WSM

WORKSHOP MANUAL

TRACTOR

MX5000

Kubota

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G GENERAL

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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.

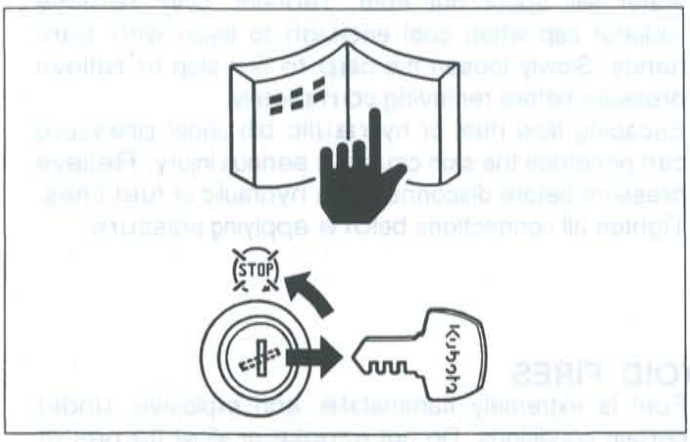
⚠ **DANGER** : **Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.**

⚠ **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.**

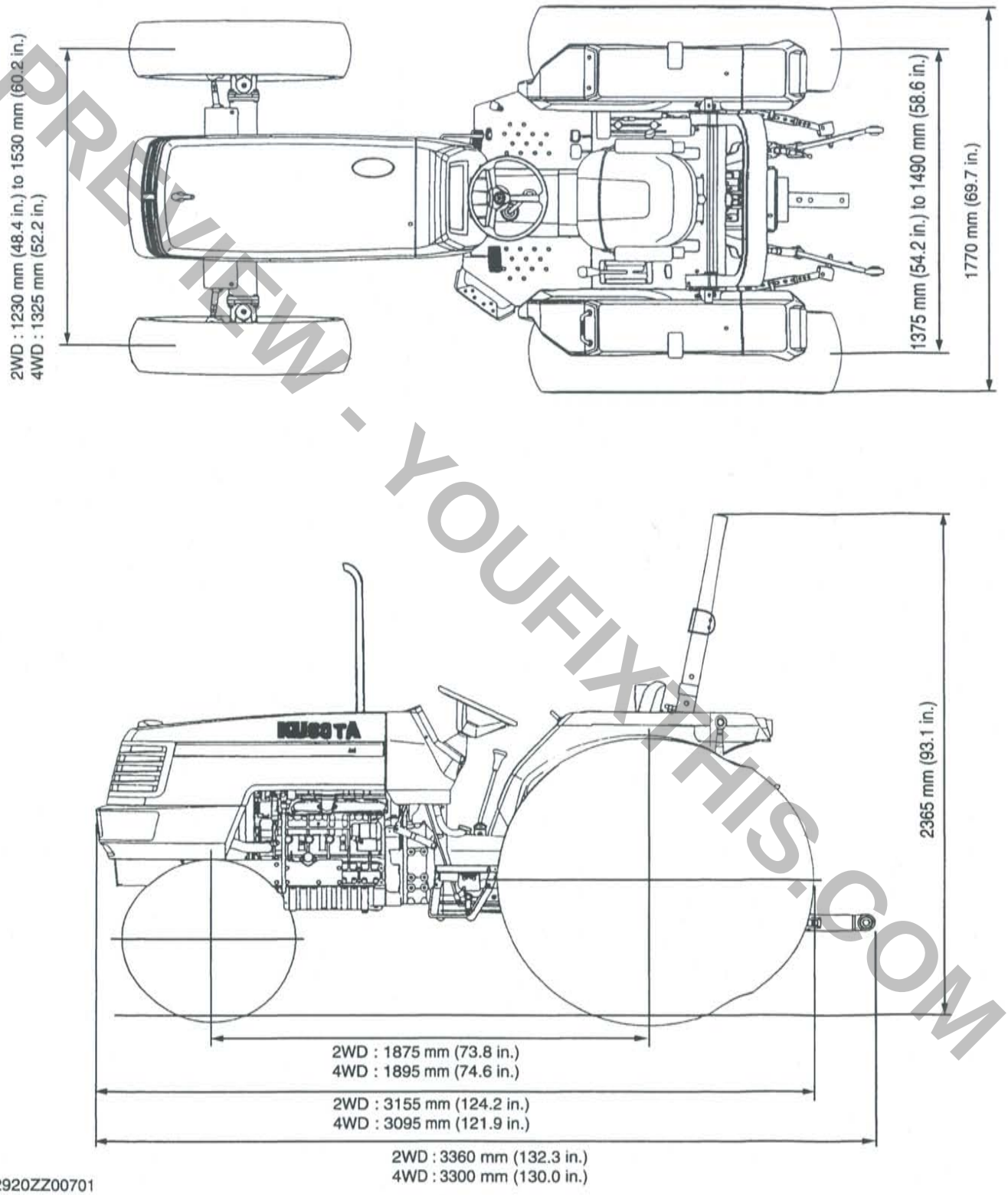


BEFORE SERVICING AND REPAIRING

- 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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DIMENSIONS



T12920ZZ00701

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5. TIGHTENING TORQUES

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

[1] GENERAL USE SCREWS, BOLTS AND NUTS

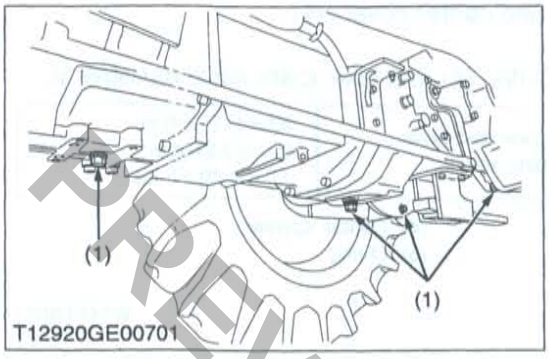
Indication on top of bolt	⬡ ④ No-grade or 4T						⑦ 7T						⑨ 9T		
Material of bolt	SS400, S20C						S43C, S48C						SCr435, SCM435		
Material of opponent part	Ordinariness			Aluminum			Ordinariness			Aluminum			Ordinariness		
Unit / Diameter	N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs	N·m	kgf·m	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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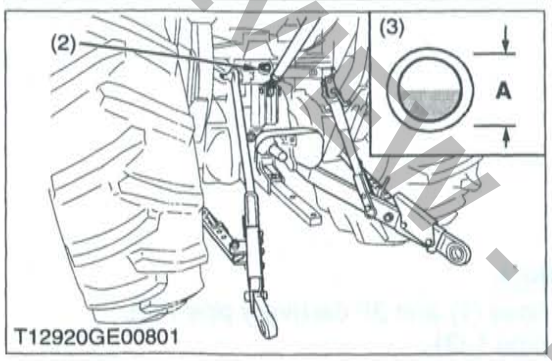
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[2] TRANSMISSION CASE

(1) Disassembling and Assembling



T12920GE00701



T12920GE00801

Draining the Transmission Fluid

1. Place oil pans underneath the transmission case.
2. Remove the drain plugs (1).
3. Drain the transmission fluid.
4. Reinstall the drain plugs (1).

(When refilling)

- Fill up from filling port after removing the filling plug (2) up to the line of the level gauge (3).
- After running the engine for few minutes, stop it and check the oil level again, add the fluid to prescribed level if it is not correct level.

Transmission fluid capacity	44 L 11.6 U.S.gals. 9.7 Imp.gals.

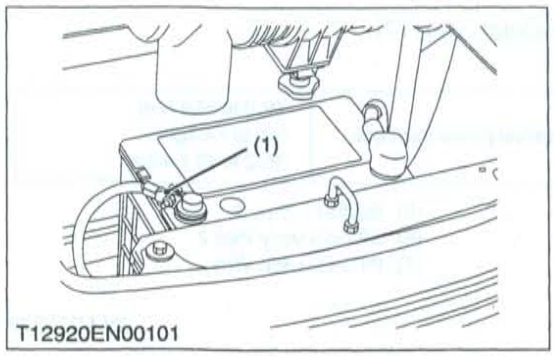
■ **IMPORTANT**

- **Use only KUBOTA SUPER UDT fluid. Use of other oils may damage the transmission or hydraulic system. Refer to "LUBRICANTS, FUEL AND COOLANT". (See page G-7.)**
- **Do not mix different brands of fluid together.**

(1) Drain Plugs
(2) Filling Plug
(3) Level Gauge

A : Oil level is acceptable within this range.

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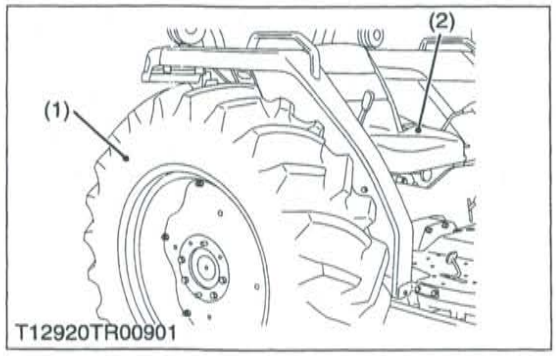
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Battery Negative Cable

1. Disconnect the battery negative cable (1).

(1) Battery Negative Cable

W1015802



T12920TR00901

Rear Wheels and Seat

1. Place the disassembling stand under the clutch housing and transmission case.
2. Loosen and remove the rear wheel mounting screws and nuts.
3. Remove the rear wheels (1).
4. Follow the same procedure as above for the other side.
5. Remove the seat (2).

(When reassembling)

Tightening torque	Rear wheel mounting screw and nut	197 to 226 N·m 20 to 23 kgf·m 145 to 166 ft-lbs
	Rear wheel mounting stud bolt	98.1 to 112.7 N·m 10.0 to 11.5 kgf·m 72.3 to 83.1 ft-lbs

(1) Rear Wheel (2) Seat

W1015866

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4. LUBRICANTS, FUEL AND COOLANT

	Place	Capacity	Lubricants, fuel and coolant
		MX5000	
1	Fuel tank	50 L 13.2 U.S.gals. 11.0 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	7.5 L 7.9 U.S.qts. 6.6 Imp.qts.	Fresh clean water with anti-freeze
3	Engine crankcase	7.6 L 8.0 U.S.qts. 6.7 Imp.qts.	Engine oil : API service CC or CD class 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	44 L 11.6 U.S.gals. 9.7 Imp.gals.	KUBOTA SUPER UDT fluid*
5	Front axle case (4WD)	7.5 L 7.9 U.S.qts. 6.6 Imp.qts.	KUBOTA SUPER UDT fluid* or SAE80, 90 gear oil

Greasing

	Place	No. of greasing point	Capacity	Type of grease
6	Front wheel hub (2WD)	2	Until grease overflows	Multipurpose type grease
	Knuckle shaft (2WD)	2		
	Front axle support (4WD)	2		
	Top link	1		
	Top link bracket (if equipped)	2 (with draft control)		
	Power steering cylinder	2		
	Battery terminal	2	Moderate amount	

* KUBOTA original transmission hydraulic fluid.

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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
3P delivery pipe 1, 2 joint bolt	49.0 to 58.8	5.0 to 6.0	36.2 to 43.4
Power steering main delivery hose joint bolt	49.0 to 58.8	5.0 to 6.0	36.2 to 43.4
PTO delivery pipe joint bolt	34.3 to 39.2	3.5 to 4.0	25.3 to 28.9
Starter B terminal mounting nut	7.8 to 9.8	0.8 to 1.0	5.8 to 7.2
Power steering main delivery hose retaining nut	46.6 to 50.9	4.8 to 5.2	34.4 to 37.6
Power steering turning delivery hose retaining nut	24.5 to 29.4	2.5 to 3.0	18.1 to 21.7
Engine and clutch housing mounting screw and nut	77.5 to 90.2	7.9 to 9.2	57.1 to 66.5
Engine and clutch housing mounting stud bolt	39.2 to 49.0	4.0 to 5.0	28.9 to 36.2
Main gear shift lever mounting screw	23.6 to 27.4	2.4 to 2.8	17.4 to 20.2
Clutch housing and mid case mounting nut	102.9 to 117.6	10.5 to 12.0	75.9 to 86.8
Clutch housing and mid case mounting screw	77.5 to 90.2	7.9 to 9.2	57.1 to 66.5
Clutch housing and mid case mounting stud bolt	38.2 to 45.1	3.9 to 4.6	28.2 to 33.3
Release fork mounting screw	23.5 to 27.5	2.4 to 2.8	17.4 to 20.3
Clutch housing bearing holder mounting screw	48.1 to 55.9	4.9 to 5.7	35.4 to 41.2
PTO clutch valve mounting screw	23.5 to 27.4	2.4 to 2.8	17.4 to 20.2
PTO clutch holder mounting screw	77.5 to 90.2	7.9 to 9.2	57.1 to 66.5
Rear wheel mounting screw and nut	197 to 226	20 to 23	145 to 166
Rear wheel mounting stud bolt	98.1 to 112.7	10.0 to 11.5	72.3 to 83.1
ROPS mounting screw	166.7 to 196.1	17 to 20	123 to 144
Hydraulic cylinder assembly mounting stud bolt	34.3 to 49.0	3.5 to 5.0	25.3 to 36.2
Hydraulic cylinder assembly mounting screw	77.4 to 90.2	7.9 to 9.2	57.1 to 66.5
Rear axle case mounting nut	60.8 to 70.5	6.2 to 7.2	44.9 to 52.1
Rear axle case mounting screw M10	48 to 55.9	4.9 to 5.7	35.4 to 41.2
Rear axle case mounting screw M12	77.5 to 90.2	7.9 to 9.2	57.1 to 66.5
Brake case mounting stud bolt	38.2 to 45.1	3.9 to 4.6	28.2 to 33.3
Brake case mounting screw and nut	77.5 to 90.2	7.9 to 9.2	57.1 to 66.5
Mid case and transmission case mounting screw and nut	102.9 to 117.6	10.5 to 12.0	75.9 to 86.8
Mid case and transmission case mounting stud bolt	38.2 to 45.1	3.9 to 4.6	28.2 to 33.3
Transmission bearing holder mounting screw	48.1 to 55.9	4.9 to 5.7	35.5 to 41.2
Staking nut	147 to 196	15 to 20	108 to 145
Pinion bearing case mounting screw	39.2 to 44.1	4.0 to 4.5	28.9 to 32.5
PTO shaft lock nut	147 to 196	15 to 20	108 to 145
PTO bearing case mounting screw	23.5 to 27.5	2.4 to 2.8	17.4 to 20.3
Differential support mounting screw	48.1 to 55.9	4.9 to 5.7	31.5 to 41.2
Differential case cover mounting screw	48.1 to 55.8	4.9 to 5.7	35.4 to 41.2
Spiral bevel gear UBS screw	68.6 to 88.3	7.0 to 9.0	50.6 to 65.1

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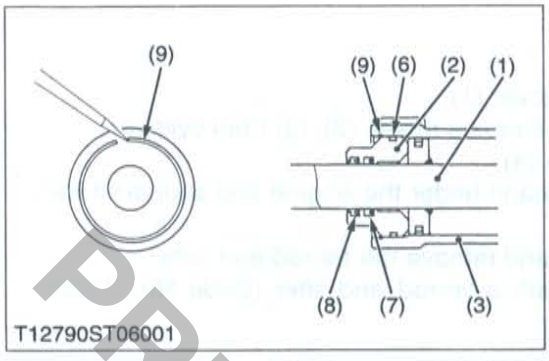
STEERING LINKAGE [2WD]

Item		Factory Specification	Allowable Limit
Rod End Shaft to Rod End Bushing	Clearance	0.025 to 0.135 mm 0.00098 to 0.00531 in.	0.35 mm 0.0138 in.
Rod End Shaft	O.D.	27.950 to 27.975 mm 1.10039 to 1.10138 in.	–
Rod End Bushing	I.D.	28.000 to 28.085 mm 1.10236 to 1.10571 in.	–
Cylinder Tube Pin to Pitman Arm Bushing	Clearance	0.020 to 0.122 mm 0.00079 to 0.00480 in.	0.35 mm 0.0138 in.
Cylinder Tube Pin	O.D.	23.959 to 23.980 mm 0.94327 to 0.94409 in.	–
Pitman Arm Bushing	I.D.	24.000 to 24.081 mm 0.94488 to 0.94807 in.	–
Pitman Arm Shaft to Pitman Arm Bushing	Clearance	0.025 to 0.135 mm 0.00098 to 0.00531 in.	0.35 mm 0.0138 in.
Pitman Arm Shaft	O.D.	39.950 to 39.975 mm 1.57283 to 1.57382 in.	–
Pitman Arm Bushing	I.D.	40.000 to 40.085 mm 1.57480 to 1.57815 in.	–

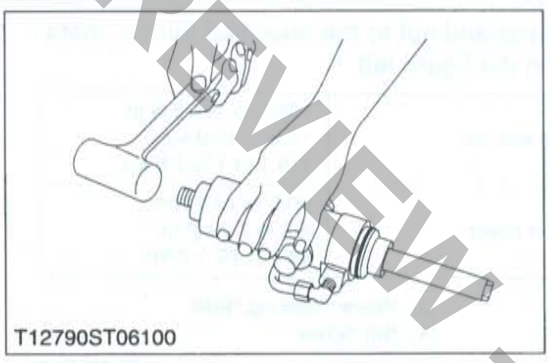
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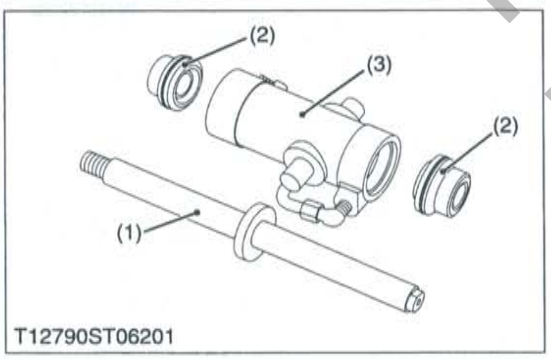
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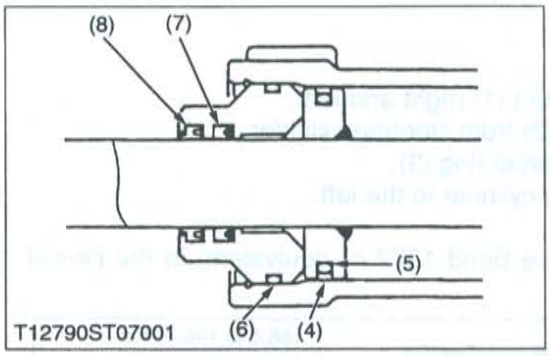


T12790ST06001


T12790ST06100



T12790ST06201



T12790ST07001

Cylinder Cover Assembly and Rod Assembly

1. Tap in the cylinder cover assembly (2) lightly to inside of cylinder.
2. Use a pointed tool and remove the internal snap ring (9) by raising it out of the groove of the cylinder tube (3).
3. Tap the rod assembly (1) lightly to remove the cylinder cover assembly (2) from the cylinder tube (3).
4. Pull out the cylinder cover assembly (2) from the rod assembly (1).

(When reassembling)

- Apply clean transmission fluid to the O-ring (5) and piston gasket (4).
- Do not spin the rod assembly (1) while inserting.
- Apply grease to the rod gasket (7), dust seal (8) and O-ring (6).

(1) Rod Assembly
(2) Cylinder Cover Assembly
(3) Cylinder Tube
(4) Piston Gasket
(5) O-ring
(6) O-ring
(7) Rod Gasket
(8) Dust Seal
(9) Internal Snap Ring

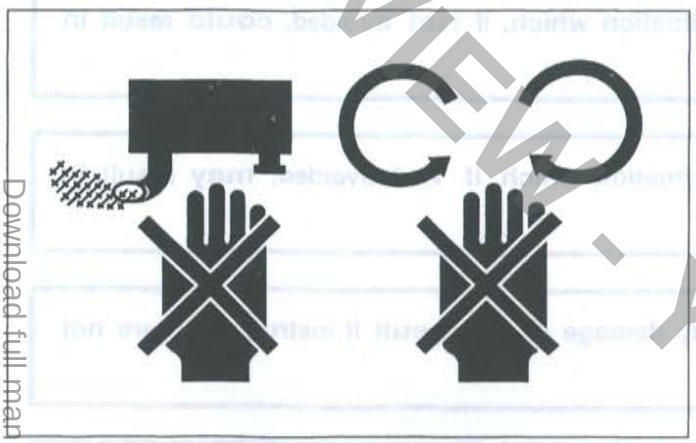
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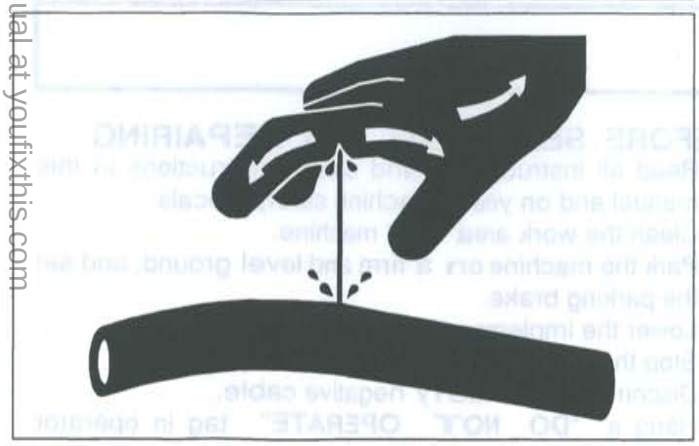
SAFETY STARTING

- 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.



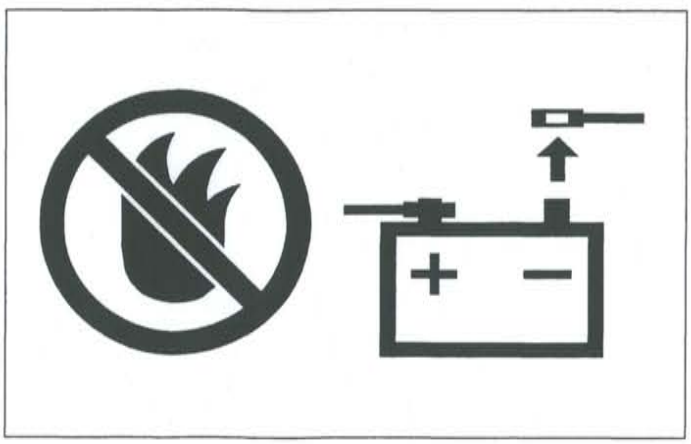
SAFETY WORKING

- 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

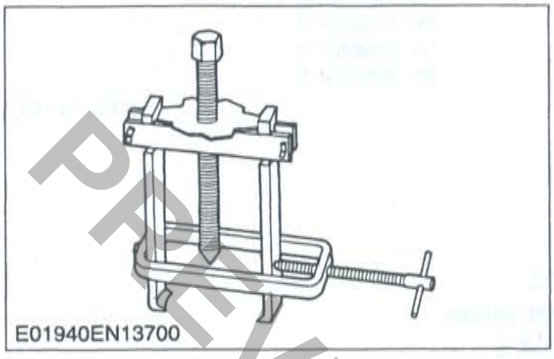
- Fuel is extremely flammable and explosive under certain conditions. Do not smoke or allow flames or sparks in your working area.
- To avoid sparks from an accidental short circuit, always disconnect the battery negative cable first and connect it last.
- Battery gas can explode. Keep sparks and open 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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8. SPECIAL TOOLS

[1] SPECIAL TOOLS FOR ENGINE

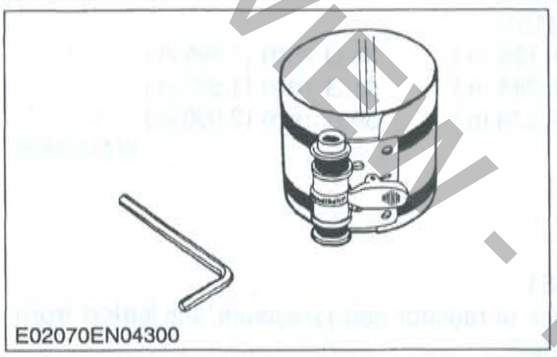

E01940EN13700

Special Use Puller Set

Code No: 07916-09032

Application: Use exclusively for pulling out bearing, gears and other parts with ease.

W1024050

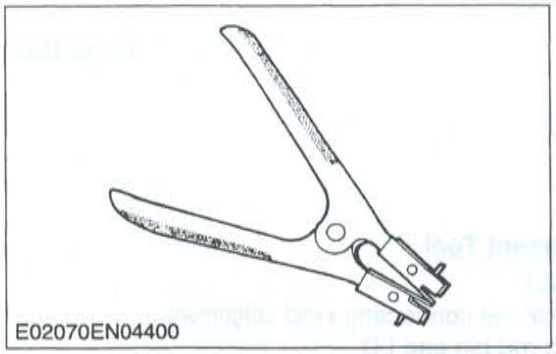

E02070EN04300

Piston Ring Compressor

Code No: 07909-32111

Application: Use exclusively for pushing in the piston with piston rings into the cylinder.

W1024100

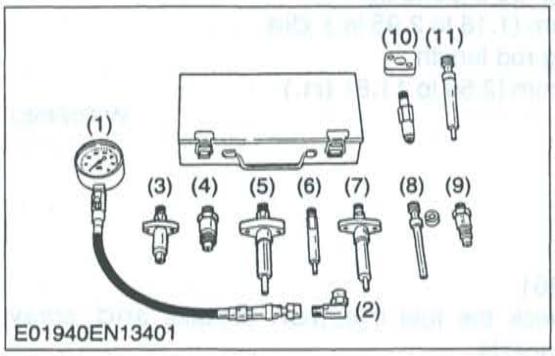

E02070EN04400

Piston Ring Tool

Code No: 07909-32121

Application: Use exclusively for removing or installing the piston ring with ease.

W1024150



E01940EN13401

Diesel Engine Compression Tester

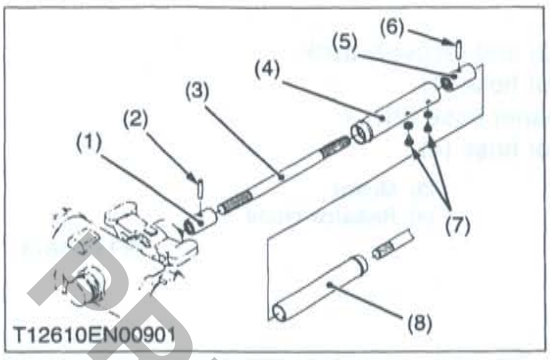
Code No: 07909-30208 (Assembly) 07909-31251 (G)
07909-30934 (A to F) 07909-31271 (I)
07909-31211 (E and F) 07909-31281 (J)
07909-31231 (H)

Application: Use to measure diesel engine compression and diagnostics of need for major overhaul.

(1) Gauge
(2) L Joint
(3) Adaptor A
(4) Adaptor B
(5) Adaptor C
(6) Adaptor E
(7) Adaptor F
(8) Adaptor G
(9) Adaptor H
(10) Adaptor I
(11) Adaptor J

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T12610EN00901

Propeller Shaft (4WD only)

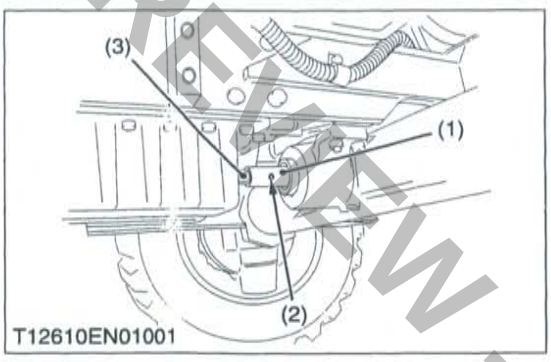
1. Slide the propeller shaft cover (4) and (8) after removing the screws (7).
2. Tap out the spring pins (2), (6) and slide the couplings (1), (5) and then remove the propeller shaft with covers (4), (8).

(When reassembling)

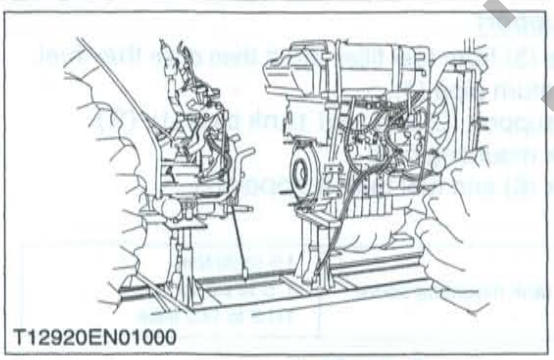
- Apply grease to the splines of propeller shaft 1 (3).

(1) Coupling
(2) Spring Pin
(3) Propeller Shaft 1
(4) Propeller Shaft Cover
(5) Coupling
(6) Spring Pin
(7) Screws
(8) Propeller Shaft Cover

W1030553



T12610EN01001


T12920EN01000

Separating Engine and Clutch Housing

1. Place the disassembling stand under the engine and clutch housing case.
2. Remove the fuel tank support mounting bolts.
3. Remove the engine and clutch housing mounting screws and nuts.
4. Separate the engine and clutch housing.

(When reassembling)

- Apply grease to the spline of clutch shaft.
- Apply liquid gasket (Three Bond 1208D or equivalent) to joint face of the flywheel housing and clutch housing.

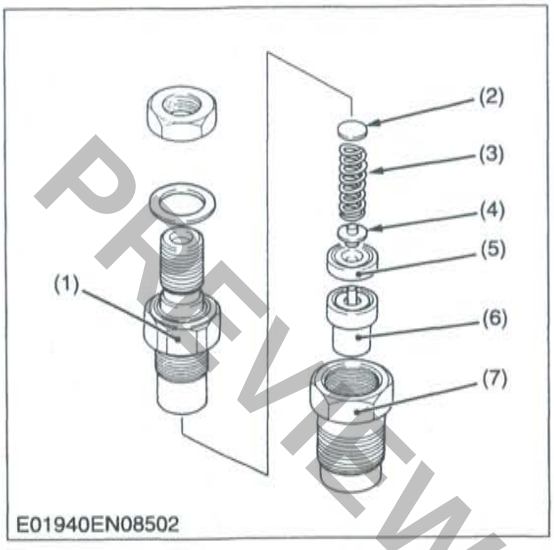
Tightening torque	Engine and clutch housing mounting screw and nut M12, grade 7	77.5 to 90.2 N·m 7.9 to 9.2 kgf·m 57.1 to 66.5 ft-lbs
	Engine and clutch housing mounting stud bolt	39.2 to 49.0 N·m 4.0 to 5.0 kgf·m 28.9 to 36.2 ft-lbs

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(2) Disassembling and Assembling

(A) Injection Nozzle



Nozzle Holder

1. Secure the nozzle retaining nut (7) with a vise.
2. Remove the nozzle holder (1), and take out parts inside.

(When reassembling)

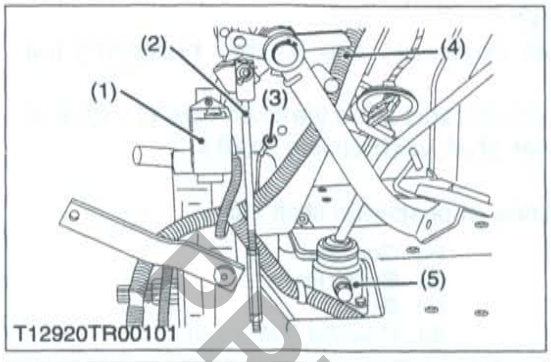
- Assemble the nozzle in clean fuel oil.
- Install the push rod (4), noting its direction.
- After assembling the nozzle, be sure to adjust the fuel injection pressure.

Tightening torque	Nozzle holder	34.3 to 39.2 N·m 3.5 to 4.0 kgf·m 25.3 to 28.9 ft-lbs
	Overflow pipe nut	19.6 to 24.5 N·m 2.0 to 2.5 kgf·m 14.5 to 18.1 ft-lbs
	Nozzle holder assembly	49.0 to 68.6 N·m 5.0 to 7.0 kgf·m 36.2 to 50.6 ft-lbs

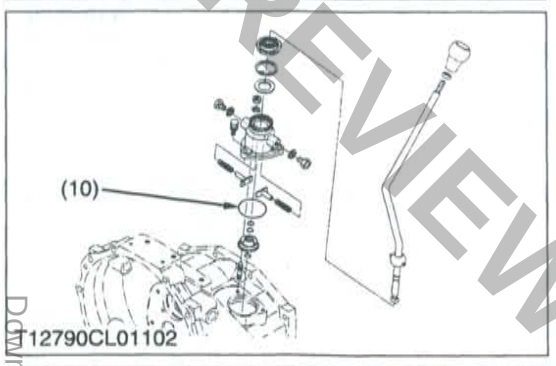
(1) Nozzle Holder
(2) Adjusting Washer
(3) Nozzle Spring
(4) Push Rod
(5) Distance Piece
(6) Nozzle Piece
(7) Nozzle Retaining Nut

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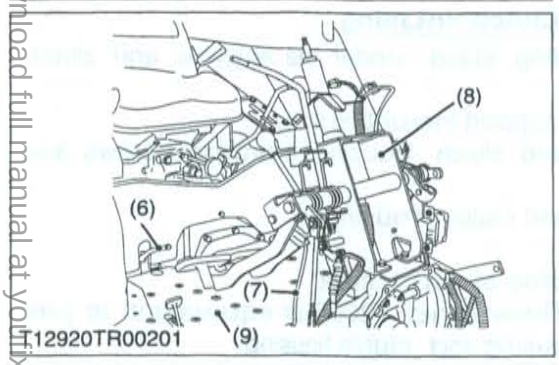
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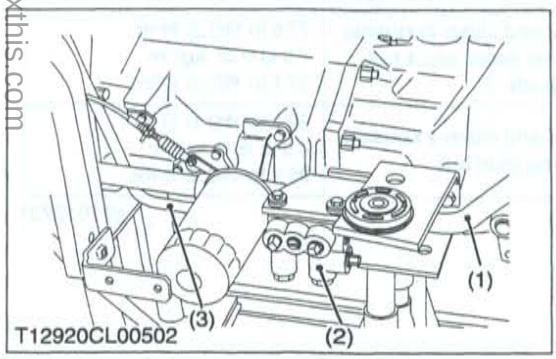
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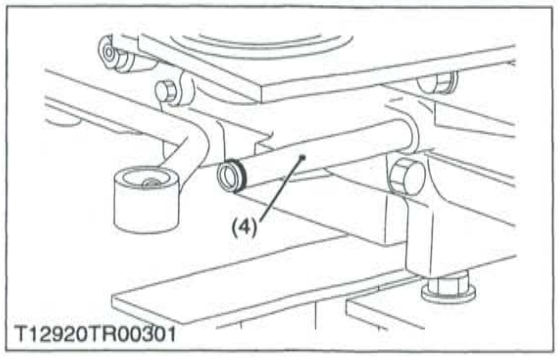
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T12920TR00201



T12920CL00502



T12920TR00301

Pedal Frame and Step

1. Remove the fuse box (1) and ground cable (3).
2. Remove the brake rod (2) (R.H.), (L.H.).
3. Remove the main gear shift lever (5).
4. Disconnect differential lock pedal (6).
5. Disconnect the foot accelerator rod (7).
6. Remove the pedal frame mounting bolts and pedal frame (8).
7. Remove the step (9) and wiring (4).

(When reassembling)

- Apply grease to the O-ring (10) and take care not to damage it.

Tightening torque	Main gear shift lever mounting screw	23.6 to 27.4 N·m 2.4 to 2.8 kgf·m 17.4 to 20.2 ft-lbs

(1) Fuse Box
(2) Brake Rod
(3) Ground Cable
(4) Wiring
(5) Main Gear Shift Lever
(6) Differential Lock Pedal
(7) Foot Accelerator Rod
(8) Pedal Frame
(9) Step
(10) O-ring

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Suction Pipe and Hydraulic Block

1. Remove the suction pipe 1 (1).
2. Disconnect the 3P delivery pipe 2 (3) from hydraulic block (2).
3. Remove the hydraulic block (2).
4. Remove the pipe (4).

(When reassembling)

- Apply grease to the O-ring of the pipe (4).

Tightening torque	3P delivery pipe 2 joint bolt	49.0 to 58.8 N·m 5.0 to 6.0 kgf·m 36.2 to 43.4 ft-lbs

(1) Suction Pipe 1
(2) Hydraulic Block
(3) 3P Delivery Pipe 2
(4) Pipe

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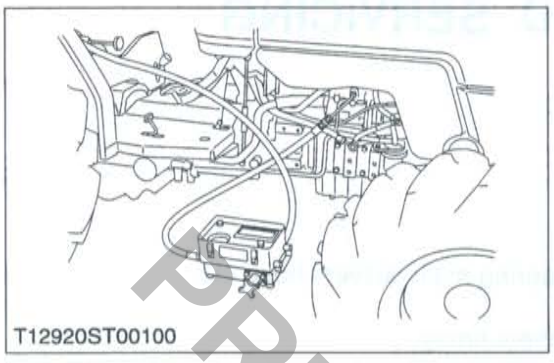
MECHANISM

CONTENTS

1. STRUCTURE 6-M1
   [1] 2WD TYPE 6-M1
   [2] 4WD TYPE 6-M2
2. FRONT WHEEL ALIGNMENT 6-M3

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T12920ST00100

Hydraulic Flow Test

■ **IMPORTANT**
- **When using a flowmeter other than KUBOTA specified flowmeter, be sure to use the instructions with that flowmeter.**
- **Do not close the flowmeter loading valve completely, before testing, because it has not relief valve.**

1. Install the adaptor **69** (PF 3/8) and adaptor **66** to the pump discharge port.
2. Connect the hydraulic test hose to the adaptor 66 and flowmeter inlet port.
3. Connect the other hydraulic test hose to the flowmeter outlet port and to transmission fluid filling plug hole.
4. Open the flowmeter loading valve completely. (Turn counterclockwise.)
5. Start the engine and set the engine speed at **2000 to 2200 rpm**.
6. Slowly close the loading valve to generate pressure approx. **9.8 MPa (100 kgf/cm^2, 1422 psi)**. Hold in this condition until oil temperature reaches approx. 40 °C (104 °F).
7. Open the loading valve completely.
8. Set the engine speed. (Refer to **Condition**.)
9. Read and note the pump delivery at no pressure.
10. Slowly close the loading valve to increased, engine speed drops, therefore, reset the engine speed.
11. Read and note the pump delivery at rated pressure.
12. Open the loading valve completely and stop the engine.
13. If the pump delivery does not reach the allowable limit, check the pump suction line, oil filter or hydraulic pump.

Condition
- Engine Speed.....Approx. 2700 rpm
- Rated pressure
  [2WD Type].....8.3 to 9.3 MPa
  85 to 95 kgf/cm^2
  1209 to 1351 psi
  [4WD Type].....12.7 to 13.7 MPa
  130 to 140 kgf/cm^2
  1849 to 1991 psi

Hydraulic pump delivery at no pressure	Factory spec.	Above 18.1 L/min. 4.78 U.S.gals./min. 3.98 Imp.gals./min.
Hydraulic pump delivery at rated pressure	Factory spec.	Above 17.7 L/min. 4.68 U.S.gals./min. 3.89 Imp.gals./min.
	Allowable limit	15.8 L/min. 4.17 U.S.gals./min. 3.48 Imp.gals./min.

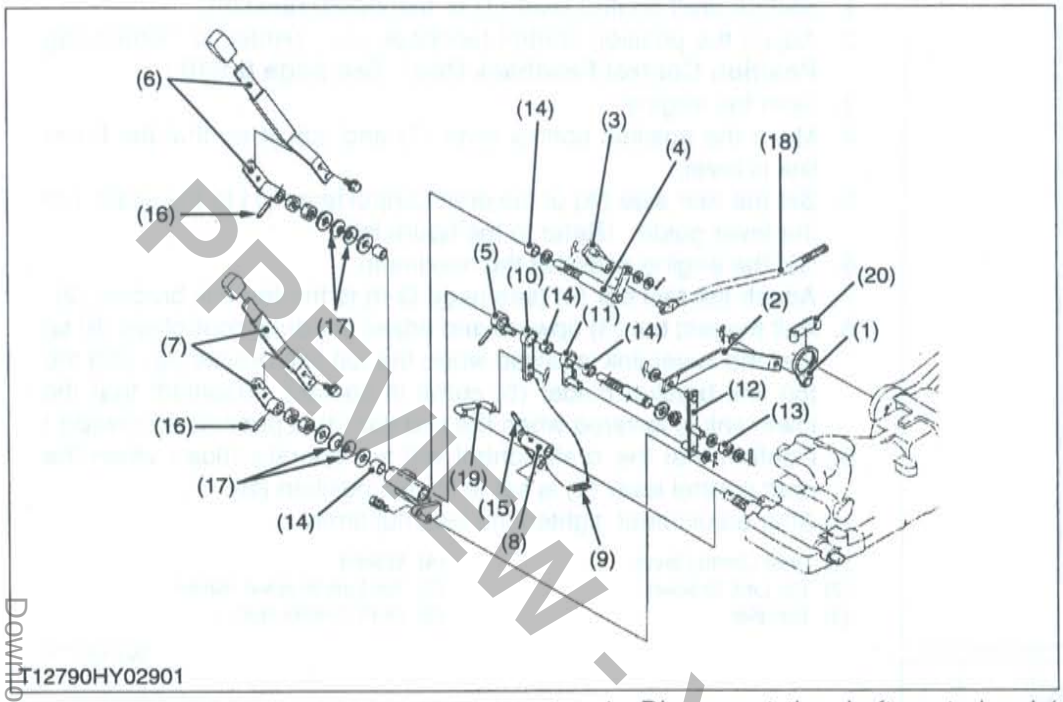
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(2) Disassembling and Assembling

■ **IMPORTANT**
- **The hydraulic pump is precision machined and assembled : if disassemble once, it may be unable to maintain its original performance. Therefore, when the hydraulic pump fails, replacement should be carried out with the hydraulic pump assemble except when emergency repair is unavoidable.**
- **When repair is required, follow the disassembly and servicing procedures shown below with utmost care.**
- **Be sure to test the hydraulic pump with a flowmeter before disassembling.**
- **After reassembly, be sure to perform break-in operation and ensure that there is nothing abnormal with the hydraulic pump.**

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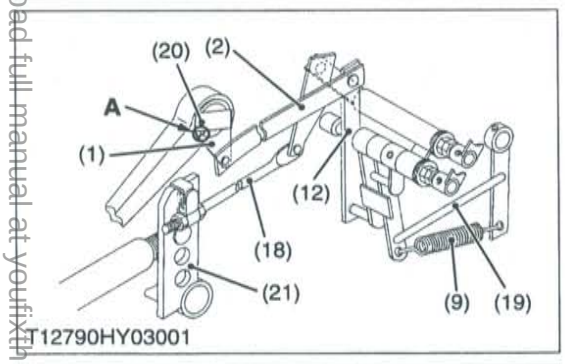
Position Control and Draft Control Linkage (if equipped)



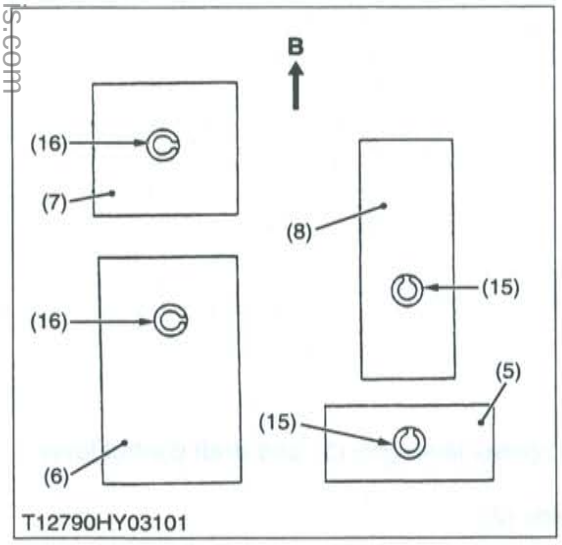
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(1) Feedback Rod Stay
(2) Feedback Rod
(3) Draft Cam
(4) Draft Control Lever Shaft
(5) Position Control Link
(6) Position Control Lever
(7) Draft Control Lever
(8) Arm 2
(9) Return Spring
(10) Arm 1
(11) Draft Control Link 1
(12) Draft Control Link 2
(13) Roller
(14) Bushings
(15) Spring Pins
(16) Spring Pins
(17) Disc Springs
(18) Draft Control Rod
(19) Control Rod
(20) Stopper
(21) Top Link Bracket
A : Punched Marks
B : Hydraulic Cylinder Block Side

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T12790HY03001



T12790HY03101

1. Disconnect the draft control rod (18) from the top link bracket (21).
2. Remove the position control lever (6) and draft control lever (7).
3. Disconnect the draft control feedback rod (2) from the draft control link 2 (12).
4. Remove the control rod (19) and return spring (9).
5. Remove the position and draft control linkage assembly mounting screws, and then take out the position and draft control linkage assembly.
6. Remove the draft control feedback rod stay stopper (20) and draft control feedback rod stay (1).

(When reassembling)

- Assemble so that the punch mark of the feedback rod stay (1) is set to the punch mark of the hydraulic arm shaft.
- Securely fit the rod stay stopper (20) into the groove of the hydraulic arm shaft.
- After reassembling, be sure to adjust the position control feedback rod and draft control rod (if equipped). (See page 8-S10, 11)
- Apply grease to the bushings (14), roller (13), draft control link 1 (11) and disc springs (17).
- Tap in the spring pins (15), (16) so that their split portion as shown in the figure left.

Tightening torque	Control linkage assembly mounting screw	23.6 to 27.4 N·m 2.4 to 2.8 kgf·m 17.4 to 20.2 ft-lbs

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