5200,5300, 5400 and 5500 Tractors

PREVIEW - YOUFIXTHIS.COM

For complete service information also see:

3029, 4039, 4045, 6059 and 6068 Engines CTM8

Engine Accessories CTM11

John Deere Augusta
TM1520 (09MAR92)

LITHO IN U.S.A.
ENGLISH

Download full manual at youfixthis.com

Contents

SECTION 10—GENERAL INFORMATION
- Group 05—Safety
- Group 10—General Specifications
- Group 15—Repair Specifications
- Group 20—Fuel and Lubricants
- Group 25—Serial Number Locations
- Group 30—Features and Accessories

SECTION 20—ENGINE REPAIR
- Group 05—Engine
- Group 10—Cooling System

SECTION 30—FUEL AND AIR REPAIR
- Group 05—Fuel System
- Group 10—Air Intake System
- Group 15—Speed Control Linkage

SECTION 40—ELECTRICAL REPAIR
- Group 05—Battery, Starter and Alternator
- Group 10—Electrical System Components
- Group 15—Wiring Harness

SECTION 50—POWER TRAIN REPAIR
- Group 05—Clutch Housing
- Group 10—Dual Clutch Assembly
- Group 15—Collar Shift Transmission
- Group 20—Rear PTO Drive Shaft
- Group 25—Differential
- Group 30—Final Drives
- Group 35—Mechanical Front Wheel Drive
- Group 40—Creeper Assembly

SECTION 60—STEERING AND BRAKE REPAIR
- Group 05—Steering Repair
- Group 10—Brake Repair

SECTION 70—HYDRAULIC REPAIR
- Group 05—Hydraulic Pump and Filter
- Group 10—Rockshaft
- Group 15—Dual Selective Control Valve
- Group 16—Single (Third) Selective Control Valve

SECTION 80—MISCELLANEOUS REPAIR
- Group 05—Front Axle—2WD
- Group 10—Wheels
- Group 15—3-Point Hitch

SECTION 90—OPERATOR STATION REPAIR
- Group 05—Seat and Support
- Group 10—ROLL-GARD

SECTION 210—TEST AND ADJUSTMENT SPECIFICATIONS/OPERATIONAL CHECKOUT PROCEDURES
- Group 05—Test and Adjustment Specifications
- Group 10—Operational Checkout Procedures

SECTION 220—ENGINE OPERATION, TESTS AND ADJUSTMENTS
- Group 05—Component Location
- Group 10—Theory of Operation
- Group 15—Diagnosis, Tests and Adjustments

SECTION 230—FUEL/AIR OPERATION, TESTS AND ADJUSTMENTS
- Group 05—Component Location
- Group 10—Theory of Operation
- Group 15—Diagnosis, Tests and Adjustments

SECTION 240—ELECTRICAL SYSTEM OPERATION, TESTS AND ADJUSTMENTS
- Group 05—Component Location
- Group 10—Theory of Operation
- Group 15—Diagnosis, Tests and Adjustments
- Group 20—Wiring Schematics

SECTION 250—POWER TRAIN OPERATION, TESTS AND ADJUSTMENTS
- Group 05—Component Location
- Group 10—Theory of Operation
- Group 15—Diagnosis, Tests and Adjustments

SECTION 260—STEERING AND BRAKE OPERATION, TESTS AND ADJUSTMENTS
- Group 05—Component Location
- Group 10—Theory of Operation

Continued on next page

PREVIEW - YOUFIXTHIS.COM

All information, illustrations and specifications in this manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

TM1520-19-09MAR92

COPYRIGHT© 1991
DEERE & COMPANY
Moline, Ilinois
All rights reserved
A John Deere ILLUSTRUCTION® Manual

Download full manual at youfixthis.com

RECOGNIZE SAFETY INFORMATION

This is the safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.



T81389 -UN-07DEC88

DX,ALERT -19-04JUN90

UNDERSTAND SIGNAL WORDS

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards.

DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.



TS187 -19-30SEP88

DX,SIGNAL -19-09JAN92

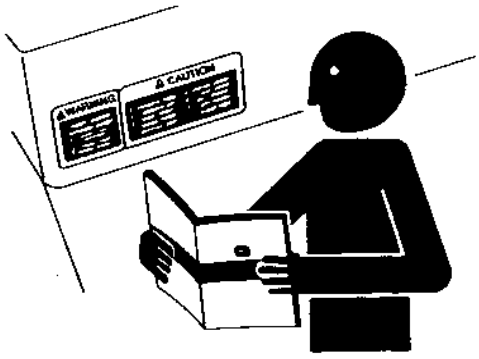
FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from your John Deere dealer.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

If you do not understand any part of this manual and need assistance, contact your John Deere dealer.



TS201 -UN-23AUG88

DX,READ -19-04JUN90

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

MACHINE SPECIFICATIONS

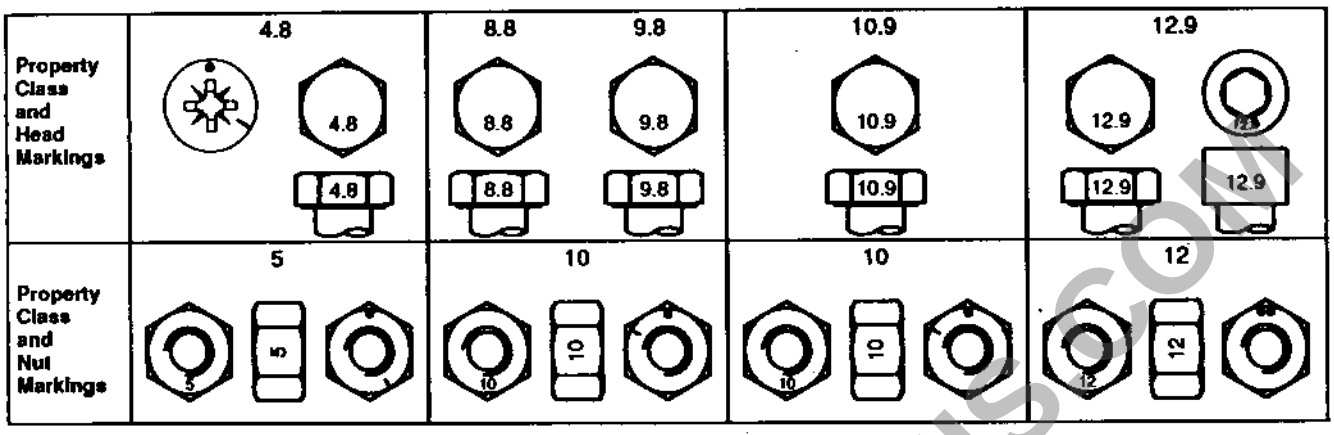
	5200	5300	5400
ENGINE			
Make	John Deere	John Deere	John Deere
Type	Diesel	Diesel	Diesel
Model	3029DLV01	3029DLV02	3029TLV01
Aspiration	Natural	Natural	Turbocharged
Horsepower	30 kW (40 hp)	37 kW (50 hp)	45 kW (60 hp)
Rated Engine Speed	2400 rpm	2400 rpm	2400 rpm
Operating Range	1600—2400 rpm	1600—2400 rpm	1600—2400 rpm
Number of Cylinders	3	3	3
Displacement	2.9L (179 cu in.)	2.9L (179 cu in.)	2.9L (179 cu in.)
Bore and Stroke	106 x 110 mm (4.19 x 4.33 in.)	106 x 110 mm (4.19 x 4.33 in.)	106 x 110 mm (4.19 x 4.33 in.)
Compression Ratio	17.8:1	17.8:1	17.8:1
Fast Idle	2575 ± 50 rpm	2575 ± 50 rpm	2575 ± 50 rpm
Slow Idle	825 rpm	825 rpm	825 rpm
Start Aid	Air Heater	Air Heater	Air Heater
Firing Order	1-2-3	1-2-3	1-2-3
Timing	18˚ BTDC	18˚ BTDC	16˚ BTDC
Lubrication	Pressurized	Pressurized	Pressurized
Cooling	Liquid Cooled	Liquid Cooled	Liquid Cooled
Air Cleaner	Dry Type w/Safety Element	Dry Type w/Safety Element	Dry Type w/Safety Element
Engine Shutoff	Key Switch	Key Switch	Key Switch
FUEL SYSTEM			
Type	Direct Injection	Direct Injection	Direct injection
Injection Pump Type	Rotary w/Electric Shutoff	Rotary w/Electric Shutoff	Rotary w/Electric Shutoff
ELECTRICAL SYSTEM			
Type	12 Volt	12 Volt	12 Volt
Battery Size	700 Cold Cranking Amps at -18˚C	700 Cold Cranking Amps at -18˚C	700 Cold Cranking Amps at -18˚C
Alternator	40 Amp	40 Amp	40 Amp

LV,1010HA,A1 -19-05MAR92

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

METRIC BOLT AND CAP SCREW TORQUE VALUES



TS1163 -19-04MAR91

Size	Class 4.8				Class 8.8 or 9.8				Class 10.9				Class 12.9			
	Lubricated[a]		Dry[a]		Lubricated[a]		Dry[a]		Lubricated[a]		Dry[a]		Lubricated[a]		Dry[a]	
	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft	N·m	lb-ft
M6	4.8	3.5	6	4.5	9	6.5	11	8.5	13	9.5	17	12	15	11.5	19	14.5
M8	12	8.5	15	11	22	16	28	20	32	24	40	30	37	28	47	35
M10	23	17	29	21	43	32	55	40	63	47	80	60	75	55	95	70
M12	40	29	50	37	75	55	95	70	110	80	140	105	130	95	165	120
M14	63	47	80	60	120	88	150	110	175	130	225	165	205	150	260	190
M16	100	73	125	92	190	140	240	175	275	200	350	225	320	240	400	300
M18	135	100	175	125	260	195	330	250	375	275	475	350	440	325	560	410
M20	190	140	240	180	375	275	475	350	530	400	675	500	625	460	800	580
M22	260	190	330	250	510	375	650	475	725	540	925	675	850	625	1075	800
M24	330	250	425	310	650	475	825	600	925	675	1150	850	1075	800	1350	1000
M27	490	360	625	450	950	700	1200	875	1350	1000	1700	1250	1600	1150	2000	1500
M30	675	490	850	625	1300	950	1650	1200	1850	1350	2300	1700	2150	1600	2700	2000
M33	900	675	1150	850	1750	1300	220	1650	2500	1850	3150	2350	2900	2150	3700	2750
M36	1150	850	1450	1075	2250	1650	2850	2100	3200	2350	4050	3000	3750	2750	4750	3500

DO NOT use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only. Check tightness of fasteners periodically.

Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical property class.

Fasteners should be replaced with the same or higher property class. If higher property class fasteners are used, these should only be tightened to the strength of the original.

Make sure fasteners threads are clean and that you properly start thread engagement. This will prevent them from failing when tightening.

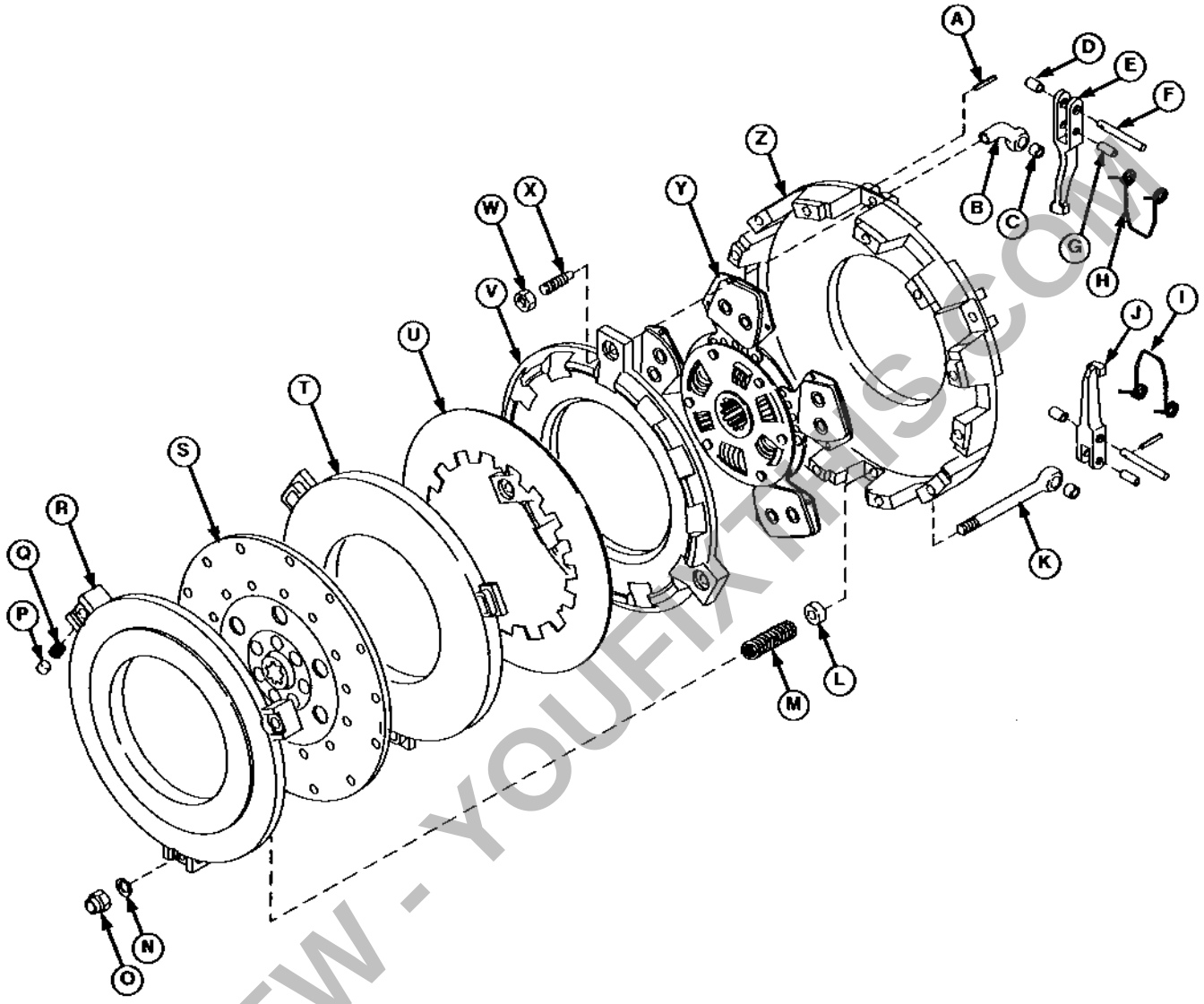
Tighten plastic insert or crimped steel-type lock nuts to approximately 50 percent of the dry torque shown in the chart, applied to the nut, not to the bolt head. Tighten toothed or serrated-type lock nuts to the full torque value.

[a] *"Lubricated means coated with a lubricant such as engine oil, or fasteners with phosphate and oil coatings. "Dry means plain or zinc plated without any lubrication.*

DX,TORQ2 -19-05JUN91

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com



Dual Clutch Assembly

LV030AE -UN-03MAR92

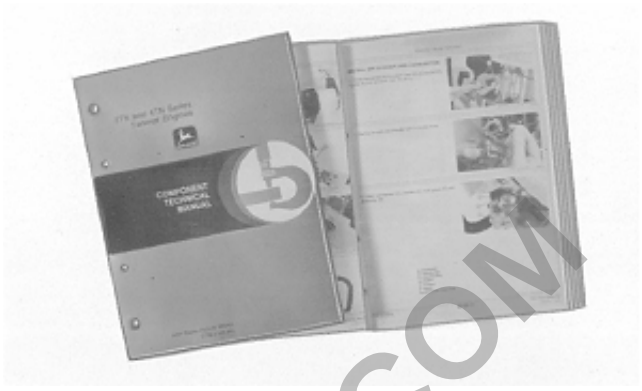
LV,5010HA,A3A -19-09MAR92

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

JOHN DEERE ENGINE REPAIR—USE CTM8

For complete repair information the component technica manual (CTM) is also required. Use the component technical manual in conjunction with this machine manual.



TS225 -UN-17JAN89

LV,2005HA,A1 -19-09MAR92

REMOVE ENGINE

1. Remove radiator. (See procedure in Group 10.)

2. Remove battery. (See procedure in Section 40, Group 10.)

3. Remove fuel filter. (See procedure in Section 30, Group 05.)

4. Remove drive shaft, if equipped. (See procedure in Section 50, Group 35.)

5. Disconnect wiring lead (C).

NOTE: Close all openings using caps and plugs.

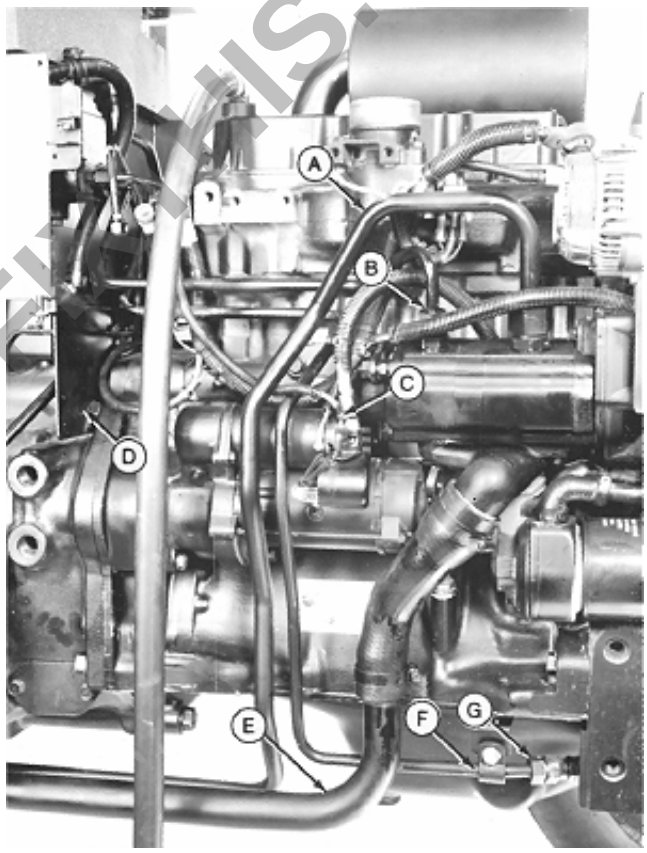
Support suction line (E). Transmission/hydraulic oil will spill out of hose if line drops below transmission/reservoir oil level.

6. Disconnect hydraulic lines (B, E and G).

7. Remove clamp (F).

8. Remove line (A).

9. Remove plate (D).



LV217 -UN-25FEB92

A—Hydraulic Pump-to-Inlet Housing Line
B—Hydraulic Pump-to-Steering Valve Line
C—Starter-to-Key Switch Wiring Lead
D—Right-Hand Plate
E—Suction Line
F—Clamp
G—Hydraulic Steering Line

LV,2005HA,A2 -19-09MAR92

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

ENGINE TURNS OVER BUT WILL NOT START OR STARTS HARD

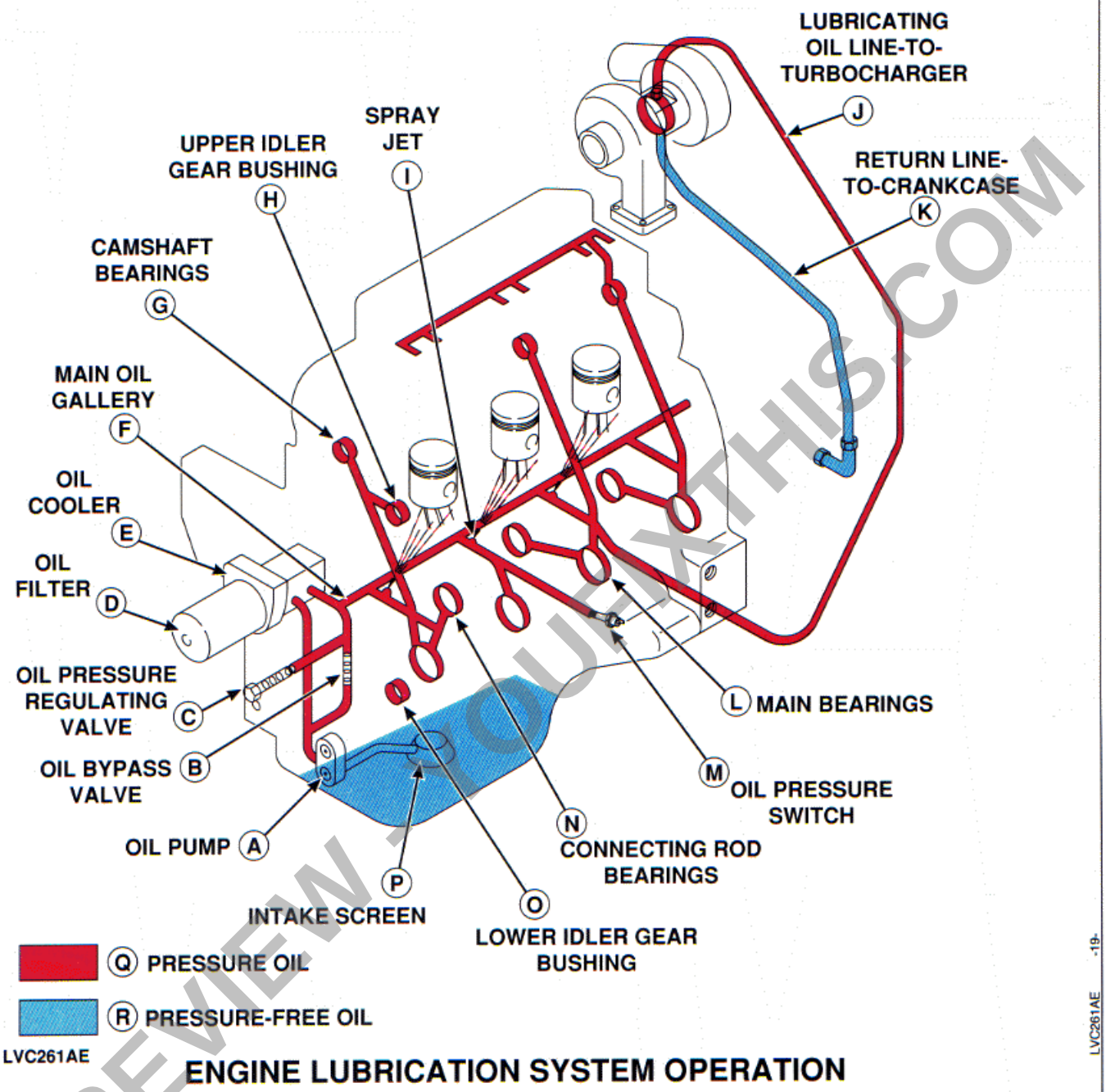
CONDITIONS:
- Transmission in park.
- PTO disengaged.
- Key switch OFF.
- Engine and fuel system repair in CTM8.
- Engine and fuel/air tests and adjustments found in this group.
- Ignition and electrical tests in Section 240, Group 15.

Test Location	Normal	If Not Normal
1. Fuel tank cap.	No pressure or vacuum when removed from tank.	Replace tank vent or hose.
2. Fuel tank.	Diesel fuel of correct grade for ambient temperature.	Replace with correct fuel.
3. Fuel shut-off solenoid.	Opens to allow fuel flow when key switch is turned on.	Reset solenoid by turning key switch off, then on.
4. Fuel filter.	Fuel flows at outlet when primer pump operated.	Drain water and sediment. Replace element. Bleed air from supply line.
5. Fuel leak-off line.	Small amount of fuel flows when engine running.	Clean or replace line.
6. Starter (not shown).	Turns engine over easily at 90 rpm minimum when engine is cranked.	Check starter and starting circuit.
7. Injection pump.	Delivers fuel to injection nozzles when engine is cranked (lines loosened at nozzles). Injection properly timed.	Adjust injection pump timing. Repair pump.
8. Injection nozzles.	Correct spray pattern when tested. See CTM8.	Check fuel lines for obstruction. Clean, repair, adjust or replace as necessary.
9. Valves.	Intake clearance: 0.35 mm (0.014 in.) Exhaust clearance: 0.45 mm (0.018 in.)	Adjust.
10. Manifold heater (not shown).	Element heats when key switch is pushed in.	Check element and circuit.
11. Crankcase oil.	Flows easily.	Replace with correct viscosity.

LV,22015HA,A2 -19-21JAN92

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com



ENGINE LUBRICATION SYSTEM OPERATION

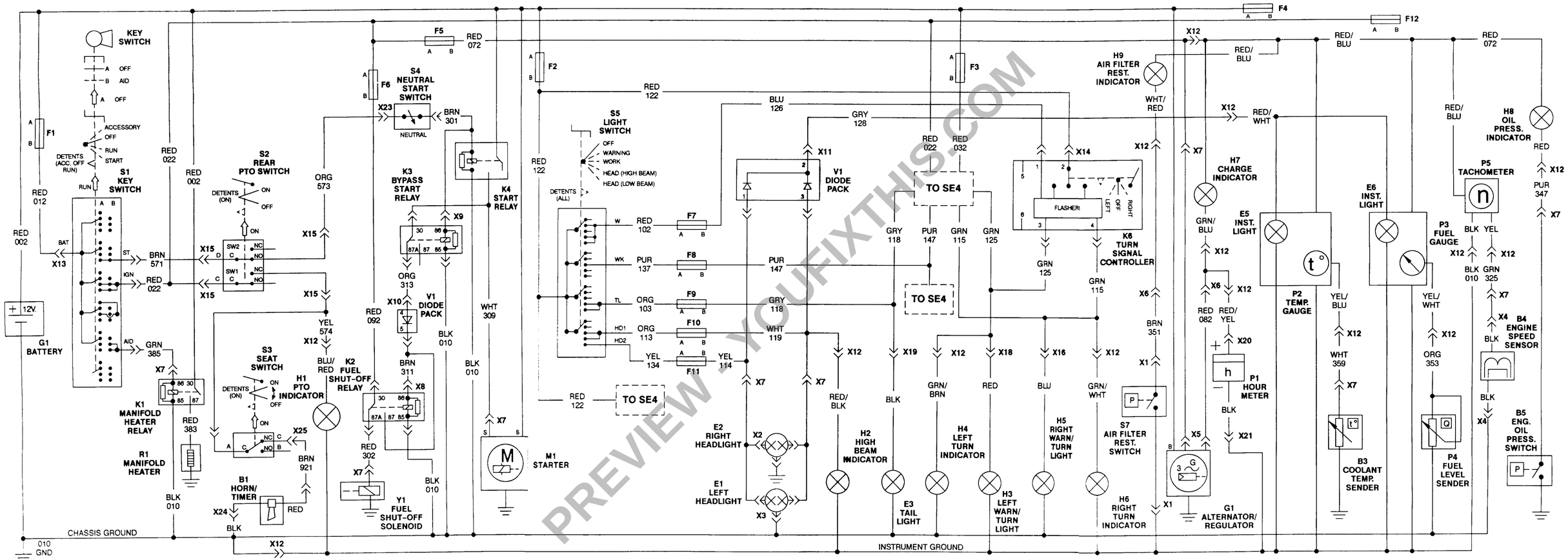
Slide LVC261AE

LVC261AE -19-

LV,22010HA,A3 -19-06MAR92

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com



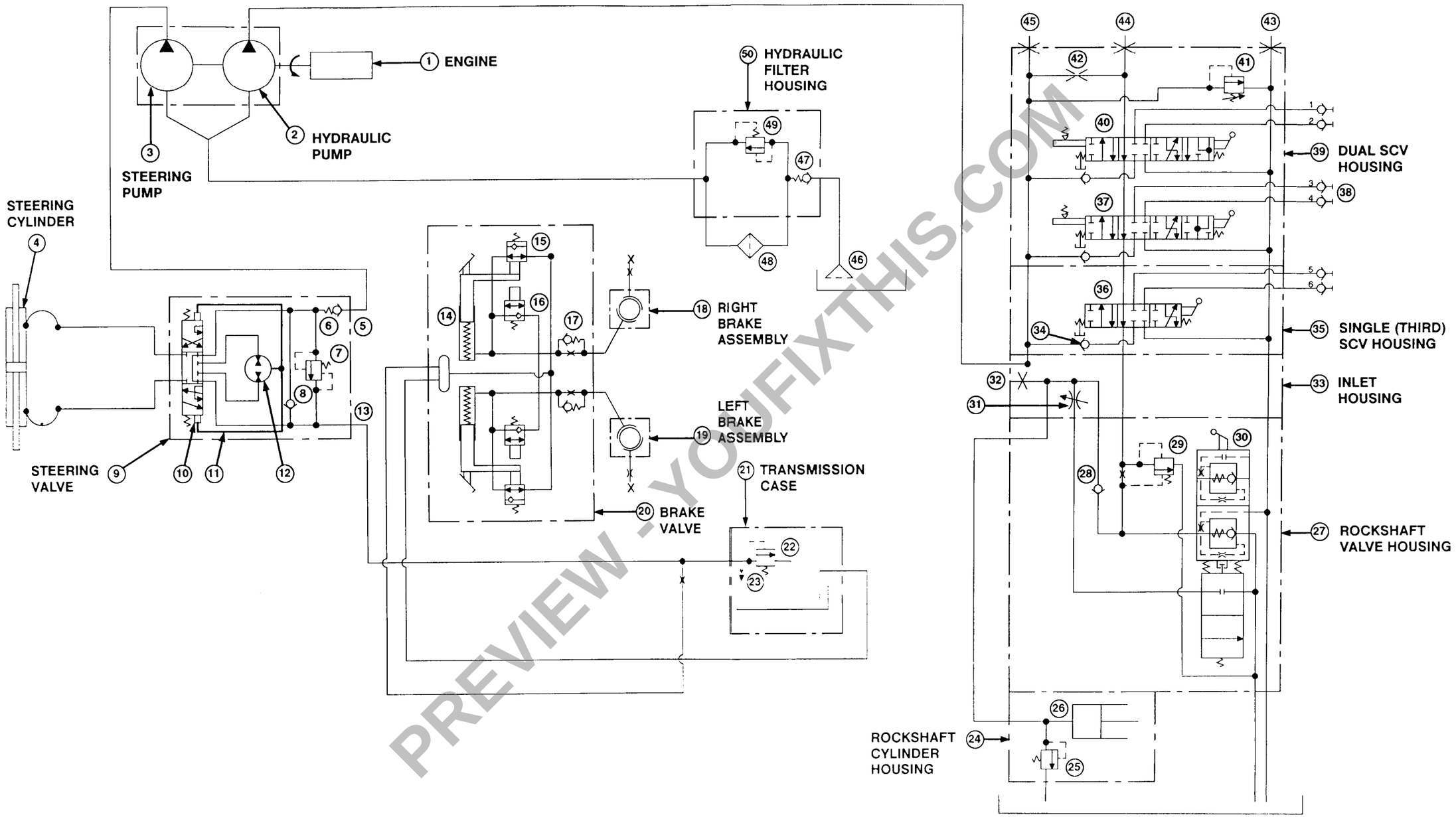
LV041AE

5200, 5300, 5400 ELECTRICAL SCHEMATIC

LV,24020HA,A2 -19-19FEB92

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com



LV045AE

HYDRAULIC SYSTEM SCHEMATIC – WITH SELECTIVE CONTROL VALUES

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

Group 15—Diagnosis, Tests and Adjustments

SECTION 270—HYDRAULIC SYSTEM OPERATION, TESTS AND ADJUSTMENTS
Group 05—Component Location
Group 10—Theory of Operation
Group 15—Diagnosis
Group 16—Hydraulic Tests—Without SCV
Group 17—Hydraulic Tests—With SCV
Group 18—Hydraulic Tests—All
Group 19—Adjustments
Group 20—Hydraulic Schematics

SECTION 299—DEALER FABRICATED TOOLS
Group 00—Dealer Fabricated Tools

Index

PREVIEW - YOUFIXTHIS.COM

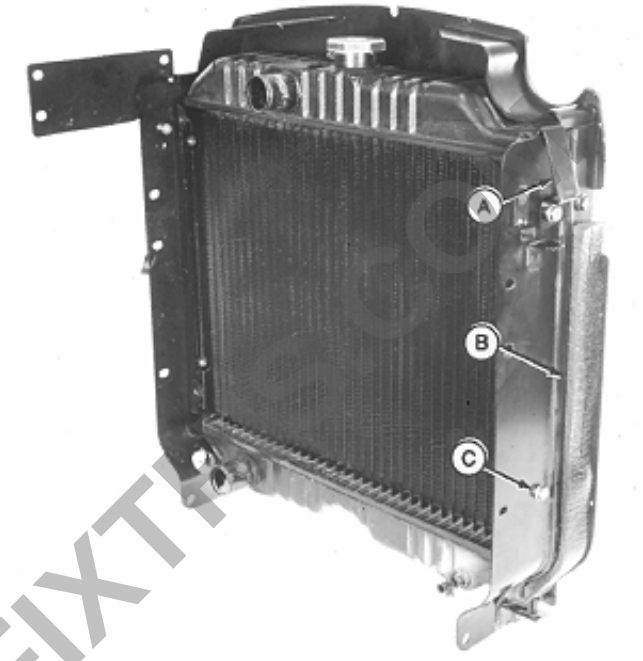
Download full manual at youfixthis.com

INSTALL RADIATOR

1. Install radiator in support.

NOTE: Two cap screws are installed under pad (B).

2. Install eight cap screws (C) and guides (A).



LV218 -UN-25FEB92

LV,2010HA,A6 -19-09MAR92

3. Place fan shroud (B) over cooling fan, with hose notch (A) at top.

4. Install radiator and support assembly.

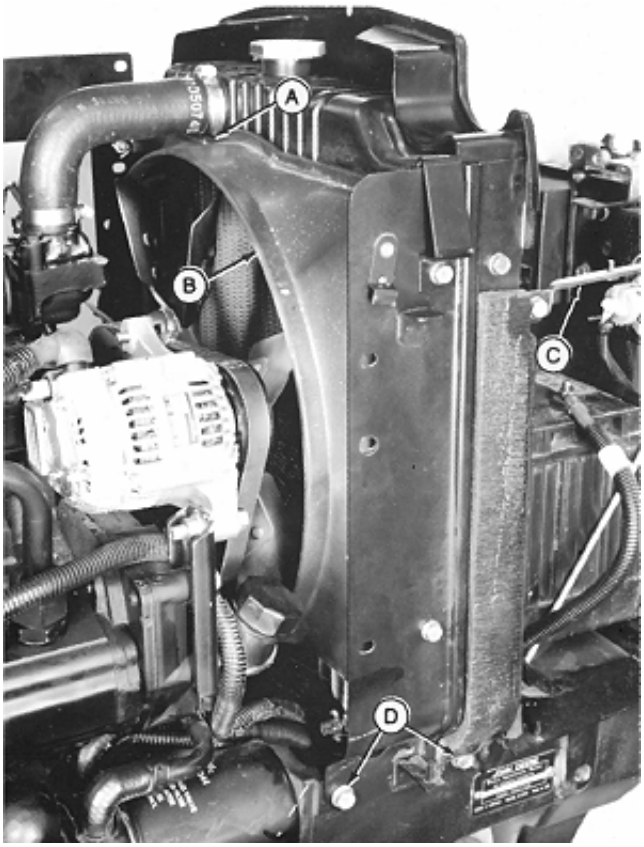
5. Install fan shroud. Adjust shroud for fan clearance.

6. Install upper and lower radiator hoses.

7. Connect brackets (C).

8. Install cap screws (D).

A—Hose Notch
B—Fan Shroud
C—Radiator Support Bracket
D—Cap Screws (4 used)



LV451 -UN-25FEB92

LV,2010HA,A7 -19-09MAR92

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PTO CLUTCH FINGER ADJUSTMENT

1. Separate engine from clutch housing. (See procedure in Group 05.)

NOTE: See Section 299 for instruction to make height gauge.

2. Check PTO clutch finger height (B) using DFLV1A PTO Clutch Finger Height Gauge (C).

3. Turn lock nut (A) in or out until clutch finger touches gauge.

4. Repeat procedures for two remaining fingers.



-UN-03MAR92
LV386

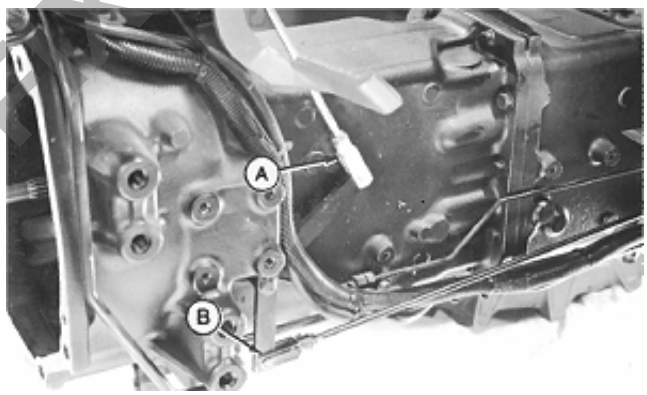
LV,5010HA,A15 -19-09MAR92

REMOVE AND INSPECT CLUTCH RELEASE MECHANISM AND SHAFTS

50
10
10

1. Separate engine from clutch housing. (See procedure in Group 05.)

2. Disconnect traction clutch rod (A) and PTO clutch rod (B).

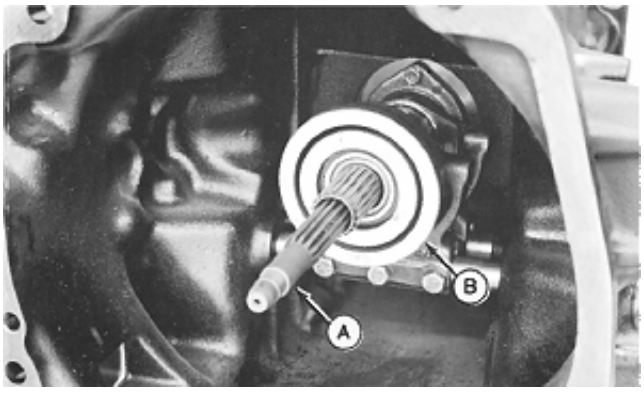


-UN-03MAR92
LV319

LV,5010HA,A16 -19-09MAR92

3. Remove PTO clutch shaft (A).

4. Remove clutch release bearing assembly (B).



-UN-03MAR92
LV307

LV,5010HA,A17 -19-09MAR92

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

DIFFERENTIAL CONE POINT ADJUSTMENT

NOTE: Gears are removed from differential drive shaft for illustration only.

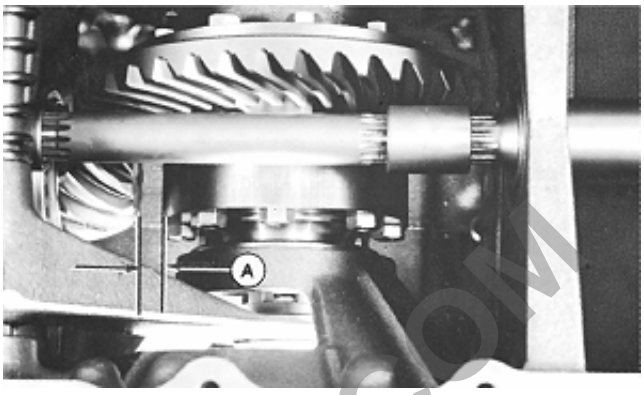
1. Remove rockshaft case. (See procedure in Section 70, Group 10.)

2. Measure cone point with a spacer of known dimension and feeler gauges. Measure spacer (drill bits work well) and add feeler gauges to equal specification. Insert spacer and feeler gauge to determine cone point dimension (A). Add shims to increase cone point, remove shims to decrease.

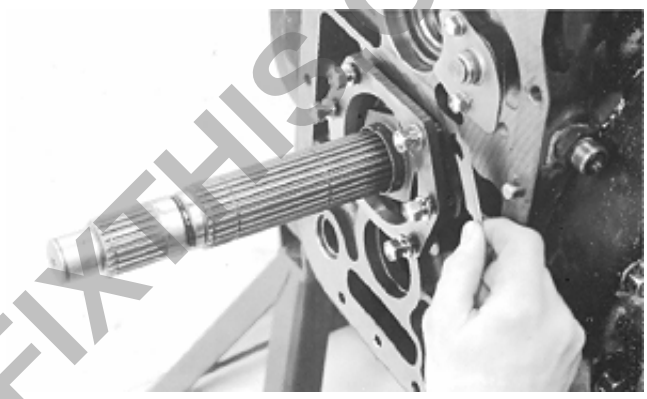
NOTE: Shims are available in three thicknesses; 0.1, 0.3 and 0.5 mm (0.004, 0.012 and 0.020 in.).

3. After adding or removing shims, tighten cap screws to specifications and recheck cone point.

4. Check differential backlash. (See procedure in this group.)



LV465 -UN-03MAR92



LV463 -UN-03MAR92

50
25
12

SPECIFICATIONS

Cone Point	
Dimension (A)	14.5 ± 0.05 mm (0.571 ± 0.002 in.)
Cap Screw Torque	52 N·m (38 lb-ft)

LV,5025HA,A15 -19-09MAR92

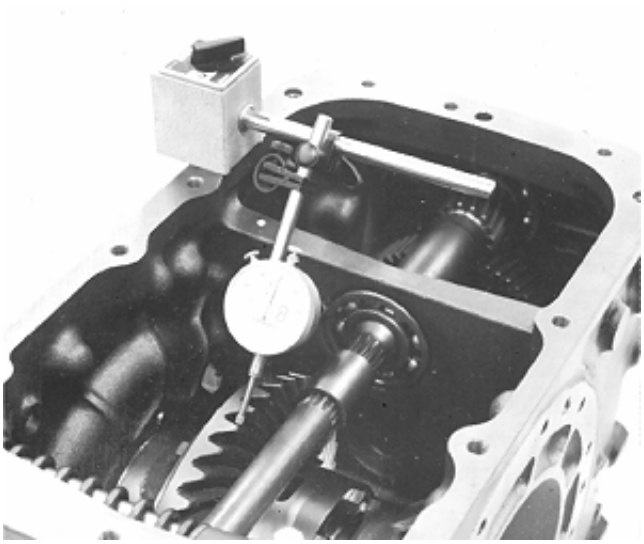
DIFFERENTIAL BACKLASH ADJUSTMENT

IMPORTANT: Always check and adjust backlash after cone point adjustment has been made.

1. While slowly rotating differential carrier, lightly tap carrier with a soft-faced mallet to make sure bearing on other side of ring gear is seated.

2. Attach a dial indicator to housing as shown with contact point positioned on ring gear splines.

3. While holding input shaft, move carrier and ring gear to determine backlash. Backlash should be 0.15—0.20 mm (0.006—0.008 in.).



LV314 -UN-03MAR92

LV,5025HA,A16 -19-09MAR92

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

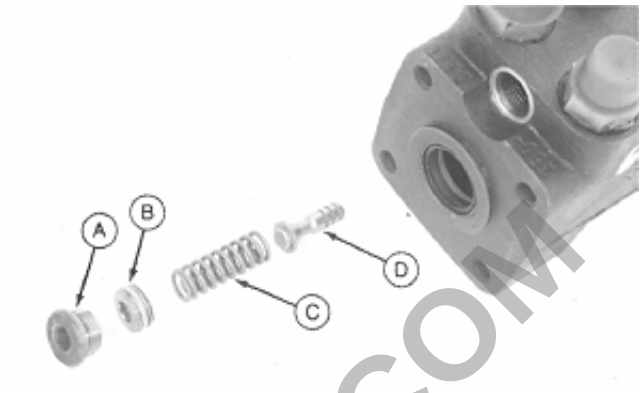
ASSEMBLE STEERING VALVE

NOTE: Apply clean transmission/hydraulic oil to all internal parts.

IMPORTANT: Always replace all O-rings and seals. Damaged or used parts will leak.

1. Install parts (A—D). Install plug (B) the same number of turns as needed to remove the plug.

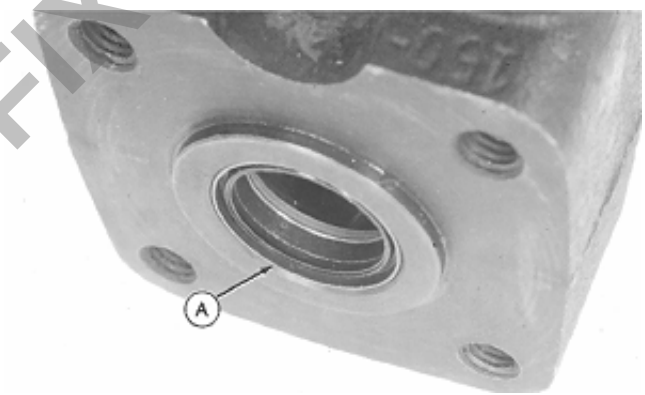
A—Plug and O-Ring
B—Adjustable Plug
C—Spring
D—Piston



-UN-09MAR92
LV012

LV,6005HA,A10 -19-09MAR92

2. Install dust seal (A) with seal lip away from valve body and to bottom of bore.



-UN-09MAR92
LV014

LV,6005HA,A11 -19-09MAR92

60
05
6

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

A—O-Rings (4 used)
B—Main Relief Valve
C—Plug (3 used)
D—Boom Spool
E—Washer
F—Spring
G—Retainer
H—Notched Spool Detent
I—Straight Spool Detent
J—Retainer
K—Spring
L—Washer
M—Bucket Spool
N—Plug (2 used)
O—O-Ring (2 used)
P—Spring (2 used)
Q—Load Check Valve (2 used)

IMPORTANT: Spools and housing are matched and must be replaced as a unit. Make sure spools are installed in their original bores to ensure proper operation.

Use new O-rings during assembly. Damaged or used O-rings will leak.

NOTE: Parts (D—H), (I—M) and (N—Q) are serviced as separate assemblies and are replaced as kits only.

3. Remove parts (A—Q).

4. Clamp flat end of spool in a soft-jawed vise.

NOTE: Spool detent threads are coated with high-strength thread lock and sealer. Applying moderate heat to detent end of spool softens sealer to aid detent removal.

5. Heat spool end. Remove parts (E—H) or (I—L).

6. Inspect all parts for wear and damage. Replace as necessary.

TORQUE SPECIFICATIONS

Main Relief Valve (B)	51 N·m (38 lb-ft)
Spool Detents (H and I)	4 N·m (35 lb-in.)

NOTE: Notched spool detent (H) is used on 5-groove spool (D) only.

7. Install parts (C) and (N—Q).

8. Install main relief valve (B). Tighten to specifications.

9. Apply thread lock and sealer (high-strength) to threads of spool detents (H and I).

10. Install parts (E—H) or (I—L) to spool ends.

11. Install new O-rings (A) in housing.

12. Coat spools and bores with clean transmission/hydraulic oil.

13. Install spools.

14. Apply multipurpose grease to springs (N).

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PROCEDURE:
1. Run engine until lubricating oil reaches operating temperature of 105° C (220° F).

220
15
44

IMPORTANT: Engine speed and load should be stabilized before taking readings on gauge. Be sure that gauge works properly.

Pressure checks are only a guide to determine if there is an engine problem (valve leakage, defective nozzles, etc.). Low readings are not a valid reason for increasing injection pump fuel delivery. Pump adjustment should be within specification as established by an authorized pump repair station.

2. Observe gauge. Reading should be within specifications at specified load speed.

SPECIFICATIONS:
- Turbo boost pressure .. 75—100 kPa (0.75—1.00 bar) (11—14 psi)
- Load speed .. 2400 rpm

RESULTS:
- If boost pressure is too high, check for:
  Excessive fuel injection pump pressure.
  Low injection nozzle opening pressure.
  Excessive injection nozzle valve lift.
  Injection nozzle seat leakage.
  Go to CTM8 and service as needed.

- If boost pressure is too low, check for:
  Restricted air filter.
  Restricted fuel filter or lines.
  Go to Section 30 and service as needed.

  Incorrect fast idle adjustment.
  Incorrect injection pump timing.
  Low compression pressure.
  Go to Section 220 and service as needed.

  Exhaust manifold leaks.
  Intake manifold leaks.
  Faulty fuel injection nozzles.
  Carbon build-up in turbocharger.
  Turbocharger compressor or turbine wheel rubbing housing.
  Low fuel injection pump delivery.
  Go to CTM8 and service as needed.

LV,22015HA,A43A-19-06MAR92

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

LIGHTING SYSTEM OPERATION—HEADLIGHTS AND INSTRUMENT LIGHTS

A—Battery
B—30-Amp Fuse
C—Light Switch
D—Diode Pack
E—Instrument Lights
F—Fuel Gauge
G—Temperature Gauge
H—High Beam Indicator
I—20-Amp Fuse
J—20-Amp Fuse
K—Right Headlight
L—Left Headlight
M—Ground
N—Power Circuit
O—Low Beam Current
P—Instrument Light Current
Q—Ground Circuit
R—High Beam Current

FUNCTION:
Provide low and high beam illumination for visibility at night. Also provide illumination for gauges in instrument panel.

MAJOR COMPONENTS:
•30-Amp Fuse
•20-Amp Fuses
•Light Switch
•Diode Pack
•Right Headlight
•Left Headlight
•Instrument Lights

THEORY OF OPERATION:
When switch is in headlight 2 (low beam) position, current flows on circuit 002 from battery, through 30-amp fuse, then through switch contacts and out circuit 134. Flow continues through 20-amp fuse (J) to circuit 114 and the low beam filament of the headlight bulbs. Current also flows through one diode of diode pack (D) to instrument lights. Remaining diode blocks current from passing into high beam circuit.

When switch is moved to headlight 1 (high beam) position, current passes from switch on circuit 113 and passes through 20-amp fuse (I). Current moves on circuit 119 to high beam filament of both headlight bulbs and high beam indicator light.

Instrument lights operate light switch in either headlight position, or F (work) position. Depending on switch position, current will flow out of switch on circuit 134 or 113 and through its respective fuse. Flow continues through diode pack (D) to circuit 126 and on to instrument lamps. Diode pack also blocks current flow from feeding back across one headlight circuit to the other.

LV,24010HA,A18 -19-06MAR92

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

LIGHTING SYSTEM TEST POINTS —HEADLIGHTS AND INSTRUMENT LIGHTS —CONTINUED

Test Location	Normal	If Not Normal
10. Terminal G of female socket side of 10-pin connector.	Battery voltage.	Make sure connector is fully pushed together. Check for corroded or damaged terminals. Repair or replace connector.
11. Terminal A of right headlight connector.	Battery voltage.	Check for corroded connections or break in splice or wire between 10-pin connector and headlight.
12. Terminal C of right headlight connector.	Less than 0.2 volt.	Check or replace bulb. Check continuity to ground of black wire nos. 010D and 010E to tractor frame on left side near battery.
13. Terminal A of left headlight connector.	Battery voltage.	Check for corroded connections or break in splice or wire between 10-pin connector and headlight.
14. Terminal C of left headlight connector.	Less than 0.2 volt.	Check or replace bulb. Check continuity to ground of black wire nos. 010F and 010E to tractor frame on left side near battery.
15. Terminal 1 of female terminal side of instrument panel connector.	Battery voltage.	Check for corroded connections or break in splice or wire between fuse block and instrument panel connector.
16. Terminal 1 of male blade side of instrument panel connector.	Battery voltage.	Make sure connector is fully pushed together. Check for corroded or damaged terminals. Repair or replace connector.
17. Red/black wire terminal of high beam indicator socket.	Battery voltage.	Check for corroded connections or break in wire between instrument panel connector and high beam indicator socket.
18. Black wire terminal of high beam indicator socket.	Less than 0.2 volt.	Check or replace bulb. Check ground continuity of black wire circuit no. 010, from indicator socket through instrument panel connector to ground connection on tractor frame behind instrument panel.

PREVIEW - YOUFIXTHIS.COM

LV,24015HA,A17A-19-06MAR92

Download full manual at youfixthis.com

FUSE TEST

REASON:
To determine if fuse has failed.

EQUIPMENT:
•Ohmmeter.

CONNECTIONS:
1. Set ohmmeter to 1X ohms scale.

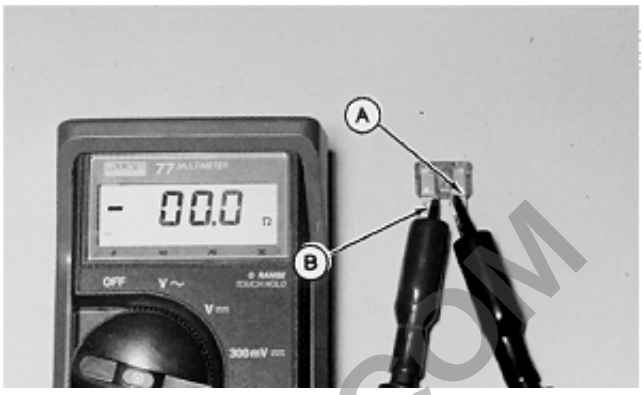
NOTE: On analog (swing needle) ohmmeters, set zero point before every test.

2. Connect one meter lead to one post (A) of fuse.

3. Connect other meter lead to other post (B) of fuse.

PROCEDURE:
1. Read meter.

RESULTS:
•If there is no continuity between posts, replace fuse.



M49586 -UN-25SEP90

Slide M49586

LV,24015HA,A48 -19-06MAR92

240
15
98

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

TRACTION CLUTCH GRABS

CONDITIONS:
- Repair in Section 50, Group 10.

Test Location	Normal	If Not Normal
1. Clutch pedal linkage and armshaft.	Operates freely with no binding.	Clean, lubricate or adjust.
2. Traction clutch disk.	Slides freely on shaft splines.	Clean, lubricate or replace.
	No oil or grease on disk facing. No evidence of wear or glazing on disk face No warpage or damage. Rivets at hub are tight.	Clean or replace disk.
3. Traction clutch pressure plate.	No warpage or damage.	Replace pressure plate.

LV,25015HA,A8 -19-19FEB92

TRACTION CLUTCH SQUEAKS

CONDITIONS:
- Repair in Section 50, Group 10.

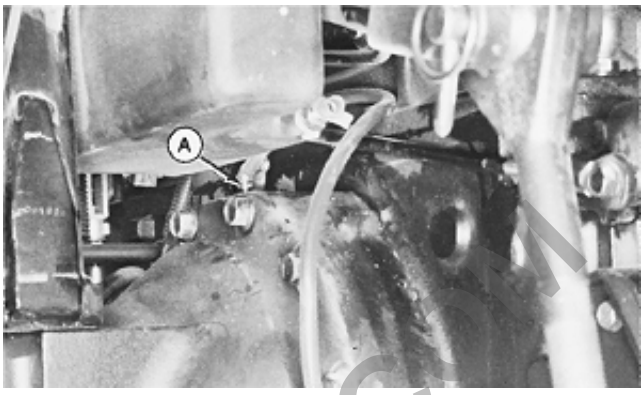
Test Location	Normal	If Not Normal
1. Flywheel pilot bearing.	Lubricated sufficiently.	Lubricate.
2. Traction clutch release bearing.	Lubricated sufficiently.	Lubricate.
	Bearing spins freely. No evidence of wear or damage.	Replace bearing.

LV,25015HA,A9 -19-19FEB92

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

BLEED BRAKE SYSTEM



Slide LV339

REASON:
Any time the brake system has been opened up for service (lines disconnected), it will be necessary to bleed air from the system.

CONNECTIONS:
1. Connect a clear plastic tube to the left brake bleed screw (A). Put the other end of tube into a bucket.

PROCEDURE:

NOTE: Two service technicians are needed to bleed the brake system: one to operate the brake pedals and the other to open and close bleed screws.

1. Start the engine and run at slow idle to keep brake valve reservoir full of oil.

2. Slowly push brake pedal down, loosen the bleed screw 3/4 of a turn.

3. Tighten bleed screw. Let pedal return slowly to the top of its stroke. Continue this operation until the flow of oil in plastic tube is free of air bubbles.

4. When flow of oil is free of air bubbles hold the pedal down and tighten bleed screw.

5. Remove the plastic tube.

6. Do brake bleed procedure for the other brake.

LV,26015HA,A20 -19-19FEB92

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

EXCESSIVE PUMP NOISE DURING OPERATION

CONDITIONS:
- Machine parked on level surface.
- Key switch in off position.
- Hydraulic tests and adjustments in this Section.

Test Location	Normal	If Not Normal
1. Hydraulic dipstick.	Oil level up to marks.	Add oil as needed.
	Oil of the proper type.	Drain and refill with correct oil.
2. Pump suction line.	Secure and free of air leaks.	Repair or line as needed.
3. Main relief valve.	Pressure within specifications.	Adjust. Replace if necessary.
4. SCV, if equipped. (not shown)	Free to return to neutral position.	Operate SCV levers. Repair or replace valve.
5. Rockshaft valve.	Neutralizing.	Leak test rockshaft.
6. Hydraulic diverter plug port.	No plug installed.	Remove diverter plug in end plate.

LV,27015HA,A16 -19-19FEB92

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 25 of 820 pages

The full manual includes:

- All 820 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

John Deere 5200, 5300, 5400, 5500 Technical Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual