces will need to be built up and repaired.

In all cases, the coupler should be repaired before any attachments. Once the coupler surfaces are built-up, check its operation with the **least worn** attachment lugging. Ensure that the wedge bar engages parallel to the rear of the coupler $\pm 1/16$ (2mm) from side to side. See the following table for engagement distance. Once the coupler is deemed to be satisfactory, build-up the attachment(s) lugging wear surface as required. Refer to the diagram above and the following table for proper wedge bar engagement with OEM specification lugging. See CAUTION on page 26.

Quick Coupler Series	Engagement Distance (inches)	Stroke Allowance (inches)
80 Series	1 1/8	3/8
120 Series	1 1/2	5/8
150 Series	1 1/2	5/8
200 Series	1 9/16	3/4
250 Series	1 9/16	5/8
300 Series	2	1/2
400 Series	2	5/8
650 Series	3 3/16	N/A
850 Series	3 3/16	N/A

DANGER 

Any cracks or component damage must be repaired by a qualified technician prior to any and all operation of the Hydraulic Quick Coupler. Failure to repair damaged or worn components may result in serious injury or death.

WARNING 

When inspecting the hydraulic components for damage, ensure the proper Protective Equipment is being used and the machine's hydraulic engage function has been disengaged.

DANGER 

All hydraulic leaks or damage must be repaired prior to any and all operation of the Hydraulic Quick Coupler. Failure to repair damaged or worn components may result in serious injury or death.

7) Check Bolts for tightness and installation.

8) Check Wedge Bar Pin for structural integrity, cracks and damage.

9) Keep the wedge bar area of the quick coupler free of dirt, debris, or foreign material. Remove the wedge bar cylinder compartment guard as necessary to clean out any unwanted materials. Reinstall guard before operating.

10) Ensure Wedge bar safety lock and safety lock retaining pin are on the coupler and are in proper working condition. Also check the condition of the retaining pin tabs on the coupler.

Daily Coupler Inspections (Dynamic):

Perform visual daily inspections on/for all of the following items, without the hydraulic quick coupler being engaged to an attachment, machine rpm at low idle, and the machine's hydraulic engage lever in the on position:

DANGER

When performing inspections with equipment in a fully operable condition ensure all personnel/objects are at the recommended O.E.M (Original Equipment Manufacturer) safe working distance from the operating area of the machine. Conduct all inspections on flat, dry ground where the equipment and all attachments are properly supported. Failure to comply may result in property damage, serious injury or death.

- 1)** Manipulate the boom, stick and bucket hydraulics to allow for a clear, visual inspection of the hydraulic quick coupler in operation. Optimum position is the bucket in full curl to view the wedge bar from the operators seat in cab and the bucket at eye level.
- 2)** Flip the wedge bar activation switch to the open position to disengage the wedge bar.
- 3)** Verify that the wedge bar is moving to a disengaged position.
- 4)** Flip the wedge bar activation switch to the closed position to engage the wedge bar.
- 5)** Verify that the wedge bar is moving to the engaged position.
- 6)** Repeat this procedure twice prior to engaging any attachment to ensure that the hydraulic quick coupler is functioning properly.
- 7)** When you manually insert the safety lock and install the keeper pin (to prevent safety key disengagement), be sure to visually check that the stroke allowance set screws do not contact the attachments. This should be checked each time an attachment is changed.

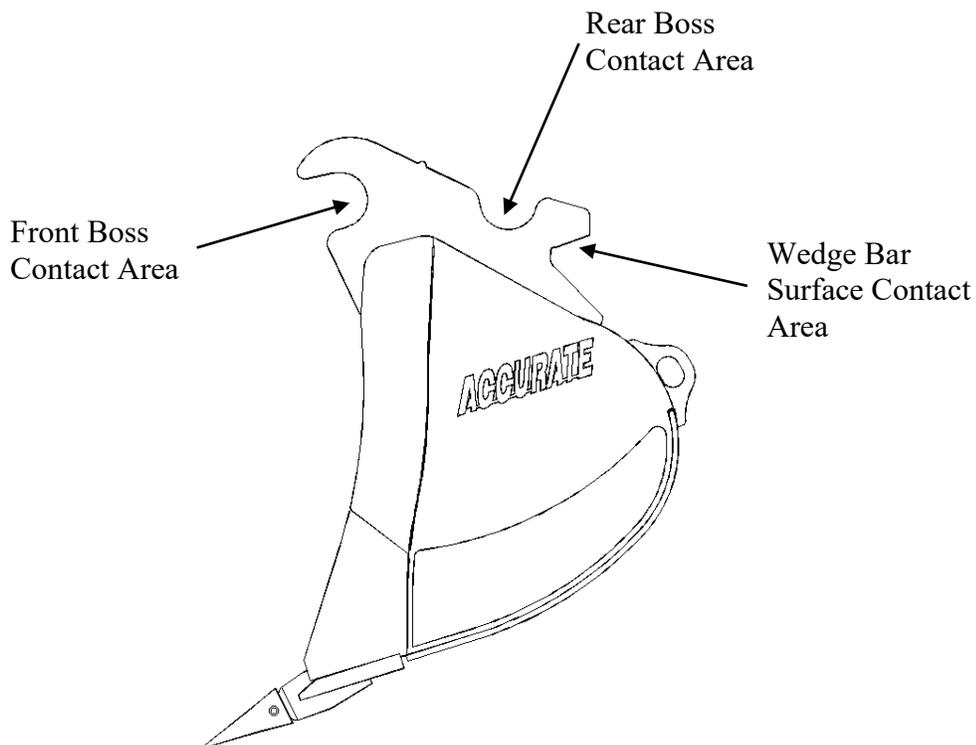
DANGER

If the hydraulic quick coupler is not functioning properly you must stop immediately, have it checked and/or repaired by a qualified service technician before attempting to use the quick coupler or any related attachments. Failure to comply may result in property damage, serious injury or death.

Daily Bucket/Attachment Inspections (Static & Dynamic):

Check the fit of the hydraulic quick coupler into all corresponding attachments. The wedge bar to lug, front boss into rear diameter of lug saddle, and the rear boss into front bottom quadrant of rear saddle. Surfaces should all be contacting and fitting tightly. There should be no movement between a correctly connected coupler and its respective attachment lugs. If movement exists check the quick coupler and the attachment lugs for possible contact interference and/or premature wear. Any attachment lugs that are cracked or worn more than 1/32" on any critical surface will require repair or replacement.

Key Hydraulic Quick Coupler to Lug Contact Points



DANGER

Any cracking or component damage must be repaired. Upon finding damage the unit MUST be removed from service immediately & repaired by a qualified technician. All worn components or missing parts must be replaced prior to all operation of the Hydraulic Quick Coupler. Once the technician has deemed it safe & fully operational it may then be returned to service. Failure to repair or replace damaged or worn components may result in equipment malfunction, serious injury or death.

Regular Maintenance Procedures

Description	Daily	Weekly	Monthly
Grease bushings	✓✓✓✓		
Clear debris from coupler via access holes	✓∞		
Inspect coupler/wedge bar/lugging contact surfaces	✓**	✓	
Check Fastener tightness	✓**	✓	
Clear debris build-up under cover	✓	✓	✓
Grease Guide Bolts			✓
Adjust/Align Guide Bolts	✓	✓	✓

∞ Especially in freeze/thaw climate

** If using a Compactor/Hammer

Troubleshooting – Electrical followed by Hydraulic

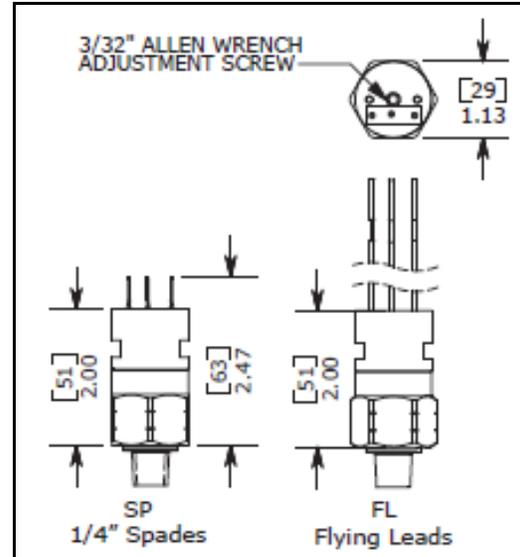
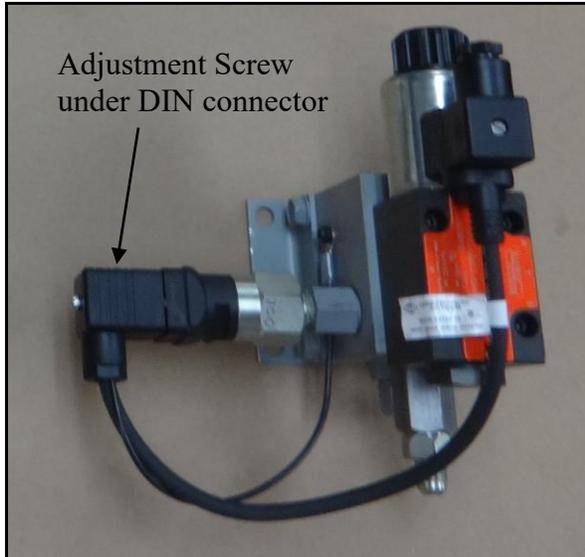
Check Hookups First. See pages 7, 8, 9.

If the coupler fails to operate properly after installation is complete, check electrical and hydraulic circuits to assure that installation is correct, followed by checking that pressure settings at cylinder are correct.

	Symptom	Possible Cause(s)	Remedy
At Installation	No alarm at start up	<ul style="list-style-type: none"> • Check that proper wiring connections have been made at the valve assembly • Pressure switch 	See page 12-13 For quick ref see cabling diagram page 14 For full electrical diagram see page 15
	Alarm will not shut off	<ul style="list-style-type: none"> • Pressure loss • Improper pressure switch settings. See adjustment below. • Cylinder Check-valve 	See page 8 See page 33 See page 9
In Operation	Alarm will not shut off	<ul style="list-style-type: none"> • Pressure loss 	Blown hose. Check valve operating pressure. See page 8
	Attachment cannot be held tight	<ul style="list-style-type: none"> • Excessive wear on coupler and/or attachments • Poor quality lugging see CAUTION page 26 • Worn hubs, wedgebar, lugs 	Check Coupler and lugging engagement. Proper rebuild of contact surfaces required See page 27-28
	Cylinder develops limited travel. Unable to release attachment or unable to pick up attachment tightly	<ul style="list-style-type: none"> • Not waiting for cylinder to fully engage and/or disengage can cause cylinder to `balloon' along body. 	Replace cylinder See page 19-20
	Wedge bar travel tracking and engaging locked	<ul style="list-style-type: none"> • Bent guide bolt • Tightening one side or the other not equally 	Loosen Bolt Loosen and realign

For technical assistance contact ACCURATE at 604-591-6184

Pressure Switch Adjustment



The pressure switch is factory set to 300psi +/- 10psi. If adjustment is necessary, loosen the screw from the end of the DIN connector cover and remove cap. The pressure can be adjusted with a 3/32" allen wrench (see above).

Alarm Conditions

The alarm will sound if either of the following conditions are met:

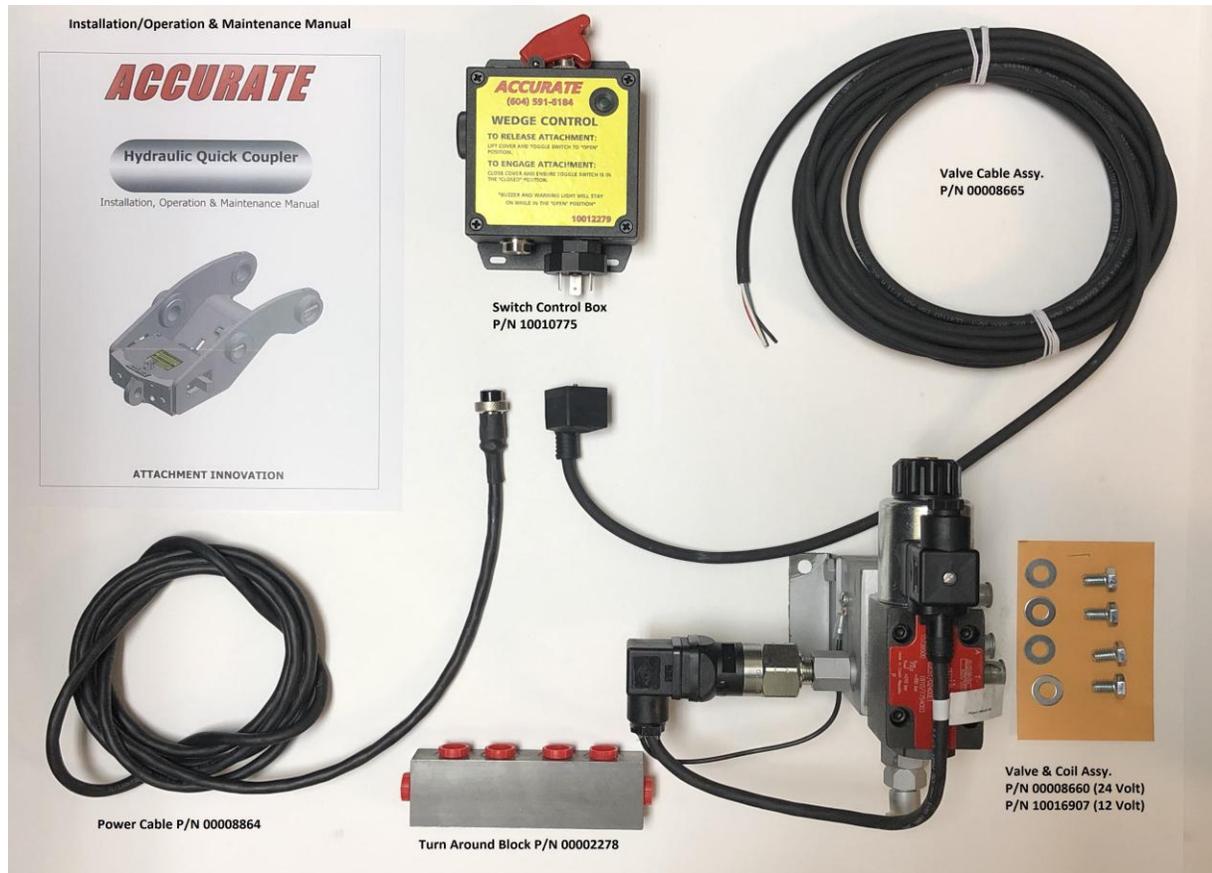
1. The pilot system pressure has not reached 300psi +/-10psi during engine start up.
2. The retract hose (pilot pressure) has been damaged during operation.

Note: The low pressure setting of 300 psi does require an excess pressure build to swing the internal electrical contacts. In some pilot systems, 500 psi may not be reachable and therefore quarter turn increments are acceptable with no more than one complete turn recommended. Stop and call for assistance.

Parts Section

Accurate Installation Kit Contents:

Part Number 10016481 (24 Volt) / Part Number 10016750 (12 Volt)



The Accurate Fabrication Hydraulic Quick Coupler has been designed to be installed using only our Hydraulic Installation Kit components provided (Using Non-Accurate kits can create problems regarding safety & operationally & will void coupler warranty). Inspect and ensure that all components of the Hydraulic Installation kit are correct and are not damaged. Report all shortages or damaged components to Accurate immediately for replacement.

Installation Kit:

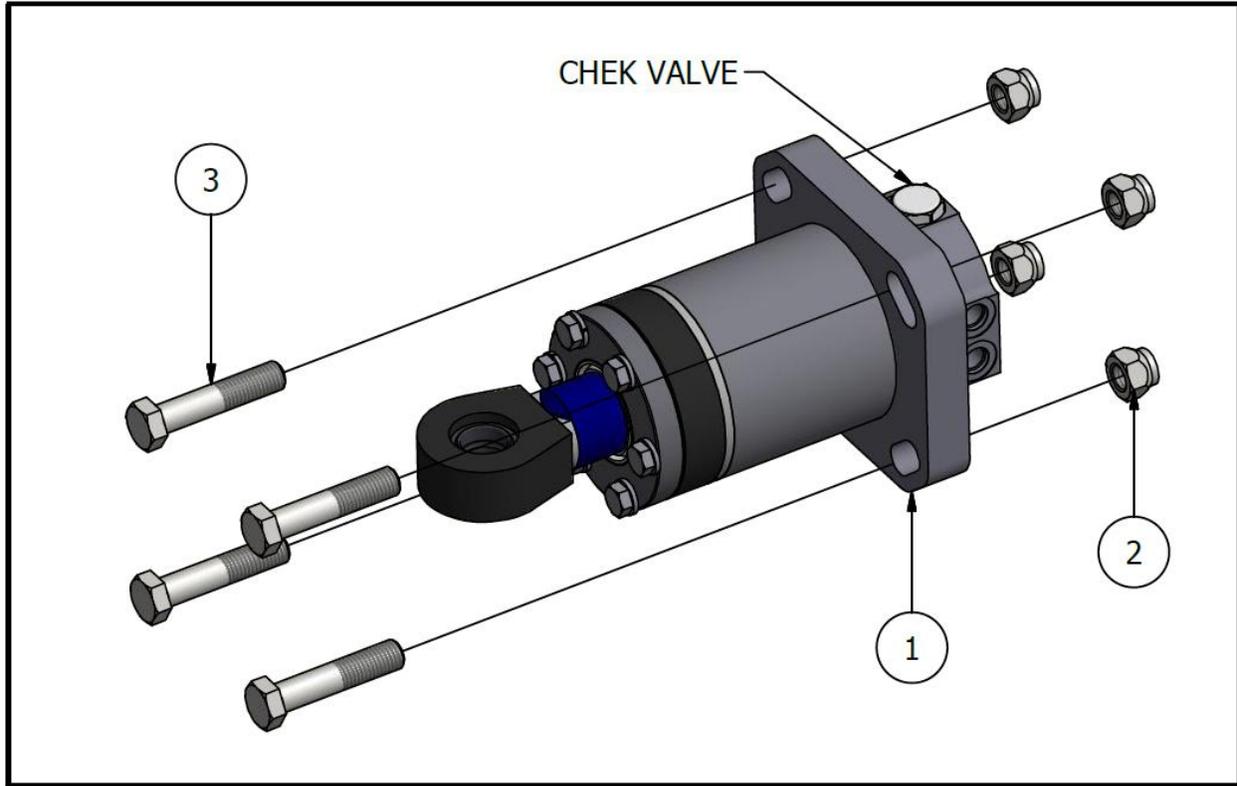
- P/N 10010775** - Switch Box with buzzer, LED, and yellow "caution" label.
- P/N 00008664** - 6' Power supply cable (Chrome straight connector).
- P/N 00008665** - 24' Switch to valve wire assembly (Black straight connector).
- P/N 00002278** - Turn around hose block (Mounts to back side of dipper stick).
- P/N 00008660** - Control Valve Assembly (See the Following Details). -

Control Valve Assembly P/N 00008660 (24V) & 10016907 (12V) are preassembled with:

- P/N 10026169 - Manifold block, D01 Valve Base Stand
- P/N 00007087 - D01 valve c/w DIN connector
- P/N 00008643 - Pressure switch
- P/N 00008634 - Pressure switch harness, sandwich connector to solenoid and ground
- All fittings (4) -04 JIC (1) -06 JIC

Parts Identification Drawings

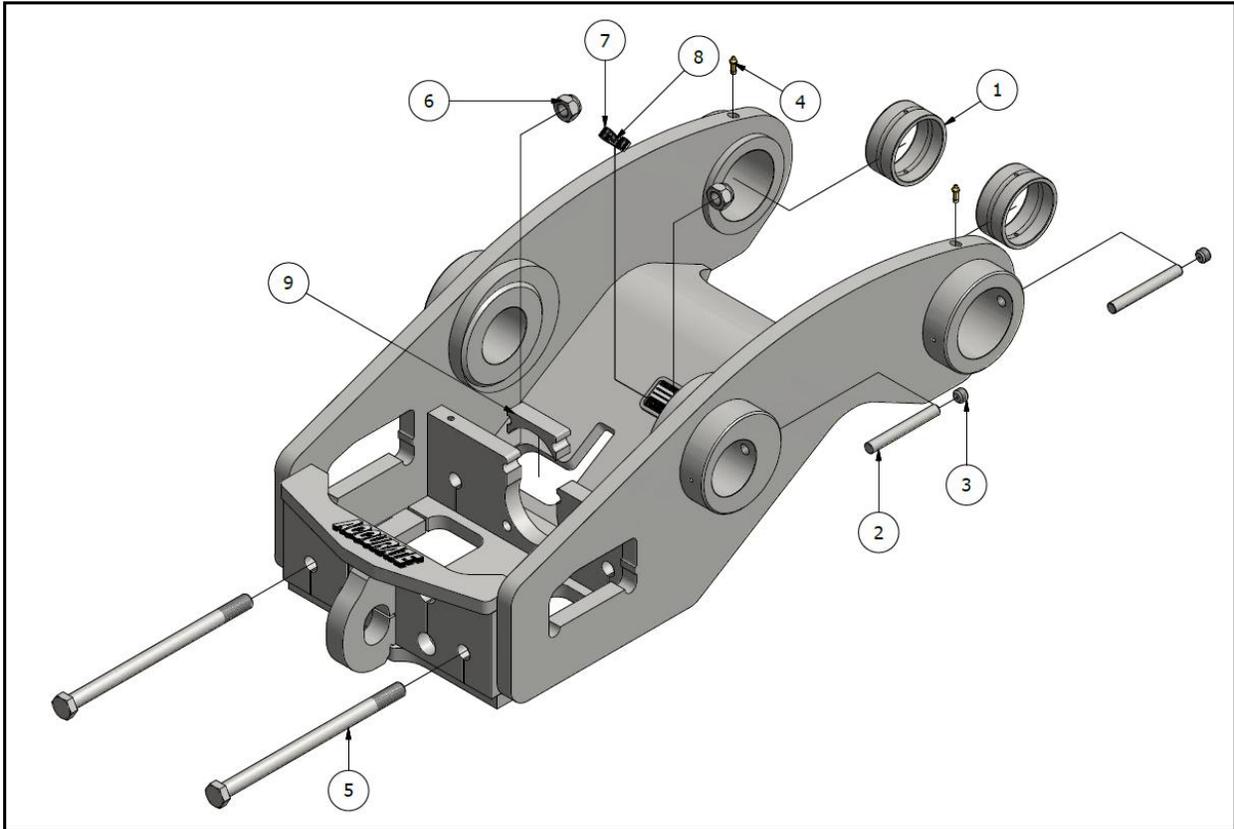
Hydraulic Cylinder



Item #	Description	Part #
1A	CYL QC (80 Series)	00007896
1B	CYL QC (120-250 Series)	10009105
1C	CYL QC (300-400 Series)	00006405
1D	CYL QC (650-850 Series) 2 REQ'D	00004052
2	NUT STOVER	
3	HHCS GR8 PLTD	
	CHECK VALVE (80 Series)	00010526
	CHECK VALVE (120-400 Series)	00010126
	NO CHECK VALVE IN 650-850 SERIES	

REFERENCE ONLY

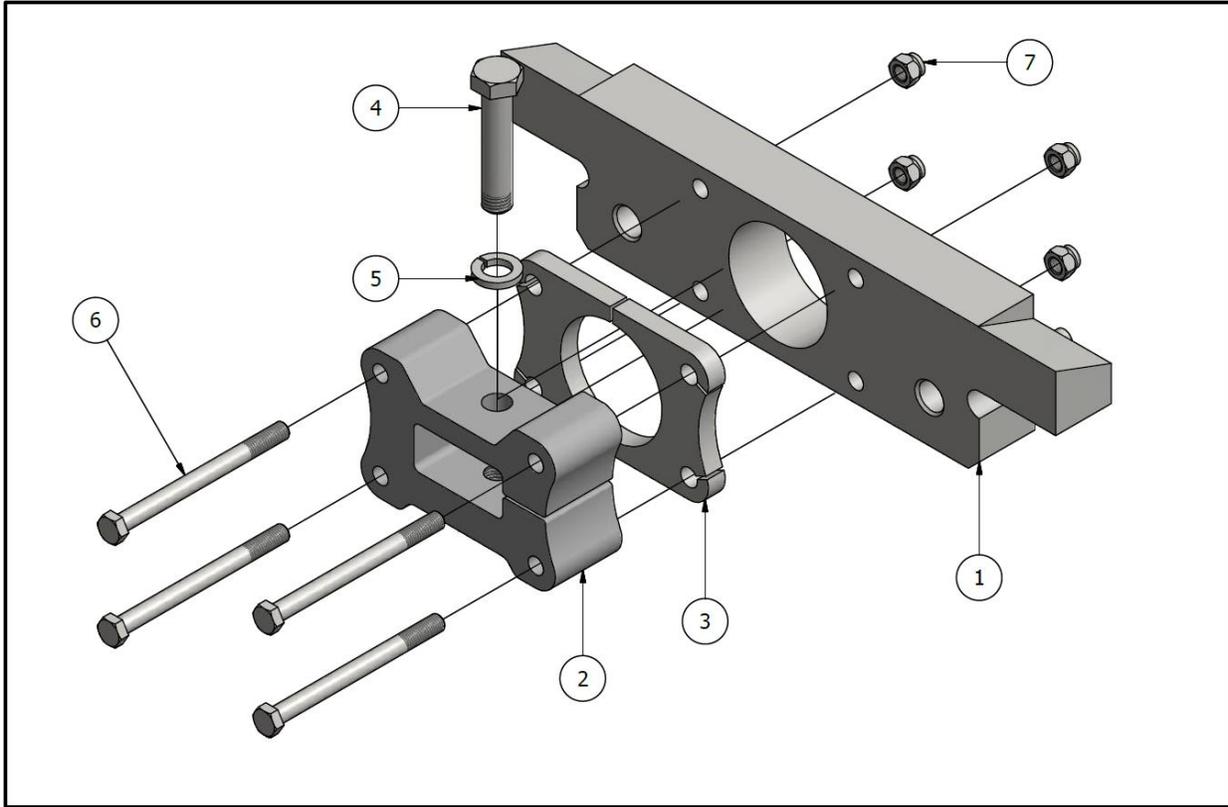
Quick Coupler Hardware



Item #	Description	Part #
1	BUSHING	
2	QC KEEPER PIN	
3	SHSS CP BLK	
4	GREASE NIPPLE	
5	HHCS GR8 PLTD	
6	NUT STOVER	
7	SUPPORT CLAMP (P-CLIP)	
8	NUT HEX PLTD GR8	
9	SPACER-CYL PLATE	

REFERENCE ONLY

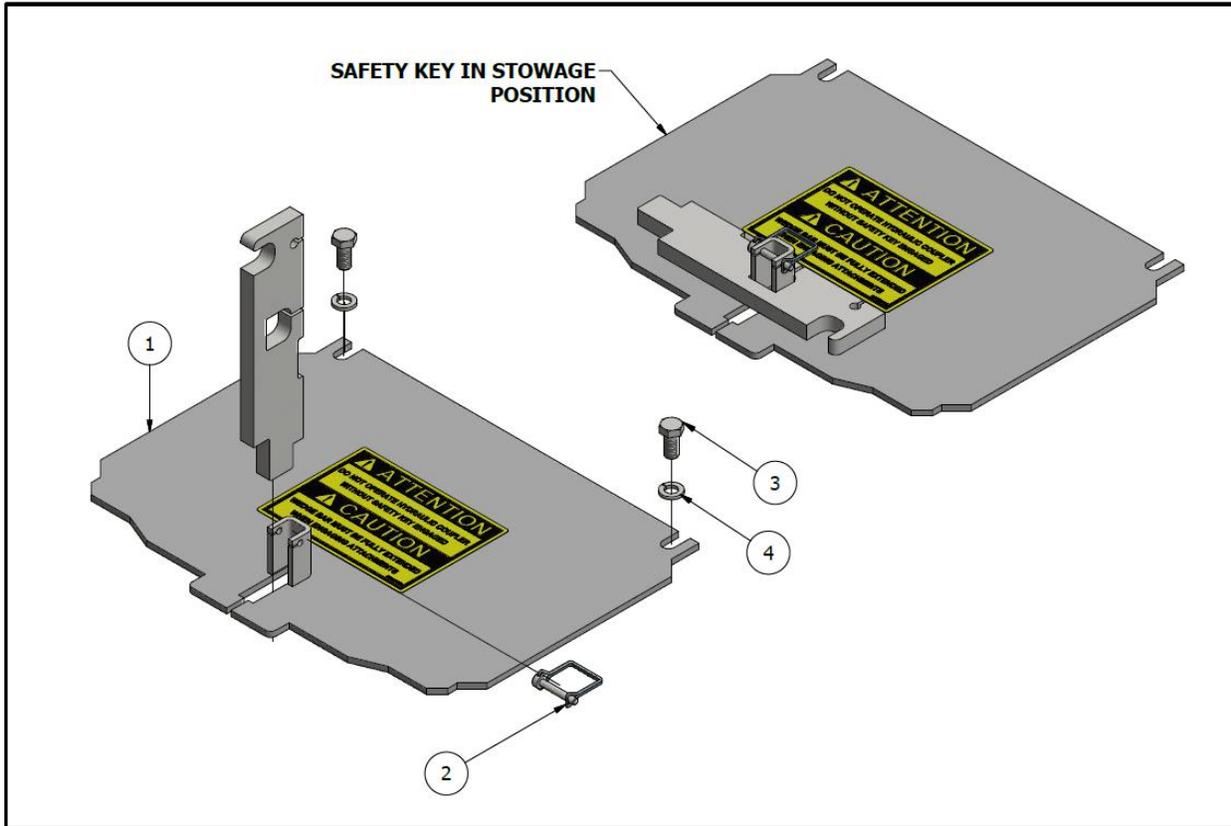
Wedge Bar Assembly



Item #	Description	Part #
1	WEDGE BAR HYD	
2	QC WEDGE HYD CYL BLOCK	
3	QC WEDGE HYD CYL SPACER	
4	HHCS GR8 PLTD	
5	WASHER LOCK SPLIT STD PLTD	
6	HHCS GR8 PLTD	
7	NUT STOVER	

REFERENCE ONLY

Cover Plate and Safety Key



Item #	Description	Part #
1	COVER PLATE	
2	HITCH PIN ASSY 0.875 X 7.000 QR	
3	HHCS GR8 PLTD 1/2-13 UNC X 1.000	
4	WASHER LOCK SPLIT STD PLTD 1/2	

REFERENCE ONLY

***ACCURATE* Fabricating Ltd.**
Superior Excavator & Wheel Loader Attachments

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