



REPAIR MANUAL

TOOLS AND COUPLERS



435
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TOOLS AND COUPLERS - J

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TOOLS AND COUPLERS - J

CARRYING Unarticulated tools - 50.B

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TOOLS AND COUPLERS - J

CARRYING Unarticulated tools - 50.B

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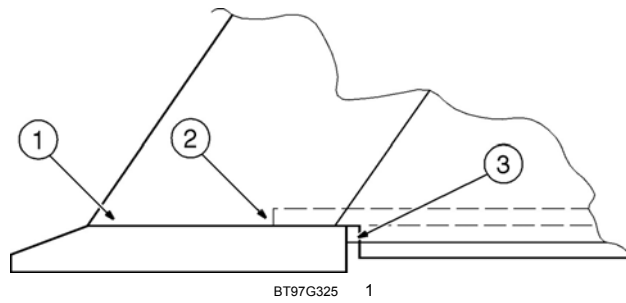
Tool

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Tool Bucket - General specification (J.50.B.60.62 - D.40.A.10)

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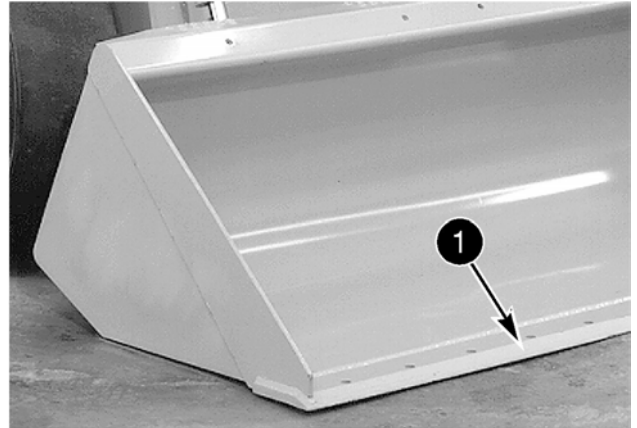


1. 10 mm (3/8 in) fillet (weld twice 1 root pass 1 cover pass)	3. 6 mm (1/4 in) groove 6 mm (1/4 in) fillet (weld twice-wrap ends)
2. 6 mm (1/4 in) fillet (weld 4 times)	

Tool Cutting edge - Replace (J.50.B.60.64 - F.10.A.30)

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1. To replace welded cutting edges, raise the bucket to an acceptable height and place supports to hold the bucket in position.
2. Use carbon arc rod or an acetylene torch to remove the welds that hold the cutting edge. Be careful not to distort the bucket while cutting the welds.
3. When removing the weld at the rear of the cutting edge, do not cut through the bottom of the bucket.
(1) Cutting edge to be removed



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4. After the cutting edge has been removed, use a grinder to remove any welds or extra metal on the bucket that will prevent a new cutting edge from fitting correctly.
5. Position a new cutting edge on the bucket. Use C-clamps to hold the cutting edge in proper position.
6. See **Tool Bucket - General specification (J.50.B.60.62 - D.40.A.10)** for weld specifications for the bucket being repaired. Use E7018 welding rod or equivalent welding wire.
7. To replace bolt-on cutting edges, raise the bucket to an acceptable height and place supports to hold the bucket in position.
8. Remove the nuts, plow bolts, and **1860 mm (73 in)** cutting edge from the bucket.
9. Install the new **1860 mm (73 in)** cutting edge, plow bolts and nuts to the bucket.

TOOLS AND COUPLERS - J

CARRYING Unarticulated tools - 50.B

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TOOLS AND COUPLERS - J

COUPLING Hydraulic coupling - 80.C

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COUPLING Hydraulic coupling - 80.C

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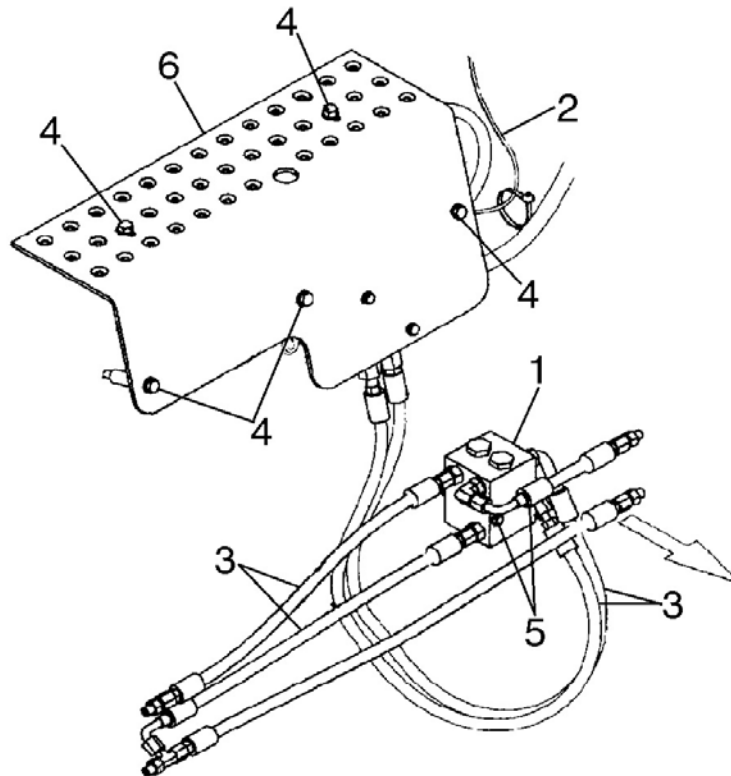
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Command valve Solenoid - Remove (J.80.C.12.05 - F.10.A.10)

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1. Loosen and remove the mounting bolts (4) from the upper step plate (6). Remove the step plate (6) from the loader frame.

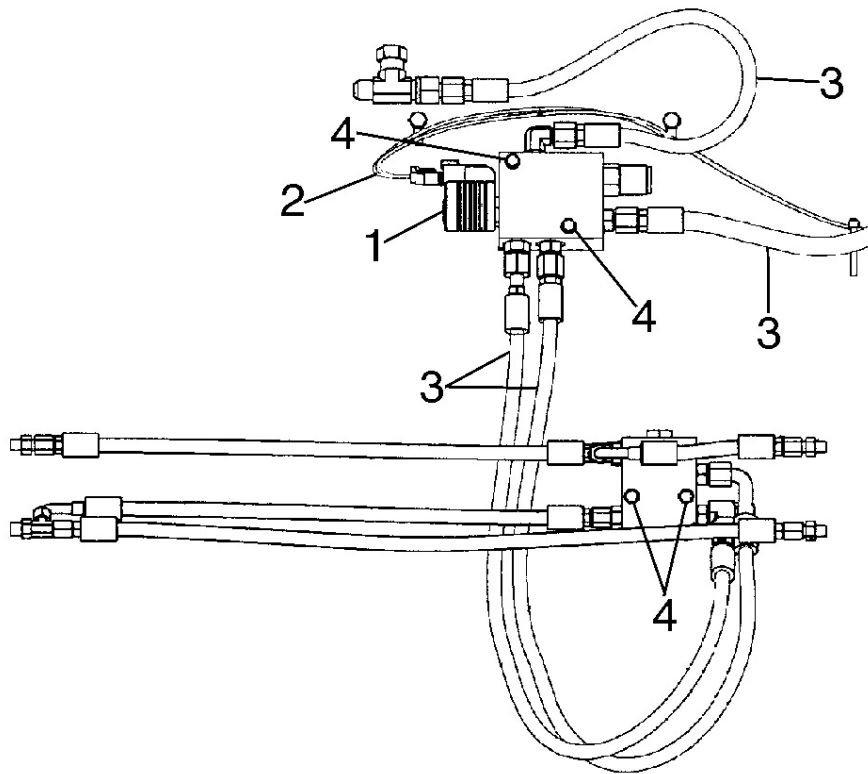


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Hydraulic Coupler Solenoid Valve Installation

1. Double check valve	3. Hose connections	5. Valve mounting bolts
2. Wire harness	4. Step mounting bolts	6. Upper step plate

2. Connect a vacuum pump to the hydraulic reservoir. **CAS1871**
3. **Reservoir - Apply vacuum (A.10.A.22 - F.35.A.50)**
Start the vacuum pump.
4. Disconnect the electrical harness (2) from the solenoid valve (1) electrical connection.
5. Tag and disconnect all of the hydraulic hose connections (3) on the Solenoid Valve (1). Place caps on the fittings and plugs in the hoses.
6. Stop the vacuum pump.
7. Loosen and remove the mounting bolts (5) from the Solenoid Valve (1).
8. Remove the Solenoid Valve (1) from the step plate.



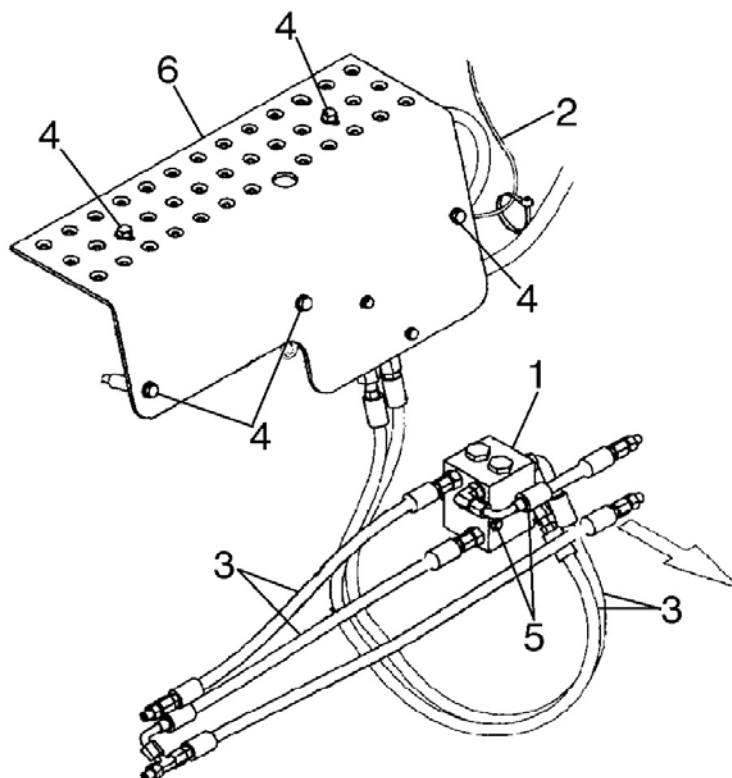
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Hydraulic Coupler Solenoid Valve	
1. Solenoid valve	3. Hydraulic hose connections
2. wire harness	4. Valve mounting bolts

Command valve Solenoid - Install (J.80.C.12.05 - F.10.A.15)

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1. Install the Solenoid Valve (1) onto the step plate (6) mounting location.
2. Install the mounting bolts (5) into the Solenoid Valve (1) and tighten the mounting bolts (5) .
3. **Reservoir - Apply vacuum (A.10.A.22 - F.35.A.50)**
Start the vacuum pump.
4. Remove the caps from the fittings and the plugs from the hoses.
5. Install and tighten the hydraulic hoses (3) in the correct locations on the Solenoid Valve (1) .
6. Stop the vacuum pump.
7. Remove the vacuum pump from the hydraulic reservoir. Install the filler cap on the reservoir.
8. Connect the electrical harness (2) to the Solenoid Valve electrical connection.
9. Install the upper step plate (6) on the loader frame mounting location. Install the mounting bolts (4) into the upper step plate (6) and tighten the mounting bolts (4 and spacers) .



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Hydraulic Coupler Solenoid Valve Installation

1. Double check valve	3. Hose connections	5. Valve mounting bolts
2. Wire harness	4. Step mounting bolts	6. Upper step plate

10. Start and run the engine at low idle for 2 to 5 minutes and check for any leaks.
11. Stop the engine

12. Check the oil level in the reservoir and add hydraulic oil as required. **Reservoir - Filling (A.10.A.22 - F.60.A.10)**

Control valve - Remove (J.80.C.13 - F.10.A.10)

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1. For loader control valve removal refer to the following procedure. **Control valve - Remove (H.40.B.13 - F.10.A.10)**

Control valve - Install (J.80.C.13 - F.10.A.15)

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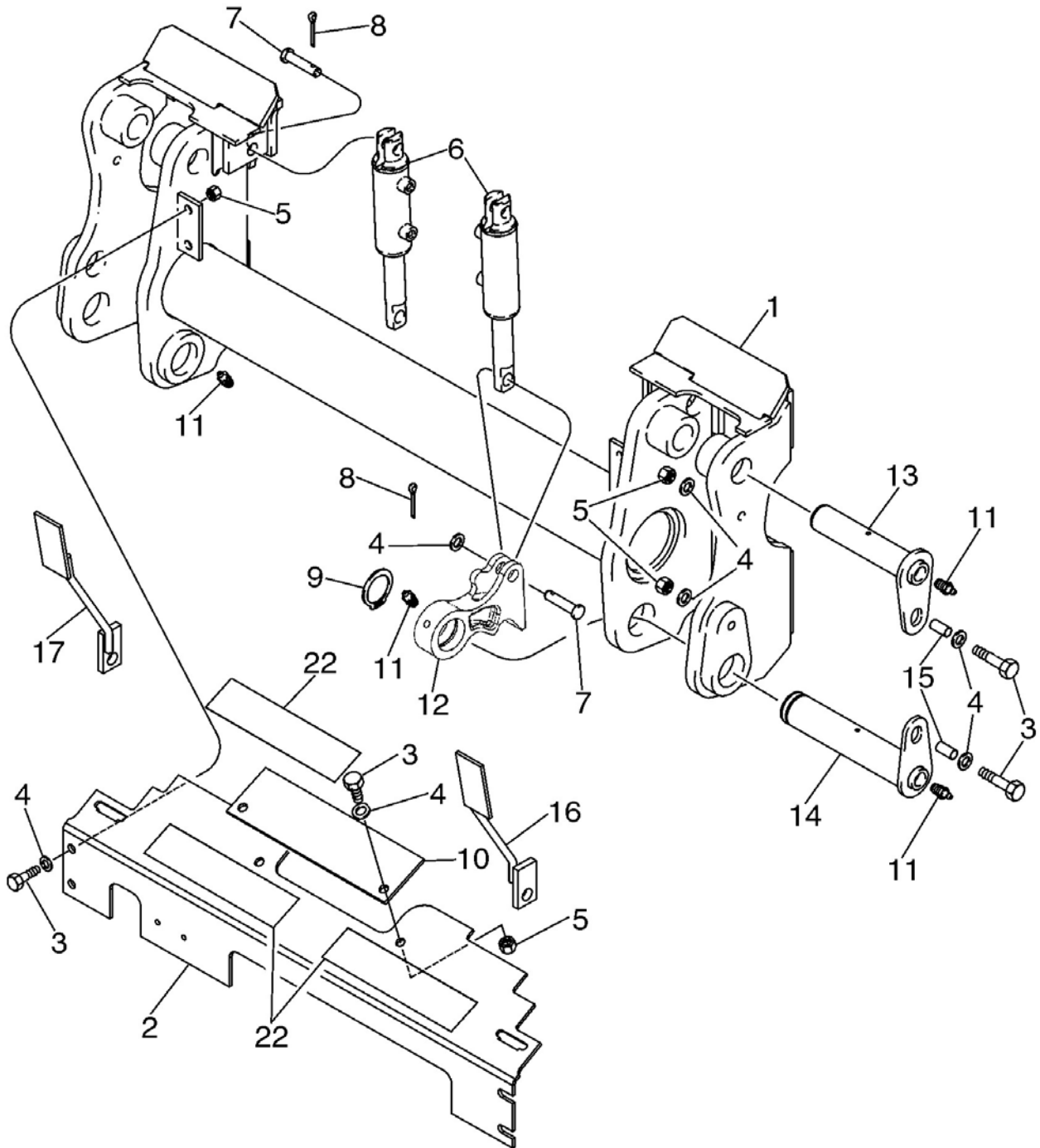
1. For loader control valve installation refer to the following procedure. **Control valve - Install (H.40.B.13 - F.10.A.15)**

Mechanical connector - Disassemble (J.80.C.66 - F.10.A.25)

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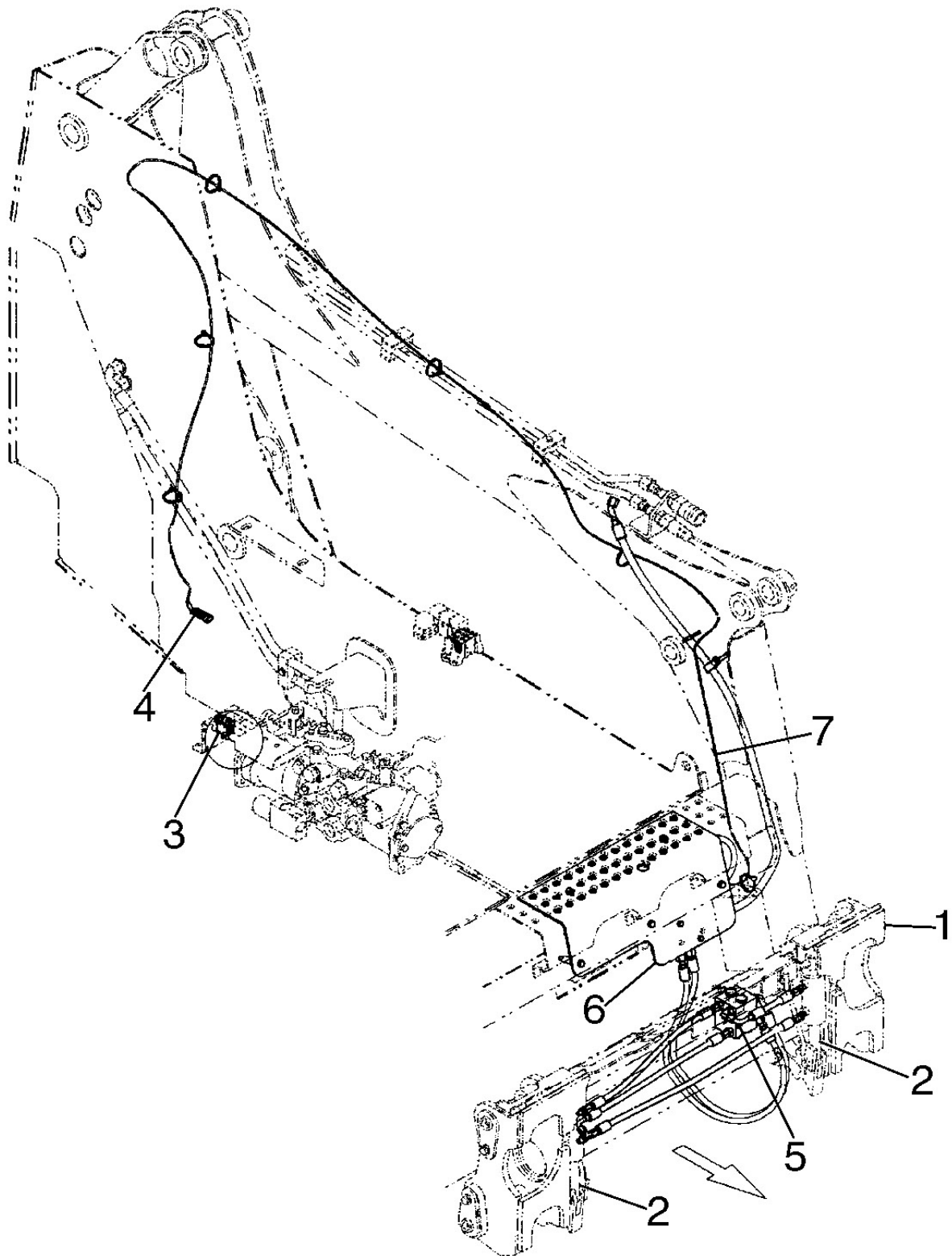
1. Loosen and remove the hydraulic hoses from the cylinders **(6)**. Plug the hoses and cap the fittings on the cylinders **(6)**.
2. Loosen and remove the nut **(5)**, bolt **(3)**, 2 washers **(4)** and spacer **(15)** from the left and the right lower pins **(14)** of the coupler frame **(1)**. Loosen and remove the flange bolt **(10)** and spacer plate **(9)** from the left and right lower pins **(14)**.
3. Use acceptable tools and remove the left and the right lower pins **(14)** from the coupler frame **(1)**.
4. Loosen and remove the nut **(5)** bolt **(3)**, 2 washers **(4)** and spacer **(15)** from the left and right upper pins **(13)** of the coupler frame **(1)**.
5. Use acceptable tools and remove the left and right upper pins **(13)** from the coupler frame **(1)**.
6. Remove the coupler frame **(1)** from the loader arms.
7. Place the coupler frame **(1)** on the work bench.
8. Loosen and remove the nuts **(5)** washers **(4)** and bolts **(3)** from the protective plate **(2)**. Remove the protective plate **(2)** from the coupler frame **(1)**.
9. Remove the cotter pin **(8)** and the washer **(4)** from the clevis pin **(7)** on the bottom of the cylinder **(6)**. Remove the clevis pin **(7)** from the hook wedge **(12)**. Remove the hook wedge **(12)** from the cylinder **(6)**. Remove the cotter pin **(8)** from the clevis pin **(7)** on the top of the cylinder **(6)**. Remove the clevis pin **(7)** from the coupler frame **(1)**. Remove the cylinder **(6)** from the coupler frame **(1)**.
10. Repeat step 9 for the other cylinder **(6)**.

TOOLS AND COUPLERS - COUPLING Hydraulic coupling



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Exploded View of Hydraulic Attachment Coupler			
1. Coupler frame	6. Cylinder	11. Lube fitting	16. Right side indicator
2. Protective plate	7. Clevis pin	12. Hook wedge	17. Left side indicator
3. Bolt	8. Cotter pin	13. Upper pin	
4. Washer	9. Snap ring	14. Lower pin	
5. Lock nut	10. Plate	15. Spacer	



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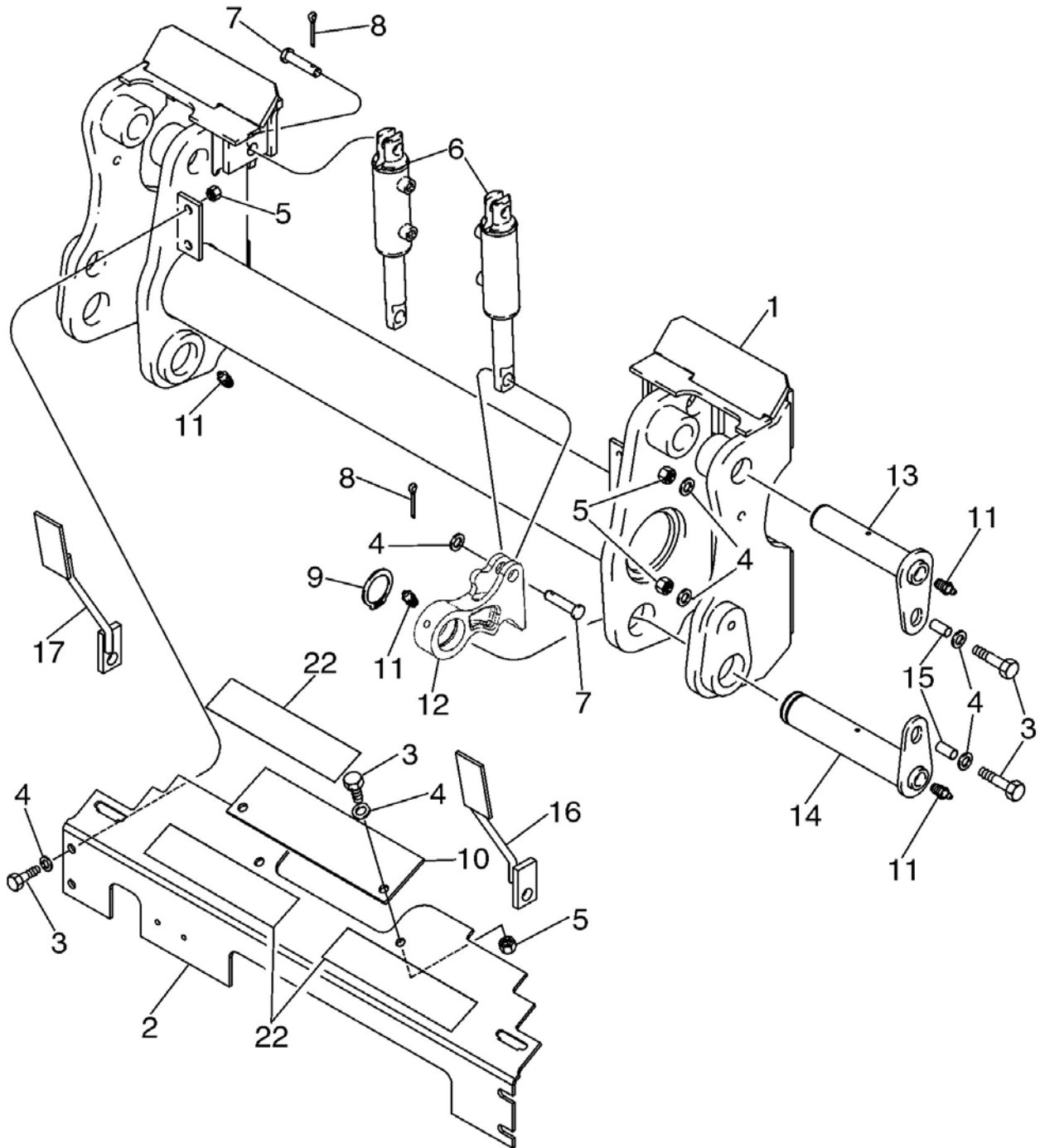
Attachment Coupler Hydraulic Installation		
1. Coupler frame	4. Connector	7. Harness
2. Coupler cylinders	5. Double check valve	
3. Switch	6. Solenoid valve	

Mechanical connector - Assemble (J.80.C.66 - F.10.A.20)

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1. Install the hook wedge **(12)** onto the bottom of the cylinder **(6)**. Install the clevis pin **(7)** through the hook wedge **(12)**. Install the washer **(4)** onto the clevis pin **(7)**. Install the cotter pin into the clevis pin **(7)**. Install the top of the cylinder **(6)** into the coupler frame **(1)**. Install the clevis pin **(7)** through the coupler frame **(1)** and into the top of the cylinder **(6)**. Install the cotter pin **(8)** into the clevis pin **(7)**.
2. Repeat step 1 for the other cylinder.
3. Install the protective plate **(2)** onto the coupler frame **(1)**. Install and tighten the bolts **(3)**, washers **(4)** and nuts **(5)** which fasten the protective plate **(2)** to the coupler frame **(1)**.
4. Install the coupler frame **(1)** onto the loader arm.
5. Install the left and right upper pins **(13)** into the coupler frame **(1)**.
6. Install the bolts **(3)**, spacers **(15)**, 2 washers **(4)** and nuts **(5)** for the left and right upper pins **(13)**. Tighten the nuts **(5)**.
7. Install the left and right lower pins **(14)** into the coupler frame **(1)**.
8. Install the bolts **(3)**, spacers **(15)**, 2 washers **(4)** and nuts **(5)** for the left and right lower pins **(14)**. Tighten the nuts **(5)**.
9. Install the left hook wedge **(12)** onto the left lower pin **(14)**. Install the spacer plate **(9)** and the flange bolt **(10)** through the hook wedge **(12)**. Tighten the flange bolt **(10)**.
10. Repeat step 9 for the right hook wedge **(12)**.
11. Connect the hydraulic hoses to the cylinders **(6)**.
12. Start the engine and run at low idle and check for leaks.

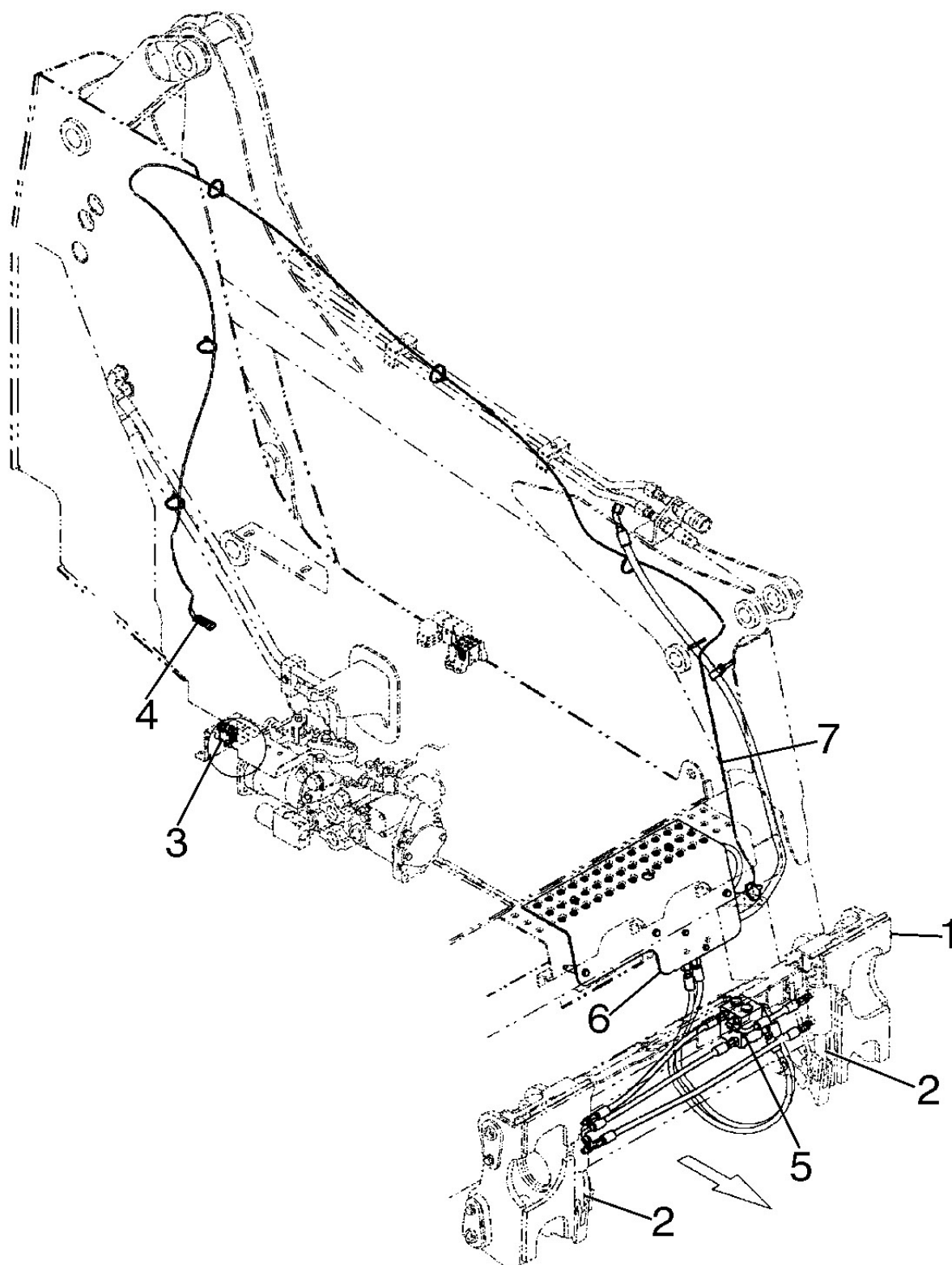
TOOLS AND COUPLERS - COUPLING Hydraulic coupling



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Exploded View of Hydraulic Attachment Coupler			
1. Coupler frame	6. Cylinder	11. Lube fitting	16. Right side indicator
2. Protective plate	7. Clevis pin	12. Hook wedge	17. Left side indicator
3. Bolt	8. Cotter pin	13. Upper pin	
4. Washer	9. Snap ring	14. Lower pin	
5. Lock nut	10. Plate	15. Spacer	

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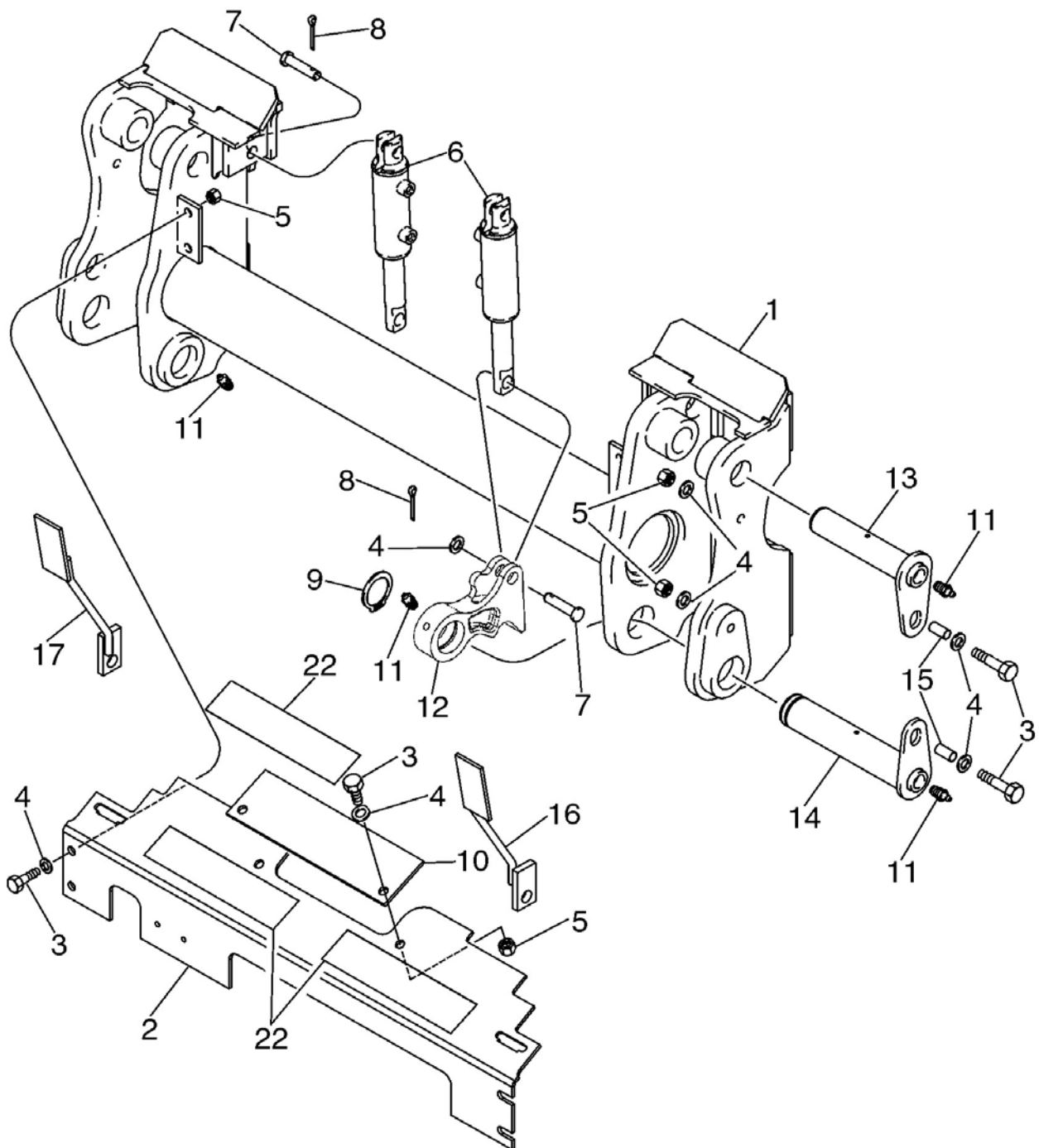
1. Coupler frame	4. Connector	7. Harness
2. Coupler cylinders	5. Double check valve	
3. Switch	6. Solenoid valve	

Mechanical connector - Visual inspection (J.80.C.66 - F.40.A.10)

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1. Inspect the coupler frame **(1)** to be sure it is free of cracks, corrosion, rust or any other damage. Use new parts as required.
2. Inspect the upper pins **(13)** and the lower pins **(14)** for wear, cracks, corrosion or any other damage. Use new parts as required.
3. Inspect the hook wedges **(12)** for wear and damage. Use new parts as required.
4. Inspect the cylinders **(6)** for leaks, wear or any other damage. Use new parts as required.

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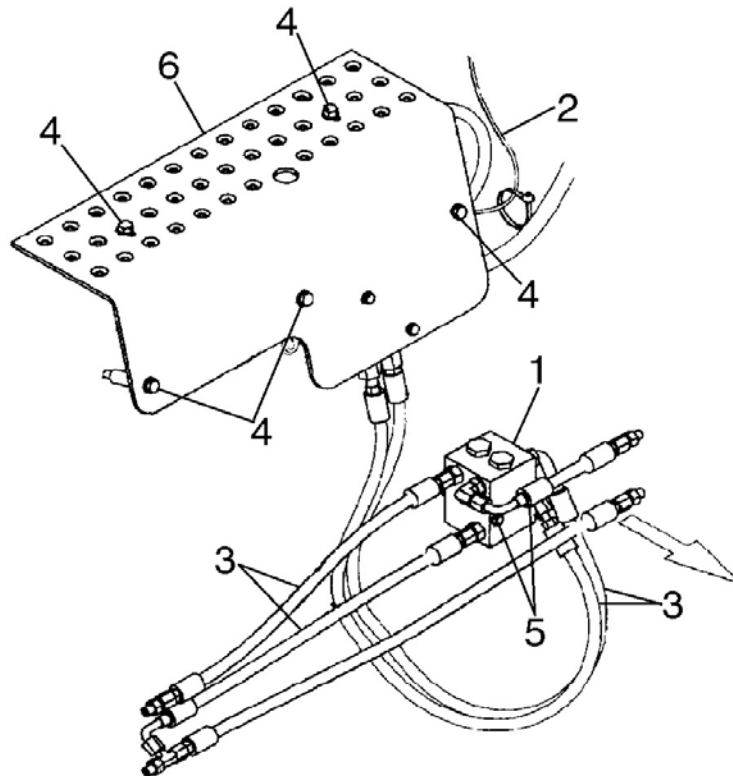
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Exploded View of Hydraulic Attachment Coupler			
1. Coupler frame	6. Cylinder	11. Lube fitting	16. Right side indicator
2. Protective plate	7. Clevis pin	12. Hook wedge	17. Left side indicator
3. Bolt	8. Cotter pin	13. Upper pin	
4. Washer	9. Snap ring	14. Lower pin	
5. Lock nut	10. Plate	15. Spacer	

Non-return valve - Remove (J.80.C.17 - F.10.A.10)

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1. Loosen and remove the mounting bolts from the lower step plate (not shown). Remove the step plate from the Coupler frame.



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Hydraulic Coupler Double Check Valve Installation

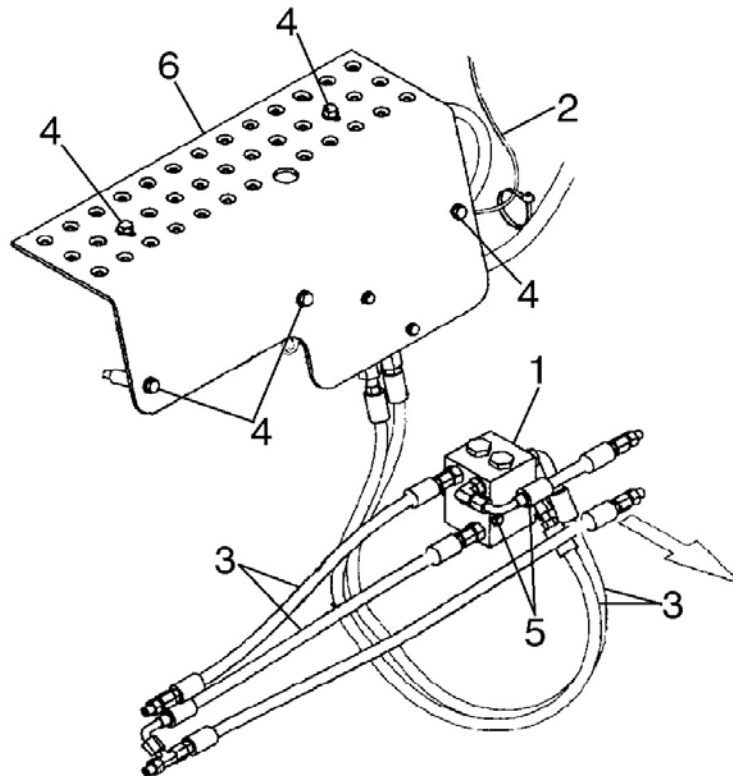
1. Double check valve	3. Hose connections	5. Valve mounting bolts
2. Wire harness	4. Step mounting bolts	6. Upper step plate

2. Connect a vacuum pump to the hydraulic reservoir. **CAS1871**
3. **Reservoir - Apply vacuum (A.10.A.22 - F.35.A.50)**
Start the vacuum pump.
4. Tag and disconnect all of the hydraulic hose connections (3) on the Double Check Valve (1). Place caps on the fittings and plugs in the hoses.
5. Stop the vacuum pump.
6. Loosen and remove the mounting bolts (5) from the Double Check Valve (1).
7. Remove the Double Check Valve (1) from the Coupler frame mounting location.

Non-return valve - Install (J.80.C.17 - F.10.A.15)

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1. Install the Double Check Valve (1) in the Coupler frame mounting location.
2. Install the mounting bolts (5) into the Double Check Valve (1). Tighten the mounting bolts (5).
3. **Reservoir - Apply vacuum (A.10.A.22 - F.35.A.50)**
Start the vacuum pump.
4. Remove the caps on the fittings and plugs in the hoses. Install all of the hydraulic hose connections (3) on the Double Check Valve (1) and tighten the hose fittings.
5. Stop the vacuum pump.
6. Remove the vacuum pump from the hydraulic reservoir.
7. Install the lower step plate on the coupler frame. Install and tighten the lower step plate mounting bolts.



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Hydraulic Coupler Double Check Valve Installation

1. Double check valve	3. Hose connections	5. Valve mounting bolts
2. Wire harness	4. Step mounting bolts	6. Upper step plate

8. Start and run the engine at low idle for 2 to 5 minutes and check for any leaks.
9. Stop the engine.
10. Check the oil level in the hydraulic reservoir and add hydraulic oil as required. **Reservoir - Filling (A.10.A.22 - F.60.A.10)**

Command valve Solenoid - Testing (J.80.C.12.05 - G.40.A.20)

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NOTE: For wiring diagram refer to *Wiring harness - Electrical schematic frame 15 (A.30.A.88 - C.20.E.15)*

N°	Test Point	Expected Result	Other Result (Possible Cause)
1	Terminal for wire 178 to ground.	Continuity	Bad ground circuit.
2	Turn the key switch to the ON position. Move the hydraulic coupler switch to the unlatch position. Terminal for wire 547E (B) to ground.	12 volts	Check the circuit between the hydraulic coupler solenoid and the hydraulic coupler switch. Also check the hydraulic coupler switch. If the readings are good, replace the hydraulic coupler solenoid.

Electrical control Coupler switch - Testing (J.80.C.90.81 - G.40.A.20)

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NOTE: For wiring diagram refer to *Wiring harness - Electrical schematic frame 15 (A.30.A.88 - C.20.E.15)*

N°	Test Point	Expected Result	Other Result (Possible Cause)
1	Turn the key switch to the ON position. Terminal for wire 540A (R) to ground.	12 volts	Check the circuit between the hydraulic coupler switch and the 10 amp fuse in the options fuse block. Also check the 10 amp fuse in the options fuse block.
2	Have another person place the hydraulic coupler switch in the unlatch position. Terminal for wire 547B (T) to ground.	12 volts	Bad hydraulic coupler switch.
3	Have another person place the hydraulic coupler switch in the unlatch position.	0 volts	Bad hydraulic coupler switch.

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COUPLING Hydraulic coupling - 80.C

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COUPLING Mechanical coupling - 80.B

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TOOLS AND COUPLERS - J

COUPLING Mechanical coupling - 80.B

SERVICE

Connector

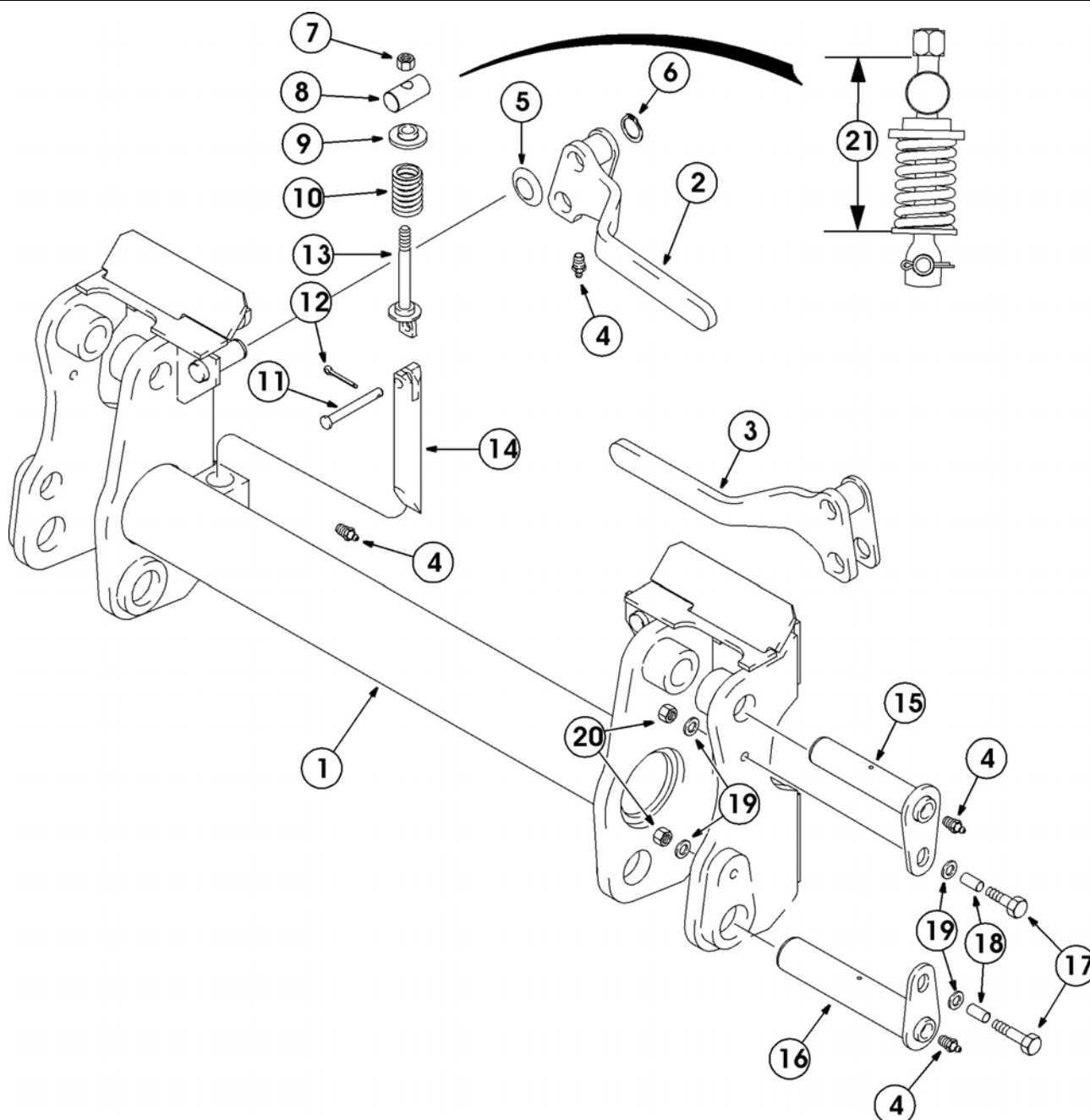
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Connector - Assemble (J.80.B.66 - F.10.A.20) 435, 445, 445CT	5
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Connector - Disassemble (J.80.B.66 - F.10.A.25)

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1. Loosen and remove the nut **(20)**, bolt **(17)**, two washers **(19)** and spacer from the left and right lower pins of the coupler frame **(1)**.
2. Use acceptable tools and remove the left and the right lower pins **(16)** from the coupler frame **(1)**.
3. Remove the nut **(20)**, bolt **(17)**, two washers **(19)** and spacer **(18)** from the left and right upper pins **(15)** of the coupler frame **(1)**.
4. Use acceptable tools and remove the left and right upper pins **(15)** from the coupler frame **(1)**.
5. Remove the coupler frame **(1)** from the loader arms.
6. Remove the coupler frame **(1)** on the work bench.
7. Remove one cotter pin **(12)** from the clevis pin **(11)**. Remove the clevis pin **(11)** from the lock pin **(14)**.
8. Remove the retaining ring **(6)** from the left handle **(2)**. Lift the left handle **(2)** until the link rod **(13)** disengages the lock pin **(14)**. Remove the left handle **(2)** and wave spring **(5)** from the coupler frame **(1)**. Remove the lock pin **(14)** from the coupler frame **(1)**.
9. Place the left handle **(2)** in a vise with soft jaws.
10. Prevent the link rod **(13)** from turning. Loosen and remove the lock nut **(7)** from the link rod **(13)**. Remove the link rod **(13)**, spring **(10)**, spring guide **(9)** and trunnion **(8)** from the left handle **(2)**.
11. Repeat steps 7 through 10 for the right handle **(3)**.

TOOLS AND COUPLERS - COUPLING Mechanical coupling



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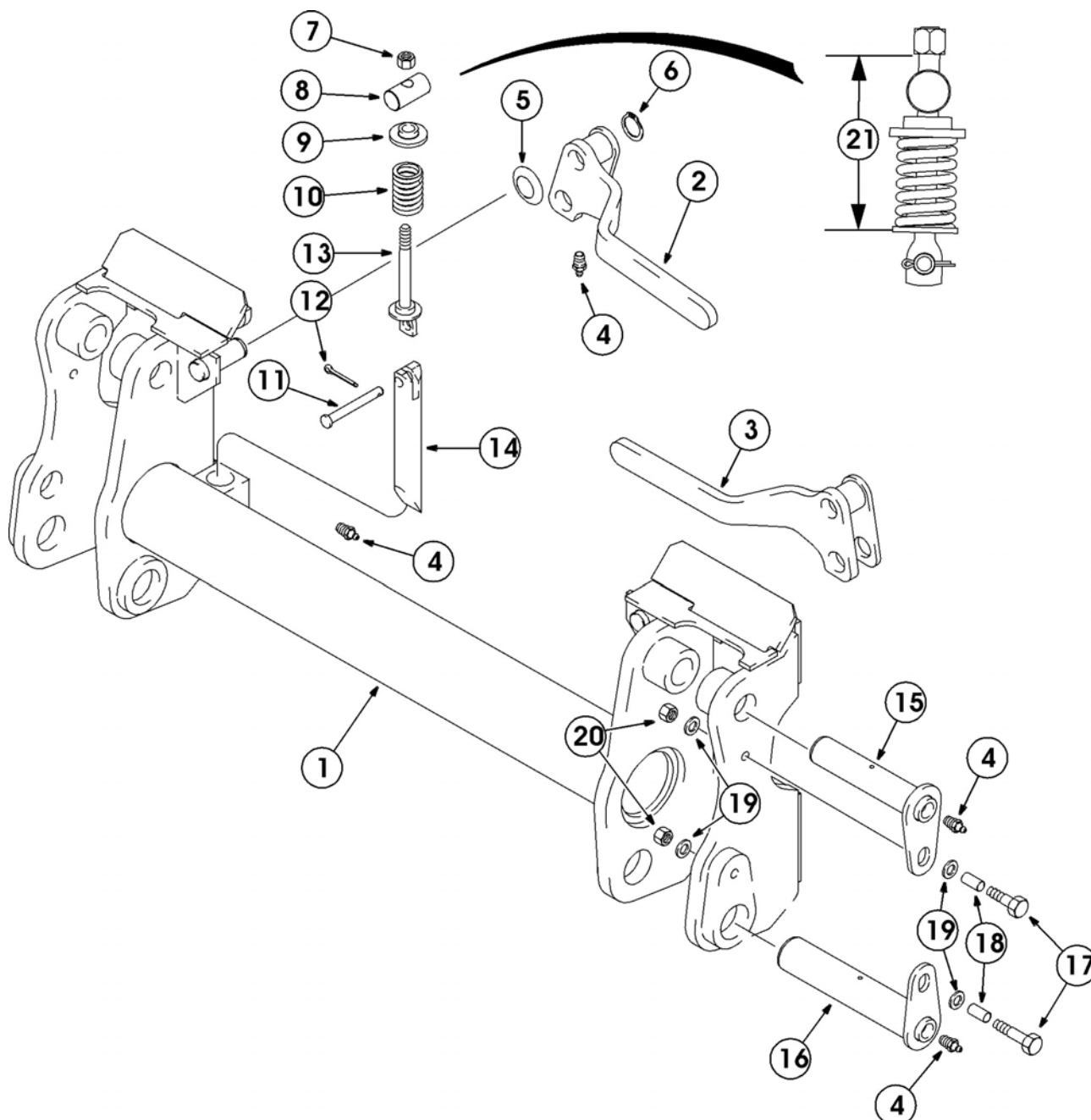
Exploded View of Mechanical Attachment Coupler		
1. Coupler frame	8. Trunnion	15. Upper pin
2. Left handle	9. Spring guide	16. Lower pin
3. Right handle	10. Compression spring	17. Bolt
4. Lube fitting	11. Clevis pin	18. Spacer
5. Wave spring	12. Cotter pin	19. Washer
6. Retaining ring	13. Link rod	20. Nut
7. Lock nut	14. Lock pin	21. Dimension 105.5 mm $\pm$ 1.5 mm (4.04 inch $\pm$.06 inch)

Connector - Assemble (J.80.B.66 - F.10.A.20)

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1. Place the left handle **(2)** in a vise with soft jaws.
2. Install the trunnion **(8)** into the left handle **(2)**.
3. Install the link rod **(13)** through the spring **(10)** and the spring guide **(8)**. Install the link rod **(13)** into the trunnion **(8)**. Install the lock nut **(7)** onto the link rod **(13)**. Tighten the lock nut **(7)** until the dimension **(21)** between the bottom of the lock nut **(7)** and the spring guide **(9)** on the link rod **(13)** equals **102.5 mm ± 1.5 mm (4.04 in ± .06 in)**. See dimension **(21)** on illustration on Figure 1.
4. Install the lock pin **(14)** into the coupler frame **(1)**. Be sure the tapered side of the lock pin **(14)** faces the coupler frame **(1)**. Install the wave spring **(5)** and the left handle **(2)** onto the coupler frame **(1)**. Install the retaining ring **(6)** onto the handle **(2)**. Lift the handle **(2)** until the link rod **(13)** will engage the lock pin **(14)**.
5. Install the clevis pin **(11)** through the lock pin **(14)**. Install the cotter pin **(12)** into the clevis pin **(11)**.
6. Repeat steps 1 through 5 for the right handle **(3)**.
7. Install the coupler frame **(1)** onto the loader arms.
8. Install the left and right upper pins **(15)** into the coupler frame **(1)**.
9. Install the bolts **(17)**, spacers **(18)**, 2 washers **(19)**, and nuts **(20)** for the left and right upper pins **(15)**. Tighten the nuts **(20)**.
10. Install the left and right lower pins **(16)** into the coupler frame **(1)**.
11. Install the bolts **(17)**, spacers **(18)**, 2 washers **(19)**, and nuts **(20)** for the left and right lower pins **(15)**. Tighten the nuts **(20)**.

TOOLS AND COUPLERS - COUPLING Mechanical coupling



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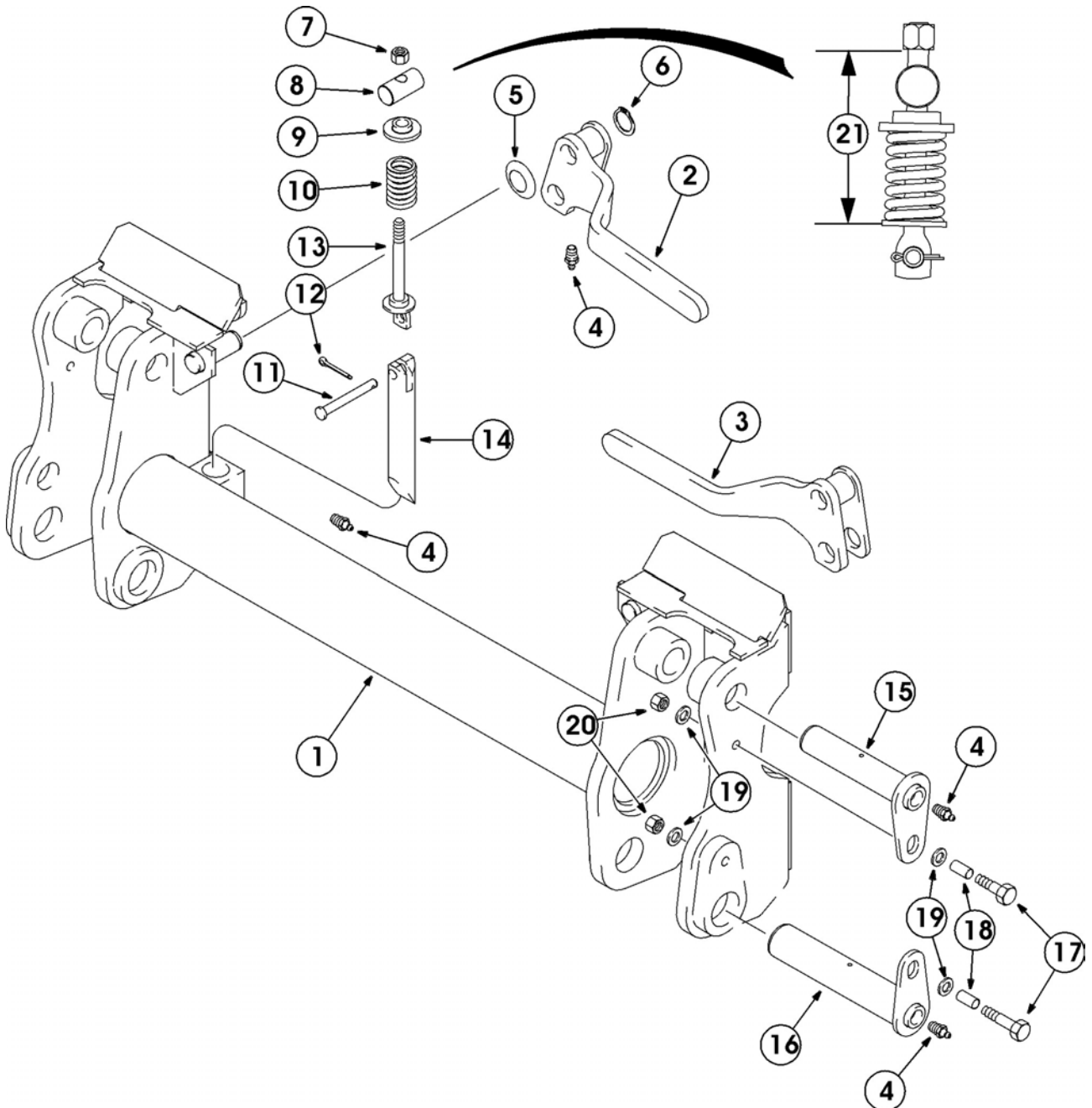
Exploded View of Mechanical Attachment Coupler		
1. Coupler frame	8. Trunnion	15. Upper pin
2. Left handle	9. Spring guide	16. Lower pin
3. Right handle	10. Compression spring	17. Bolt
4. Lube fitting	11. Clevis pin	18. Spacer
5. Wave spring	12. Cotter pin	19. Washer
6. Retaining ring	13. Link rod	20. Nut
7. Lock nut	14. Lock pin	21. Dimension 105.5 mm ± 1.5 mm (4.04 inch ± .06 inch)

Connector - Visual inspection (J.80.B.66 - F.40.A.10)

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1. Inspect the coupler frame **(1)** to be sure it is free of cracks, corrosion, rust or any other damage. Use new parts as required.
2. Inspect the upper pins **(15)** and the lower pins **(16)** for wear, cracks, corrosion or any other damage. Use new parts as required.
3. Inspect the lock pins **(14)** for wear and damage. Use new parts as required.
4. Inspect the link rod **(13)**, spring **(10)**, spring guide **(9)** and trunnion **(8)** for wear and damage. Use new parts as required.
5. Inspect the left handle **(2)** and the right handle **(3)** for wear and damage. Use new parts as required.

TOOLS AND COUPLERS - COUPLING Mechanical coupling



BT97H016 1

Exploded View of Mechanical Attachment Coupler		
1. Coupler frame	8. Trunnion	15. Upper pin
2. Left handle	9. Spring guide	16. Lower pin
3. Right handle	10. Compression spring	17. Bolt
4. Lube fitting	11. Clevis pin	18. Spacer
5. Wave spring	12. Cotter pin	19. Washer
6. Retaining ring	13. Link rod	20. Nut
7. Lock nut	14. Lock pin	21. Dimension 105.5 mm $\pm$ 1.5 mm (4.04 inch $\pm$.06 inch)

TOOLS AND COUPLERS - J

COUPLING Mechanical coupling - 80.B

Connector - Assemble (J.80.B.66 - F.10.A.20) 435, 445, 445CT	5
Connector - Disassemble (J.80.B.66 - F.10.A.25) 435, 445, 445CT	3
Connector - Visual inspection (J.80.B.66 - F.40.A.10) 435, 445, 445CT	7

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