435 - 445
Skid Steer Loader
445CT
Compact Track Loader
Repair Manual
Bur 6-75491

6-75491SL

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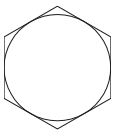
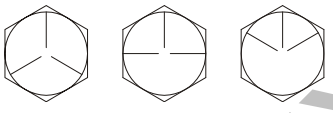
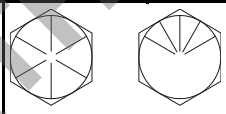
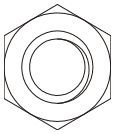
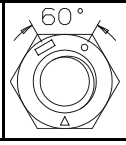
Torque (- A.90.A.10)

435, 445

BOLT TORQUE INFORMATION

DECIMAL HARDWARE

1. Fasteners should be replaced with the same or higher grade. If higher grade fasteners are used, these should only be tightened to the strength of the original.
2. Make sure the fasteners threads are clean and that thread engagement is started. This will prevent them from failing when being tightened.
3. Tighten plastic insert or crimped steel-type lock nuts to approximately **50 %** of the dry torque, applied to the nut, not to the bolt head. Tighten toothed or serrated-type lock nuts to the full torque value.
4. The L9 (Alloy) fasteners torque values are for a bolt, nut, and two washers. When using L9 (Alloy) fasteners, do not use the values in this table for tapped holes.

GRADE							
	1 or 2	5	5.1	5.2	8	8.2	L9 (Alloy)
SAE Markings for Bolts and Cap Screws							
	2	5			8		L9 (Alloy)
SAE Markings for Hex Nuts							

	GRADE 2 *				GRADE 5, 5.1 or 5.2				GRADE 8 or 8.2				GRADE L9 (Alloy)			
	Dry **		Lubricated **		Dry**		Lubricated **		Dry**		Lubricated **		Head		Nut	
SIZE	Nm	lb/ft	Nm	lb/ft	Nm	lb/ft	Nm	lb/ft	Nm	lb/ft	Nm	lb/ft	Nm	lb/ft	Nm	lb/ft
1/4 UNF	7.5	5.5	5.7	4.2	10.8	8	8.5	6.3	16.3	12	12.2	9	13.6	10	14.9	11
1/4 UNC	8.5	6.3	6.4	4.7	13.6	10	9.8	7.2	19	14	13.6	10	16.3	12	17.6	13
5/16 UNF	15	11	11	8	23	17	18	13	33	24	24	18	26	19	28	21
5/16 UNC	16	12	12	9	26	19	19	14	37	27	27	20	27	20	31	23
3/8 UNF	27	20	20	15	41	30	31	23	61	45	47	35	41	30	45	33
3/8 UNC	31	23	23	17	47	35	34	25	68	50	47	35	47	35	52	38
7/16 UNF	43	32	33	24	68	50	47	35	95	70	68	50	75	55	81	60
7/16 UNC	49	36	37	27	75	55	54	40	108	80	81	60	81	60	88	65
1/2 UNF	68	50	47	35	102	75	75	55	149	110	108	80	115	85	129	95
1/2 UNC	75	55	54	40	115	85	88	65	163	120	122	90	129	95	142	105
9/16 UNF	95	70	75	55	149	110	108	80	203	150	149	110	163	120	190	140
9/16 UNC	108	80	81	60	163	120	122	90	231	170	176	130	183	135	203	150

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PRIMARY HYDRAULIC POWER SYSTEM - Capacity (A.10.A - D.40.A.20)

435, 445, 445CT

Hydraulic System	
Capacity - System 435 Machines	**41.3 L** (**10.9 US gal**)
Capacity - System 445/445CT Machines	**41.5 L** (**11.0 US gal**)
Capacity - System 450/450CT Machines	**64.4 L** (**17 US gal**)
Capacity - System 465 Machines	**66.2 L** (**17.5 US gal**)

PRIMARY HYDRAULIC POWER SYSTEM - General specification (A.10.A - D.40.A.10)

435, 445, 445CT

Hydraulic System Oil	Type of Oil	Capacity
Total System (435 Machines)	**CASE AKCELA NO. 1 ENGINE OIL SAE 10W-30**	**41.3 L (10.9 US gal)**
Total System (445/445CT Machines)	**CASE AKCELA NO. 1 ENGINE OIL SAE 10W-30**	**41.5 L (11 US gal)**
Total System (450/450CT Machines)	**CASE AKCELA NO. 1 ENGINE OIL SAE 10W-30**	**64.4 L (17 US gal)**
Total System (465 Machines)	**CASE AKCELA NO. 1 ENGINE OIL SAE 10W-30**	**66.2 L (17.5 US gal)**
Chain Tank (435-445-450-465 Machines)	**CASE AKCELA NO. 1 ENGINE OIL SAE 10W-30**	Each Side **7.6 L (8.0 US qt)**

PRIMARY HYDRAULIC POWER SYSTEM - Special tools (A.10.A - D.20.A.40)

435, 445, 445CT



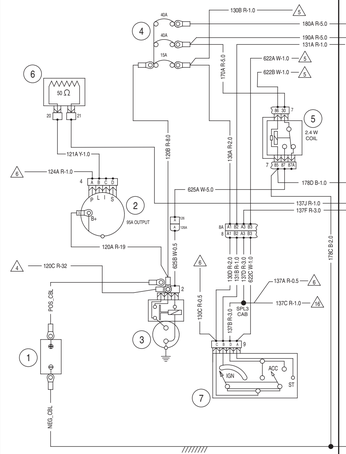
CAS10280 1

CAS - 10280 Flowmeter

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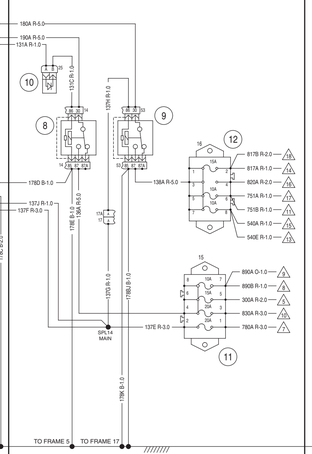
STARTING SYSTEM



FRAME 1

BC04E027-01

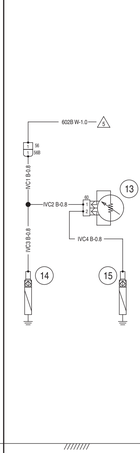
POWER DISTRIBUTION



FRAME 2

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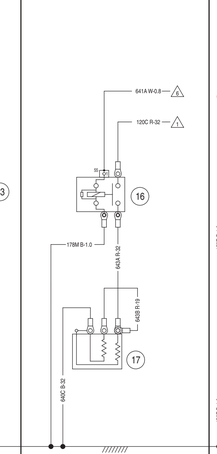
FUEL SUPPLY SYSTEM



FRAME 3

BC04E027-03

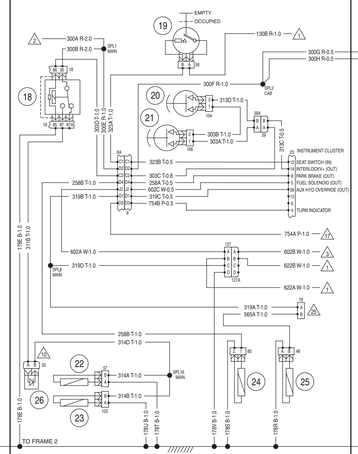
GRID HEATER SYSTEM



FRAME 4

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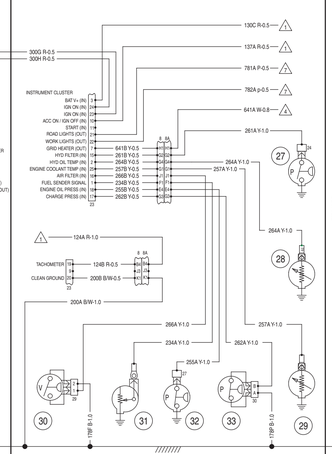
SAFETY INTERLOCK SYSTEM



FRAME 5

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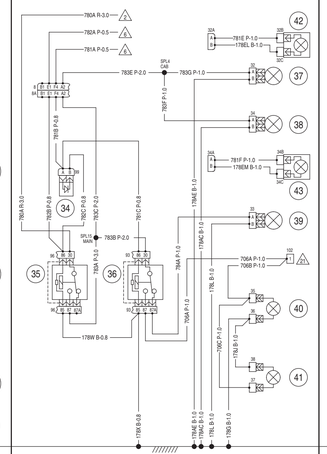
INSTRUMENT CLUSTER



FRAME 6

BC04E027-06

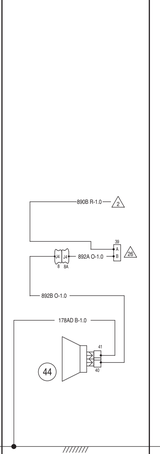
STANDARD LAMPS



FRAME 7

BC04E027-07

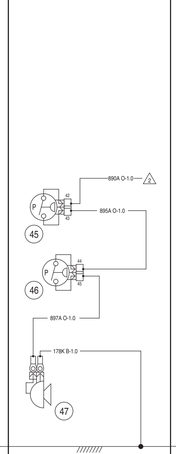
HORN (OPTIONAL)



FRAME 8

BC04E027-08

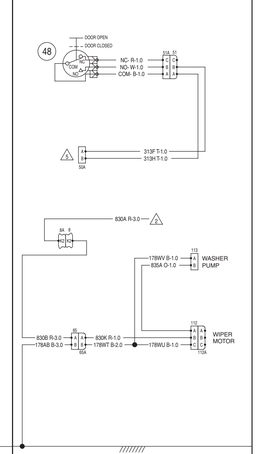
BACK-UP ALARM (OPTIONAL)



FRAME 9

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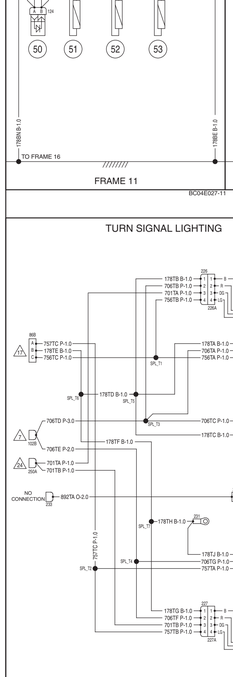
FRONT DOOR (OPTIONAL)



FRAME 10

BC04E027-10

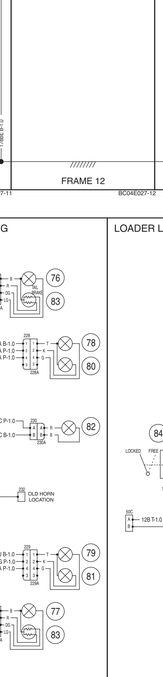
HIGH FLOW ELECTRO-HYDRAULIC ATTACHMENT FLOW (OPTIONAL)



FRAME 11

BC04E027-11

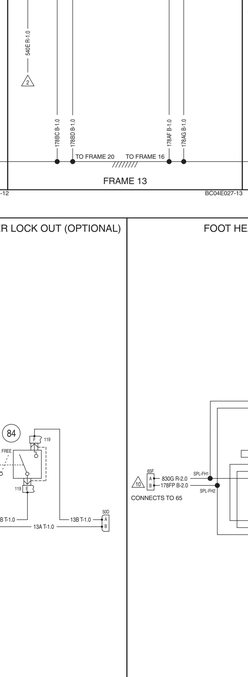
RIDE CONTROL (OPTIONAL)



FRAME 12

BC04E027-12

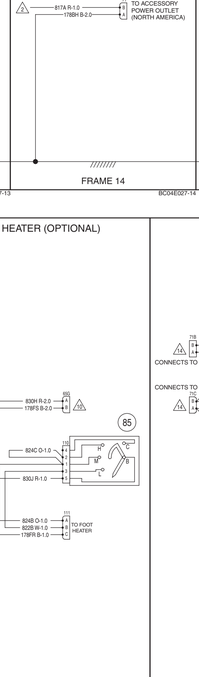
ROTATING BEACON (OPTIONAL)



FRAME 13

BC04E027-13

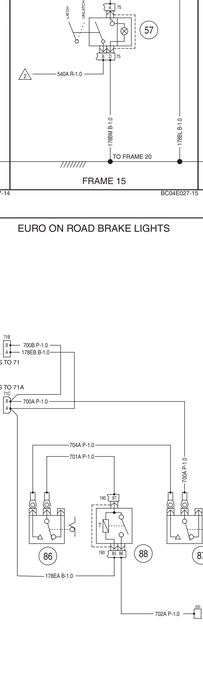
ELECTRICAL ACCESSORY OUTLET (OPTIONAL)



FRAME 14

BC04E027-14

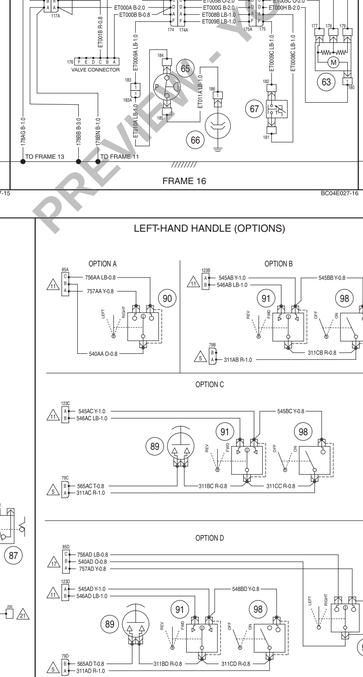
HYDRAULIC COUPLER (OPTIONAL)



FRAME 15

BC04E027-15

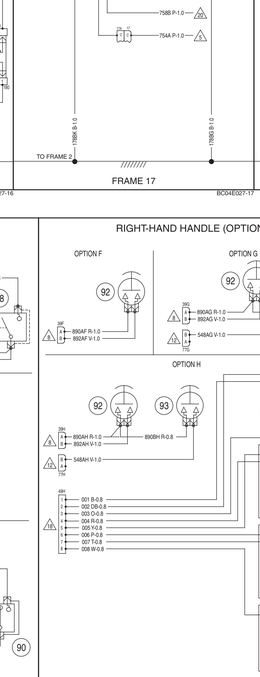
DOME LIGHT/HEATER/HVAC (OPTIONAL)



FRAME 16

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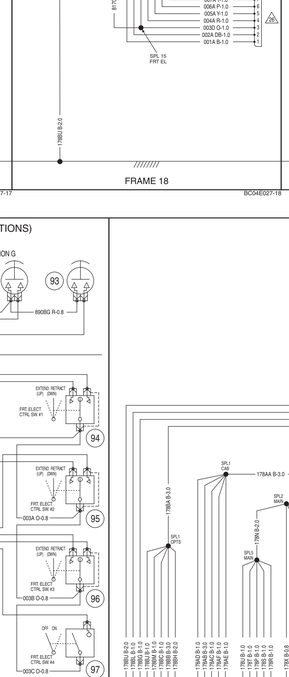
TURN SIGNALS (OPTIONAL)



FRAME 17

BC04E027-17

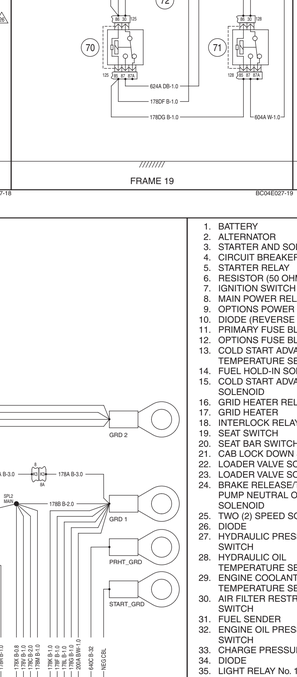
LOADER ARM AUXILIARY ELECTRIC (OPTIONAL)



FRAME 18

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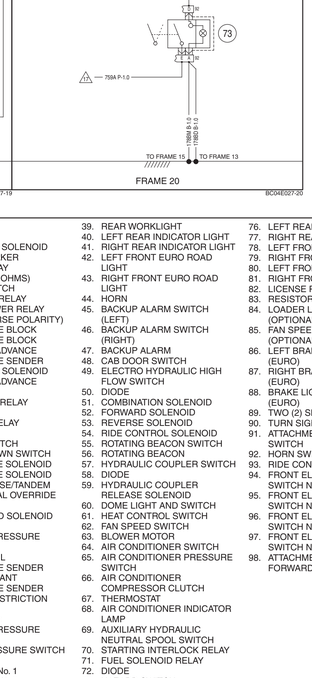
AUXILIARY OVERIDE SYSTEM



FRAME 19

BC04E027-19

HAZARD SWITCH AND FLASHER HARNESS (OPTIONAL)



FRAME 20

BC04E027-20

TURN SIGNAL LIGHTING

FRAME 21

BC04E027-21

LOADER LOCK OUT (OPTIONAL)

FRAME 22

BC04E027-22

FOOT HEATER (OPTIONAL)

FRAME 23

BC04E027-23

EURO ON ROAD BRAKE LIGHTS

FRAME 24

BC04E027-24

LEFT-HAND HANDLE (OPTIONS)

FRAME 25

BC04E027-25

RIGHT-HAND HANDLE (OPTIONS)

FRAME 26

BC04E027-26

FRAME 27

BC04E027-27

1. BATTERY
2. ALTERNATOR
3. STARTER AND SOLENOID
4. CIRCUIT BREAKER
5. STARTER RELAY
6. RESISTOR (50 OHMS)
7. IGNITION SWITCH
8. MAIN POWER RELAY
9. OPTIONS POWER RELAY
10. DIODE (REVERSE POLARITY)
11. PRIMARY FUSE BLOCK
12. OPTIONS FUSE BLOCK
13. COLD START ADVANCE SOLENOID
14. FUEL HOLD-IN SOLENOID
15. COLD START ADVANCE SOLENOID
16. GRID HEATER RELAY
17. GRID HEATER
18. INTERLOCK RELAY
19. SEAT SWITCH
20. SEAT BAR SWITCH
21. CAB LOCK DOWN SWITCH
22. LOADER VALVE SOLENOID
23. LOADER VALVE SOLENOID
24. BRAKE RELEASE/TANDEM PUMP NEUTRAL OVERRIDE SOLENOID
25. TWO (2) SPEED SOLENOID
26. DIODE
27. HYDRAULIC PRESSURE SWITCH
28. HYDRAULIC OIL TEMPERATURE SENDER
29. ENGINE COOLANT TEMPERATURE SENDER
30. AIR FILTER RESTRICTION SWITCH
31. FUEL SENDER
32. ENGINE OIL PRESSURE SWITCH
33. CHARGE PRESSURE SWITCH
34. DIODE
35. LIGHT RELAY No. 1
36. LIGHT RELAY No. 2
37. LEFT FRONT WORKLIGHT
38. RIIGHT FRONT WORKLIGHT
39. REAR WORKLIGHT
40. LEFT REAR INDICATOR LIGHT
41. RIGHT REAR INDICATOR LIGHT
42. LEFT FRONT EURO ROAD LIGHT
43. RIGHT FRONT EURO ROAD LIGHT
44. HORN
45. BACKUP ALARM SWITCH (LEFT)
46. BACKUP ALARM SWITCH (RIGHT)
47. BACKUP ALARM
48. CAB DOOR SWITCH
49. ELECTRO HYDRAULIC HIGH FLOW SWITCH
50. DIODE
51. COMBINATION SOLENOID
52. FORWARD SOLENOID
53. REVERSE SOLENOID
54. RIDE CONTROL SOLENOID
55. ROTATING BEACON SWITCH
56. ROTATING BEACON
57. HYDRAULIC COUPLER SWITCH
58. DIODE
59. HYDRAULIC COUPLER RELEASE SOLENOID
60. DOME LIGHT AND SWITCH
61. HEAT CONTROL SWITCH
62. FAN SPEED SWITCH
63. BLOWER MOTOR
64. AIR CONDITIONER SWITCH
65. AIR CONDITIONER PRESSURE SWITCH
66. AIR CONDITIONER COMPRESSOR CLUTCH
67. THERMOSTAT
68. AIR CONDITIONER INDICATOR LAMP
69. AUXILIARY HYDRAULIC NEUTRAL SPOOL SWITCH
70. STARTING INTERLOCK RELAY
71. FUEL SOLENOID RELAY
72. DIODE
73. HAZARD SWITCH
74. FLASHER MODULE
75. DIODE PACK
76. LEFT REAR TURN LIGHT
77. RIGHT REAR TURN LIGHT
78. LEFT FRONT TURN LIGHT
79. RIGHT FRONT TURN LIGHT
80. LEFT FRONT POSITION LIGHT
81. RIGHT FRONT POSITION LIGHT
82. LICENSE PLATE LIGHT
83. RESISTOR
84. LOADER LOCKOUT SWITCH (OPTIONAL)
85. FAN SPEED SWITCH (OPTIONAL FOOT HEATER)
86. LEFT BRAKE LIGHT SWITCH (EURO)
87. RIGHT BRAKE LIGHT SWITCH (EURO)
88. BRAKE LIGHT TIMER RELAY (EURO)
89. TWO (2) SPEED SWITCH
90. TURN SIGNAL SWITCH
91. ATTACHMENT HYDRAULIC SWITCH
92. HORN SWITCH
93. RIDE CONTROL SWITCH
94. FRONT ELECTRIC CONTROL SWITCH No. 1
95. FRONT ELECTRIC CONTROL SWITCH No. 2
96. FRONT ELECTRIC CONTROL SWITCH No. 3
97. FRONT ELECTRIC CONTROL SWITCH No. 4
98. ATTACHMENT HYDRAULIC FORWARD FLOW "ON" SWITCH

CIRCUIT DIAGRAM LEGEND

SHOWS CIRCUIT CROSSING NOT CONNECTED

SHOWS CIRCUIT CONNECTED

54 COMPONENT NUMBER

30 WIRE TAG NUMBER

8 CONNECTOR NUMBER

NUMBERS REFER TO THE FRAME NUMBER AT THE BOTTOM CENTER OF EACH FRAME.

MALE TERMINAL / FEMALE TERMINAL

INDICATES EXTERNAL GROUND

INDICATES INTERNALLY GROUNDED COMPONENT

GROUND

WIRE IDENTIFICATION

702A P-1.0

WIRE NUMBER — WIRE COLOR — WIRE SIZE

B . . BLACK	O . . ORANGE	T . . TAN
B/W BLACK/WHITE	P . . PURPLE	W . . WHITE
LB . LIGHT BLUE	R . . RED	Y . . YELLOW

NOTES

ELECTRICAL SCHEMATIC
435, 445, AND 445CT SKID STEER

Additional copies of this Hydraulic and Electrical Schematic can be ordered through Technical Publications Distribution System. The part number is 6-76571

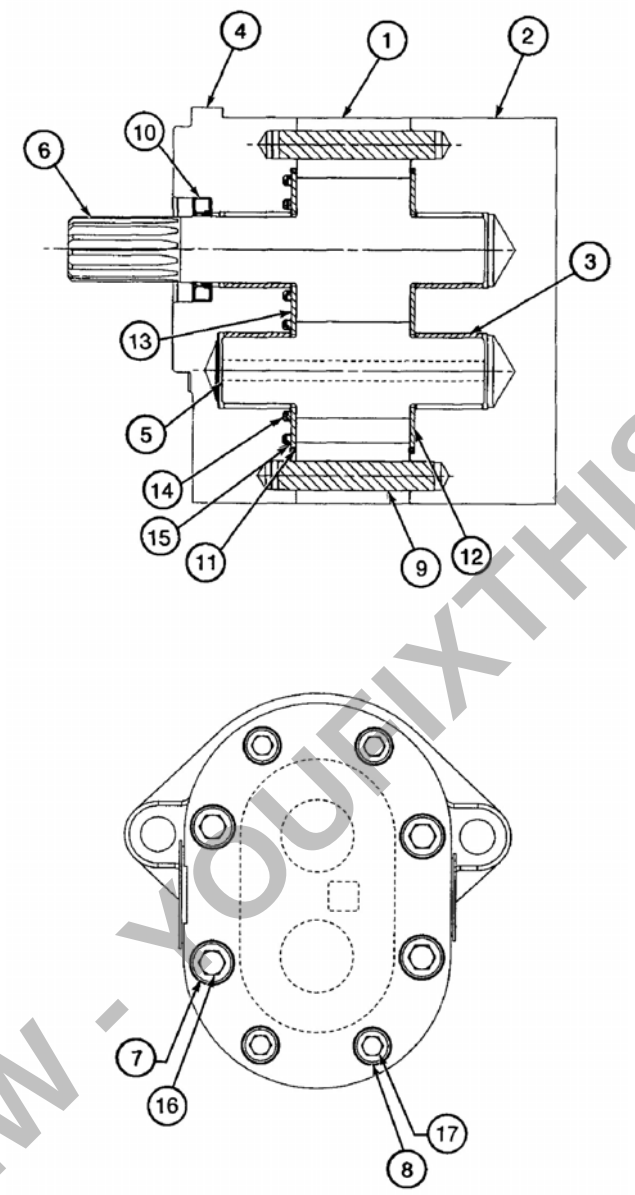
BC04E027-00

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Hydraulic pump - Sectional view (A.10.A.20 - C.10.A.30)

435, 445, 445CT



BS98F177 1

1. Gear plate	7. Washer	13. Wear plate
2. Cover	8. Washer	14. Seal
3. Bearing sleeve	9. Dowel pin	15. Seal
4. Body	10. Oil seal	16. Socket bolt
5. Idler shaft	11. Seal ring	17. Socket bolt
6. Drive shaft	12. Wear plate	

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PRIMARY HYDRAULIC POWER SYSTEM - Cleaning (A.10.A - F.30.A.10)

435, 445, 445CT

1. Contamination in the hydraulic system is a major cause of the malfunction of hydraulic components. Contamination is any foreign material in the hydraulic oil. Contamination can enter the hydraulic system in several ways.
   (A) When you drain the oil or disconnect any line.
   (B) When you disassemble a component.
   (C) From normal wear of the hydraulic components.
   (D) From damaged or worn seals.
   (E) From a damaged component in the hydraulic system.

2. All hydraulic systems operate with some contamination. The design of the components in this hydraulic system permits efficient operation with a small amount of contamination. An increase in this amount of contamination can cause problems in the hydraulic system. The following list includes some of these problems.
   (A) Cylinder rod seals leak.
   (B) Control valve spools do not return to neutral.
   (C) Movement of control valve spools is difficult.
   (D) Hydraulic oil becomes too hot.
   (E) Pump gears, housing, and other parts wear rapidly.
   (F) Relief valves or check valves held open by dirt.
   (G) Quick failure of components that have been repaired.
   (H) Cycle times are slow; machine does not have enough power.

3. If your machine has any of these problems, check the hydraulic oil for contamination. See types of contamination below. If you find contamination, use the Portable Filter to clean the hydraulic system.

NOTE: *There are two types of contamination, microscopic and visible.*

4. Microscopic contamination occurs when very fine particles of foreign material are in suspension in the hydraulic oil.

5. These particles are too small to see or feel. Microscopic contamination can be found by identification of the following problems or by testing in a laboratory. Examples of the problems:
   (A) Cylinder rod seal leak.
   (B) Control valve spools do not return to NEUTRAL.
   (C) The hydraulic system has a high operating temperature.

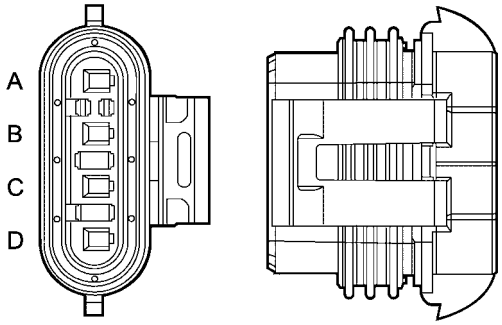
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Connector - Component diagram frame 01 (A.30.A.87 - C.20.F.01)

435, 445, 445CT

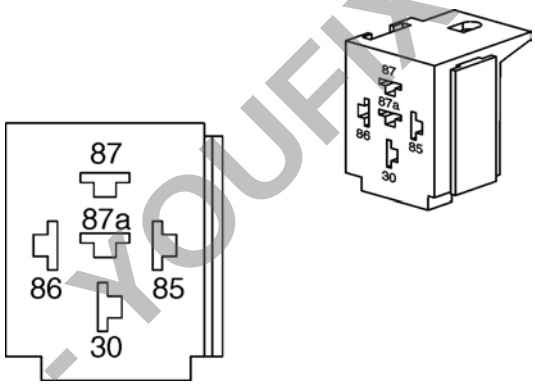
Connector 4



PAC_12186568 1

Cavity	Circuit ID	Description
A	124A (R)	To connector 8A pin B4
B	121A (Y)	From Alternator to 50 ohm resistor

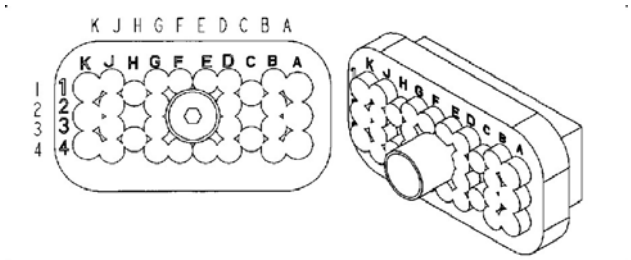
Connector 7



245731C1 2

Cavity	Circuit ID	Description
30	170A (R)	From 40 amp circuit breaker to connector 7 pin 30
85	178C (B)	From start relay to ground
85	178D (B)	From start relay to main power relay
86	622B (W)	To connector 127A pin B
87	625A (W)	From start relay to starter solenoid

Connector 8



256357A1 3

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TRANSMISSION Hydrostatic - Troubleshooting (C.20.F - G.40.A.10)

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Problem	Possible Cause	Correction
One transmission works (Left or Right) works correctly and the other does not.	1. Check to see that the direction control levers are adjusted correctly. Refer to for adjustment procedure.	A. Is there still a problem? No: Troubleshooting complete. Yes: Go to Next Step 2.
	2. Check for charge pressure at the servo bypass valve fitting while in neutral.	A. Charge pressure OK? Stroke the control lever. A 20 psi or greater drop indicates a leaky servo. B. Is there still a problem? No: Troubleshooting complete. Yes: Go to Step 3.
	3. Check the pressure setting of the circuit relief valve for the transmission with the problem.	A. Preform Checking the Circuit Relief Valve Test Refer to **Relief valve - Pressure test (C.20.F.16 - F.40.A.30)** B. Is there still a problem? No: Troubleshooting complete. Yes: Go to Step 4.
	4. There is too much leakage in the hydrostatic system.	Disassemble and inspect the piston pump and drive. Repair as required.
Machine Does Not Have Enough Power	1. Full throttle and rated engine speeds are incorrect.	A. Is there still a problem? No: Troubleshooting complete. Yes: Go to Step 2.
	2. Full throttle engine speed is good, rated engine speed is low.	A. Problem in engine or fuel system. Repair as required. B. Is there still a problem? No: Troubleshooting complete. Yes: Go to Step 3.
	3. Insufficient Charge Pressure	Perform Checking Charge Pressure Test **Charge pump - Pressure test (A.10.A.21 - F.40.A.30)** Also check for damaged parts. Adjust pressure setting. A. Is there still a problem? No: Troubleshooting complete. Yes: Go to Step 4.
	4. Faulty hydrostatic pump or hydrostatic drive motors.	Disassemble and inspect the hydrostatic pump and hydrostatic drive motors. Repair as required.

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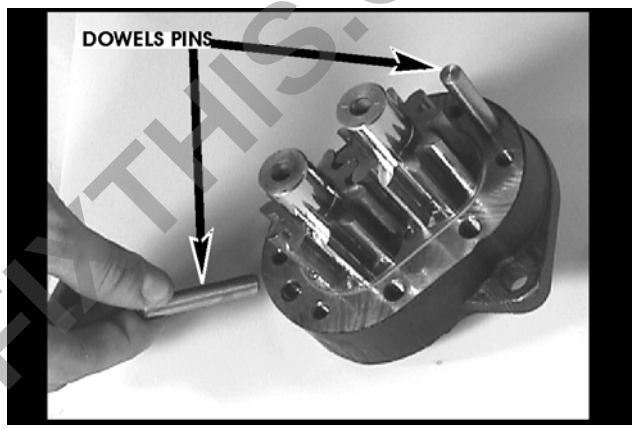
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4. Remove the gear plate.



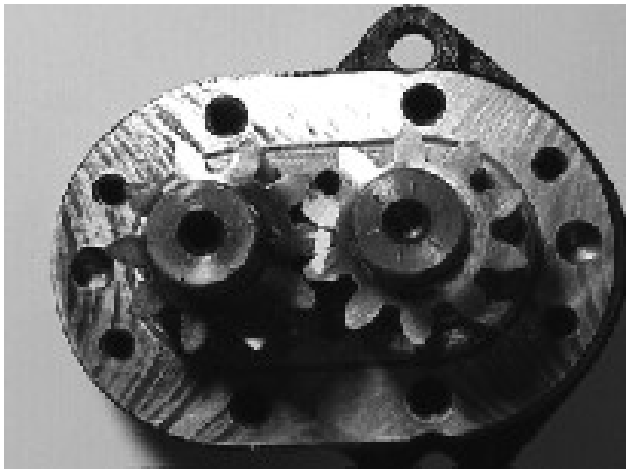
GD98J804 4

5. Remove the dowel pins.



GD98J805_2 5

6. Rotate the gear teeth until one gear tooth is centered inside two gear teeth. Draw a mark with a white marker. This mark will be referenced during assembly.



GD98J806 6

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Relief valve - General specification (A.16.A.16 - D.40.A.10)

435, 445, 445CT

System Relief Valve	
Pressure Setting	**20670 kPa (207 bar) (3000 psi)**

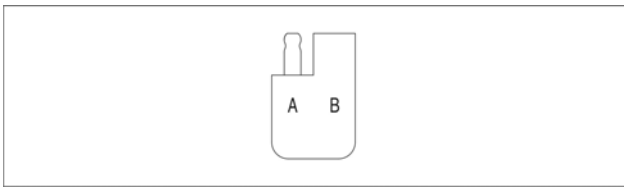
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Connector - Component diagram frame 15 (A.30.A.87 - C.20.F.15)

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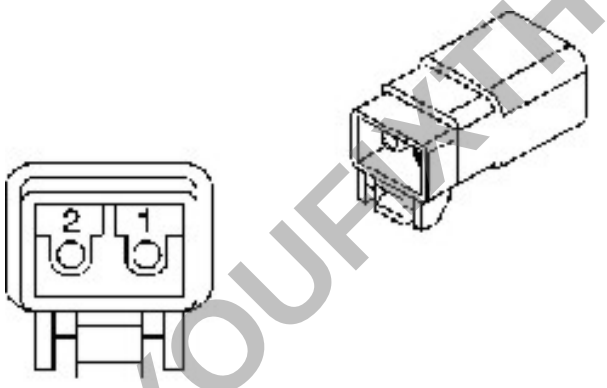
Connector 73



cnh_style-24 1

Cavity	Circuit ID	Description
A	178HB (B)	From connector 76 pin 2
B	547E (B)	To connector 76 pin 1
A	178HA (B)	From connector 115A pin B
B	547D (T)	To connector 115A pin A to ground

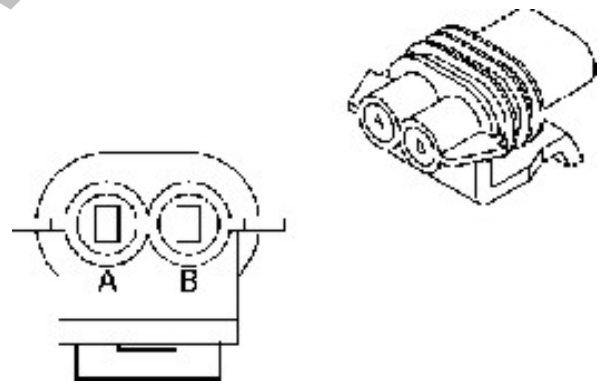
Connector 76



225316c1 2

Cavity	Circuit ID	Description
1	547E (B)	From connector 73 pin B
2	178HB (B)	To connector 73 pin A

Connector 115



256340a1 3

Cavity	Circuit ID	Description
A	547B (T)	From connector 75 pin A Hydraulic Coupler Switch
B	178BL (B)	To ground

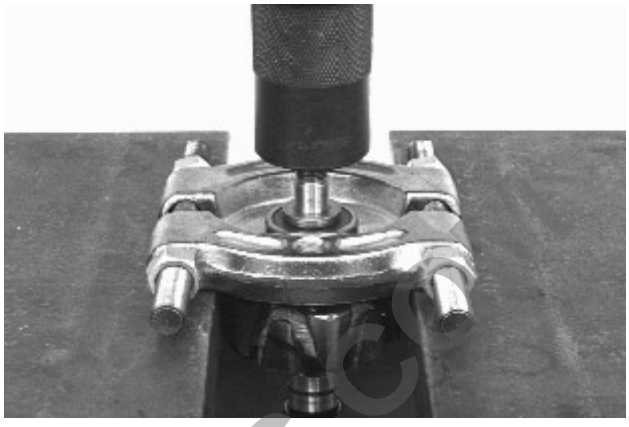
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Alternator - Replace (A.30.A.82 - F.10.A.30)

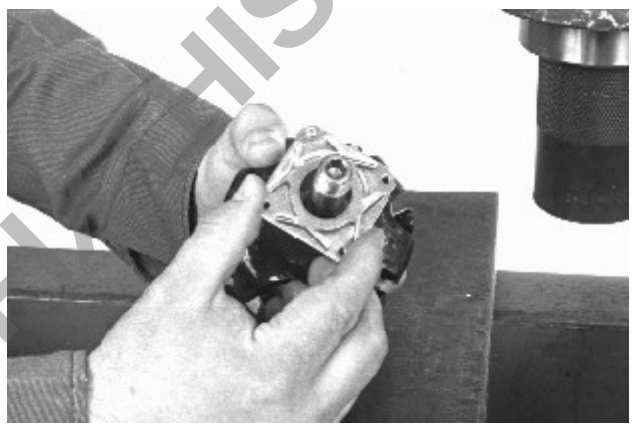
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1. Use a suitable support between the front bearing and the bearing retainer on the rotor shaft. Press the rotor shaft out of the front bearing and the spacer.



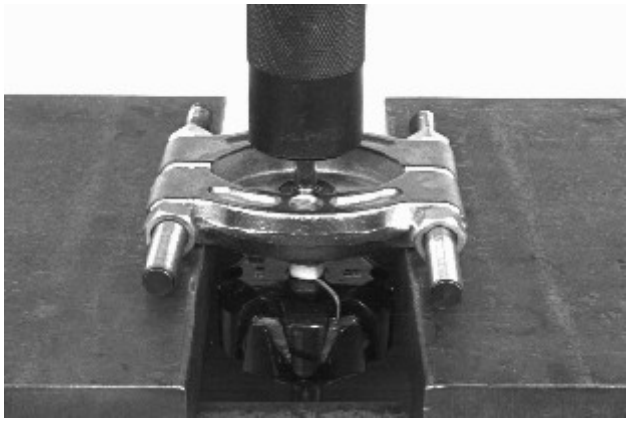
B8971426M 1

2. Remove the bearing retainer.



B8971429M 2

3. Use a suitable support between the rear bearing and the slip ring on the other end of the rotor shaft. Press the rotor shaft out of the rear bearing.



B8971432M 3

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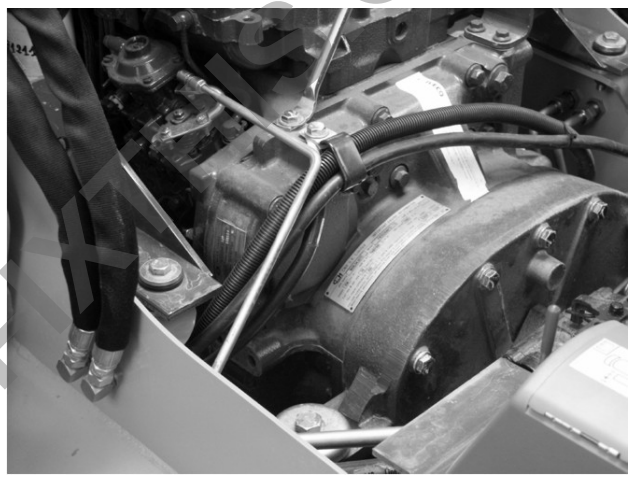
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35. Release the clamp and disconnect the fuel line from the in-line fuel filter to the fuel injection pump. Drain the fuel from the lines into an acceptable container.



bd04c020x 24

36. Locate the wiring harness at the rear of the engine. Loosen and remove the clamps which fasten the harness to the engine. Move the harness away from the engine.



bd04c024 25

37. Disconnect the wire from the engine oil pressure switch.

38. Disconnect the wire from the engine coolant temperature sender.

39. Locate any remaining electrical harness on both sides of the engine which may be fastened to the engine. Remove the clamps from the engine and move the harness away from the engine. Remove all tie straps that fasten the engine harness to the engine. Make a record of the location for use during installation.

40. Loosen and remove the nuts on the ball joints for the control lever linkage. Remove the control lever linkage from the tandem pump mounting locations.



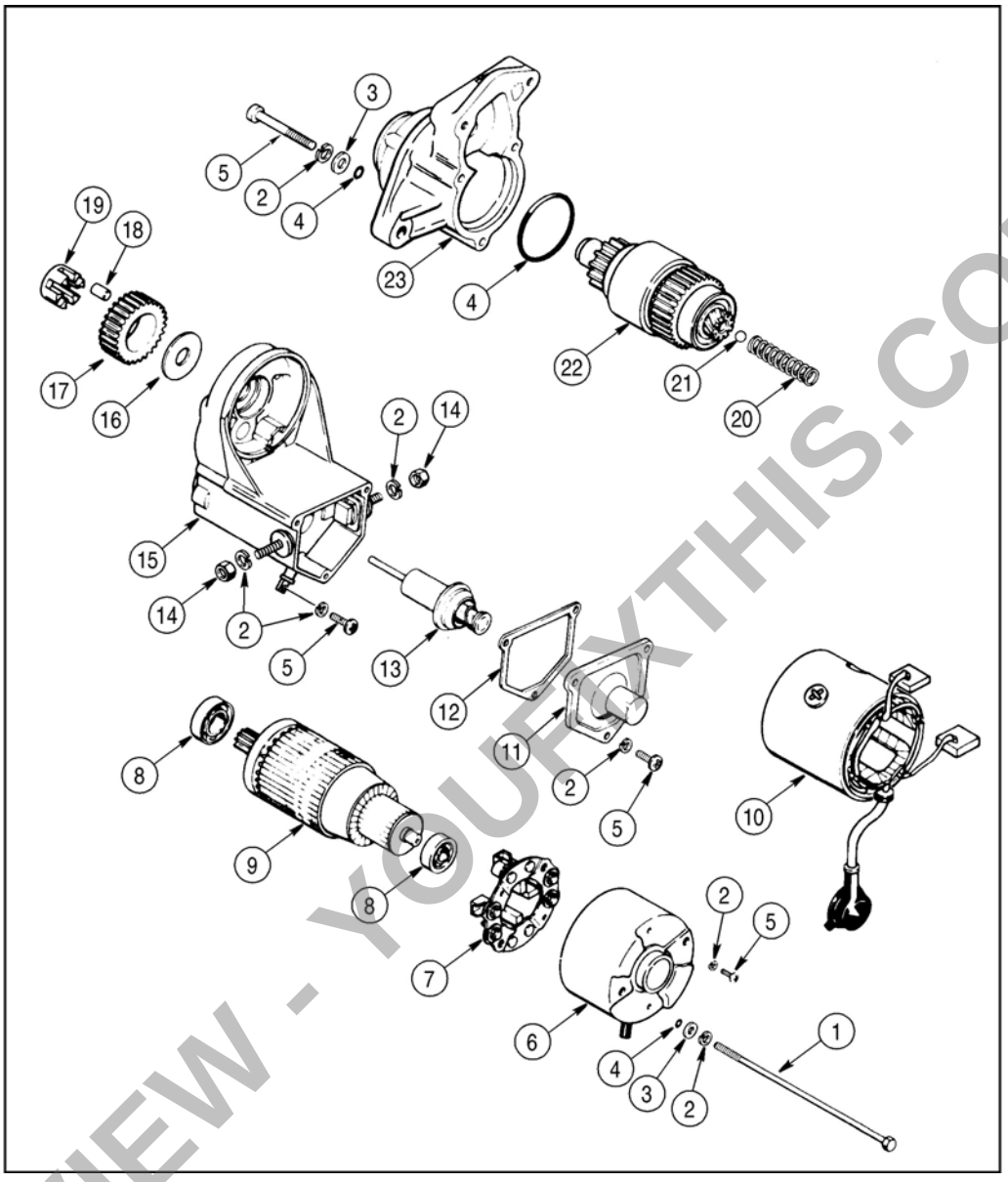
bd04c027 26

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Engine starter - Sectional view (B.80.A.82 - C.10.A.30)

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B831437 1

1. Bolt	7. Brush holder	13. Plunger	19. Bearing cage
2. Lock washer	8. Bearing	14. Nut	20. Spring
3. Flat washer	9. Armature	15. Starter solenoid assembly	21. Steel ball
4. O-ring	10. Field frame	16. Thrust washer	22. Starter drive
5. Screw	11. Cover	17. Idler gear	23. Starter drive housing
6. Cover	12. Gasket	18. Roller (5)	

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Pump Right hand pump - Disassemble (C.20.F.20.21 - F.10.A.25) 21
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Pump Left hand pump - Disassemble (C.20.F.20.20 - F.10.A.25) 61
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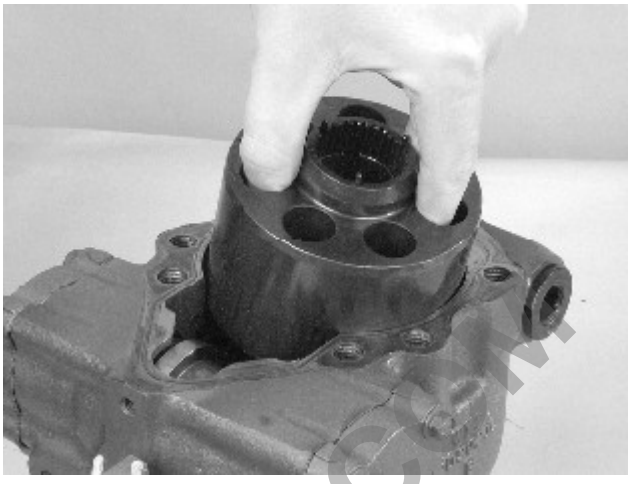
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42. Insert the cylinder block into the pump.



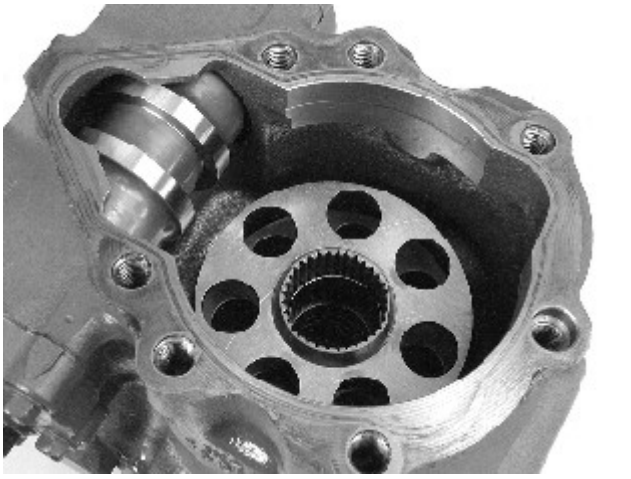
BD01H196 42

43. Align and install the guide on top of the pins.



BD01H248 43

44. Slide the retainer on top the guide. Ensure that the holes of the retainer are properly aligned with the holes of the cylinder block

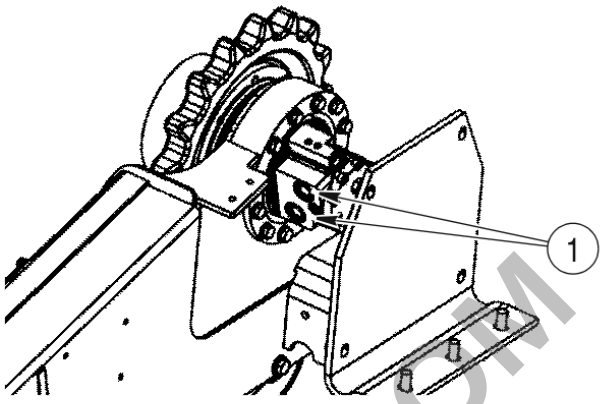


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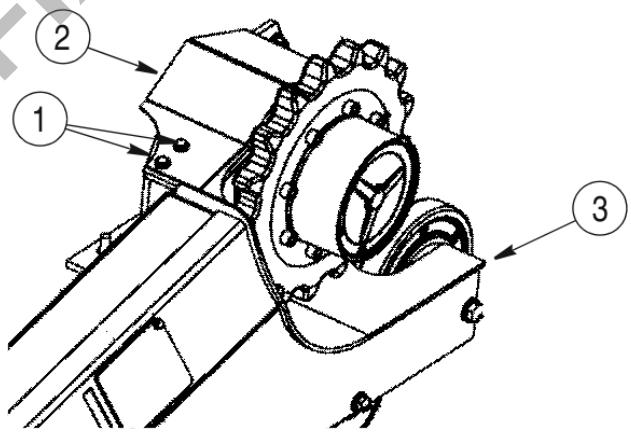
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5. Start the vacuum pump. Remove the caps from the lines and connect the lines to the drive motor. Tighten all of the hydraulic lines.



bs05c164_1 4

6. Stop the vacuum pump and remove the vacuum pump from the reservoir.
   Next Operation: **Rubber track - Install (D.50.B.47 - F.10.A.15)** and install the track on the machine.
   Next Operation: **Rubber track - Tension adjust (D.50.B.47 - F.45.A.40)** and adjust the tension of the track.
7. Start and run the engine at low idle for 2 to 5 minutes and check for any leaks.
8. Stop the engine.
9. Install the rear cover **(2)** onto the main frame **(3)**. Install the upper and lower mounting bolts **(1)** into the rear cover **(2)**. Tighten the mounting bolts **(1)**.



bs05c139_1 5

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

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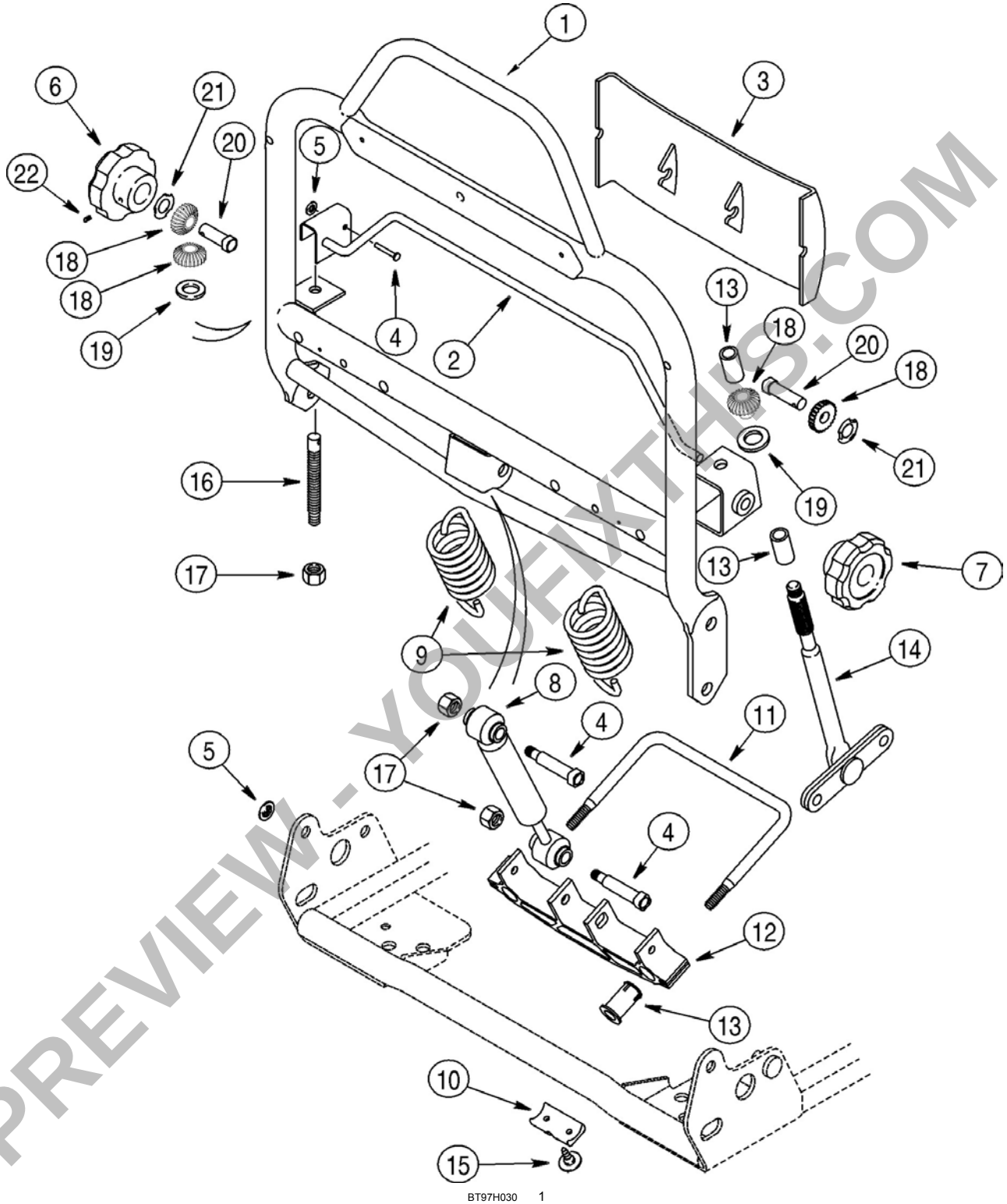
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Seat suspension system - Exploded view (E.32.A.72 - C.10.A.20)

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Suspension Seat (if equipped)		
1. Backrest frame	9. Spring	16. Screw
2. Crank	10. Spring arm bushing	17. Nut
3. Lumbar support	11. Spring arm	18. Bevel gear
4. PIN	12. Saddle	19. Thrust washer
5. Special nut	13. Bushing	20. Shaft
6. Lumbar adjustment knob	14. Screw assembly	21. Spring washer

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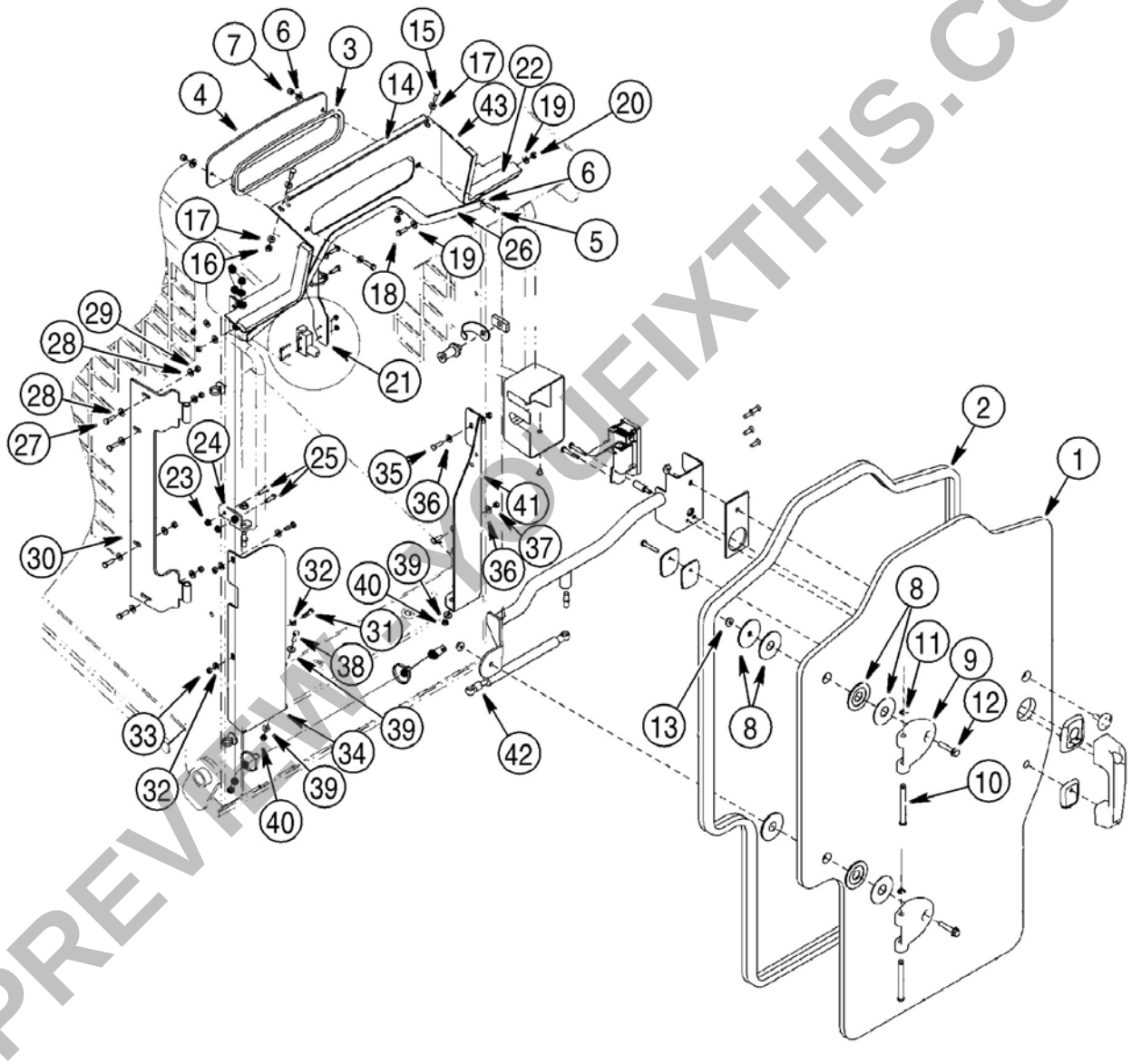
ROPS Canopy - Top and Side Windows (If Equipped)	
1. Top window	5. Locknut
2. Seal	6. Frame
3. Bolt	7. Washer
4. Cap	

20. INSTALLATION OF THE DOOR FRAME WINDOW.

NOTE: *Refer to the following illustration.*

21. Put the seal **(3)** and window **(4)** in place on the bracket **(43)**.

22. Install the bolts **(5)**, washers **(6)**, and lock nuts **(8)**.



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ROPS Canopy - Front Door Mounting and Frame				
1. Front door	10. PIN	19. Washer	28. Washer	37. Lock nut
2. Seal	11. Retaining ring	20. Lock nut	29. Locknut	38. Bracket
3. Seal	12. Flange bolt	21. Bracket	30. Bracket	39. Washer
4. Window	13. Flange nut	22. Seal	31. Bolt	40. Lock nut
5. Bolt	14. Seal	23. Flange nut	32. Washer	41. Bracket
6. Washer	15. Bolt	24. Bracket	33. Lock nut	42. Gas strut cylinder
7. Lock nut	16. Lock nut	25. Bolt	34. Bracket	43. Bracket

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16. Remove the clutch coil assembly.



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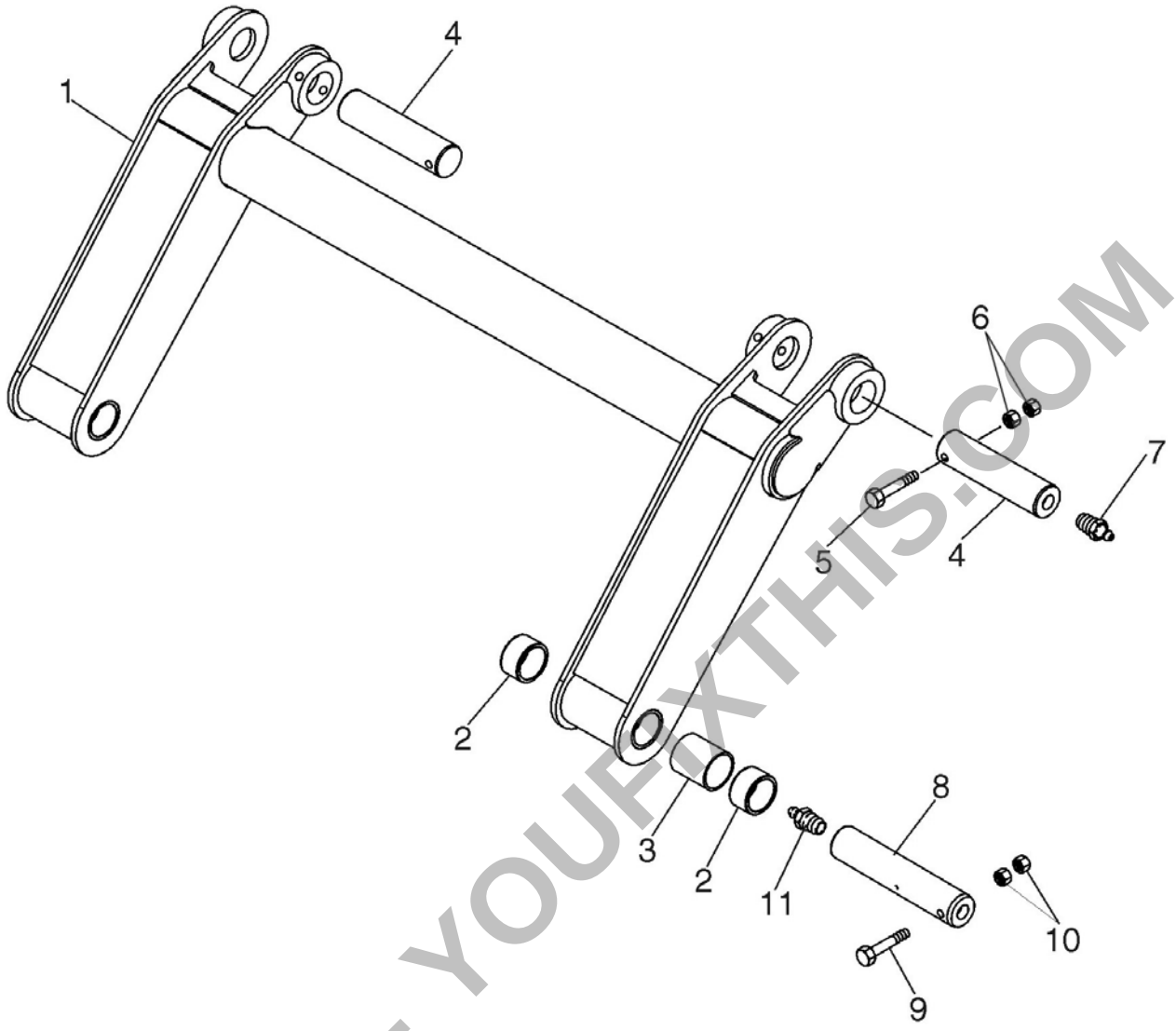
17. Remove the internal snap ring and remove the bearing from the pulley.



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bs04d136 2

Loader H-Frame Arm Assembly		
1. Arm assembly	5. Bolt	9. Bolt
2. Bushing	6. Lock nut	10. Lock nut
3. Spacer	7. Grease fitting	11. Grease fitting
4. PIN	8. PIN	

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Control valve - Install (H.50.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)**

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