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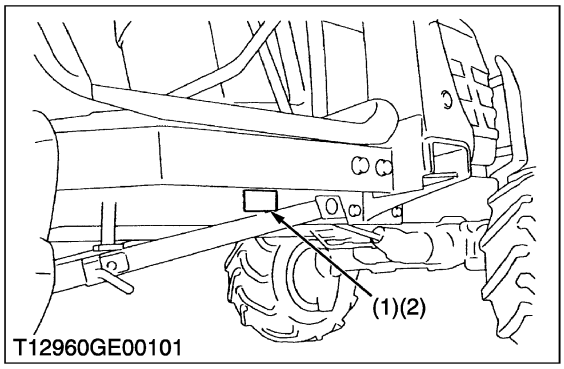
WORKSHOP MANUAL
TRACTOR
BX22
[LA210 FRONT LOADER]
[BT600 BACKHOE]

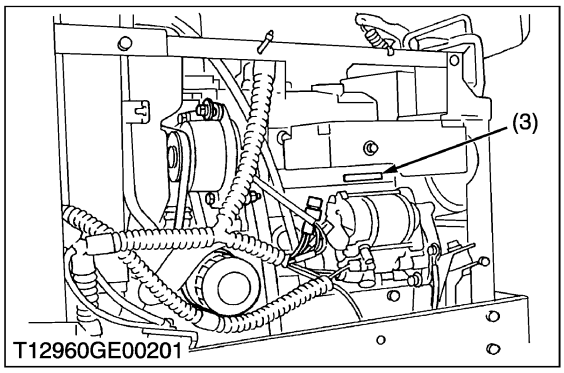
Kubota

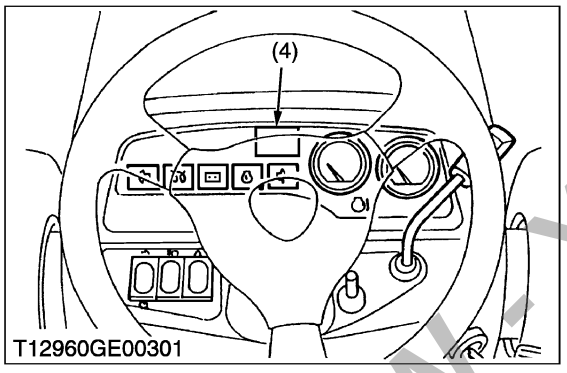
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1. TRACTOR IDENTIFICATION







When contacting your local KUBOTA distributor, always specify engine serial number, tractor serial number and hour meter reading.

(1) Tractor Identification Plate
(2) Tractor Serial Number
(3) Engine Serial Number
(4) Hour Meter

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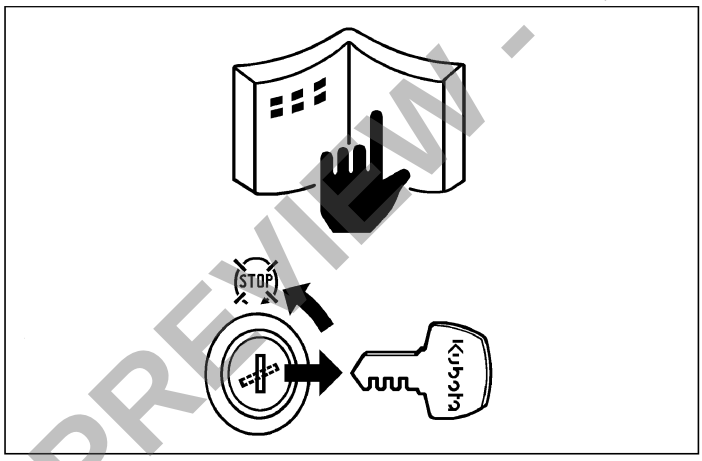
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⚠ SAFETY FIRST

This symbol, the industry's "Safety Alert Symbol", is used throughout this manual and on labels on the machine itself to warn of the possibility of personal injury. Read these instructions carefully.

It is essential that you read the instructions and safety regulations before you attempt to repair or use this unit.

⚠ **DANGER**	**: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.**
⚠ **WARNING**	**: Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.**
⚠ **CAUTION**	**: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.**
■ **IMPORTANT**	**: Indicates that equipment or property damage could result if instructions are not followed.**
■ **NOTE**	**: Gives helpful information.**



BEFORE SERVICING AND REPAIRING

- Read all instructions and safety instructions in this manual and on your machine safety decals.
- Clean the work area and machine.
- Park the machine on a firm and level ground, and set the parking brake.
- Lower the implement to the ground.
- Stop the engine, and remove the key.
- Disconnect the battery negative cable.
- Hang a "**DO NOT OPERATE**" tag in operator station.

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SPECIFICATIONS

Model			BX22
PTO power			12.4 kW (16.7 HP)*
Engine	Maker		KUBOTA
	Model		D905-E-BX
	Type		Indirect Injection. Vertical, water-cooled, 4-cycle diesel
	Number of cylinders		3
	Bore and stroke		72 × 73.6 mm (2.83 × 2.90 in.)
	Total displacement		898 cm^3 (54.8 cu.in.)
	Engine gross power (DIN)		16.4 kW (22.0 HP)
	Rated revolution		53.3 r/s [3200 min^{-1} (rpm)]
	Maximum torque		54.9 N·m (5.6 kgf·m, 40.5 ft-lbs) / 36.7 to 43.3 r/s [2200 to 2600 min^{-1} (rpm)]
	Battery		12 V, CCA : 535 A, RC : 80 min.
	Starting system		Electric starter with cell starter, 12 V, 1.4 kW
	Lubrication system		Forced lubrication by trochoid pump
	Cooling system		Pressurized radiator, forced circulation with water pump
	Fuel		Diesel fuel No. 1 [below –10 °C (14 °F)], Diesel fuel No. 2 [above –10 °C (14 °F)]
Capacities	Fuel tank		21 L (5.5 U.S.gals, 4.6 Imp.gals.)
	Engine crankcase (with filter)		2.5 L (2.64 U.S.qts., 2.20 Imp.qts.)
	Engine coolant (with recovery tank)		3.5 L (3.70 U.S.qts., 3.08 Imp.qts.)
	Transmission case		10.1 L (2.7 U.S.gals, 2.2 Imp.gals.)
	Front axle case		4.7 L (4.97 U.S.qts., 4.14 Imp.qts.)
Dimensions	Overall length (without 3P)		2025 mm (79.7 in.)
	Overall width		1145 mm (45.1 in.)
	Overall height (with ROPS)		2190 mm (86.2 in.)
	Overall height (top of steering wheel)		1200 mm (47.2 in.)
	Overall height (with holded ROPS)		1610 mm (63.4 in.)
	Wheel base		1400 mm (55.10 in.)
	Minimum ground clearance (bottom of hitch backet)		170 mm (6.7 in.)
	Tread	Front	910 mm (35.8 in.)
		Rear	820 mm (32.2 in.)
Weight (with ROPS)			690 kg (1520 lbs)
Travelling system	Tires	Front	18 × 8.50 – 8 (Bar)
		Rear	26 × 12.00 – 12 (Bar)
	Steering		Hydrostatic power steering
	Transmission		Main-hydrostatic transmission, High-Low gear shift (2 forward and 2 reverse)
	Brake		Wet disc type
	Min. turning radius (without brake)		2.3 m (7.5 feet)
	Differential		Bevel gear
Hydraulic system	Hydraulic control system		Directional control, auto-return lever system
	Pump capacity		21.0 L/min. (5.5 U.S.gals./min., 4.6 Imp.gals./min.)
	Three point hitch		SAE Category I
	Max. lift force (24 in. behind lift points)		3040 N (310 kg, 684 lbs)
PTO system	Clutch		Wet type, multiple disc
	Mid	PTO shaft	USA No. 5 (KUBOTA 10-tooth) involute spline
		Revolution	41.7 r/s [2500 min^{-1} (rpm)] / engine 52.1 r/s [3125 min^{-1} (rpm)]
	Rear	PTO shaft	SAE 1-3/8, 6 splines
		Revolution	9.0 r/s [540 min^{-1} (rpm)] / engine 51.1 r/s [3068 min^{-1} (rpm)]

NOTE: * Manufacture's estimate
The company reserves the right to change the specifications without notice.

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5. TIGHTENING TORQUES

[1] GENERAL USE SCREWS, BOLTS AND NUTS

Screws, bolts and nuts whose tightening torques are not specified in this Workshop Manual should be tightened according to the table below.

Indication on top of bolt	⬡ 4 No-grade or 4T						⬡ 7 7T						⬡ 9 9T		
Material of bolt	SS400, S20C						S43C, S48C						SCr435, SCM435		
Material of opponent part	Ordinariness			Aluminum			Ordinariness			Aluminum			Ordinariness		
Unit / Diameter	N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs
M6 (6 mm, 0.24 in.)	7.85 to 9.31	0.80 to 0.95	5.79 to 6.87	7.85 to 8.82	0.80 to 0.90	5.79 to 6.50	9.81 to 11.2	1.00 to 1.15	7.24 to 8.31	7.85 to 8.82	0.80 to 0.90	5.79 to 6.50	12.3 to 14.2	1.25 to 1.45	9.05 to 10.4
M8 (8 mm, 0.31 in.)	17.7 to 20.5	1.8 to 2.1	13.1 to 15.1	16.7 to 19.6	1.7 to 2.0	12.3 to 14.4	23.6 to 27.4	2.4 to 2.8	17.4 to 20.2	17.7 to 20.5	1.8 to 2.1	13.1 to 15.1	29.5 to 34.3	3.0 to 3.5	21.7 to 25.3
M10 (10 mm, 0.39 in.)	39.3 to 45.1	4.0 to 4.6	29.0 to 33.2	31.4 to 34.3	3.2 to 3.5	23.2 to 25.3	48.1 to 55.8	4.9 to 5.7	35.5 to 41.2	39.3 to 44.1	4.0 to 4.5	29.0 to 32.5	60.9 to 70.6	6.2 to 7.2	44.9 to 52.0
M12 (12 mm, 0.47 in.)	62.8 to 72.5	6.4 to 7.4	46.3 to 53.5	–	–	–	77.5 to 90.2	7.9 to 9.2	57.2 to 66.5	62.8 to 72.5	6.4 to 7.4	46.3 to 53.5	103 to 117	10.5 to 12.0	76.0 to 86.7
M14 (14 mm, 0.55 in.)	108 to 125	11.0 to 12.8	79.6 to 92.5	–	–	–	124 to 147	12.6 to 15.0	91.2 to 108	–	–	–	167 to 196	17.0 to 20.0	123 to 144
M16 (16 mm, 0.63 in.)	167 to 191	17.0 to 19.5	123 to 141	–	–	–	197 to 225	20.0 to 23.0	145 to 166	–	–	–	260 to 304	26.5 to 31.0	192 to 224
M18 (18 mm, 0.71 in.)	246 to 284	25.0 to 29.0	181 to 209	–	–	–	275 to 318	28.0 to 32.5	203 to 235	–	–	–	344 to 402	35.0 to 41.0	254 to 296
M20 (20 mm, 0.79 in.)	334 to 392	34.0 to 40.0	246 to 289	–	–	–	368 to 431	37.5 to 44.0	272 to 318	–	–	–	491 to 568	50.0 to 58.0	362 to 419

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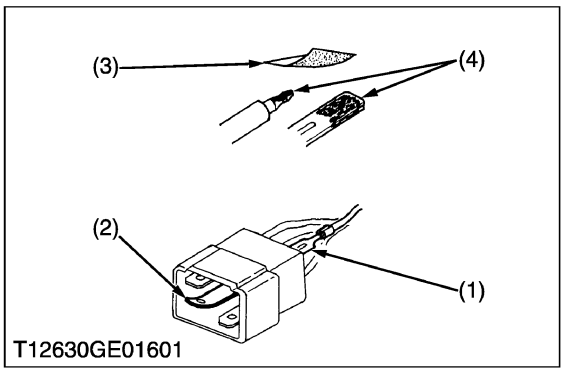
[2] STUD BOLTS

Material of opponent part	Ordinariness			Aluminum		
Unit / Diameter	N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs
M8 (8 mm, 0.31 in.)	11.8 to 15.6	1.2 to 1.6	8.68 to 11.5	8.82 to 11.8	0.90 to 1.2	6.51 to 8.67
M10 (10 mm, 0.39 in.)	24.6 to 31.3	2.5 to 3.2	18.1 to 23.1	19.7 to 25.4	2.0 to 2.6	14.5 to 18.8
M12 (12 mm, 0.47 in.)	29.5 to 49.0	3.0 to 5.0	21.7 to 36.1	31.4	3.2	23.1

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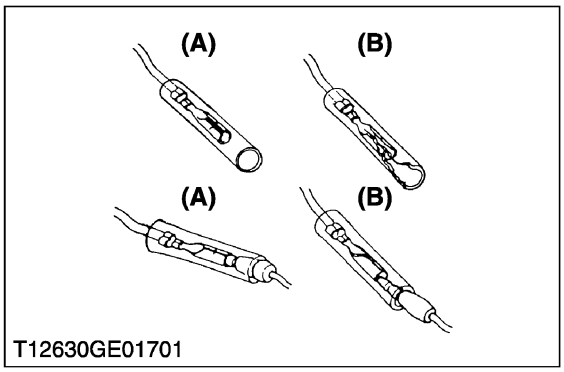


T12630GE01601

- Use sandpaper to remove rust from terminals.
- Repair deformed terminal. Make certain there is no terminal being exposed or displaced.

(1) Exposed Terminal
(2) Deformed Terminal
(3) Sandpaper
(4) Rust

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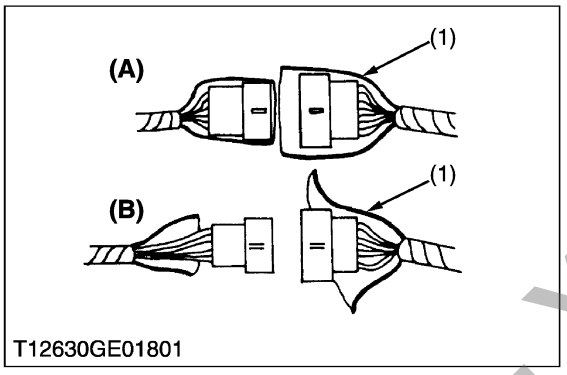


T12630GE01701

- Make certain that there is no female connector being too open.

(A) Correct
(B) Incorrect

W10124300



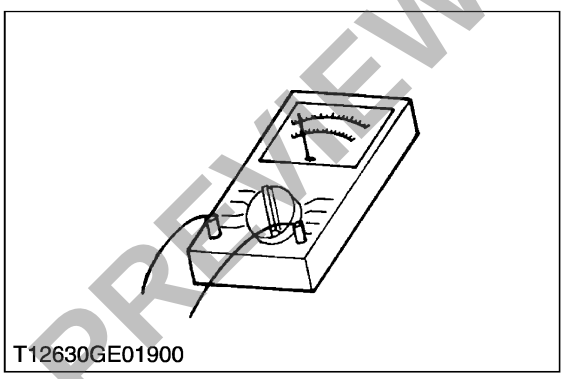
T12630GE01801

- Make certain plastic cover is large enough to cover whole connector.

(1) Cover
(A) Correct
(B) Incorrect

W10125190

[5] HANDLING OF CIRCUIT TESTER


T12630GE01900

- Use tester correctly following manual provided with tester.
- Check for polarity and range.

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4. LUBRICANTS FUEL AND COOLANT

No.	Place	Capacity	Lubricants, fuel and coolant
		BX22	
1	Fuel tank	21.0 L 5.5 U.S.gals. 4.6 Imp.gals.	No. 2-D diesel fuel No. 1-D diesel fuel if temperature is below –10 °C (14 °F)
2	Cooling system with recovery tank	3.5 L 3.70 U.S.qts. 3.08 Imp.qts.	Fresh clean water with anti-freeze
3	Engine crankcase	2.5 L 2.64 U.S.qts. 2.20 Imp.qts.	Engine oil : API Service CC or CD Below 0 °C (32 °F) : SAE10W, 10W-30 or 10W-40 0 to 25 °C (32 to 77 °F): SAE20, 10W-30 or 10W-40 Above 25 °C (77 °F): SAE30, 10W-30 or 10W-40
4	Transmission case	10.1 L 2.7 U.S.gals. 2.2 Imp.gals.	KUBOTA SUPER UDT fluid*
5	Front axle case	4.7 L 4.97 U.S.qts. 4.14 Imp.qts.	KUBOTA SUPER UDT fluid or SAE80, SAE90 gear oil

Greasing				
	Place	No. of greasing point	Capacity	Type of grease
6	Battery terminal	2	Moderate amount	Multipurpose type grease
7	Speed control pedal	1	Until grease overflows	

* KUBOTA original transmission hydraulic fluid.

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3. SERVICING SPECIFICATIONS

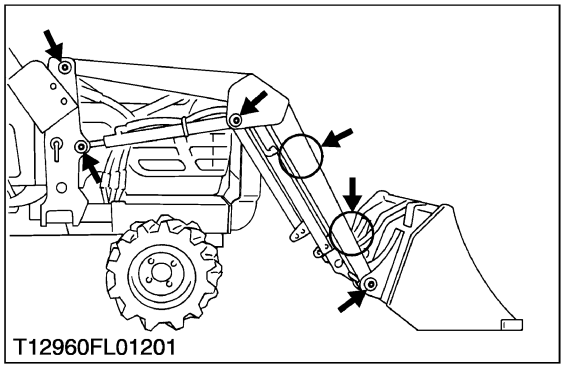
Item		Factory Specification	Allowable Limit
Main Frame Fulcrum Pin to Bushing	Clearance	0.076 to 0.132 mm 0.003 to 0.005 in.	0.5 mm 0.0197 in.
Main Frame Fulcrum Pin	O.D.	39.97 to 40.00 mm 1.574 to 1.575 in.	–
Bushing	I.D.	40.081 to 40.110 mm 1.578 to 1.579 in.	–
Swing Cylinder Rod Pin to Bushing	Clearance	0.108 to 0.259 mm 0.004 to 0.010 in.	1.0 mm 0.0394 in.
Pin	O.D.	24.816 to 25.000 mm 0.977 to 0.984 in.	–
Bushing	I.D.	25.000 to 25.209 mm 0.984 to 0.992 in.	–
Boom Support, Dipperstick Fulcrum Pin to Bushing	Clearance	0.140 to 0.180 mm 0.006 to 0.007 in.	1.0 mm 0.0394 in.
Pin	O.D.	29.820 to 30.000 mm 1.174 to 1.181 in.	–
Bushing	I.D.	30.000 to 30.251 mm 1.181 to 1.191 in.	–
Boom Cylinder Rod Pin to Cylinder Bushing	Clearance	0.139 to 0.281 mm 0.005 to 0.011 in.	1.0 mm 0.0394 in.
Pin	O.D.	29.820 to 30.000 mm 1.174 to 1.181 in.	–
Bushing	I.D.	30.000 to 30.251 mm 1.181 to 1.191 in.	–
Dipperstick Cylinder Rod Pin to Cylinder Bushing	Clearance	0.178 to 0.309 mm 0.007 to 0.012 in.	1.0 mm 0.0394 in.
Pin	O.D.	24.816 to 25.000 mm 0.977 to 0.984 in.	–
Bushing	I.D.	25.000 to 25.209 mm 0.984 to 0.992 in.	–
Bucket Cylinder Rod Pin to Cylinder Bushing	Clearance	0.262 to 0.393 mm 0.010 to 0.015 in.	1.0 mm 0.0394 in.
Pin	O.D.	24.816 to 25.000 mm 0.977 to 0.984 in.	–
Bushing	I.D.	25.000 to 25.209 mm 0.984 to 0.992 in.	–

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(2) Check Points of Every 10 Hours



Greasing

1. Inject grease in all grease fitting with a hand grease gun.

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Lubricating

1. Lubricate joints of control lever linkage.

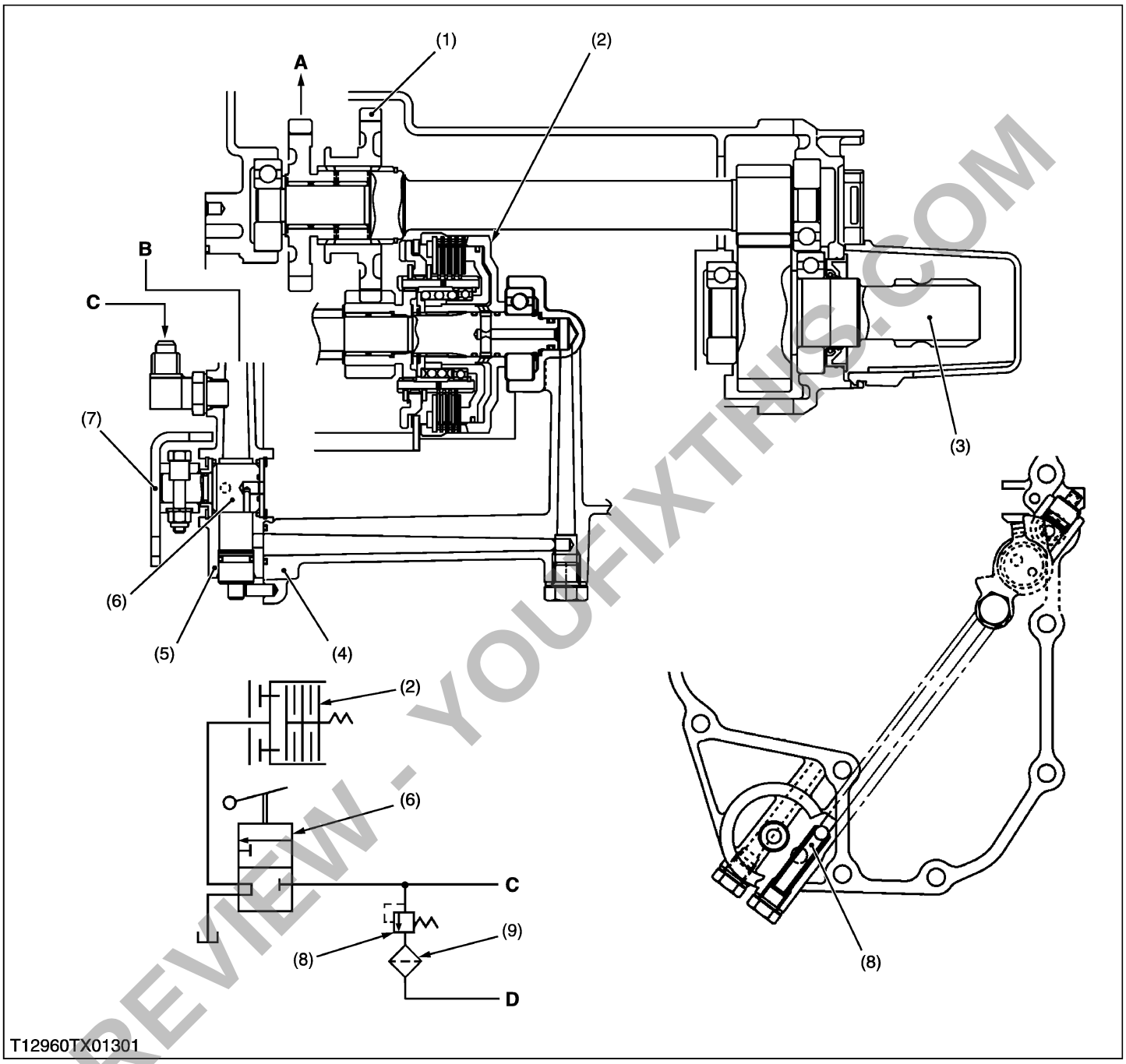
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3. PTO SYSTEM

[1] PTO CLUTCH AND VALVE



(1) PTO Select Gear
(2) PTO Clutch Pack
(3) Rear PTO Shaft
(4) Transmission Case
(5) Front Cover
(6) PTO Clutch Valve
(7) PTO Clutch Arm
(8) PTO Relief Valve
(9) Oil Filter Cartridge
A : To Mid-PTO Shaft
B : Connected to PTO Relief Valve
C : From Power Steering Controller
D : To Hydrostatic Transmission

The BX series equipped with hydraulic independent PTO clutch (wet multi-plates type). Therefore, the engine power could engage or disengage to the PTO shafts without stopping the tractor movement.

The PTO clutch pack (2) has four clutch discs, four drive plates, pressure plate, clutch piston and so on.

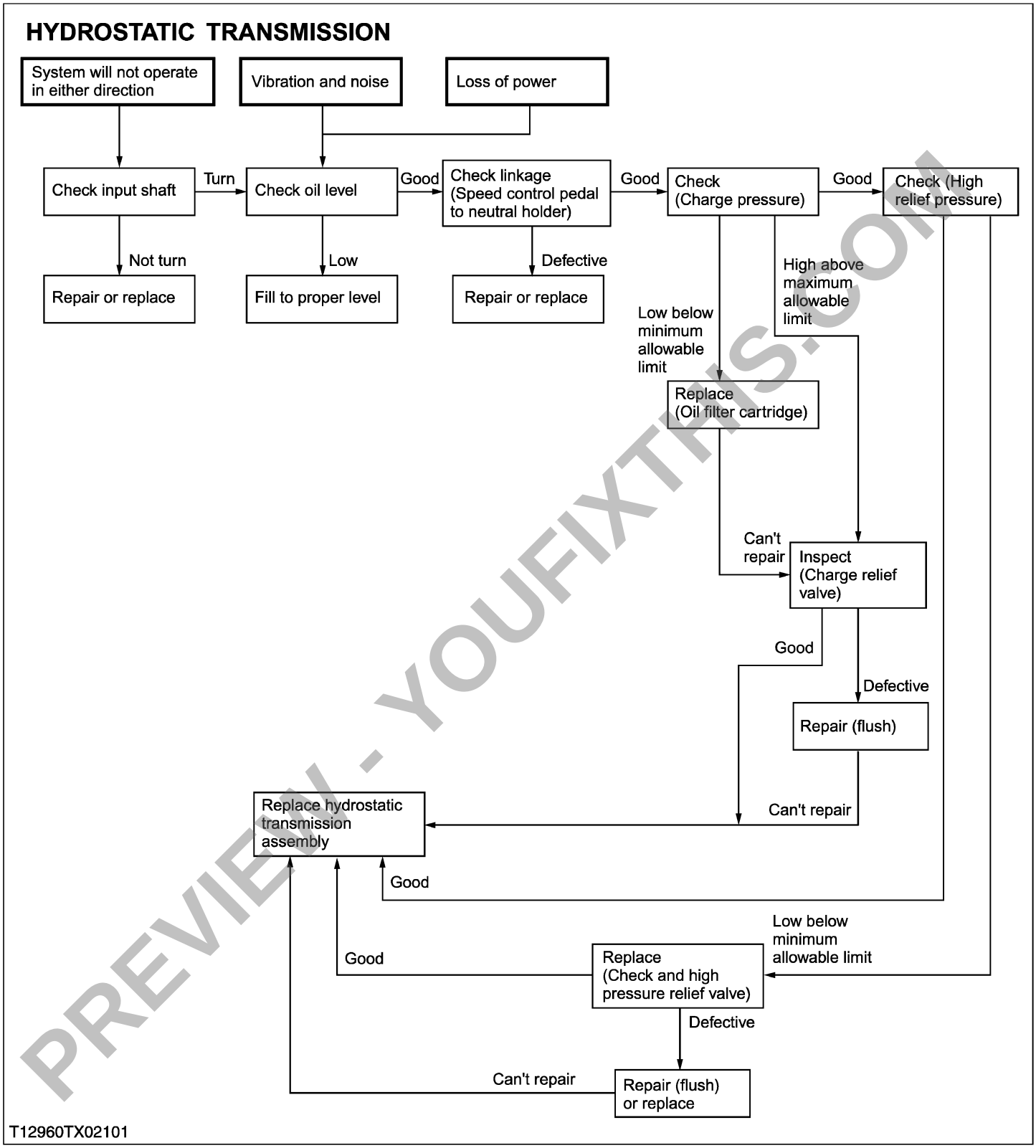
The clutch piston is actuated by hydraulic oil flow from the power steering controller.

The PTO clutch valve (6) controls the hydraulic oil flow from power steering controller to the PTO clutch pack (2) by operating the PTO clutch lever through linkage.

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1. TROUBLESHOOTING



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[3] AMERICAN STANDARD SCREWS, BOLTS AND NUTS WITH UNC OR UNF THREADS

Grade / Unit / Nominal Diameter	SAE GR.5			SAE GR.8		
	N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs
5/16	23.1 to 27.8	2.35 to 2.84	17.0 to 20.5	32.5 to 39.3	3.31 to 4.01	24.0 to 29.0
3/8	47.5 to 57.0	4.84 to 5.82	35.0 to 42.0	61.0 to 73.2	6.22 to 7.47	45.0 to 54.0
1/2	108.5 to 130.2	11.07 to 13.29	80.0 to 96.0	149.2 to 179.0	15.22 to 18.27	110.0 to 132.0
9/16	149.2 to 179.0	15.22 to 18.27	110.0 to 132.0	217.0 to 260.4	22.14 to 26.57	160.0 to 192.0
5/8	203.4 to 244.1	20.75 to 24.91	150.0 to 180.0	298.3 to 358.0	30.44 to 36.53	220.0 to 264.0

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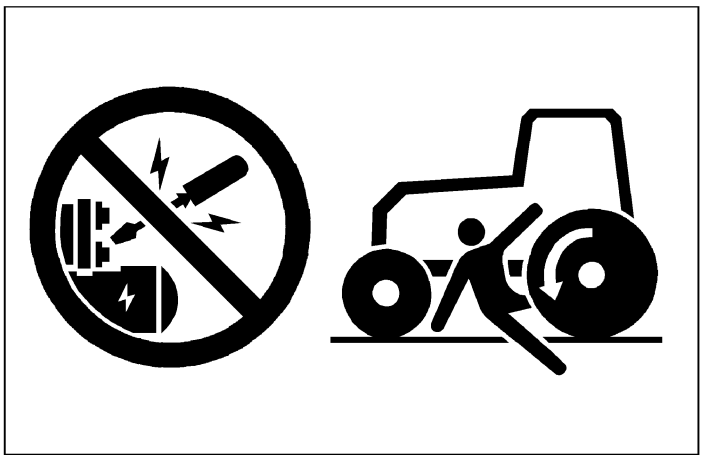
PTO SECTION

Symptom	Probable Cause	Solution	Reference Page
PTO Clutch Slip	• Operating pressure is low • PTO clutch valve malfunctioning • Clutch disc or drive plate excessively worn • Deformation of clutch piston	Check Repair or replace Replace Replace	2-S10 2-S23 2-S31 2-S31
PTO Shaft Does Not Rotate	• PTO clutch malfunctioning	Repair or replace Engage	2-S25
PTO Clutch Operating Pressure is Low	• Transmission oil improper or insufficient • Relief valve malfunctioning	Replenish or change Check or replace	2-S11 2-S10, S25
PTO Clutch Drags	• Brake plate excessive worn • Clutch spring weaken or broken • Deformation of pressure plate or steel plate	Replace Replace Replace	2-S32 2-S32 2-S25

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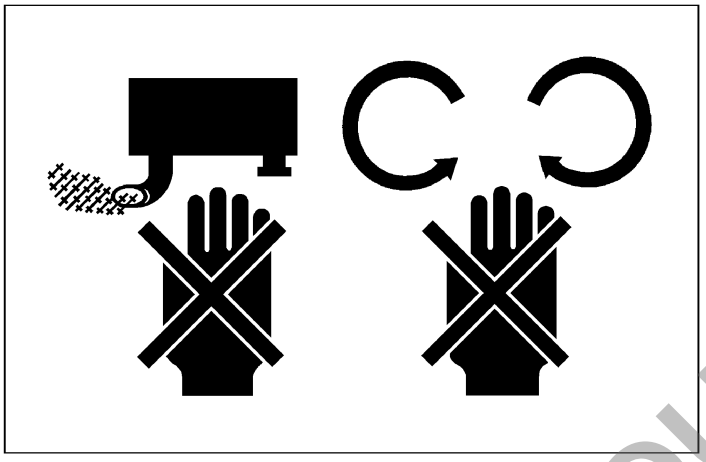
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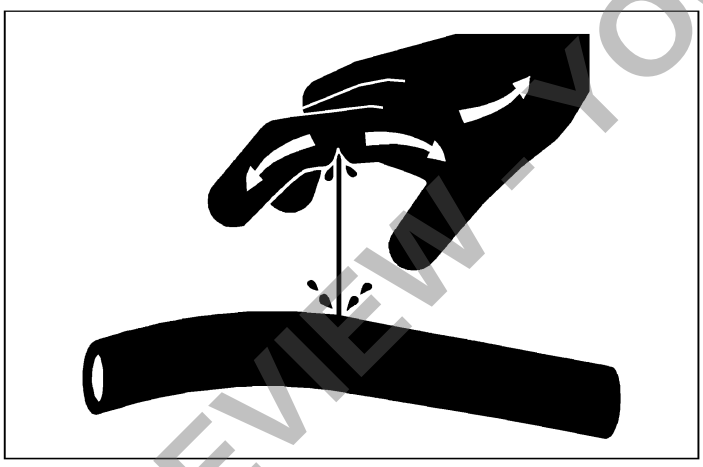
SAFETY STARTING

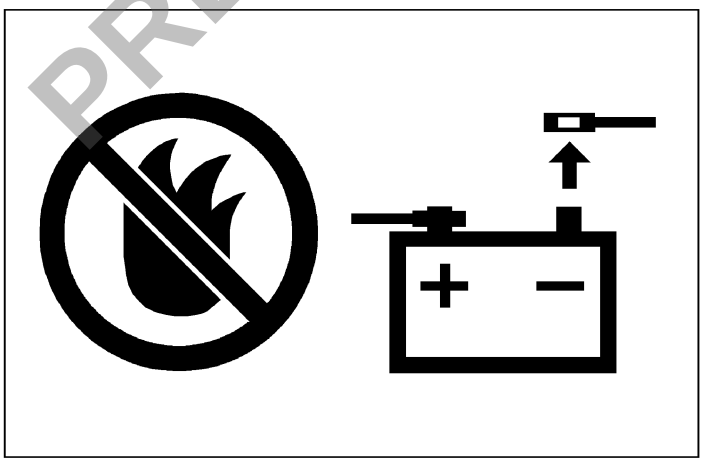
- Do not start the engine by shorting across starter terminals or bypassing the safety start switch.
- Do not alter or remove any part of machine safety system.
- Before starting the engine, make sure that all shift levers are in neutral positions or in disengaged positions.
- Never start the engine while standing on ground. Start the engine only from operator's seat.



SAFETY WORKING

- Do not work on the machine while under the influence of alcohol, medication, or other substances or while fatigued.
- Wear close fitting clothing and safety equipment appropriate to the job.
- Use tools appropriate to the work. Makeshift tools, parts, and procedures are not recommended.
- When servicing is performed together by two or more persons, take care to perform all work safely.
- Do not work under the machine that is supported solely by a jack. Always support the machine by safety stands.
- Do not touch the rotating or hot parts while the engine is running.
- Never remove the radiator cap while the engine is running, or immediately after stopping. Otherwise, hot water will spout out from radiator. Only remove radiator cap when cool enough to touch with bare hands. Slowly loosen the cap to first stop to relieve pressure before removing completely.
- Escaping fluid (fuel or hydraulic oil) under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or fuel lines. Tighten all connections before applying pressure.





AVOID FIRES

- Fuel is extremely flammable and explosive under certain conditions. Do not smoke or allow flames or sparks in your working area.
- To avoid sparks from an accidental short circuit, always disconnect the battery negative cable first and connect it last.
- Battery gas can explode. Keep sparks and open flame away from the top of battery, especially when charging the battery.
- Mark sure that no fuel has been spilled on the engine.

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3. TIGHTENING TORQUES

Tightening torques of screws, bolts and nuts on the table below are especially specified.
(For general use screws, bolts and nuts : See page G-8.)

Item	N·m	kgf·m	ft-lbs
Cushion mounting nut	48.1	4.9	35.4
Engine mounting nut	48.1	4.9	35.4
Engine support screw	48.1 to 55.9	4.9 to 5.7	35.4 to 41.2
Front coupling mounting screw	23.5 to 27.4	2.4 to 2.8	17.3 to 20.2
Under cover mounting bolt and nut	7.8 to 8.8	0.8 to 0.9	5.8 to 6.5

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Item	Size x Pitch	N·m	kgf·m	ft-lbs
Air cleaner stay nut	M10 × 1.25	48.1 to 55.9	4.9 to 5.7	35.4 to 41.2
* Bearing case cover screw	M6 × 1.0	9.8 to 11.3	1.00 to 1.15	7.2 to 8.3
Connecting rod screw	M8 × 1.0	41.2 to 46.1	4.2 to 4.7	30.3 to 33.9
* Cylinder head cover cap nut	M7 × 1.0	6.9 to 8.8	0.7 to 0.9	5.1 to 6.5
* Cylinder head screw	M10 × 1.25	63.7 to 68.6	6.5 to 7.0	47.0 to 50.6
* Fan drive pulley screw	M14 × 1.5	235.4 to 245.2	24.0 to 25.0	173.6 to 180.8
* Flywheel screw	M10 × 1.25	53.9 to 58.8	5.5 to 6.0	39.8 to 43.4
Glow plug	M8 × 1.0	7.8 to 14.7	0.8 to 1.5	5.8 to 10.8
* Idle gear shaft mounting screw	M6 × 1.0	9.8 to 11.3	1.00 to 1.15	7.2 to 8.3
Injection pipe retaining nut	M12 × 1.5	24.5 to 34.3	2.5 to 3.5	18.1 to 25.3
* Main bearing case screw 1	M8 × 1.25	29.4 to 34.3	3.0 to 3.5	21.7 to 25.3
* Main bearing case screw 2	M9 × 1.25	49.0 to 53.9	5.0 to 5.5	36.2 to 39.8
Nozzle holder		34.3 to 39.2	3.5 to 4.0	25.3 to 28.9
Nozzle holder assembly	M20 × 1.5	49.0 to 68.6	5.0 to 7.0	36.2 to 50.6
* Oil pressure switch	PT 1/8	14.7 to 19.6	1.5 to 2.0	10.8 to 14.5
Overflow pipe assembly retaining nut	M12 × 1.5	19.6 to 24.5	2.0 to 2.5	14.5 to 18.1
* Rocker arm bracket nut	M7 × 1.0	21.6 to 26.5	2.2 to 2.7	15.9 to 19.5

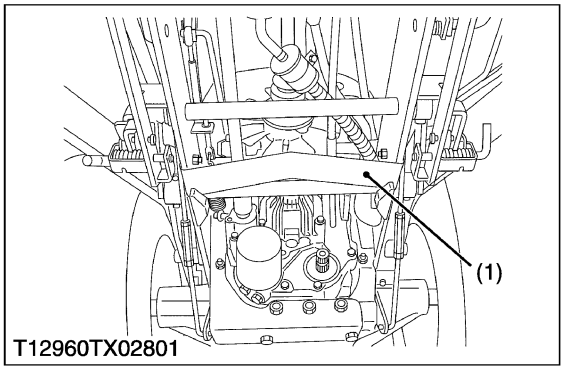
■ **NOTE**

- **In removing and applying the bolts and nuts marked with "*", a pneumatic wrench or similar pneumatic tool, if employed, must be used with enough care not to get them seized.**
- **For * marked screws, bolts and nuts on the table, apply engine oil to their threads and seats before tightening.**
- **The letter "M" in Size x Pitch means that the screw, bolt or nut dimension stands for metric. The size is the nominal outside diameter in mm of the threads. The pitch is the nominal distance in mm between two threads.**

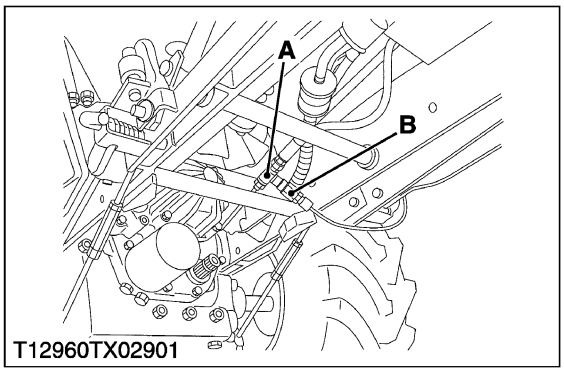
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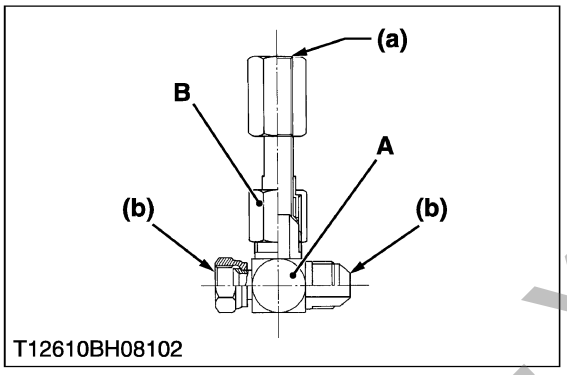
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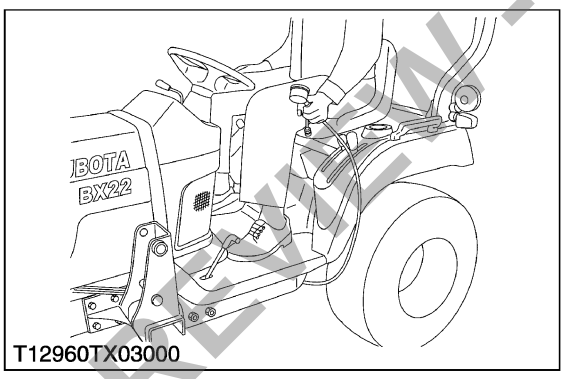
T12960TX02801



T12960TX02901



T12610BH08102



T12960TX03000

PTO Clutch Operating Pressure

CAUTION

- **When checking, park the tractor on flat ground, apply the parking brake.**
- **Do not engage PTO while measuring it.**

1. Remove the cover (1).
2. Connect the adaptor of **A** between the power steering hoses, then connect the adaptor **B** and the pressure gauge with adaptor **A**.
3. Start the engine and set at maximum speed.
4. Measure the pressure.
5. If the measurement is not same as factory specifications, check the PTO relief valve and related hydraulic components.

PTO clutch operating pressure	Factory spec.	Above 961 kPa 9.8 kgf/cm^2 139.4 psi

Condition

- Engine speed : Maximum
- Oil temperature : 45 to 55 °C
  113 to 131 °F

(1) Cover

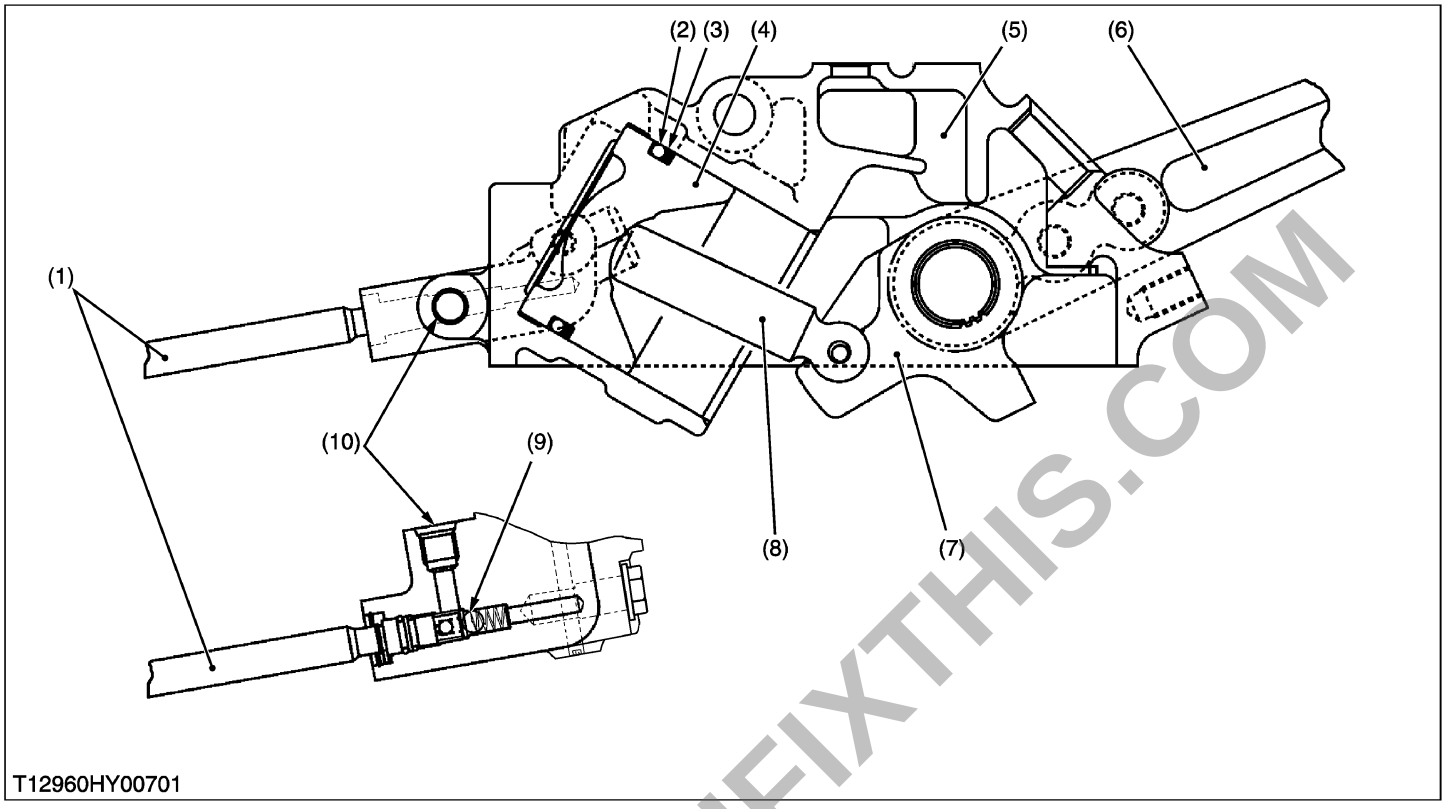
A : Adaptor Tee, Swivel (9/16-18)
B : Adaptor B
(a) Connect pressure gauge
(b) Connect power steering hose

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5. HYDRAULIC CYLINDER



T12960HY00701

(1) Lowering Speed Adjusting Shaft
(2) O-ring
(3) Back-up Ring
(4) Piston
(5) Hydraulic Cylinder
(6) Lift Arm
(7) Hydraulic Arm
(8) Hydraulic Rod
(9) Ball
(10) Cylinder Port (Connected to Control Valve)

The main components of the hydraulic cylinder are shown in the figure above.

While the lift arm (6) is rising, oil from the hydraulic pump flows into the hydraulic cylinder through the hydraulic control valve and cylinder port (10). Then oil pushes out the piston (4).

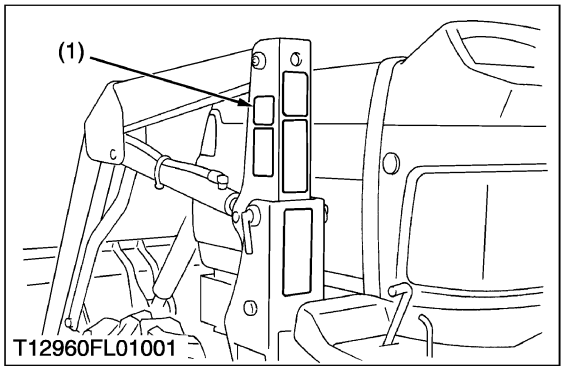
While the lift arm (6) is lowering, oil in the hydraulic cylinder is discharged to the transmission case through the hydraulic control valve by the weight of the implement. At this time, the lowering speed of the implement can be controlled by the ball (9) attached to the hydraulic cylinder (5). Turning the lowering speed adjusting knob clockwise decreases the lowering speed, and counterclockwise increases lowering speed. When the lowering speed adjusting valve is completely closed, the lift arm (6) is held at its position since oil in the hydraulic cylinder is sealed between the piston (4) and ball (9).

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1. GENERAL

[1] IDENTIFICATION

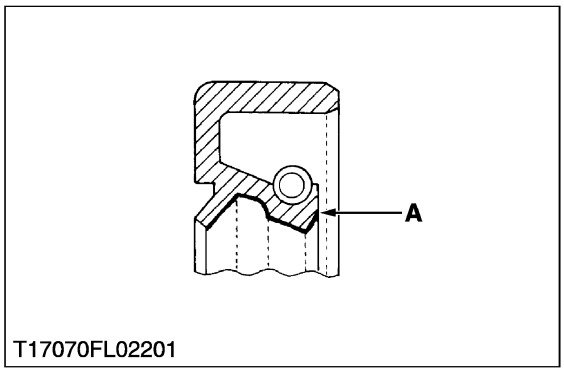


When contacting your local KUBOTA distributor, always specify front loader model and serial number.

(1) Model / Serial Number

W1010468

[2] GENERAL PRECAUTION



- During disassembly, carefully arrange removed parts in a clean area to prevent later confusion. Screws, bolts and nuts should be replaced in their original positions to prevent reassembly errors.
- When special tools are required, use genuine KUBOTA tools. Special tools which are not used frequently should be made according to the drawings provided.
- Clean parts before measuring them.
- Use only genuine KUBOTA parts for parts replacement to maintain loader performance and to assure safety.
- O-ring and oil seals must be replaced during reassembly. Apply grease to new O-rings or oil seals before reassembling.

A : Grease

W1010531

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