LOCTITE PRODUCT CHART

Product	Color	Similar Products	Gap (In Inches)	Strength (Steel/Steel)	Working Temperature Range-Farenheit	Fixture/Full Cure (Steel/Steel) Time	Primer	Description
#3	Dark Brown					24 hr	N/A	Form a Gasket (works with oil, fuel or grease) Pliable
80	Yellow					Fast	N/A	Weatherstrip Adhesive
123	Clear					N/A	N/A	Parts Cleaner Fluid
220	Blue	290	0.003	57/143 in lbs	-65 to +250	6 min/24 hrs	747	Wicking Threadlocker
221	Purple	222	0.005	75/44 in lbs	-65 to +300	2 min/24 hrs	747	Low Strength Threadlocker
222	Purple		0.005	53/30 in lbs	-65 to +300	20 min/24 hrs	764	Low Strength Threadlocker (Small Screws)
225	Brown	222	0.010	45/25 in lbs	-65 to +300	7 min/24 hrs	747	Low Strength Threadlocker
242	Blue		0.005	80/50 in lbs	-65 to +300	10 min/24 hrs	764	Medium Strength Threadlocker
262	Red	271	0.005	160/190 in lbs	-65 to +300	5 min/24 hrs	747	High Strength Threadlocker
270	Green	271	0.007	160/320 in lbs	-65 to +300	3 min/24 hrs	747	High Strength Threadlocker
271	Red	262	0.007	160/320 in lbs	-65 to +300	10 min/24 hrs	764	High Strength Threadlocker
272	Red	620	0.007	180/220 in lbs	-65 to +450	30 min/24 hrs	764	High Temperature, High Strength
275	Green	277	0.010	210/300 in lbs	-65 to +300	3 min/24 hrs	747	High Strength Threadlocker
277	Red		0.010	225/300 in lbs	-65 to +300	60 min/24 hrs	764	High Strength Threadlocker
290	Green		0.003	85/350 in lbs	-65 to +300	6 min/24 hrs	764	Wicking Threadlocker
*404	Clear	495	0.006	3200 psi	-65 to +180	30 sec/24 hrs	NA	Instant Adhesive
*406	Clear		0.004	3200 psi	-65 to +180	15 sec/24 hrs	N/A	Surface Insensitive Adhesive
*409	Clear	454	0.008	2500 psi	-65 to +180	50 sec/24 hrs	N/A	Gel Instant Adhesive
*414	Clear		0.006	2500 psi	-65 to +180	30 sec/24 hr	N/A	Instant Adhesive
*415	Clear	454	0.010	2500 psi	-65 to +180	50 sec/24 hrs	N/A	Gap Filling Instant Adhesive (Metals)
*416	Clear	454	0.010	2500 psi	-65 to +180	50 sec/24 hrs	N/A	Gap Filling Instant Adhesive (Plastics)
*420	Clear		0.002	2500 psi	-65 to +180	15 sec/24 hrs	N/A	Wicking Instant Adhesive
*422	Clear	454	0.020	2800 psi	-65 to +180	60 sec/24 hrs	N/A	Gap Filling Instant Adhesive
*430	Clear		0.005	2500 psi	-65 to +180	20 sec/24 hrs	N/A	Metal Bonding Adhesive
*445	White/Black		0.250	2000 psi	-65 to +180	5 min/24 hrs	N/A	Fast Setting 2 Part Epoxy
*454	Clear		0.010	3200 psi	-65 to +180	15 sec/24 hrs	N/A	Surface Insensitive Gen Instant Adhesive
*495	Clear		0.004	2500 psi	-65 to +180	20 sec/24 hrs	N/A	General Purpose Instant Adhesive
*496	Clear		0.005	2500 psi	-65 to +180	20 sec/24 hrs	N/A	Metal Bonding Adhesive
504	Brt Orange	515	0.030	750 psi	-65 to +300	90 min/24 hrs	None	Rigid Gasket Eliminator
509	Light Blue		0.020	750 psi	-65 to +320	6 hr/72 hrs	764	Flange Sealant
510	Red		0.020	1000 psi	-65 to +400	30 min/24 hrs	764	High Temperature, GAsket Eliminator
515	Purple		0.010	750 psi	-65 to +300	1 hr/24 hrs	764	Gasket Eliminator 515

Rac 8-98902 * Products 404-496 (except for #445) are all instant adhesives (super glues) they differ mostly in viscosity Printed in U.S.A.

PREVIEW - PURCHASE

Download full manual at youfixthis.com





PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

ENGINE REMOVAL AND INSTALLATION

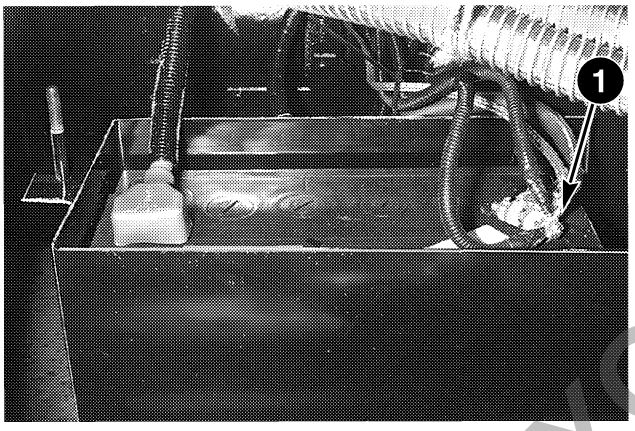
CX50 and CX60 Tractors

NOTE: *For Engine Installation, follow the Removal procedure in reverse order.*

Before removing the Engine it will be necessary to carry out the following:

- Park the tractor on hard level ground and apply the parking brake.
- Lower the rear three point hitch.
- Stop the engine and remove the key.
- Put blocks in front of and behind the rear wheels.
- Remove the Front Hitch, if equipped, refer to Section 8011.
- Remove the Front PTO, if equipped, refer to Section 6015.
- Remove the front weights, if equipped.
- Remove the side panels and remove the hood.

STEP 1



DD98B053

Disconnect the engine harness clean ground wire (1). Disconnect the battery, negative terminal (-) first. Lower the front cover on the battery box and remove the battery.

NOTE: *For Installation, connect and tighten the positive (+) terminal first.*

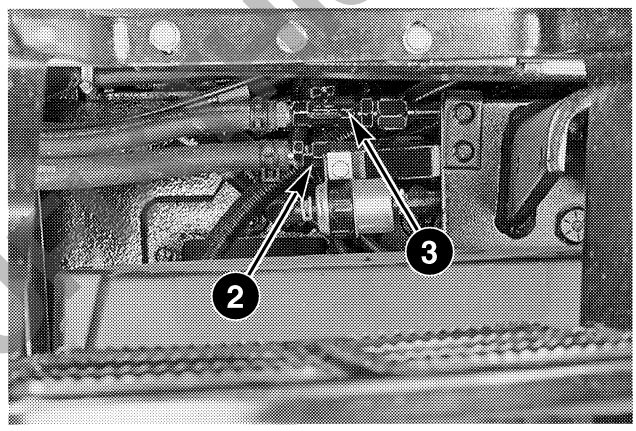
STEP 2
Tractors equipped with Air Conditioner

Refer to Section 9005, Air Conditioner System Component Servicing, and “Strip Away” the compressor, receiver/dryer and oil cooler/ condenser. DO NOT disconnect the components.

WARNING: *Never touch liquid refrigerant, since even a small drop on your skin will cause severe and painful frostbite. Always wear protective gloves.* SM114A

WARNING: *Always wear safety goggles when working with liquid refrigerant. Liquid refrigerant in your eyes could cause blindness.* SM105A

STEP 3



DP99J002

Close taps (2) and (3) on the heater hoses.

NOTE: *DO NOT open the taps until Installation is complete, refer to Page 22, Filling the Cooling System.*

STEP 4

Put suitable containers under the radiator and engine block drain plugs, remove the plugs and drain the cooling system.

NOTE: *After draining the cooling system, install and tighten the drain plugs.*

IMPORTANT: *Dispose of drained coolant responsibly, DO NOT pour on the ground or into a drain. Be responsible for the environment.*

STEP 5

Remove the MFD Axle, refer to Section 6021 or 2WD Front Axle, refer to Section 5003.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

FUEL TANK

Removal and Installation

NOTE: *For Installation follow the Removal procedure in reverse order.*

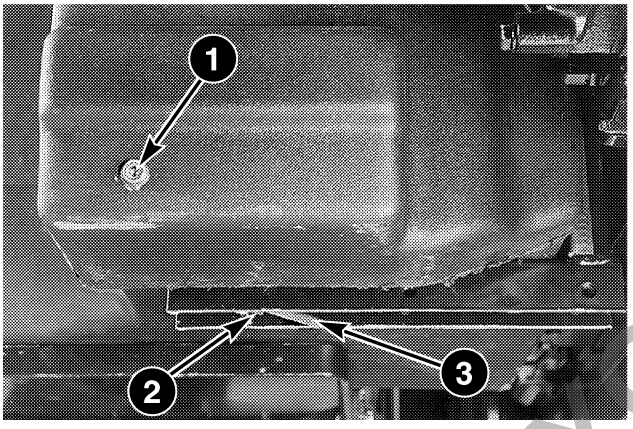
Before removing the Fuel Tank carry out the following:
- Park the tractor on hard level ground and apply the parking brake.
- Stop the engine and remove the key.
- Put blocks in front of and behind the rear wheels.

STEP 1

Disconnect the battery, negative (-) terminal first.

NOTE: *For Installation, connect the positive (+) terminal first.*

STEP 2

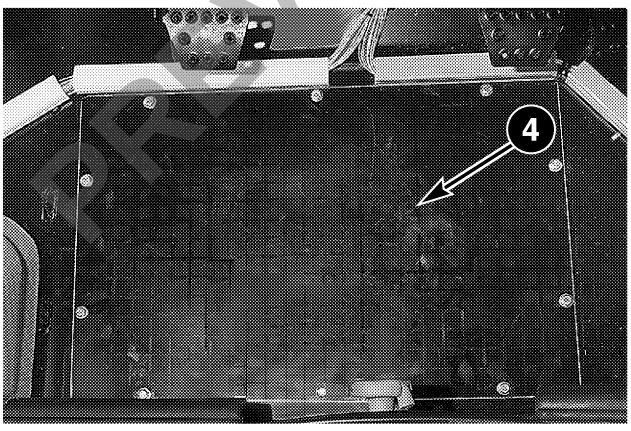


DP98A146

Place a suitable container under fuel tank drain plug (1). Remove the plug and drain the fuel. When fuel has drained install and tighten the plug. Remove retaining nut (2) and disconnect retaining strap (3).

NOTE: *The capacity of a full fuel tank is 155 Litres (40.9 U.S. gal).*

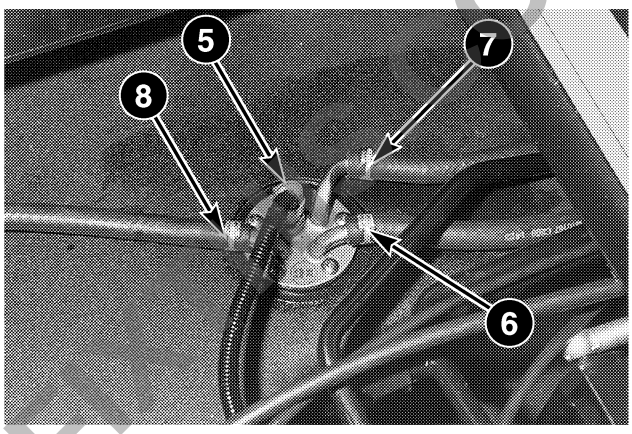
STEP 3



DP98A149

Remove the cab floor mat, remove the retaining bolts and remove access plate (4).

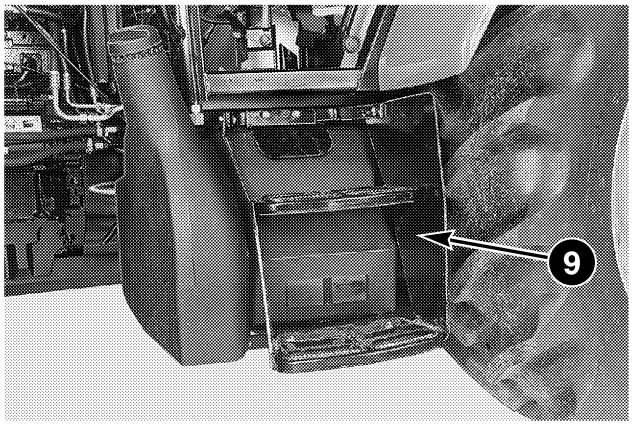
STEP 4



DP98A148

Disconnect harness connector (5). Put identification marks on fuel feed hose (6), return hose (7) and breather hose (8). Release the hose clips and disconnect the hoses from the fuel sender. Cap the hoses and tubes.

STEP 5



DP98A145

Support the left hand cab steps and remove the retaining bolts. Remove steps (9).

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

GENERAL INFORMATION

> ***WARNING: Never operate the engine in a closed building. Proper ventilation is required under all circumstances.***

IMPORTANT: *All electrical checks must be made with the tractor parked on hard level ground with the parking brake engaged and the engine OFF unless otherwise stated.*

IMPORTANT: *Put blocks in front of and behind the rear wheels.*

NOTE: *When testing diodes and diode modules use the multimeter diode test function.*

NOTE: *All components, wires and connectors disconnected during any electrical checks must be connected when the checks are completed.*

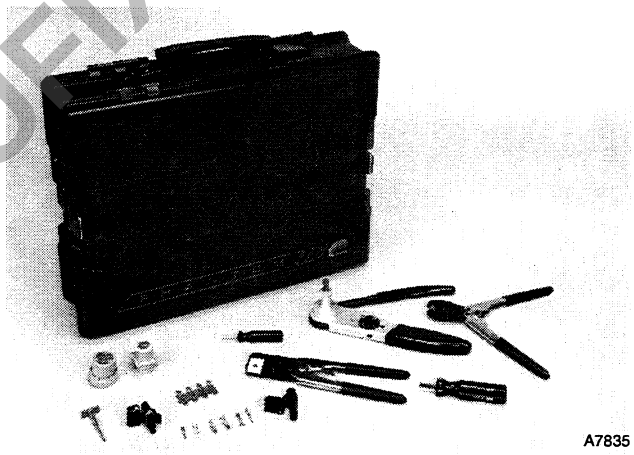
NOTE: *The battery must be at full charge and all connections must be clean and tight before testing. Only use a HIGH IMPEDENCE multimeter for the tests. Do not use a test lamp or damage to the switches may occur*

SPECIAL TOOLS



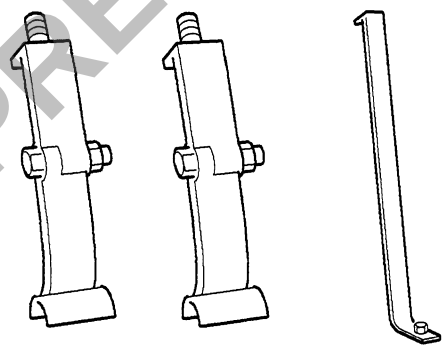
A9206

1. MULTIMETER CAS1559



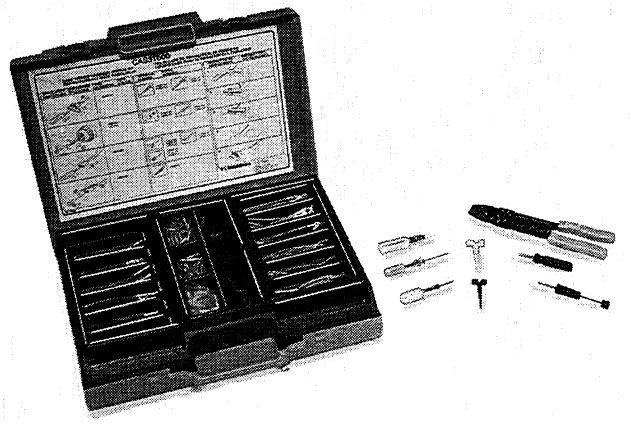
A7835

4. HARNESS REPAIR KIT AJI1400004



DI97K101

3. CAB ROOF TILT TOOLS CAS2530 AND CAS2531 (REFER TO SECTION 9006)



DD97E383

4. HARNESS REPAIR KIT CAS3100 (EUROPE ONLY)

PREVIEW YOUFIXTHIS.COM

Download full manual at youfixthis.com

STEERING COLUMN

Removal and Installation

NOTE: *Items are numbered in the order of Removal, for Installation follow the Removal procedure in reverse order.*

Before removing the Steering Column it will be necessary to carry out the following:

- Park the tractor on hard level ground and apply the parking brake.
- Stop the engine and remove the key.
- Put blocks in front of and behind the rear wheels.

STEP 1

Disconnect the battery, negative (-) terminal first.

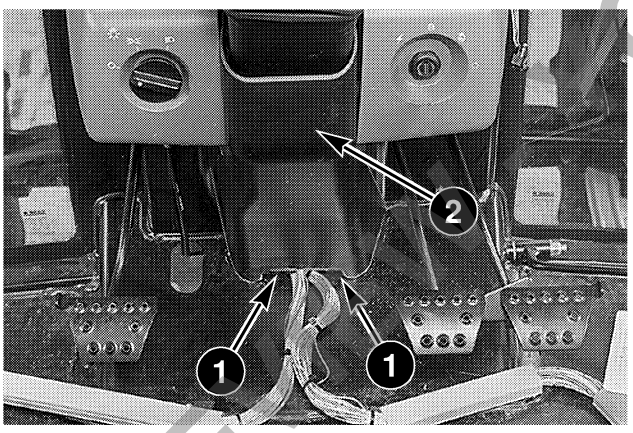
NOTE: *For Installation, connect the battery, positive (+) terminal first.*

STEP 2

Remove the RH and LH instrument panel side covers.

NOTE: *Disconnect the harness from the auxiliary power socket on the RH side cover.*

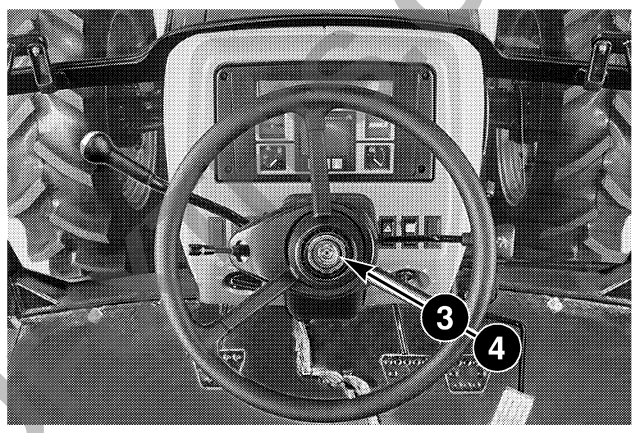
STEP 3



DR98H151

Remove the cab floor mat and remove the two retaining screws (1) and remove the steering column cover (2).

STEP 4



DR98H152

Remove the steering wheel cap. Remove the retaining nut (3) and washer (4), remove the steering wheel.

NOTE: *For Installation, tighten the steering wheel retaining nut (3) to a torque of 45 to 54 Nm (33 to 40 lb ft).*

STEP 5



DR98H153

Remove the retaining screws (5). Disconnect the harness and remove the instrument cluster (6).

Download full manual at youfixthis.com

TRANSMISSION LAYOUTS

Drive Path through the Forward and Reverse Shuttle and Powershift

Drive from the engine is connected to the transmission input shaft (1) when the engine clutch is released.

Forward drive and powershift high speed selected:- The drive at the input shaft (1) is connected through the high speed powershift clutch (2) to the front gear (3) of the four speed section, then onto the corresponding lower gear (4) on the countershaft.

Forward drive and powershift low speed selected:- The drive at the input shaft (1) is connected through the sprag clutch (5) and low speed gear (6) to the forward drive gear (7). Drive is connected through the forward drive gear to the forward and reverse synchroniser (8) which is splined to the countershaft (11).

Reverse drive and powershift low speed selected:- The drive at the input shaft (1) is connected through the sprag clutch (5) and low speed gear (6) to the forward drive gear (7) and also the reverse idler gear (9). Drive is connected through the reverse idler gear to the reverse drive gear (10), then through the forward and reverse synchroniser (8) to the countershaft (11).

NOTE: *If reverse and high speed powershift is selected at the same time the transmission will remain in low speed powershift.*

Drive Path through the Four Speed Synchromesh Section

The four speed gears (4,12,13,14) are splined to the driven countershaft (11). These gears drive the corresponding gears on the top shaft (18).

The four speed synchroniser's (16 and 17) are splined to the top shaft (18). When one of the four speeds is selected, that gear is locked to the synchroniser. The drive is transmitted from the counter shaft (11) to the top shaft (18) through the gear and synchroniser.

NOTE: *On 30 Kph tractors the front gear (3) in the four speed section is fourth gear. On 40 Kph tractors the front gear (3) is third speed.*

Drive Path through the Two Speed Range Section

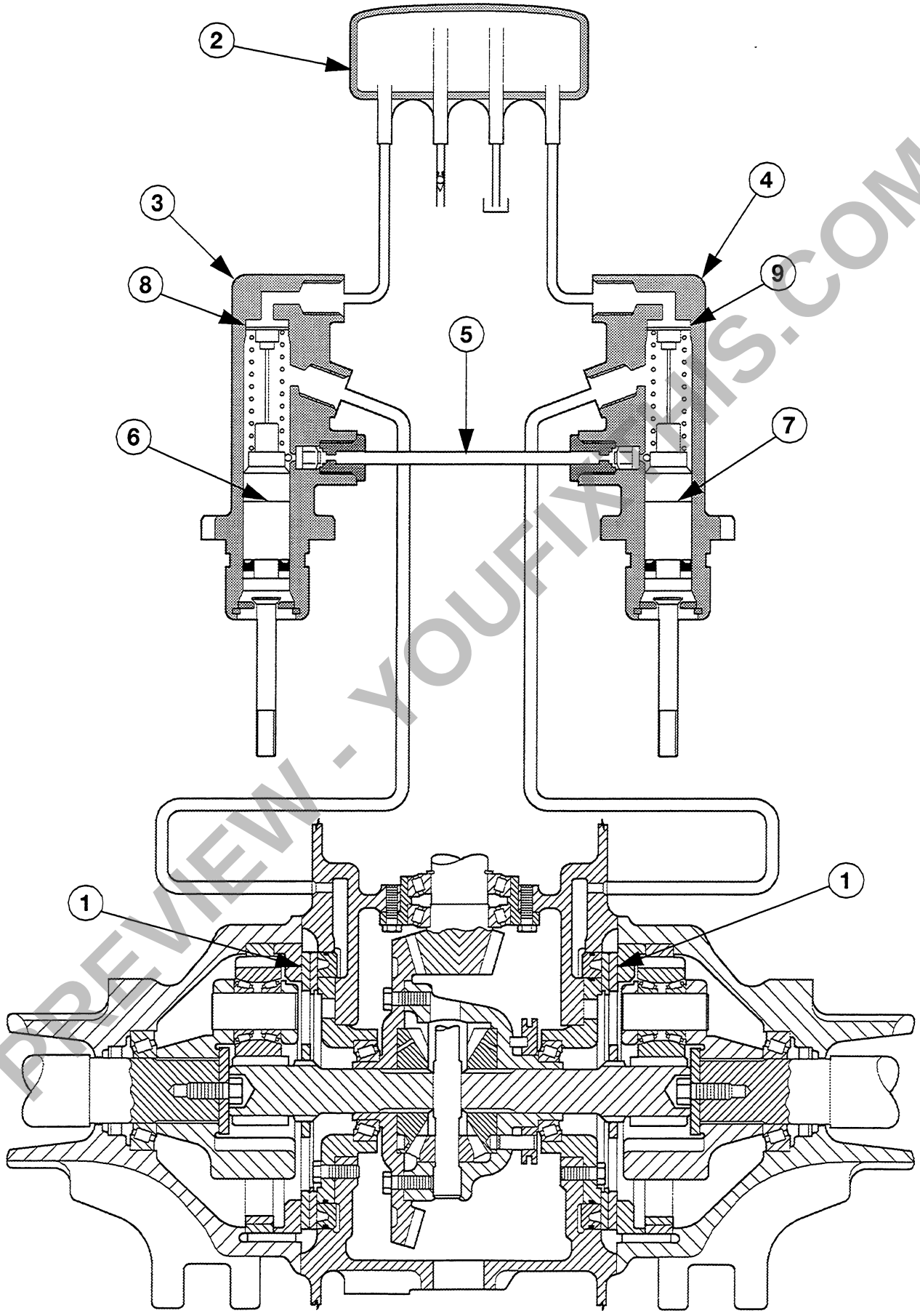
The high range gear (19) is integral with the driven top shaft (18) of the four speed section. This gear is connected to the corresponding gear (20) which is splined to the range countershaft (21). The low range gear (22) is splined to the countershaft (21) and connected to the corresponding gear (23) on the top shaft (24) which is the pinion shaft

High Range selected:- The drive is transmitted from the four speed top shaft (18) through the high and low range synchroniser (25) directly to the pinion shaft (24).

Low Range Selected:- The drive is transmitted from the four speed top shaft (18) through both gears on the countershaft (21) to the low range gear (23), then through the high and low range synchroniser (25) to the pinion shaft (24).

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com



PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

GENERAL INTRODUCTION

The hydraulic system uses the same oil as the transmission and supplies three pumps. These pumps provide flow for the transmission control and lubrication circuits, the steering and brake circuits, and both the electronic hitch and remote auxiliary circuits. A high capacity main suction filter maintains the oil free from contamination.

Transfer Pump

The transfer pump (1) is driven by a PTO drive gear and transfers oil from the front transmission housing to the differential section of the rear transmission housing. This ensures a high oil level in the differential section from where the oil is drawn to the steering pump and main pump.

The oil flow from the transfer pump also provides pressure lubrication of the pinion and bevel gears (1a).

Main Pump

The main pump (4) is driven from the same PTO drive gear as the transfer pump. It draws oil from the differential section of the rear transmission housing through the main suction filter (2) to the pump.

The flow from the pump is exposed to the main relief valve (6) and directed to the trailer brake valve (7) if equipped. The flow continues through the trailer brake valve to the hitch (13), and the unloader valve (8), then from the unloader valve to the remote auxiliary valves (10).

The unloader valve (8) ensures the hitch has priority flow over the remote auxiliary valves. From the auxiliary valves the flow is available for a hydraulic power beyond service (10a) if required.

The hitch valve supplies the hitch lift cylinder (15) and one or two boost cylinders (14) if equipped. These cylinders are exposed to a hitch relief valve (16) which protects the system from excessive spike pressures when transporting a heavy implement.

Steering Pump

The steering pump (17) is mounted to the R/H of the engine and driven by the engine timing gears. It draws oil from the differential section of the rear transmission housing through the main suction filter (2) to the pump.

The flow from the pump is directed to the open centre steering control valve (18) which has an integral relief valve (18a) set at 141 to 148 bar (2050 to 2150 psi).

The oil flow through the steering control valve flows out of the valve to the regulated pressure valve (20a). The regulator valve supplies the hitch (13), powershift (20b), MFD (22), PTO (23) and differential lock (26) with regulated pressure at 20 bar (290 psi).

The flow not required by the regulated pressure circuits, flows past an oil cooler by-pass valve (20c) and through the oil cooler (28).

From the oil cooler a small portion of the oil flow supplies the brake keep full reservoir (30) and the remaining oil flow is directed to the transmission lubrication circuits (33) before returning to the transmission housing.

PREVIEW - YOUFIXTHIS.COM

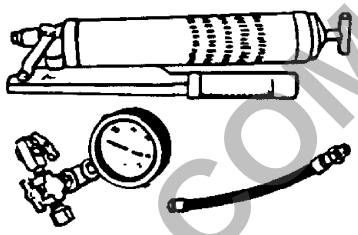
Download full manual at youfixthis.com

SPECIAL TOOLS



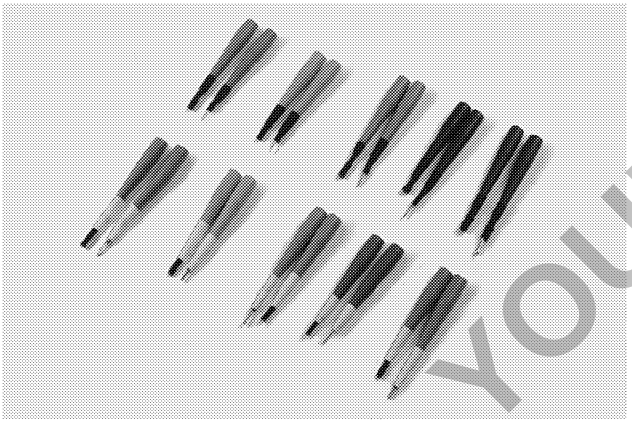
DD98H120

MULTIMETER KIT CAS2616



DS99N011

HYDRAULIC HAND PUMP TEST KIT 1094059R92



DD99A051

TEST PROBE KIT CAS2656

SPECIAL TORQUES

Flange Axle - Wheel Nuts	278 to 298 Nm	205 to 220 lb ft
Bar Axle - Wheel to Hub Bolts	183 to 207 Nm	135 to 153 lb ft

PREVIEW - YOUFIXTHIS.COM

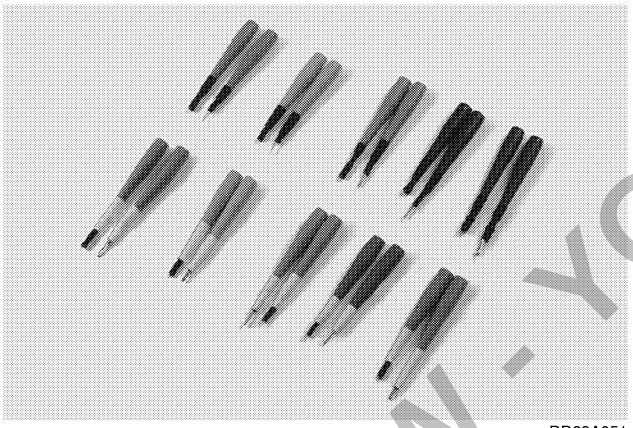
Download full manual at youfixthis.com

SPECIAL TOOLS



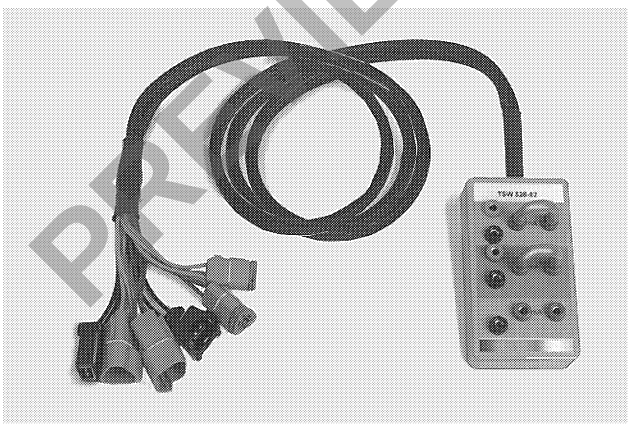
DD98H120

CAS2616 MULTIMETER KIT includes:
CAS2616-1 MULTIMETER ONLY
CAS2616-2 TEST LEADS
CAS2616-3 TEMPERATURE PROBE



DD99A051

CAS2656 TEST PROBE KIT



DD99K048

1TSW 528-82 TEST HARNESS



A7835

ZJI1400004 HARNESS REPAIR KIT



DD97E383

CAS31000 HARNESS REPAIR KIT (EUROPE)

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

LOCTITE PRODUCT CHART

Product	Color	Similar Products	Gap (In Inches)	Strength (Steel/Steel)	Working Temperature Range-Farenheit	Fixture/Full Cure (Steel/Steel) Time	Primer	Description
518	Red	515	0.030	500psi	-65 to +300	1hr/24 hrs	764	Gasket Eliminator 518 for Aluminum
542	Brown	569	N/A	132/92 in lbs	-65 to +300	2 hr/24 hrs	747	Hydraulic Sealant
545	Purple		N/A	25/20 in lbs	-65 to +300	4 hr/24 hrs	747	Low Strength Pneumatic/Hydraulic Sealant
549	Orange	504	0.020	2500 psi	-65 to +300	2 hr/24 hrs	747	Instant Seal Plastic Gasket
554	Red	277	0.015	240/240 in lbs	-65 to +300	2 to 4 hrs/24 hrs	764	Refrigerant Sealant
567	White	592	N/A	500 psi	-65 to +400	4 hrs/24 hrs	764	Pipe Sealant for Stainless Steel
568	Orange	277	0.015	2500 psi	-65 to +300	12 hrs/24 hrs	764	Plastic Gasket
569	Brown	545	0.010	40/25 in lbs	-65 to +300	1 hr/24 hrs	764	Hydraulic Sealant
570	Brown	592	N/A	25/40 in lbs	-65 to +300	6 hrs/72 hrs	764	Steam Sealant
571	Brown	592	0.015	40/20 in lbs	-65 to +300	2 to 4 hrs/24 hrs	764	Pipe Sealant
572	White	578.575	N/A	80/27 in lbs	-65 to +300	24 hrs/72 hrs	None	Gasketing
592	White		0.020	500 psi	-65 to +400	4 hrs/72 hrs	736	Pipe Sealant with Teflon
593	Black		0.250	400 psi	-95 to +400	30 min/24 hrs	N/A	RTV Silicone
601	Green	609	0.005	3000 psi	-65 to +300	10 min/24 hrs	764	Current PIN #609
609	Green		0.005	3000 psi	-65 to +300	10 min/24 hrs	764	General Purpose Retaining Compound
620	Green	640	0.015	3000 psi	-65 to +450	30 min/24 hrs	747	High Temperature Retaining Compound
635	Green	680	0.010	4000 psi	-65 to +300	1 hr/24 hrs	747	High Strength Retaining Compound
638	Green	680	0.015	4100 psi	-65 to +300	10 min/24 hrs	747	High Strength Retaining Compound
640	Green	620	0.007	3000 psi	-65 to +400	1 hr/24 hrs	747	High Temperature Retaining Compound
660	Silver		0.020	3000 psi	-65 to +300	20 min/24 hrs	764	Quick Metal
675	Green	609	0.005	3000 psi	-65 to +300	20 min/24 hrs	747	General Purpose Retaining Compound
680	Green	635	0.015	4000 psi	-65 to +300	10 min/24 hrs	747	High Strength Retaining Compound
706	Clear	755	N/A	N/A	N/A	N/A	N/A	Cleaning Solvent
707	Amber		N/A	N/A	N/A	N/A	N/A	Activaltor for Structural Adhesives
736	Amber		N/A	N/A	N/A	N/A	N/A	Primer NF
738	Amber		N/A	N/A	N/A	N/A	N/A	Depend Activator
747	Yellow	N/A	N/A	N/A	N/A	N/A	N/A	Primer T
751	Clear		N/A	N/A	N/A	N/A	N/A	Activator for Structural Adhesives
755	Clear		N/A	N/A	N/A	N/A	N/A	Cleaning Solvent
764	Green		N/A	N/A	N/A	N/A	N/A	Primer N
767	Silver		N/A	N/A	-65 to +1600	N/A	N/A	Anti-Seize Lubricant

PREVIEW ONLY - PURCHASE FOR FULL VERSION

Download full manual at youfixthis.com

Printed in U.S.A.

Section

4001

ELECTRICAL SCHEMATICS

CX50, CX60, CX70, CX80, CX90 and CX100 Tractors

PREVIEW - YOUFIXTHIS.COM

CASE UNITED KINGDOM LIMITED

Don 7-70200

© 1997 Case Corporation

November 1997

Download full manual at youfixthis.com

Hazard Warning Light

Battery power flows through fuse 18 to the hazard switch terminal 2. With the switch ON power flows through the switch to terminal 6 then to the flasher relay terminal 49 and through the relay to terminal 49A. Power flows from terminal 49a to the hazard switch terminal 5 and through the switch to terminals 1and 3, and through the internal warning light to chassis ground.

The power at terminal 3 flows to the 7 pin trailer socket terminal 4 and through the RH front and rear lights to chassis ground illuminates the lights.

The power at terminal 1flows to the 7 pin trailer socket terminal 1 and through the LH front and rear lights to chassis ground illuminates the lights.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Section

5002

STEERING CYLINDER

2WD Tractors

C and CX Series Tractors

PREVIEW - YOUFIXTHIS.COM

CASE UNITED KINGDOM LIMITED

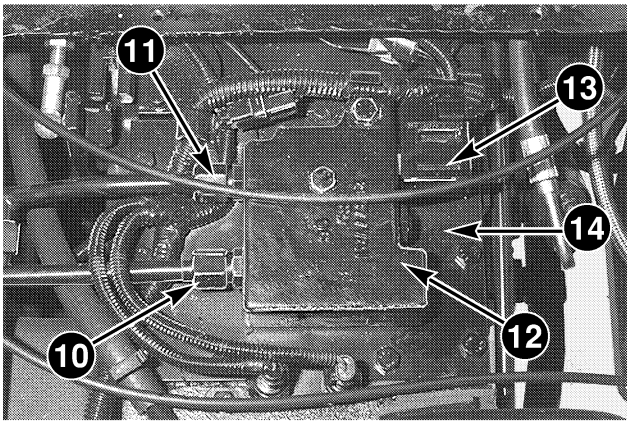
Don 7-71291

© 1999 Case Corporation

September 1997
(Revised January 1999)

Download full manual at youfixthis.com

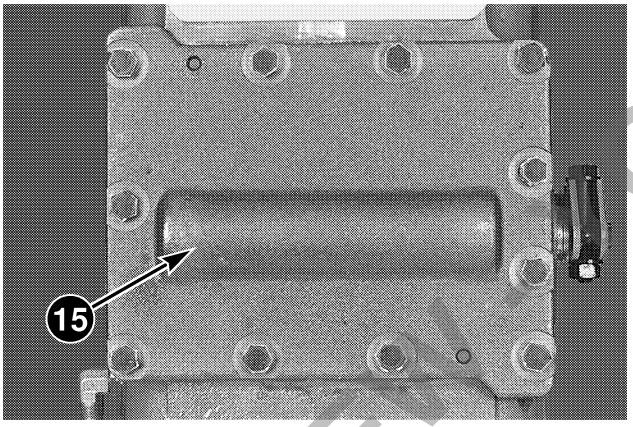
STEP 6



DD97J085

Remove the cab floor mat and panel. Disconnect and cap tubes (10) and (11) from regulator valve (12). Disconnect harness (13) from the solenoid. Remove the bolts and regulator valve (12). Remove the bolts and front transmission cover (14), remove and discard the gasket. Remove the powershift supply tube, remove and discard the o-rings.

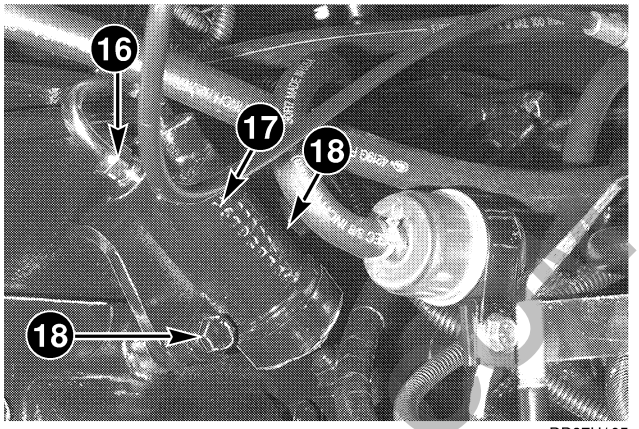
STEP 7



DD97H113

Remove the bolts and forward/reverse selector fork cover (15) from the bottom of the transmission housing, refer to Page 11 for Disassembly and Assembly.

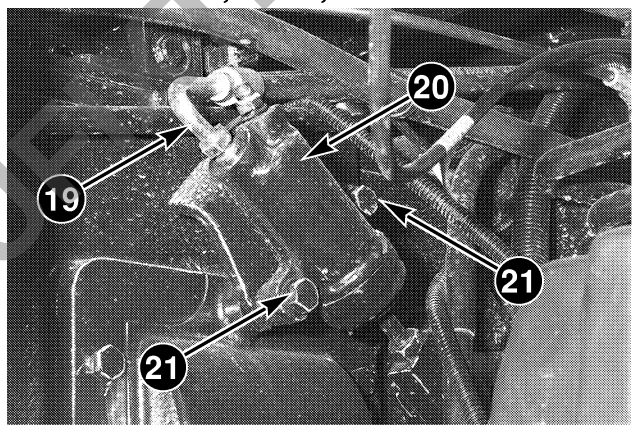
STEP 8 CX50 and CX60



DD97H105

Disconnect and cap tube (16) from the clutch slave cylinder (17). Remove bolts (18) and clutch slave cylinder (17).

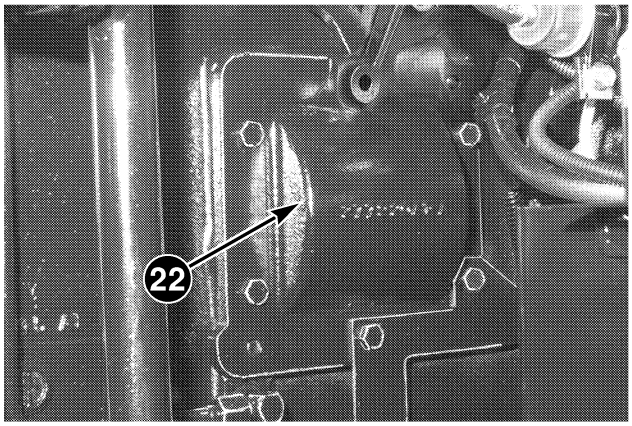
STEP 9 CX70, CX80, CX90 and CX100



DD97K039

Disconnect and cap tube (19) from the clutch slave cylinder (20). Remove bolts (21) and clutch slave cylinder (20).

STEP 10



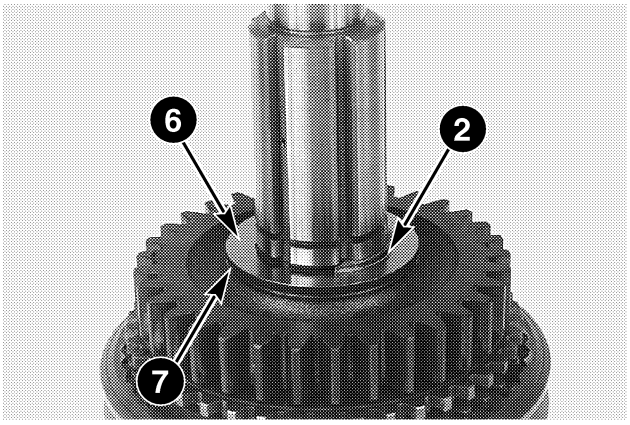
DD97H107

Remove the bolts and forward/reverse idler gear cover assembly (22), refer to Page 12 for Disassembly and Assembly.

PREVIEW ONLY - YOUFIXTHIS.COM

Download full manual at youfixthis.com

STEP 19



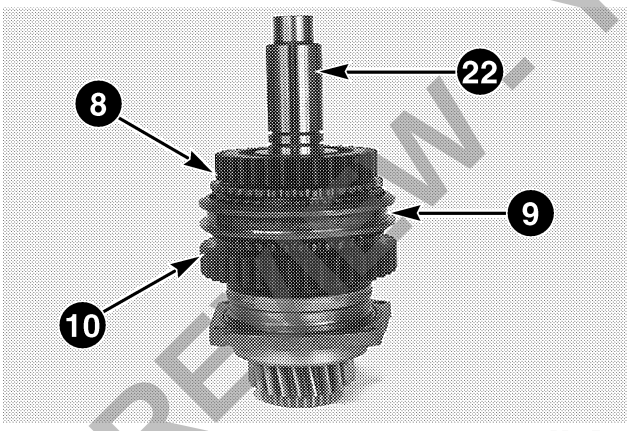
DD97F262

Install the needle thrust bearing (7) and thrust washer (6). Select and install the thinnest retaining ring (2), lift the 1st/2nd driven gear and synchronizer assembly, to seat the retaining ring (2) at the top of the groove, lower the assembly and measure the gap between the retaining ring (2) and thrust washer (6).

STEP 20

Remove the retaining ring (2). Select and install the retaining ring (2) required to obtain a distance of 0.05 to 0.30 mm between retaining ring (2) and thrust washer (6).

STEP 21

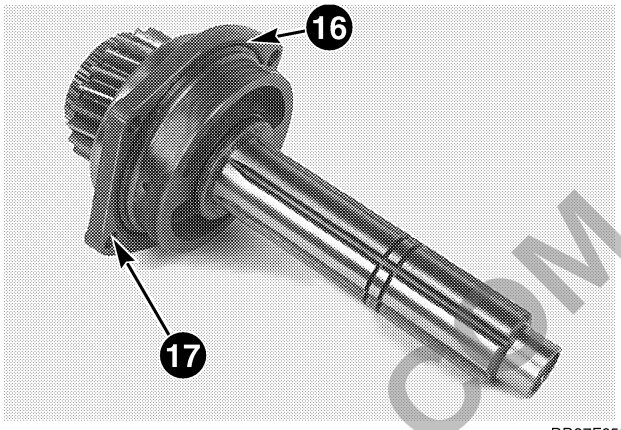


DD97F259

Remove retaining ring (2), thrust washer (6), needle thrust bearing (7), 2nd driven gear (8), synchronizer assembly (9) and 1st driven gear (10) from the main shaft (22).
Keep all parts together for assembly onto the main shaft.

NOTE: *It is not necessary to remove the needle thrust washer (14) and thrust bearing (15) installed first onto the main shaft.*

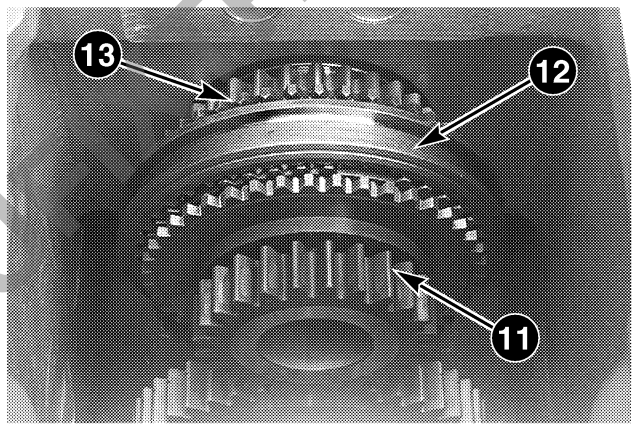
STEP 22



DD97F053

Lubricate and install new o-ring (16) onto the bearing housing (17).

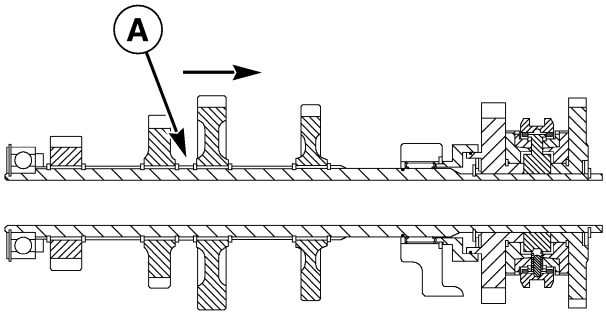
STEP 23



DD97F094

Install the 4th driven gear (11) and synchronizer assembly (12) onto the direct drive gear (13) and hold in position.

STEP 24



DD97K093

Push the 4th speed drive gear on the countershaft forward and install the retaining ring (A), make sure the retaining ring locates correctly into the groove in the countershaft.

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

SPECIFICATIONS

Differential Lock Selector Ring Clearance (Engaged Position)	0.025 to 0.90 mm	0.001 to 0.035 inch
Ring Gear to Pinion Backlash	0.152 to 0.304 mm	0.006 to 0.012 inch
Ring Gear to Differential Housing Run-out	0 to 0.102 mm	0 to 0.004 inch
Differential Bearing Rolling Pull	2.0 to 6.5 kg	4.5 to 14.5 lb

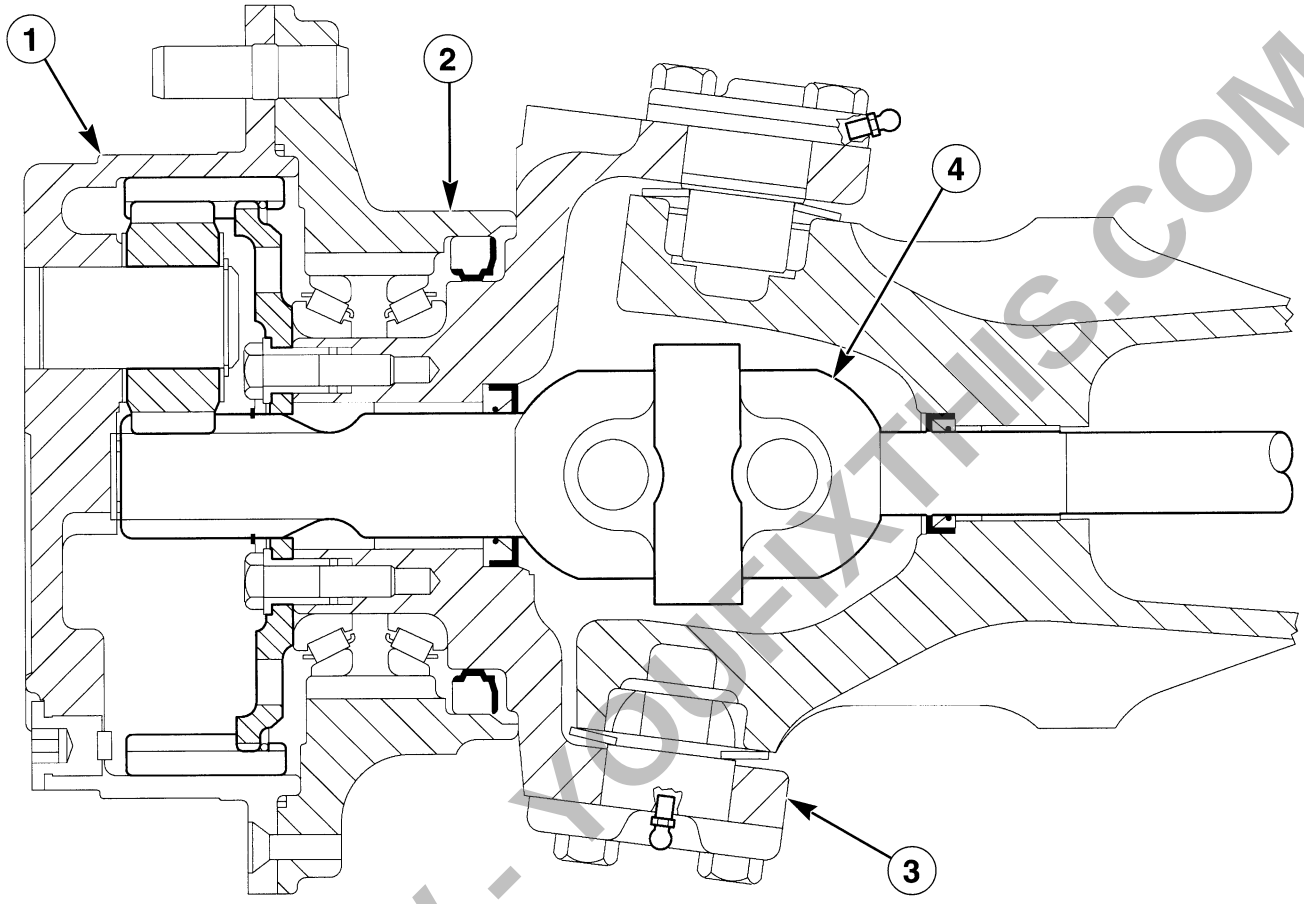
SPECIAL TORQUES

Ring Gear Dowel Bolts	156 to 170 Nm	115 to 125 lb ft
Ring Gear Retaining Bolts	156 to 170 Nm	115 to 125 lb ft
Bearing Carrier Retaining Bolts	156 to 170 Nm	115 to 125 lb ft

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

CROSS SECTIONAL DRAWING OF THE PLANETARY GEAR ASSEMBLY, WHEEL HUB, SWIVEL HOUSING AND DRIVE SHAFT



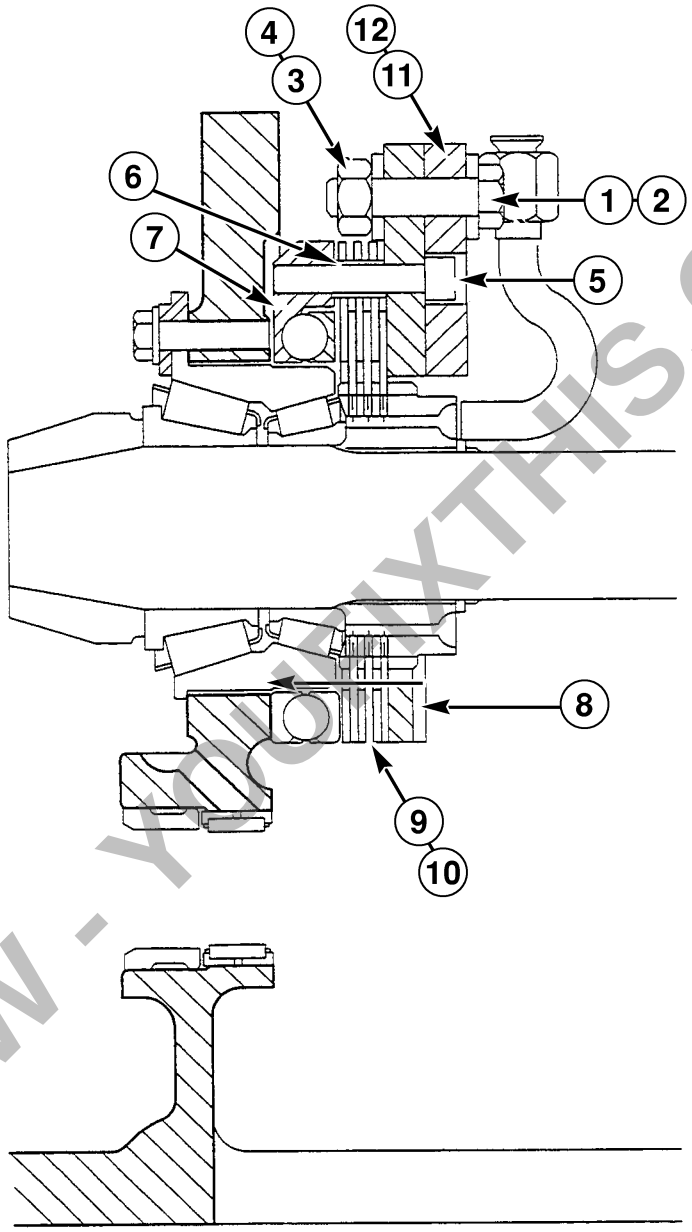
SM1341

1. PLANETARY GEAR ASSEMBLY, REFER TO PAGE 6
2. WHEEL HUB, REFER TO PAGE 8
3. SWIVEL HOUSING, REFER TO PAGE 10
4. DRIVE SHAFT, REFER TO PAGE 12

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Cross Sectional Drawing of the Parking Brake



DS99C178

1. BOLT
2. WASHER
3. WASHER
4. NUT
5. BOLT
6.SPACER
7. ACTUATOR ASSEMBLY
8. PLATE
9. FRICTION PLATE (3)
10. SEPARATOR PLATE (3)
11. SUPPORT

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

TABLE OF CONTENTS

HOW TO READ SYMBOLS IN A HYDRAULIC SCHEMATIC 3
Introduction 3
Circuit Diagrams 3
Symbol Systems 3
Using Schematic Symbols 3
Reservoirs 3
Lines, Tubes and Hoses 4
Crossing or Joining Lines 5
Pump Symbols 5
Hydraulic Motor Symbols 6
Cylinder Symbols 6
Pressure Control Symbols 7
Normally Closed 7
Normally Open 7
Relief Valve 7
Pressure Reducing Valve 7
Sequence Valve 8
Directional Control Symbols 8
Simplified Symbols 8
One Way Valve 8
By Pass Valve 8
Composite Symbols 8
One Way Valves 8
Two Position Valves 8
Three Position Valves 9
Actuating Controls 9
Flow Control Symbols 9
Restrictors 9
Accessories 10

NOTES 11

SIMPLE SCHEMATIC 12

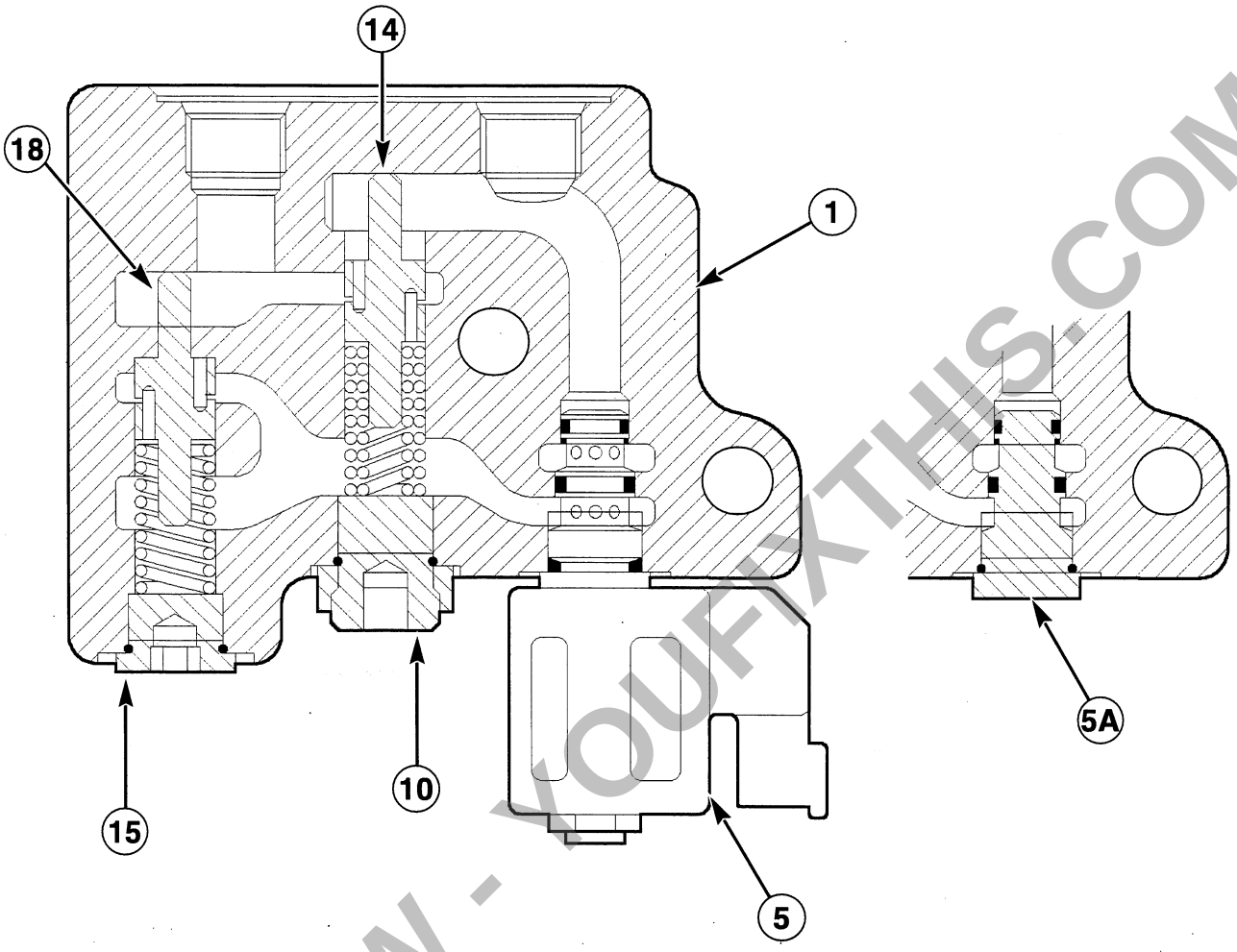
COMMON SYMBOLS 14
Lines and Line Functions 14
Mechanical Devices 14
Pumps and Motors 14
Reservoirs 15
Cylinders 15
Valves 15
Valve Actuators 17
Accessories 17

PREVIEW - YOUFIXTHIS.COM

NOTE: Case Corporation reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.

Download full manual at youfixthis.com

Cross Sectional Drawing of the Regulator Valve

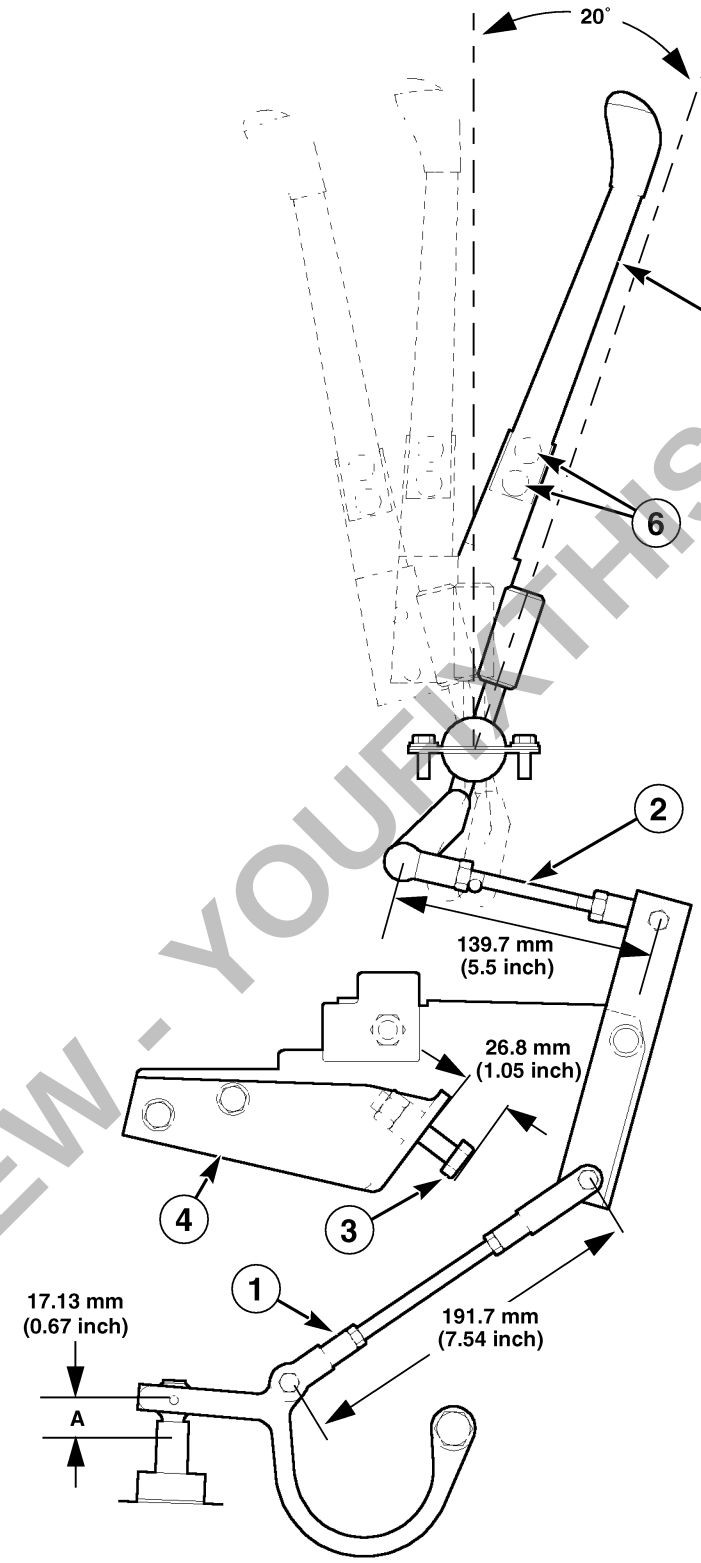


DI98K040

1. REGULATOR VALVE
5. POWERSHIFT SOLENOID ASSEMBLY
5A. PLUG (WITHOUT POWERSHIFT)
10. ADJUSTING PLUG
14. REGULATOR SPOOL
15. PLUG
18. REGULATOR SPOOL

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com



DI98M117

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Hitch Electrical Supply and Ground

Switched power flows through fuse 33 to the hitch up/down switch terminal 5, the LH and RH external remote hitch switches terminal B, the implement down switch, the hitch enable relay terminal 3 and the hitch controller terminal 14.

The hitch controller ground terminal 1 is connected directly to a clean ground at the battery negative terminal.

Hitch Component Supply

A supply is connected to the load control, drop speed, hitch response and upper height control potentiometers at terminal A. With the potentiometer disconnected this voltage will be 8 volts DC. With the potentiometer connected, the voltage will no longer measure 8 volts DC.

Terminal C will measure 0 volts DC with the potentiometer disconnected. Terminal C will measure between 0.3 and 1.0 volt DC with the potentiometer connected.

The voltage at terminal B is directly related to the position of the control knob.

All voltage measurements must be made between the wire/terminal and chassis ground NOT terminal C of the potentiometer.

A supply voltage at 8 volts DC is connected to the load pin sensor at terminal C. Ground is connected at terminal A. The load sensor signal returns to the control module from terminal B.

A ground speed sensor is connected to the controller at terminal 27.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

HITCH SYSTEM PERFORMANCE CODE CHART

These are error codes and corrective actions used in troubleshooting the electronic hitch system. The codes are listed from the highest priority to the lowest priority. When more than one failure exists simultaneously the highest priority failure will be displayed. All failures are recorded in the controller memory and can be retrieved in order of priority.

ERROR CODE	CAUSE	FAILURE MODE	CORRECTIVE ACTION
NO ERROR (BLANK DISPLAY) AND HITCH ENABLE LAMP IS NOT ILLUMINATED	1. Controller power failure. 2. Circuit has shorted to ground. 3. Display circuit failure.	DEGRADED 1	1. Go to Test 1 - No Power to Controller (Power and Clean Ground) on page 20. 2. Go to Test 2 - Circuit Shorted to Ground on page 21. 3. Replace display. **NOTE:** *If the fault remains reprogramme the hitch controller, refer to Section 10010 and calibrate the hitch.*
"H", "2" 336L96A	Open circuit or short to ground of lower solenoid or lower solenoid circuit.	HALT	Go to Test 5 - Hitch Solenoids Circuit on page 27.
"H", "U" 336L96B	Open circuit or short to 12 volts of lower solenoid or lower solenoid circuit.	HALT	Go to Test 5 - Hitch Solenoids Circuit on page 27.
"H", "3" 336L96C	Open circuit or short to ground of raise solenoid or raise solenoid circuit.	HALT	Go to Test 5 - Hitch Solenoids Circuit on page 27.
"H", "9" 336L96D	Open circuit or short to ground of both raise and lower solenoids or both raise and lower solenoid circuits.	HALT	Go to Test 5 - Hitch Solenoids Circuit on page 27.
"H", "4" DS98A133 OR "H", "Y" DS98A133	Controller memory failure. The system cannot read calibration values.	HALT	Re-calibrate the hitch, refer to DELUXE HITCH CALIBRATION on page 5. **NOTE:** *If the fault remains reprogramme the hitch controller, refer to Section 10010 and calibrate the hitch.*
"H", "6" 336L96F	Short to 12 volts of the raise solenoid or raise solenoid circuit failure.	HALT	Go to Test 5 - Hitch Solenoids Circuit on page 27.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 25 of 1116 pages

The full manual includes:

- All 1116 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Case IH CX50, CX60, CX70, CX80, CX90, CX100 Service Manual



Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual