PRIMARY HYDRAULIC POWER SYSTEM - Detailed view

High pressure hydraulic pump circuit

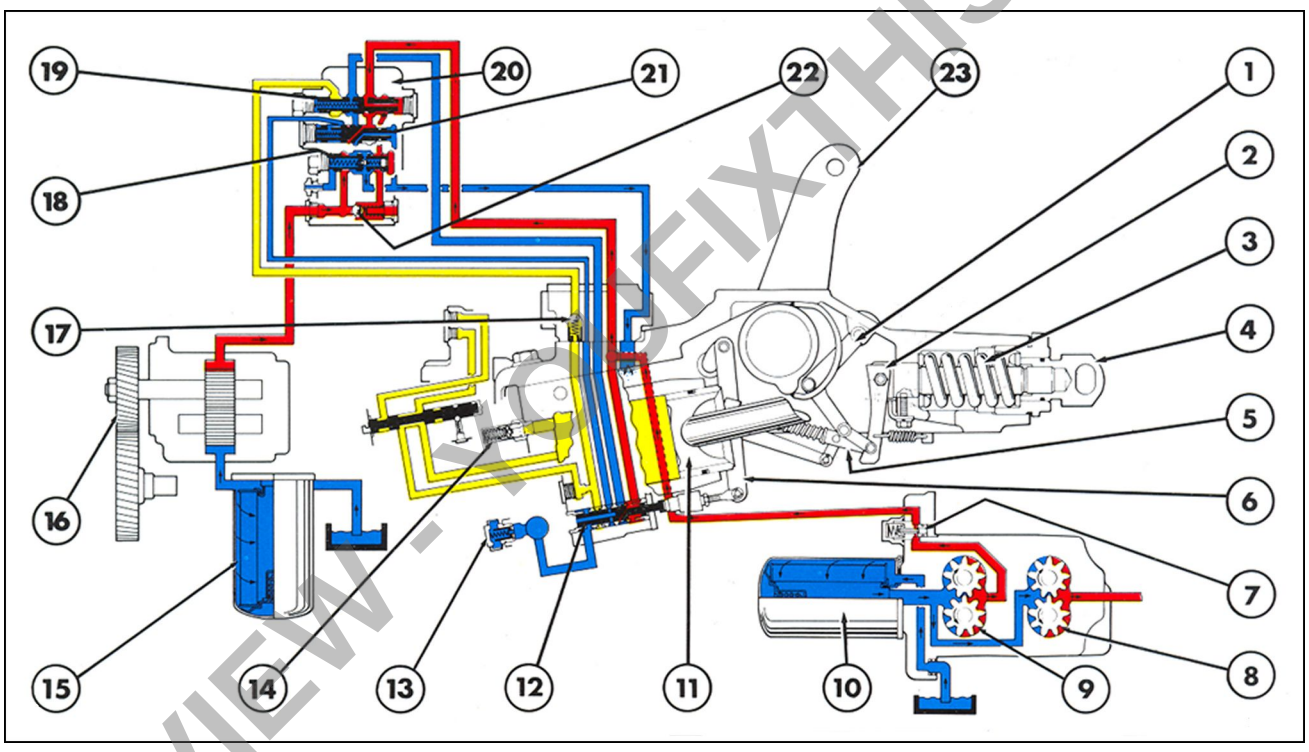
Operating with a maximum pressure of **182 bar** (**2639 psi**), the high-pressure circuit supplies oil for control of the hydraulic lift assembly, remote control valve(s), and auxiliary equipment (where installed).

With more than two remote valves installed on the tractor, it is necessary to supplement the tandem (gear type) transmission mounted pump output, with an engine mounted auxiliary pump.

The front pump within the tandem pump assembly circulates pressurized hydraulic oil to the priority valve group. A relief valve installed in the pump protects the circuit from overload, with an operating pressure of **176 - 182 bar** (**2552 - 2639 psi**).

The oil supply from the tandem pump flows to the priority valve group through internal galleries within the hydraulic top cover, while the supply from the optional auxiliary pump flows to the priority valve group through external tubing.

– Pump pressurized oil – Suction oil / return to deposit – Trapped oil



RCPH10TTS001FAD 1

High pressure hydraulic circuit component identification and oil flow

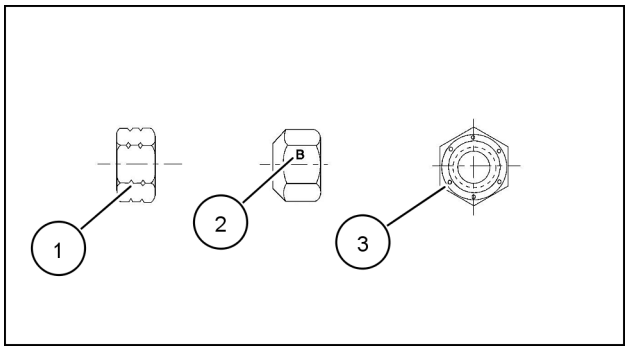
Component identification

(1) Position control brace
(2) Selector brace
(3) Draft control spring
(4) Yoke
(5) Selector rod and roller assembly
(6) Actuator link
(7) Safety valve
(8) Steering Pump to low pressure circuit
(9) Hydraulic pump to high pressure circuit
(10) Pump intake filter
(11) Lifting piston
(12) Control valve
(13) Exhaust valve
(14) Lifting cylinder safety valve
(15) Auxiliary pump intake filter (optional)
(16) Engine-mounted auxiliary hydraulic pump (optional)
(17) Check valve
(18) Combined valve (sequential)
(19) Flow control valve
(20) Priority valve group
(21) Relief valve
(22) Check valve
(23) Lifting arms

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Inch Lock Nuts, All Metal (Three optional methods)



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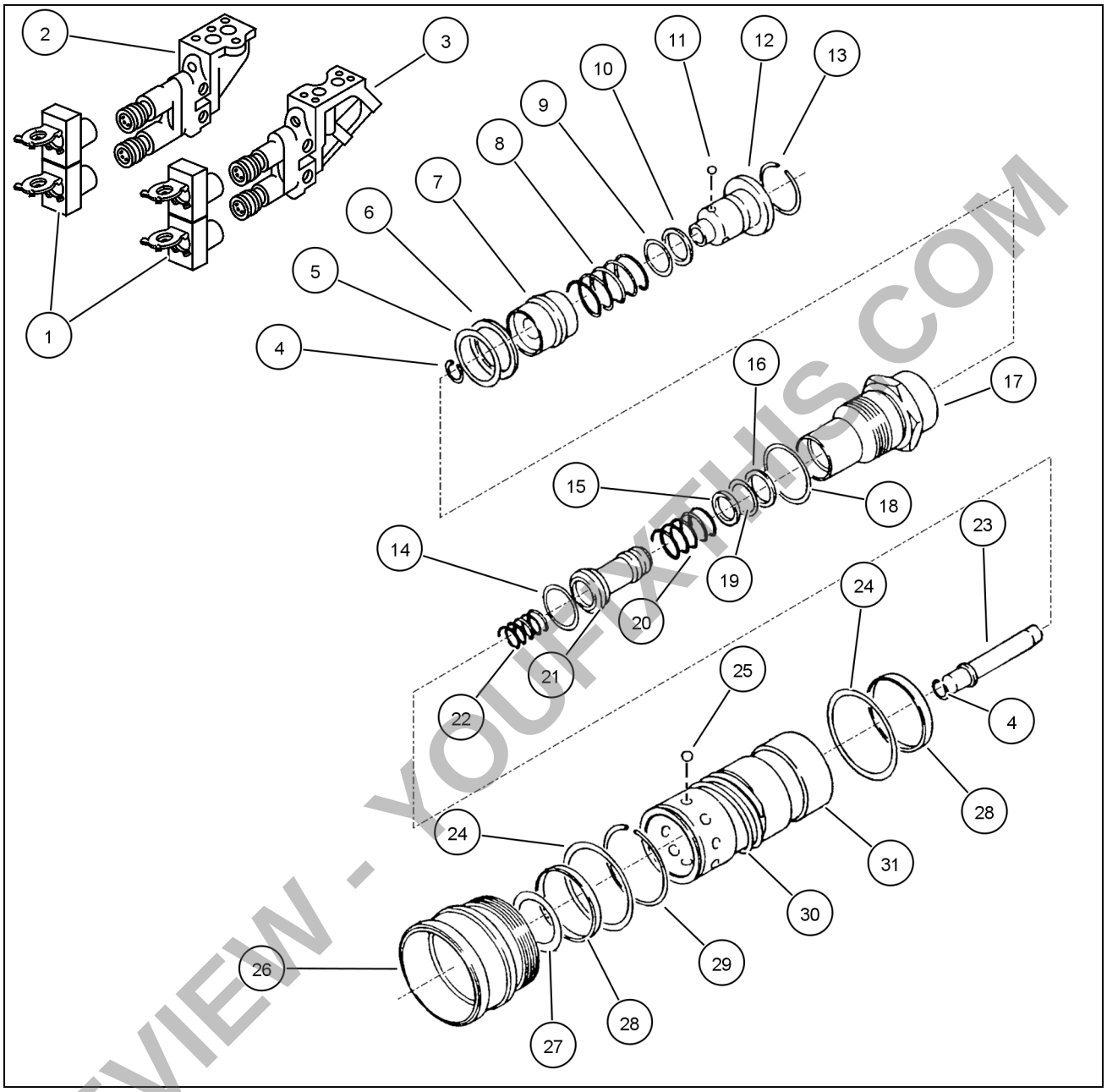
Grade Identification

Grade	Corner Marking Method (1)	Flats Marking Method (2)	Clock Marking Method (3)
Grade A	No Notches	No Mark	No Marks
Grade B	One Circumferential Notch	Letter B	Three Marks
Grade C	Two Circumferential Notches	Letter C	Six Marks

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Remote coupler - Exploded view



RCPH10TTS013GAD 1

Remote coupler components

(1) Dust cover assembly
(2) Left-hand coupler assembly
(3) Right-hand coupler assembly
(4) Retaining ring
(5) Seal
(6) Seal
(7) Locking sleeve
(8) Spring
(9) Seal
(10) Backup ring
(11) Detent ball
(12) Locking body
(13) Retaining ring
(14) Spring
(15) Washer
(16) Backup ring
(17) Adaptor
(18) Seal
(19) Seal
(20) Spring
(21) Valve
(22) Spring
(23) Probe
(24) O-ring
(25) Detent ball
(26) Sleeve
(27) O-ring
(28) Front sealing ring
(29) Retaining ring
(30) Spring
(31) Body

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Torque - Minimum tightening torques for normal assembly

METRIC NON-FLANGED HARDWARE

NOM. SIZE	CLASS 8.8 BOLT and CLASS 8 NUT		CLASS 10.9 BOLT and CLASS 10 NUT		LOCKNUT CL.8 W/CL8.8 BOLT	LOCKNUT CL.10 W/CL10.9 BOLT
	UNPLATED	PLATED W/ZnCr	UNPLATED	PLATED W/ZnCr		
M4	2.2 N·m (19 lb in)	2.9 N·m (26 lb in)	3.2 N·m (28 lb in)	4.2 N·m (37 lb in)	2 N·m (18 lb in)	2.9 N·m (26 lb in)
M5	4.5 N·m (40 lb in)	5.9 N·m (52 lb in)	6.4 N·m (57 lb in)	8.5 N·m (75 lb in)	4 N·m (36 lb in)	5.8 N·m (51 lb in)
M6	7.5 N·m (66 lb in)	10 N·m (89 lb in)	11 N·m (96 lb in)	15 N·m (128 lb in)	6.8 N·m (60 lb in)	10 N·m (89 lb in)
M8	18 N·m (163 lb in)	25 N·m (217 lb in)	26 N·m (234 lb in)	35 N·m (311 lb in)	17 N·m (151 lb in)	24 N·m (212 lb in)
M10	37 N·m (27 lb ft)	49 N·m (36 lb ft)	52 N·m (38 lb ft)	70 N·m (51 lb ft)	33 N·m (25 lb ft)	48 N·m (35 lb ft)
M12	64 N·m (47 lb ft)	85 N·m (63 lb ft)	91 N·m (67 lb ft)	121 N·m (90 lb ft)	58 N·m (43 lb ft)	83 N·m (61 lb ft)
M16	158 N·m (116 lb ft)	210 N·m (155 lb ft)	225 N·m (166 lb ft)	301 N·m (222 lb ft)	143 N·m (106 lb ft)	205 N·m (151 lb ft)
M20	319 N·m (235 lb ft)	425 N·m (313 lb ft)	440 N·m (325 lb ft)	587 N·m (433 lb ft)	290 N·m (214 lb ft)	400 N·m (295 lb ft)
M24	551 N·m (410 lb ft)	735 N·m (500 lb ft)	762 N·m (560 lb ft)	1016 N·m (750 lb ft)	501 N·m (370 lb ft)	693 N·m (510 lb ft)

NOTE: *M4 through M8 hardware torque specifications are shown in pound-inches. M10 through M24 hardware torque specifications are shown in pound-feet.*

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Remote valve - Remove

⚠ WARNING

Improper operation or service of this machine can result in an accident.
Read and understand the SAFETY INFORMATION Section before you operate or service the machine.
Failure to comply could result in death or serious injury.

W0266A

⚠ WARNING

Chemical hazard!
When handling fuel, lubricants, and other service chemicals, follow the manufacturer's instructions. Wear Personal Protective Equipment (PPE) as instructed. Do not smoke or use open flame. Collect fluids in proper containers. Obey all local and environmental regulations when disposing of chemicals.
Failure to comply could result in death or serious injury.

W0371A

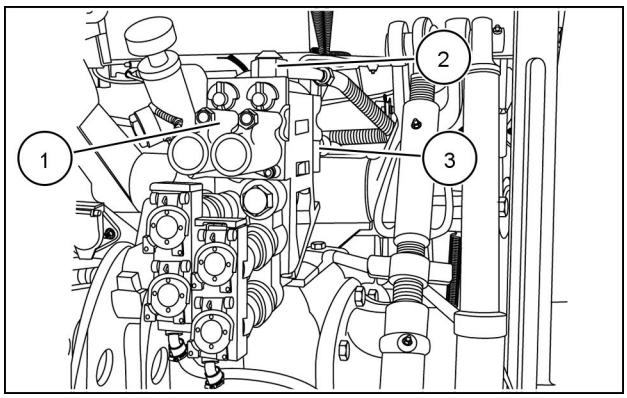
⚠ WARNING

Uncontrolled equipment movement!
Before disconnecting the hydraulic hoses from the tractor:
-Lower the implement to the ground; OR,
-Install the transport stops and place the hydraulic remote lever in the float position.
Failure to comply could result in death or serious injury.

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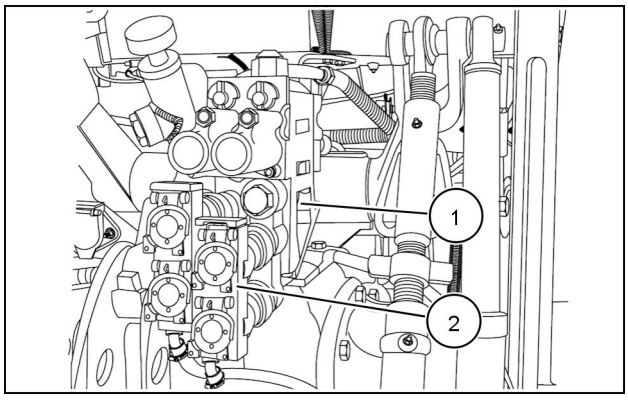
Prior operation:
Remote valve - Prepare (A.10.A)

1. Disconnect the remote valve **(1)** as follows:
   A. Disconnect the hydraulic hoses **(2)** from the top and rear of the remote valve.
   B. Cap or plug the hydraulic hoses or connectors.
   C. Disconnect the lever control linkage **(3)** from the back of the valve.



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2. Remove the remote valve as follows:
   A. Remove five Allen head bolts **(1)** located underneath and on both sides of the remote valve.
   B. Lift the valve off the remote coupler **(2)**.
   C. Plug or cap any open ports on the remote coupler.



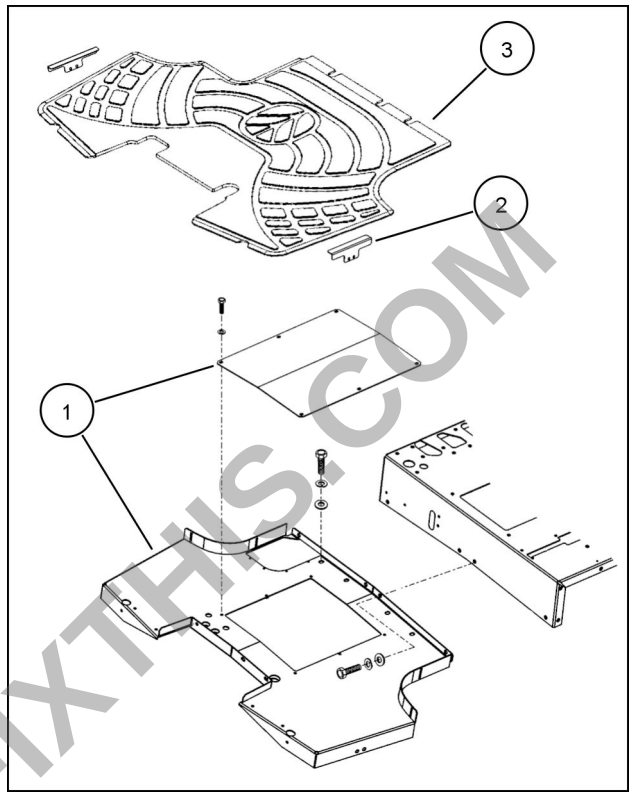
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Next operation:
Remote valve - Install (A.10.A)

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User platform installation

8. Install the right-hand side of the user platform floor as follows:
   A. If applicable, reconnect the brake actuating rods between the levers and brake pedal linkage. Refer to **Brake - Assemble (D.30.C)** for the procedure.
   B. Align the platform on the tractor **(1)**.
   C. Secure the platform in place with the previously removed bolt hardware.
   D. Place the floor mat **(3)** over the platform and secure it in place with the floor mat brackets **(2)** and bolt hardware.

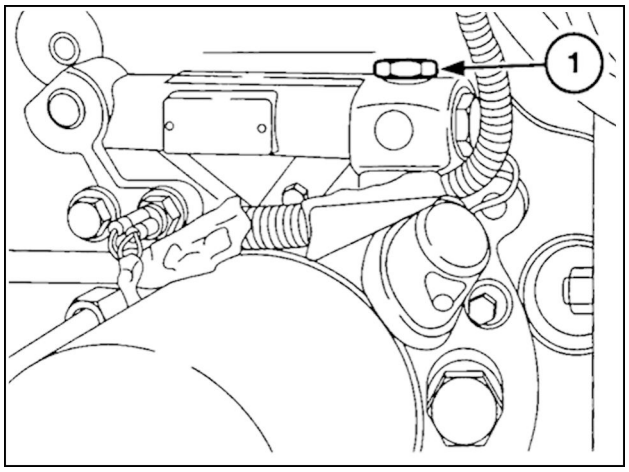


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Alternate main hydraulic pump pressure test

NOTE: *Alternatively, if the tractor is not equipped with an engine mounted auxiliary pump attach the pressure gauge assembly directly to one of the remote valve's upper ports.*

1. Remove plug **(1)** from the pump outlet port.



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Low pressure hydraulic pump circuit

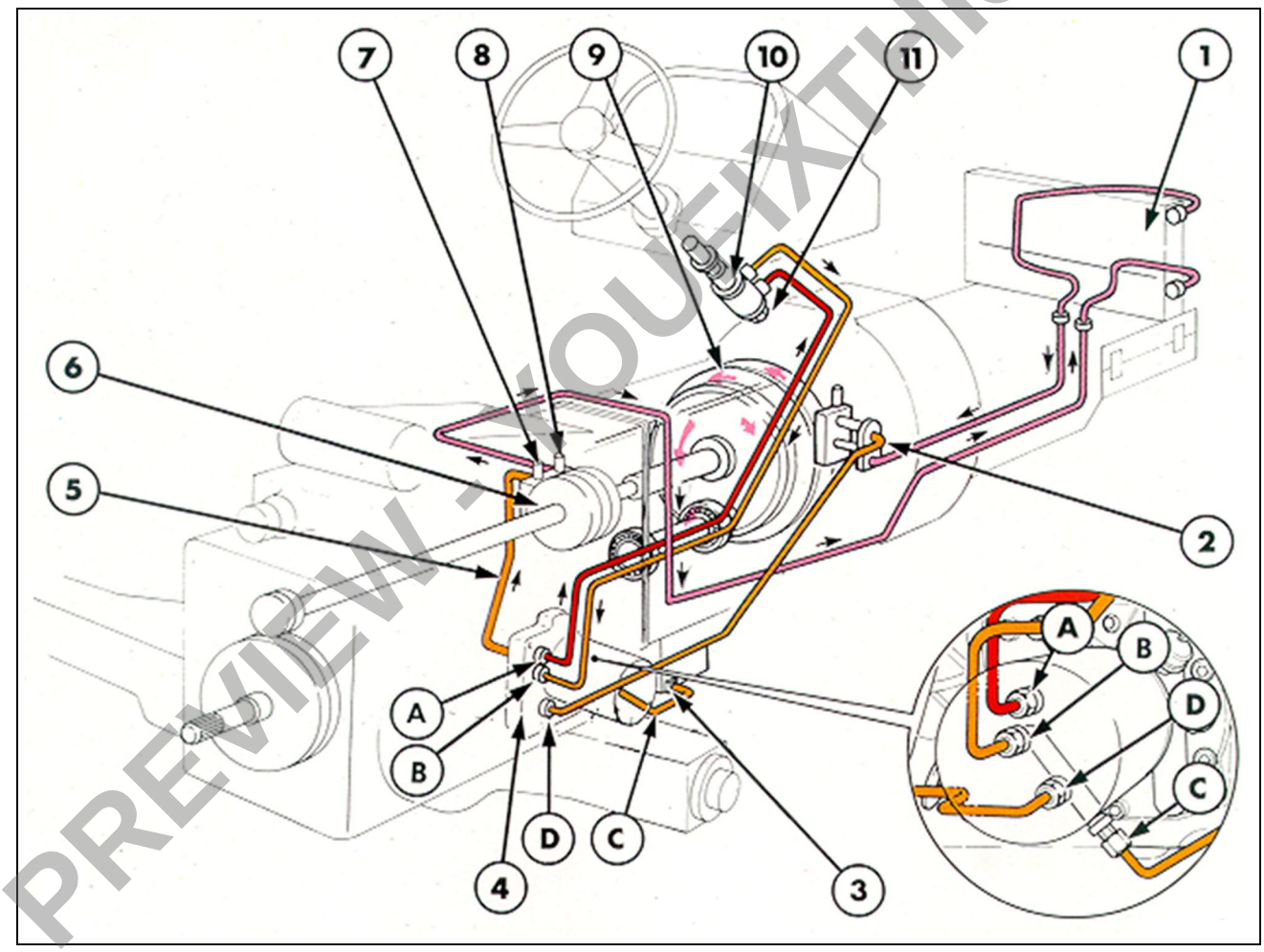
The low-pressure circuit performs two major functions. Supply pressurized hydraulic oil for the operation of the steering system, 4WD clutch, hydraulic PTO clutch, PTO brake, and Dual Command assembly (where installed). Secondly, to supply lubricating oil to the hydraulic PTO clutch, Dual Command assembly (where installed) and the transmission. Before entering the transmission, lubricating oil passes through an oil cooler mounted in front of the radiator.

Designed with an open center, the low-pressure and lubrication circuit provides a constant flow of hydraulic oil throughout the system for as long as the engine continues to run.

The rear pump within the tandem gear pump assembly circulates pressurized hydraulic oil through tubing to the steering motor, hydraulic PTO clutch control valve, and to the Dual Command clutch control valve (where installed) within the transmission housing.

A pressure regulating valve in the hydraulic PTO clutch assembly controls oil flow to the lubricating and cooling circuit. In addition, excessive oil in the lubrication circuit discharges to sump through an adjacent relief valve. The relief valve protects the circuit from overloading with a minimum operating pressure of **5.3 bar** (**76.9 psi**).

– Pump pressurized oil – Low pressure oil circuit – Lubrication circuit oil



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Low pressure hydraulic circuit component identification and oil flow

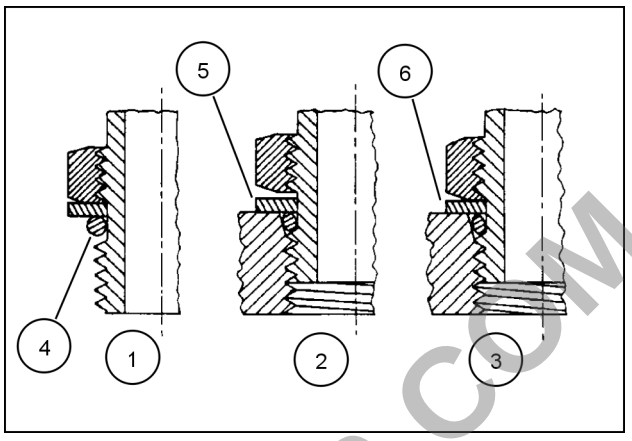
Component identification

(1) Transmission oil cooler
(2) Dual Command (DC) valve
(3) 4WD solenoid valve
(4) Tandem pump
(5) PTO supply line
(6) PTO clutch
(7) Low pressure regulating valve
(8) Lubrication circuit oil
(9) DC power box
(10) Steering motor
(11) Steering motor safety valve
(A) Supply line to steering motor
(B) Steering motor return line
(C) Supply line to 4WD valve
(D) Supply line to DC control valve

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Torque - Standard torque data for hydraulics

INSTALLATION OF ADJUSTABLE FITTINGS IN STRAIGHT THREAD O RING BOSSES



23085659 1

1. Lubricate the O-ring by coating it with a light oil or petroleum. Install the O-ring in the groove adjacent to the metal backup washer which is assembled at the extreme end of the groove **(4)**.
2. Install the fitting into the SAE straight thread boss until the metal backup washer contacts the face of the boss **(5)**.

   NOTE: *Do not over tighten and distort the metal backup washer.*
3. Position the fitting by turning out (counterclockwise) up to a maximum of one turn. Holding the pad of the fitting with a wrench, tighten the locknut and washer against the face of the boss **(6)**.

STANDARD TORQUE DATA FOR HYDRAULIC TUBES AND FITTINGS

TUBE NUTS FOR 37° FLARED FITTINGS				O-RING BOSS PLUGS ADJUSTABLE FITTING LOCKNUTS, SWIVEL JIC- 37° SEATS
SIZE	**TUBING OD**	**THREAD SIZE**	**TORQUE**	**TORQUE**
4	**6.4 mm** (**1/4 in**)	7/16-20	**12 - 16 N·m** (**9 - 12 lb ft**)	**8 - 14 N·m** (**6 - 10 lb ft**)
5	**7.9 mm** (**5/16 in**)	1/2-20	**16 - 20 N·m** (**12 - 15 lb ft**)	**14 - 20 N·m** (**10 - 15 lb ft**)
6	**9.5 mm** (**3/8 in**)	9/16-18	**29 - 33 N·m** (**21 - 24 lb ft**)	**20 - 27 N·m** (**15 - 20 lb ft**)
8	**12.7 mm** (**1/2 in**)	3/4-16	**47 - 54 N·m** (**35 - 40 lb ft**)	**34 - 41 N·m** (**25 - 30 lb ft**)
10	**15.9 mm** (**5/8 in**)	7/8-14	**72 - 79 N·m** (**53 - 58 lb ft**)	**47 - 54 N·m** (**35 - 40 lb ft**)
12	**19.1 mm** (**3/4 in**)	1-1/16-12	**104 - 111 N·m** (**77 - 82 lb ft**)	**81 - 95 N·m** (**60 - 70 lb ft**)
14	**22.2 mm** (**7/8 in**)	1-3/16-12	**122 - 136 N·m** (**90 - 100 lb ft**)	**95 - 109 N·m** (**70 - 80 lb ft**)
16	**25.4 mm** (**1 in**)	1-5/16-12	**149 - 163 N·m** (**110 - 120 lb ft**)	**108 - 122 N·m** (**80 - 90 lb ft**)
20	**31.8 mm** (**1-1/4 in**)	1-5/8-12	**190 - 204 N·m** (**140 - 150 lb ft**)	**129 - 158 N·m** (**95 - 115 lb ft**)
24	**38.1 mm** (**1-1/2 in**)	1-7/8-12	**217 - 237 N·m** (**160 - 175 lb ft**)	**163 - 190 N·m** (**120 - 140 lb ft**)
32	**50.8 mm** (**2 in**)	2-1/2-12	**305 - 325 N·m** (**225 - 240 lb ft**)	**339 - 407 N·m** (**250 - 300 lb ft**)

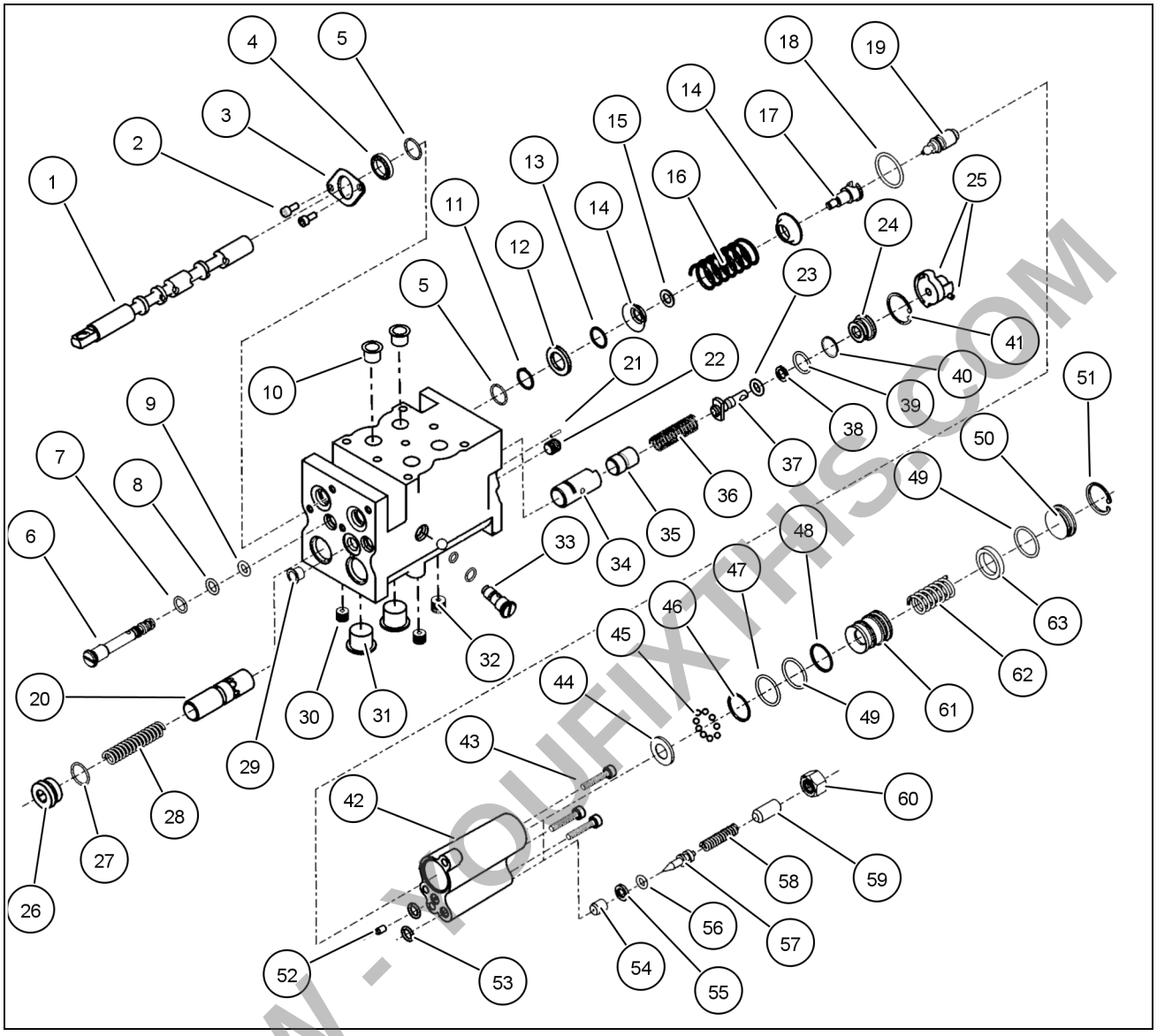
These torques are not recommended for tubes of **12.7 mm** (**1/2 in**) OD and larger with wall thickness of **0.889 mm** (**0.035 in**) or less. The torque is specified for **0.889 mm** (**0.035 in**) wall tubes on each application individually.

Before installing and torquing **37 °** flared fittings, clean the face of the flare and threads with a clean solvent or Loctite cleaner and apply hydraulic sealant **LOCTITE® 569** to the **37 °** flare and the threads.

Install fitting and torque to specified torque, loosen fitting and retorque to specifications.

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Contents

INTRODUCTION

HYDRAULIC, PNEUMATIC, ELECTRICAL, ELECTRONIC SYSTEMS A

PRIMARY HYDRAULIC POWER SYSTEM A.10.A

ELECTRICAL POWER SYSTEM A.30.A

ENGINE AND PTO IN ..... B

ENGINE B.10.A

TRANSMISSION, DRIVE AND PTO OUT C

POWER COUPLING Clutch C.10.C

TRANSMISSION Mechanical C.20.B

ADDITIONAL REDUCERS Creeper C.30.C

AXLES, BRAKES AND STEERING ..... D

FRONT AXLE D.10.A

REAR AXLE D.12.A

2WD-4WD SYSTEM Hydraulic D.14.C

STEERING Hydraulic D.20.C

SERVICE BRAKE Mechanical D.30.B

PARKING BRAKE Mechanical D.32.B

FRAME AND CAB ..... E

USER CONTROLS AND SEAT Control E.32.B

USER PLATFORM E.34.A

ENVIRONMENT CONTROL Heating, ventilation and air-conditioning E.40.D

HITCH AND WORKING TOOL ..... H

HITCH Rear hitch H.10.C

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Safety rules

Personal safety



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible death or injury.

Throughout this manual and on machine decals, you will find the signal words DANGER, WARNING, and CAUTION followed by special instructions. These precautions are intended for the personal safety of you and those working with you.

Read and understand all the safety messages in this manual before you operate or service the machine.

⚠ DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury. The color associated with DANGER is RED.

⚠ WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury. The color associated with WARNING is ORANGE.

⚠ CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury. The color associated with CAUTION is YELLOW.

FAILURE TO FOLLOW DANGER, WARNING, AND CAUTION MESSAGES COULD RESULT IN DEATH OR SERIOUS INJURY.

Machine safety

NOTICE: *Notice indicates a situation which, if not avoided, could result in machine or property damage. The color associated with Notice is BLUE.*

Throughout this manual you will find the signal word Notice followed by special instructions to prevent machine or property damage. The word Notice is used to address practices not related to personal safety.

Information

NOTE: *Note indicates additional information which clarifies steps, procedures, or other information in this manual.*

Throughout this manual you will find the word Note followed by additional information about a step, procedure, or other information in the manual. The word Note is not intended to address personal safety or property damage.

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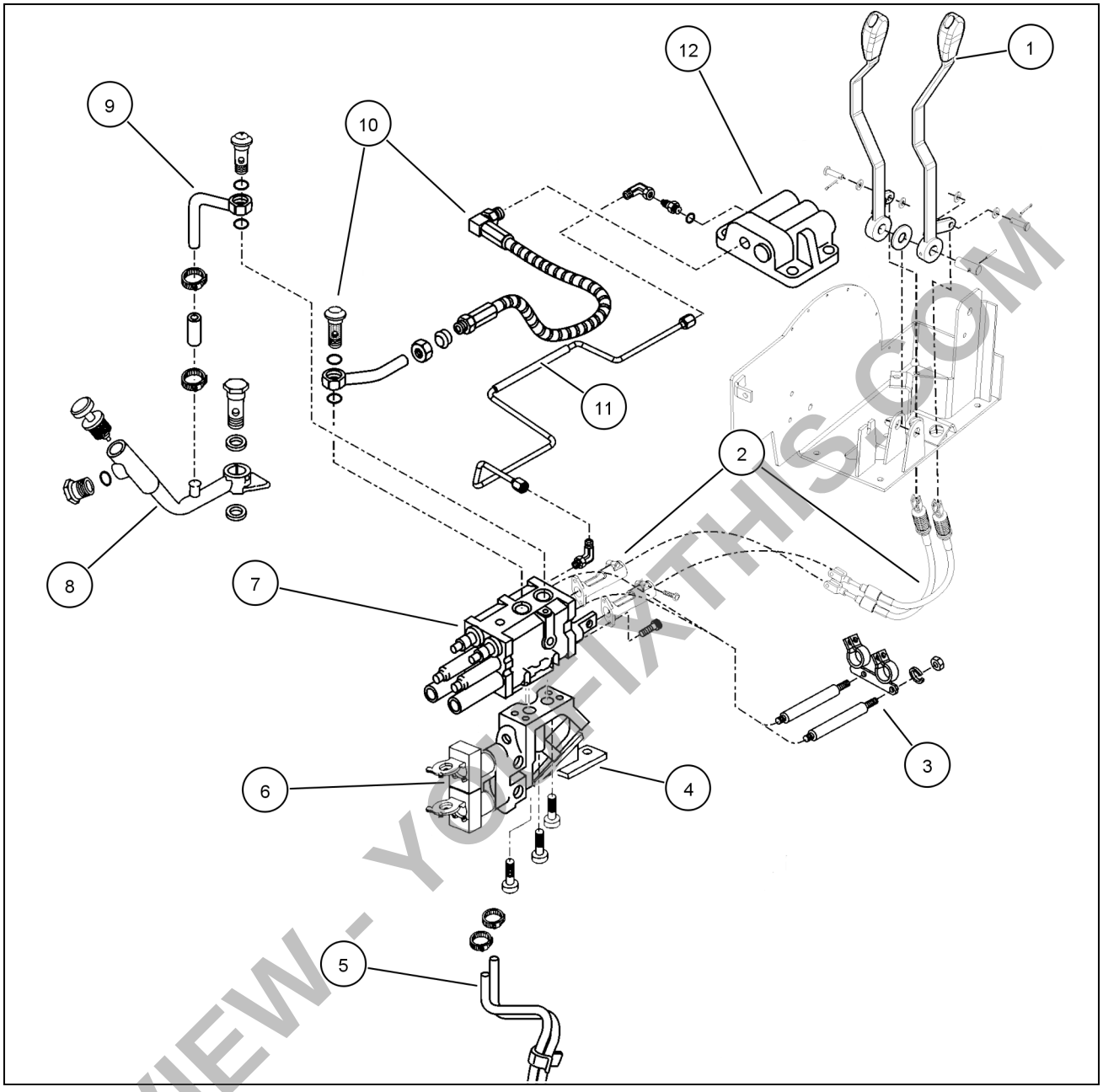
Contents

INTRODUCTION

Foreword - Ecology and the environment 3
International symbols 4
Safety rules 5
Safety rules - Personal safety 6
Safety rules 7
Personal safety 8
Safety rules 9
Basic instructions - Important notice regarding equipment servicing 14
Torque - Minimum tightening torques for normal assembly 15
Torque - Standard torque data for hydraulics 20
Basic instructions - Chain Wear Tables - Roller Chains 22
Basic instructions - Shop and Assembly 24
Basic instructions - How To Use and Navigate Through This Manual 26
General specification - Biodiesel Fuels 31
General specification - General Welding 32

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Hydraulic pump Tandem gear pump - Install

⚠ DANGER

Improper operation or service of this machine can result in an accident.
Do not operate this machine or perform any lubrication, maintenance, or repair on it until you have read and understood the operation, lubrication, maintenance, and repair information.
Failure to comply will result in death or serious injury.

D0010A

⚠ WARNING

Uncontrolled equipment movement!
Before disconnecting the hydraulic hoses from the tractor:
-Lower the implement to the ground; OR,
-Install the transport stops and place the hydraulic remote lever in the float position.
Failure to comply could result in death or serious injury.

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⚠ WARNING

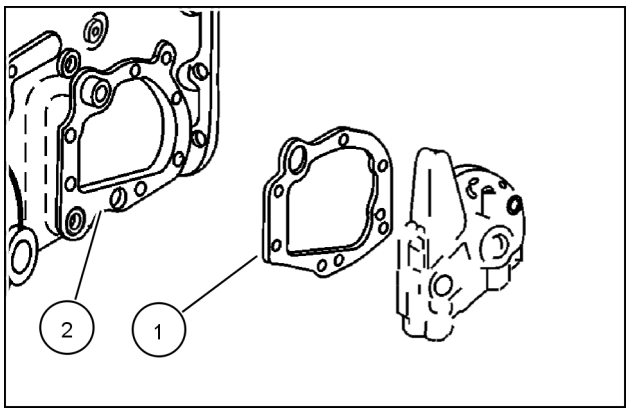
Chemical hazard!
When handling fuel, lubricants, and other service chemicals, follow the manufacturer's instructions. Wear Personal Protective Equipment (PPE) as instructed. Do not smoke or use open flame. Collect fluids in proper containers. Obey all local and environmental regulations when disposing of chemicals.
Failure to comply could result in death or serious injury.

W0371A

Prior operation:
Hydraulic pump Tandem gear pump - Remove (A.10.A)

NOTICE: *Clean the area around the transmission opening to facilitate a tight seal between the tandem pump and the transmission.*

1. Align the tandem pump's new gasket **(1)** over the transmission opening **(2)**.



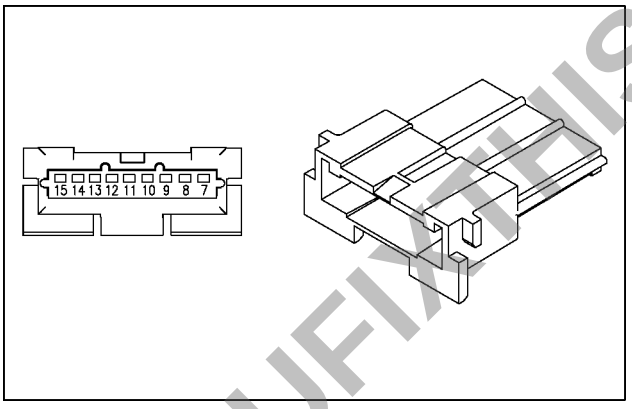
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CONNECTOR X-025 - TURN / LIGHT SWITCH

CONNECTOR X-025 - TURN / LIGHT SWITCH			
PIN NUMBER	**WIRE NUMBER**	**CIRCUIT REFERENCE**	**ELECTRICAL SCHEMATIC FRAME**
1	MR-1024 (R)	Power signal to Fuse #9 **Z-001**	**Wiring harness - Electrical schematic frame 06 (A.30.A)**
2	MR-3002 (G/W)	Power signal to flasher unit **A-004**	
3	MR-3001 (G/R)	Power signal to flasher unit **A-004**	
4	MR-12 (U/W)	Power signal to Fuse #2 **Z-001**	
5	MR-1004 (G)	Power signal from Fuse #6 **Z-001**	
6	MR-1020B (LG/N)	Power signal from splice **SP-016**	
7	MR-13 (U/R)	Power signal to Fuse #1 **Z-001**	
8	MR-1023 (N)	Power signal from splice **W-004**	
9	MR-376 (P)	Power signal to horn **H-002**	



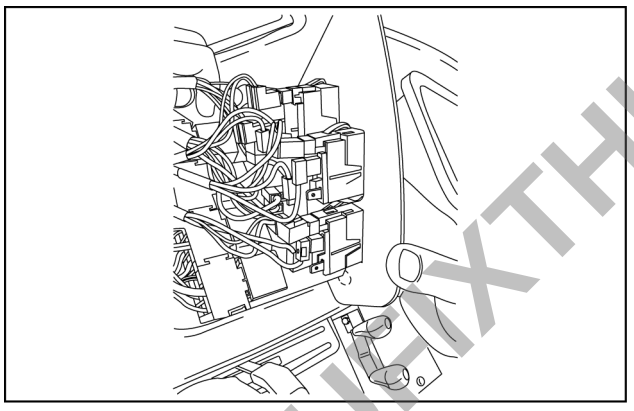
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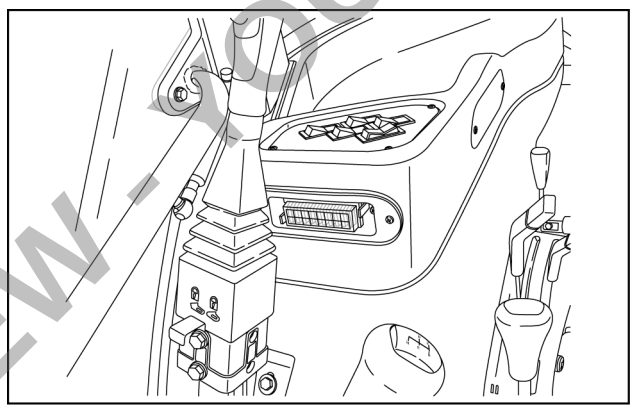
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CONNECTOR X-031 - 4WD SWITCH

CONNECTOR X-031 - 4WD SWITCH			
PIN NUMBER	**WIRE NUMBER**	**CIRCUIT REFERENCE**	**ELECTRICAL SCHEMATIC FRAME**
1	MR-65C (W)	Power signal Instrument cluster module **A-003**	**Wiring harness - Electrical schematic frame 11 (A.30.A)**
2	-	-	
3	-	-	
4	-	-	
5	MR-65B (W)	Power signal from splice **SP-020**	
6	-	-	
7	MR-3025 (Y/U)	Power signal to 4WD solenoid	
8	-	-	



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Wiring harness - Electrical schematic frame 02

TS6020 Rops, TS6030 Rops, TS6030 HC

Component Identifier	Description
B-001	Engine temperature sensor
B-003	Water in fuel sensor
S-001	Engine oil pressure switch
S-002	Air filter restriction switch

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Wiring harness - Electrical schematic frame 18

TS6020 Cab, TS6030 Cab

Component Identifier	Description
K-004	Power relay
K-005	Front and rear work lamps
K-006	Rear work lamps
K-007	Front work lamps
Z-002	Cab fuse block

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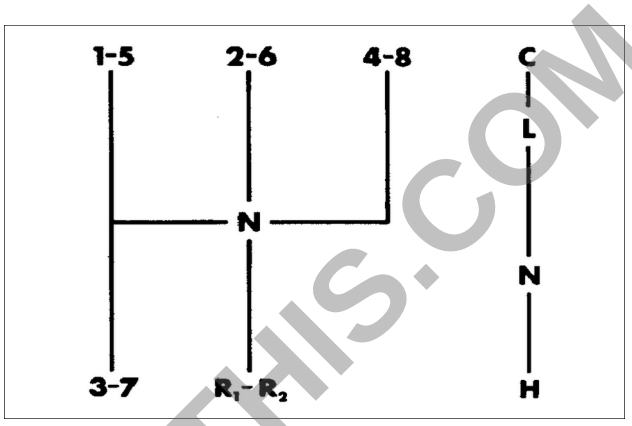
TRANSMISSION Mechanical - Overview

The non-synchronized transmission is a constant gear type that allows eight forward and two reverse speeds that are selected manually by means of two shift levers. The main lever manually selects among four forward speeds or one reverse speed, while the shorter reduction lever allows the operator to select the long or short connection.

The transmission has a built-in safety start switch that only allows the engine to work if the reduction lever is in the neutral position.

Shift lever positions (with an optional super reducer)

L = LOW
N = NEUTRAL
C = CREEPER
H = HIGH
R = REVERSE



RCPH09TTS115AAD 1

The gears are in constant meshand the connections are made by sliding couplers. The primary transmission axle is in the upper shaft and the main counter-axle and the output axle are found in the lower shaft. The transmission is equipped with power take off (PTO) that is independent from transmission speeds and has one or two speeds.

The transmission has straight cut gears. All bearings are roller bearings except for the output axle which has roller cone bearings. The movement of the output axle is controlled by the thicknesses between the output axle cap and the bearing retainer.

Low pressure oil from the hydraulic system is used for pressure lubrication of the gear box. One part of the low pressure hydraulic oil is picked up by external tubes from the oil cooler located at the front of the machine. The cooled oil then goes to the gear box.

The main counter-axle and the output axle are hollow and receive oil from the cooler. There are some transversal perforations in the main counter-axle and the output axle that allow the lubrication oil to come out and cool the shift gears.

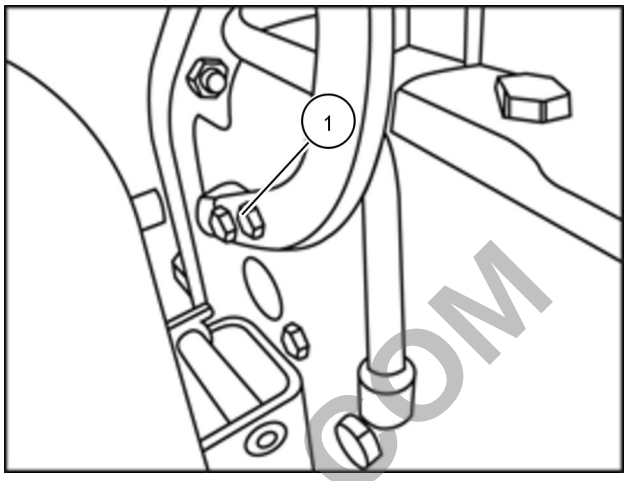
The return hydraulic oil passes through the gear box and goes back to the machine’s hydraulic system and differential box. Therefore, the gear box, differential box and hydraulic system make up a common oil deposit.

The dual power option consists of a set of planetary gears directly installed between the clutch and the output axle in the standard transmission. The set of planetary gears allows the operator to directly select drive or reduction for each speed of the standard transmission.

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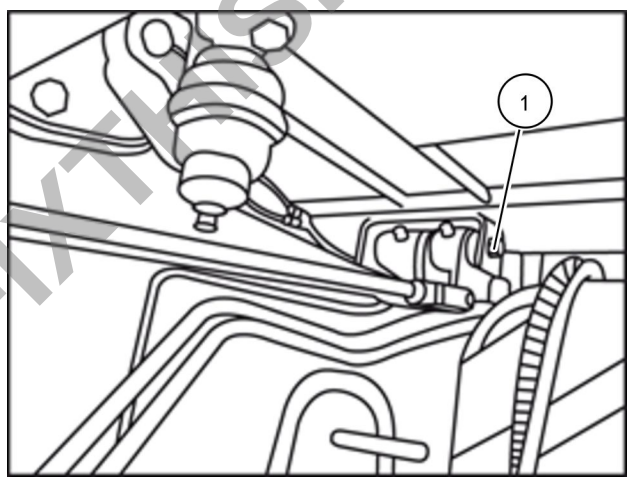
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30. Install the bolts **(1)** securing the PTO lever to the PTO linkage.



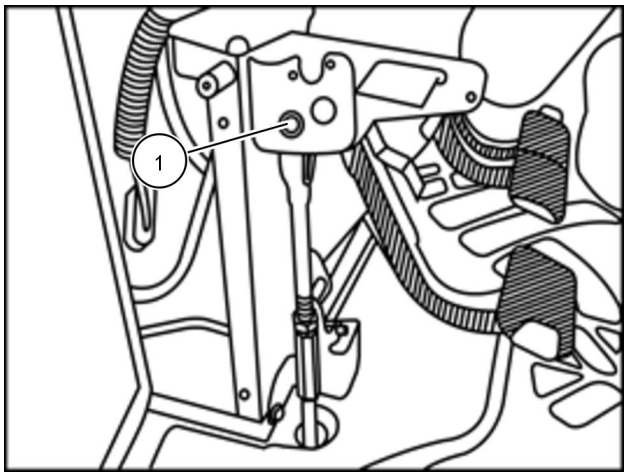
20118339 21

31. Connect the pedal linkage and install the retaining bolt **(1)**.



20118338 22

32. Install the clutch pedal linkage bolt **(1)**.



20118337 23

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Differential - Preload - Side bearing

Prior operation:
Differential - Assemble (D.10.A)

1. Locate measurement for the strength necessary to make the pinion shaft turn over bearings. This measurement was recorded during the previous operation.
2. With the crown in contact with the pinion and having adjusted the free play, turn the pinion with the rope and the spring scale. Record the strength needed to make pinion, crown and differential turn.
3. Subtract the turning resistance for just the pinion from the new value for the pinion and crown.

   For example:

   Pinion and crown: **12.2 kgf** (**26.90 lbf**)

   Pinion only: **9.2 kgf** (**20.28 lbf**)

   New value: **3.1 kgf** (**6.83 lbf**)
4. Equally tighten each tightening nut of the differential side bearing until the turning resistance obtained is within the lower band of the specification.
5. Tighten the cover screws to specification.

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Differential - Remove - Drive pinion

⚠ DANGER

Heavy parts!
Support designated component(s) with adequate lifting equipment.
Failure to comply will result in death or serious injury.

D0018A

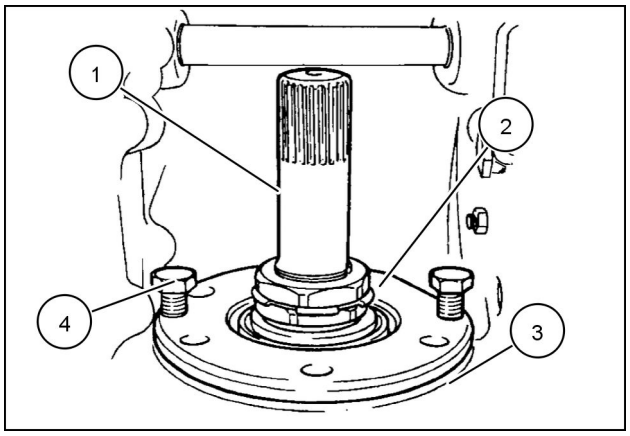
⚠ CAUTION

Pinch hazard!
Always use suitable tools to align mating parts. DO NOT use your hand or fingers.
Failure to comply could result in minor or moderate injury.

C0044A

Prior operation:
Differential - Preload (D.12.A)

1. Separate the machine between the transmission and the differential housing.
2. Remove the PTO clutch assembly.
3. Remove the emergency brake from the transmission.
4. If installed, remove the transmission hand brake shield from the pinion drive gear.
5. Remove the differential and the differential lock assembly.
6. Remove the bolts and washers that secure the drive pinion.
7. Remove the drive pinion assembly **(1)** from the housing **(3)**. Facilitate removal by placing jacking bolts **(4)** in the holes in the bearing retainer **(2)**.



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Next operation:
Differential - Disassemble (D.12.A)

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SERVICE BRAKE Mechanical - Adjust freeplay

⚠ WARNING

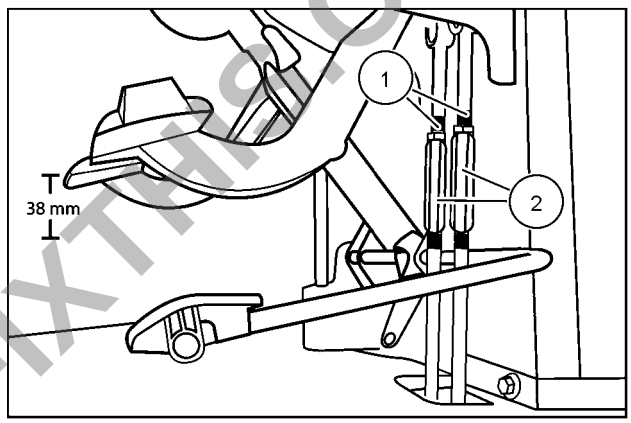
Maintenance hazard!
Before performing maintenance on the brake system, chock the traction and steering wheels to prevent machine movement.
Failure to comply could result in death or serious injury.

W0064A

Prior operation:
SERVICE BRAKE Mechanical - Assemble (D.30.B)
Prior operation:
SERVICE BRAKE Mechanical - Test (D.30.B)

The brake pedal free play must be **38 mm** (**1.50 in**) with the pedals latched. The tractor must stop in a straight line when both pedals are depressed. If not, adjust as follows:

1. Adjustment is done using the brake rods located under the platform. Chock both rear tires, release the pedals and the parking brake.
2. Release the locking nut from the left side brake **(1)**. Turn the adjusting nut **(2)** until the freeplay is **38 mm** (**1.50 in**), then tighten the locking nut.
3. Repeat the same operation for the opposite brake.



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Door, window and windscreen - Install Wiper motor installation

⚠ WARNING

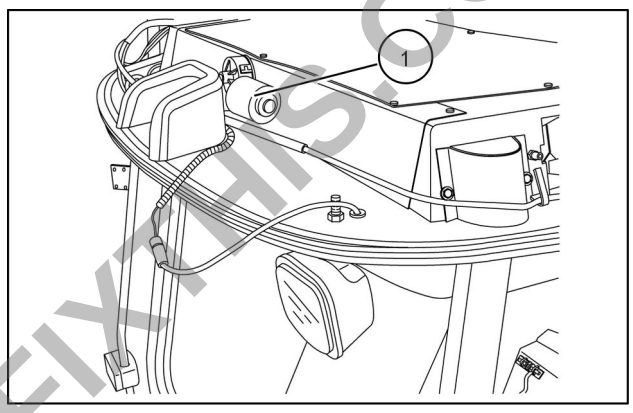
Electrical shock hazard!
Before working on any part of the electrical system, disconnect the battery ground cable. Complete all electrical work before connecting the cable.
Failure to comply could result in death or serious injury.

W0129A

Prior operation:
Door, window and windscreen - Remove Wiper motor removal (E.34.A)

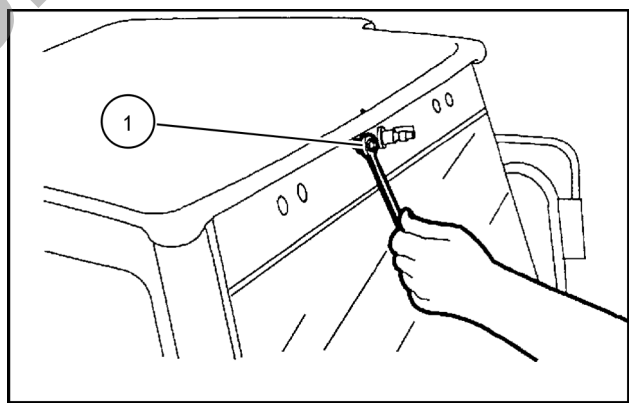
NOTE: *This operation requires two persons.*

1. Secure the wiper motor assembly **(1)**, using the large nut, to the top of the cab.



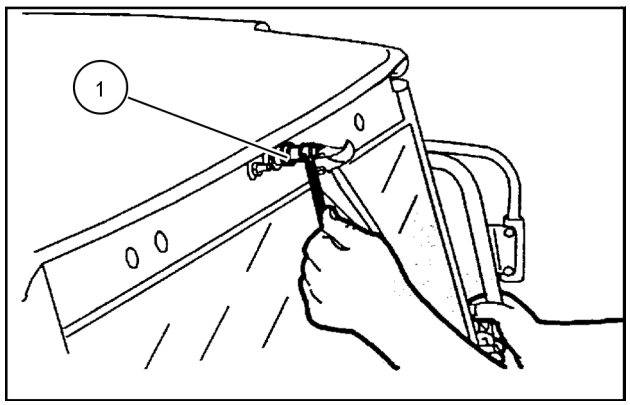
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2. Further secure the wiper motor assembly into position using the small nut **(1)** as shown.



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3. Tighten the wiper blade retaining screw **(1)**.

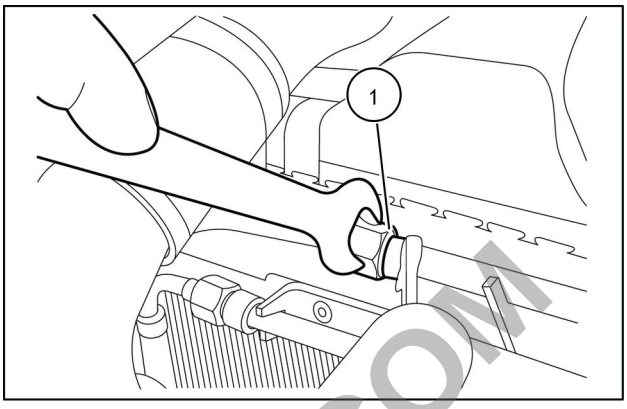


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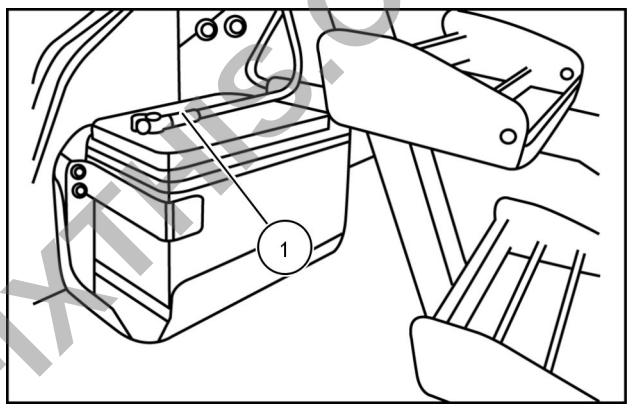
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2. Connect the two flexible pipes **(1)** to the condenser.



83113092 7

3. Connect the negative battery lead. **(1)**.



20113016 8

4. Evacuate the system then charge with **R134A** refrigerant, using the evacuation/charging station **380000558**.
5. Close the hood.

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