

TO THE READER

This Workshop Manual has been prepared to provide servicing personnel with information on the mechanism, service and maintenance of KUBOTA Tractors M4700 and M5400. It is divided into two parts, "Mechanism" and "Servicing" for each section.

■ Mechanism

Information on the construction and function are included. This part should be understood before proceeding with troubleshooting, disassembling and servicing.

■ Servicing

Under the heading "General" section comes general precautions, check and maintenance and special tools. Other section, there are troubleshooting, servicing specification lists, checking and adjusting, disassembling and assembling, and servicing which cover procedures, precautions, factory specifications and allowable limits.

All information, illustrations and specifications contained in this manual are based on the latest production information available at the time of publication.

The right is reserved to make changes in all information at any time without notice.

August '95

© KUBOTA Corporation 1995

11790Z00010



Auxiliary Shift Lever

1. Disconnect the shift rods (1).
2. Remove the external circlip (2).
3. Take out the shift lever assembly.

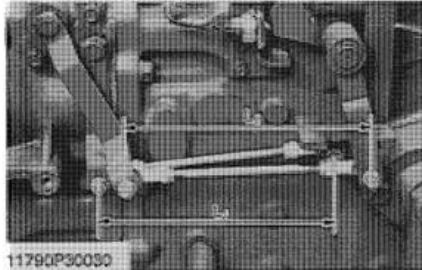
(When reassembling)

- Be sure to adjusting the shift rod.

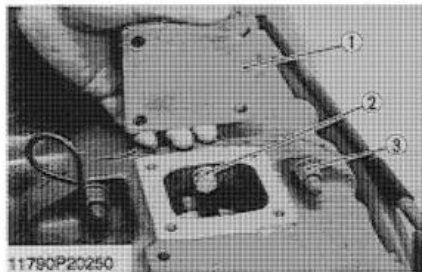
Shift rod length L1 and L2	Factory spec.	Approx. 209 mm 8.23 in.
----------------------------	---------------	----------------------------

- (1) Shift Rod
(2) External Circlip

(3) Shift Lever



11790S30041

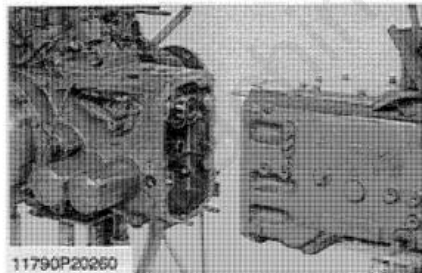


Separating Transmission Case

1. Remove the transmission upper cover (1).
2. Remove the transmission case mounting screws and nut, and separate the transmission case from the clutch housing.

(When reassembling)

- Apply liquid gasket (Three Bond 1216 or equivalent) to joint face of the transmission case and clutch housing, transmission upper cover and transmission case.



Tightening torque	Transmission case and clutch housing mounting screw, nut	M12, grade 11 nut	103.0 to 117.7 N-m 10.5 to 12.0 kgf-m 75.9 to 86.8 ft-lbs
		M12, grade 7 screw, nut	77.5 to 90.2 N-m 7.9 to 9.2 kgf-m 57.1 to 66.5 ft-lbs
		M10, grade 9 screw (2)	60.8 to 70.6 N-m 6.2 to 7.2 kgf-m 44.8 to 52.1 ft-lbs
	Transmission case and clutch housing mounting stud bolt		38.2 to 45.1 N-m 3.9 to 4.6 kgf-m 28.2 to 33.3 ft-lbs
	Transmission upper cover mounting screw		23.5 to 27.4 N-m 2.4 to 2.8 kgf-m 17.4 to 20.3 ft-lbs

- (1) Transmission Upper Cover (3) Transmission Case Mounting Nut
(2) Transmission Case Mounting Screw

11790S20261

TROUBLESHOOTING

Symptom	Probable Cause	Solution	Reference Page
Uneven Braking Force	<ul style="list-style-type: none"> • Brake pedal free play unevenly adjusted • Brake disc worn • Cam plate warped 	Adjust Replace Replace	5-S2 5-S7, 8 5-S6, 8
Brake Drags	<ul style="list-style-type: none"> • Brake pedal free play too small • Ball holes of cam plate for uneven wear • Brake pedal return spring weaken or broken • Brake cam rusted 	Adjust Replace Replace Repair	5-S2 5-S6, 8 5-S3 5-S7, 8
Poor Braking Force	<ul style="list-style-type: none"> • Brake pedal free play excessive • Brake disc worn • Cam plate warped • Brake cam or lever damaged • Transmission fluid improper 	Adjust Replace Replace Replace Change	5-S2 5-S7, 8 5-S6, 8 5-S7 5-S5

11790S50060

SERVICING SPECIFICATIONS

Item		Factory Specification	Allowable Limit
Brake Pedal	Free Play	35 to 45 mm 1.4 to 1.8 in.	—
Brake Pedal Shaft to Brake Pedal Bushing	Clearance	0.025 to 0.185 mm 0.00098 to 0.00728 in.	1.00 mm 0.0394 in.
Brake Pedal Shaft	O.D.	27.900 to 27.975 mm 1.09842 to 1.10138 in.	—
Brake Pedal Bushing	I.D.	28.000 to 28.085 mm 1.10236 to 1.10571 in.	—
Brake Lever Link Shaft to Brake Lever Link Bushing	Clearance	0.02 to 0.25 mm 0.0008 to 0.0098 in.	1.00 mm 0.0394 in.
Brake Lever Link Shaft	O.D.	19.90 to 19.98 mm 0.7835 to 0.7866 in.	—
Brake Lever Link Bushing	I.D.	20.00 to 20.15 mm 0.7874 to 0.7933 in.	—
Cam Plate	Flatness	—	0.3 mm 0.012 in.
Cam Plate and Ball	Height	22.45 to 22.55 mm 0.8839 to 0.8879 in.	22.00 mm 0.8661 in.
Brake Disc	Thickness	4.15 to 4.35 mm 0.1634 to 0.1713 in.	3.3 mm 0.130 in.
Plate	Thickness	2.25 to 2.35 mm 0.0889 to 0.0925 in.	1.5 mm 0.059 in.
Brake Stopper Plate	Flatness	—	0.3 mm 0.012 in.

11790S50050

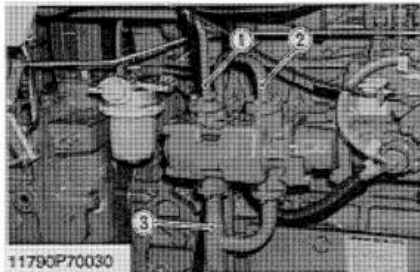
DISASSEMBLING AND ASSEMBLING

■ IMPORTANT

- The hydraulic pump is precision machined and assembled : if disassembled 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 assembled except when emergency repair is unavoidable.
- When repair is required, flow 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.

11790S70020

(1) M4700



Removing Three Point System Hydraulic Pump and Power Steering Hydraulic Pump

1. Disconnect the delivery pipe (1), (2) from the hydraulic pump.
2. Disconnect the suction pipe (3) from the hydraulic pump.
3. Remove the hydraulic pump assembly mounting screws and nuts.
4. Take out the hydraulic pump assembly.

(When reassembling)

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

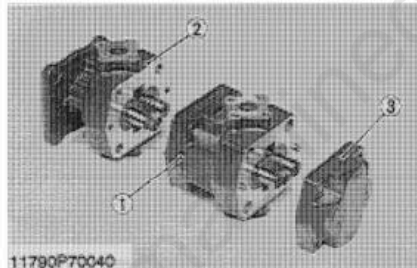
Tightening torque	Hydraulic pipe mounting screw	17.7 to 20.6 N-m 1.8 to 2.1 kgf-m 13.0 to 15.2 ft-lbs
	Hydraulic pump assembly mounting screw and nut	23.6 to 27.4 N-m 2.4 to 2.8 kgf-m 17.4 to 20.2 ft-lbs

(1) Delivery Pipe

(3) Suction Pipe

(2) Delivery Pipe

11790S70030



Separating Power Steering Hydraulic Pump

1. Remove the pump cover mounting screws.
2. Separating the power steering hydraulic pump (1) from the three point system hydraulic pump (2).

(When reassembling)

- Take care not to damage the O-ring.

(1) Power Steering Hydraulic Pump

(3) Pump Cover

(2) Three Point System Hydraulic Pump

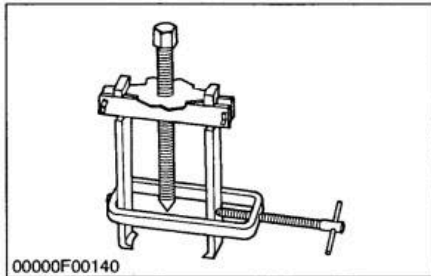
11790S70040

Replacing Light Bulb

1. Head lights.
Take the bulb out of the light body and replace with a new one.
2. Other lights
Detach the lens and replace the bulb.

Light	Capacity
Head lights	45 W / 45 W
Tail light	5 W
Position light	21 W
Turn signal light / Hazard light	21 W
Instrument panel light	3.4 W

11950G00050

[9] SPECIAL TOOLS

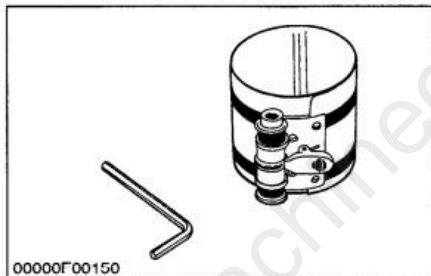
00000F00140

Special Use Puller Set

Code No : 07916-09032

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

00000G00010



00000F00150

Piston Ring Compressor

Code No : 07909-32111

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

00000G00020



00000F00160

Piston Ring Tool

Code No : 07909-32121

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

00000G00030

Full Version Available

Kubota M4700 Tractor Workshop Manual

This is a short preview. The complete manual contains all chapters, wiring diagrams, torque specifications and full service procedures.

VIEW THE FULL MANUAL

<https://machinecatalogic.com/kubota-m4700-tractor-workshop-manual/>