WSM

WORKSHOP MANUAL
KUBOTA DIESEL LAWN AND GARDEN TRACTOR

MANUEL D'ATELIER
TONDEUSE AUTO-PORTEE KUBOTA

G3200·G4200·G4200H·G5200H (For U.S.A.)
(Destiné au Canada)
G6200H (For U.S.A.)

KUBOTA

MidWestTech | Kubota Diesel Lawn and Garden Tractor Service Manual | Publication 07909-70314-2

Order the manual at mid-west-tech.com >

SPECIFICATIONS

Model				G3200	G4200	G4200H	G5200H
Engine	Engine model			KUBOTA Z400	KUBOTA Z430		KUBOTA D600
	Type			Vertical, water-cooled, 4-cycle diesel engine			
	Number of cylinder			2			3
	Total displacement			400 cm³ (24.4 cu.in.)	425 cm³ (25.9 cu.in.)		600 cm³ (36.6 cu.in.)
	Bare horse power and revolution			7.4 kW/53.7 r/s (10PS, 10HP/3200 rpm)	8.8 kW/53.7 r/s (12PS, 12HP/3200 rpm)		10.3 kW/53.7 r/s (14PS, 14HP/3200 rpm)
	Cylinder bore and stroke			64 × 62.2 mm (2.52 × 2.45 in.)	66 × 62.2 mm (2.60 × 2.45 in.)		64 × 62.2 mm (2.52 × 2.45 in.)
	Fuel			Diesel fuel No.1-D (below −10°C(15°F)) (ASTM D975) Diesel fuel No.2-D (above −10°C(15°F))			
	Starter			Electric starter with battery, glow plug, 12V, 0.7 kW			
	Lubrication			Forced lubrication by trochoid pump			
	Cooling			Water with pressurized radiator			
	Battery			12V, 35 Ah			
Capacity	Fuel tank			8 ℓ (8.5 U.S.qts, 7.0 Imp.qts)			
	Engine crankcase			2.0 ℓ (2.1 U.S.qts, 1.76 Imp.qts)			3.0 ℓ (3.2 U.S.qts, 2.64 Imp.qts)
	Engine coolant			1.9 ℓ (2.0 U.S.qts, 1.67 Imp.qts)			2.1 ℓ (2.2 U.S.qts, 1.85 Imp.qts)
	Transmission case			7.0 ℓ (7.4 U.S.qts, 6.2 Imp.qts)		6.0 ℓ (6.3 U.S.qts, 5.3 Imp.qts)	
Machine	Front PTO shaft			U.S.A. No.5			
	Direction of revolution			Clockwise viewed from rear			
	Revolution			45.7 r/s (2740 rpm)			
	PTO clutch			Belts			
	Clutch			Dry double plate type		——	
	Transmission			Gear shift		Hydrostatic transmission	
	Speeds			F1: 1.4 km/h (0.87 M.P.H.) F2: 3.9 km/h (2.42 M.P.H.) F3: 7.5 km/h (4.66 M.P.H.) R1: 3.9 km/h (2.42 M.P.H.)		F: 0 to 10.5 km/h (0 to 6.52 M.P.H.) R: 0 to 5.2 km/h (0 to 3.23 M.P.H.)	
	Brake			Disk			
	Tires	Front		16 × 6.50-8			
		Rear		23 × 10.50-12			
	Dimensions	Overall length		1800 mm (70.87 in.)			
		Overall width		960 mm, 1020 mm (37.80 in., 40.16 in.)			
		Overall height		1125 mm (44.29 in.)			
		Wheel base		1200 mm (47.24 in.)			
		Min. ground clearance		170 mm (6.69 in.)			
		Tread	Front	740 mm (29.13 in.)			
			Rear	695 mm, 755 mm (27.36 in., 29.72 in.)			
	Weight			305 kg (672 lbs)		310 kg (683 lbs)	320 kg (705 lbs)
Model				RC40-GE	RC44-GE		RC48-GE
Mower	Mounting method			Parallel linkage			
	Adjustment of cutting height			Gauge wheel			
	Cutting width			1032mm(40.63in.)	1118mm(44.02in.)		1224mm(48.19in.)
	Cutting height			38 to 90mm(1.42 to 3.54in.)			
	Weight (Approx.)			68kg(150lbs)	71kg(157lbs)		78kg(172lbs)
	Blade spindle speed			66.97 r/s (4018 rpm)	63.93 r/s (3836 rpm)		59.94 r/s (3596 rpm)
	Blade tip velocity			78.3m/s(257ft/s)			79.8m/s(262ft/s)
	Blade length			372mm(14.65in.)	390mm(15.35in.)		424mm(16.69in.)
	Number of blades			3			
	Dimensions	Total length		822mm(32.36in.)	825mm(32.48in.)		928mm(36.54in.)
		Total width		1384mm(54.49in.)	1430mm(56.30in.)		1535mm(60.43in.)
		Total height		282mm(11.10in.)			

MidWestTech | Kubota Diesel Lawn and Garden Tractor Service Manual | Publication 0790... Order the manual at mid-west-tech.com >

CARACTERISTIQUES

Modèle				G3200	G4200	G4200H	G5200H
Moteur	Modèle de moteur			KUBOTA Z400	KUBOTA Z430		KUBOTA D600
	Type			Vertical, refroidissement à eau, 4 temps			
	Nombre de cylindres			2			3
	Cylindrées total			400 cm³	425 cm³		600 cm³
	Puissance en cv et vitesse			7,4 kW/53,7 r/s (10 CV/3200 tr/mn)	8,8 kW/53,7 r/s (12 CV/3200 tr/mn)		10,3 kW/53,7 r/s (14 CV/3200 tr/mn)
	Alésage et course			64 × 62,2mm	66 × 62,2 mm		64 × 62,2 mm
	Carburant			Carburant diesel No.1-D [inférieure à −10°C] (ASTM D975) Carburant diesel No.2-D [supérieure à −10°C]			
	Démarreur			Démarreur électrique avec batterie, bougie de pré-chauffage, 12V, 0,7 kW			
	Lubrication			Lubrification forcée par la pompe trouchoidale			
	Refroidissement			A eau avec radiateur présurise			
	Batterie			12V, 35 Ah			
Capacité	Réservoir à carburant			8 ℓ			
	Carter moteur			2,0 ℓ			3,0 ℓ
	Circuit de refroidissement			1,9 ℓ			2,1 ℓ
	Carter de transmission			7,0 ℓ		6,0 ℓ	
Machine	Axe de prise de force avant			U.S.A. No.5			
	Sens de rotation			A droite vu de l'arrière			
	TPM			45,7 r/s (2740 tr/mn)			
	Embrayage (P.D.F.)			Courroie			
	Embrayage			A sec du type plaques doubles		——	
	Transmission			Changement de vitesses		Transmission hydrostatique	
	Vitesses d'avancement			AV1: 1,4 km/h AV2: 3,9 km/h AV3: 7,5 km/h AR1: 3,9 km/h		AV: 0 à 10,5 km/h AR: 0 à 5,2 km/h	
	Frein			Disque			
	Pneus	Avant		16 × 6,50-8			
		Arrière		23 × 10,50-12			
	Dimensions	Longueur totale		1800 mm			
		Largeur totale		960 mm, 1020 mm			
		Hauteur totale		1125 mm			
		Empattement		1200 mm			
		Garde au sol minimum		170 mm			
		Voies	Avant	740 mm			
			Arrière	695 mm, 755 mm			
	Poids			305 kg		310 kg	320 kg
Modèle				RC40-GE	RC44-GE		RC48-GE
Tondeuse	Type de montage			Liaison parallèle			
	Réglage de la hauteur de coupe			Roue de réglage			
	Largeur de coupe			1032 mm	1118 mm		1224 mm
	Hauteur de coupe			36 à 90 mm			
	Poids (approx.)			68 kg	71 kg		78 kg
	Régime de l'axe de lame			66,97 r/s (4018 tr/mn)	63,93 r/s (3836 tr/mn)		59,94 r/s (3596 tr/mn)
	Vitesse linéaire du bout de lame			78,3 m/s			79,8 m/s
	Longueur de lame			372 mm	390 mm		424 mm
	Nombre de lames			3			
	Dimensions	Longueur hors tout		822 mm	825 mm		928 mm
		Largeur hors tout		1384 mm	1430 mm		1535 mm
		Hauteur hors tout		282 mm			

MidWestTech | Kubota Diesel Lawn and Garden Tractor Service Manual | Publication 0790... Order the manual at mid-west-tech.com >

MECHANISM

F. FEATURES ——— M-1

1. CLUTCH ——— M-3

2. TRANSMISSION AND REAR AXLE ——— M-5
[1] EATON HYDROSTATIC TRANSMISSION MODEL 11 ..... M-5
[2] HYDRAULIC PIPING M-11
[3] HYDOSTATIC CONTROL LINKAGE M-12
[4] REDUCTION GEARS M-13
[5] REAR AXLE AND DIFFERENTIAL M-14

3. BRAKE ——— M-15

4. FRONT AXLE ——— M-16

5. STEERING ——— M-17

6. ELECTRICAL SYSTEM ——— M-18
[1] WIRING DIAGRAM M-18
[2] KEY SWITCH M-20
[3] SAFETY SWITCH M-21

7. MISCELLANEOUS ——— M-24
[1] SEAT SAFETY CONTROL M-24
[2] FRONT PTO M-26
[3] FUEL SYSTEM M-27

MECANISMES

F. CARACTERISTIQUES ——— M-1

1. EMBRAYAGE ——— M-3

2. TRANSMISSION ET PONT ARRIERE ——— M-5
[1] TRANSMISSION HYDROSTATIQUE EATON, MODELE 11 ..... M-5
[2] TUYAUTERIE HYDRAULIQUE M-11
[3] TIMONERIE DE COMMANDE HYDROSTATIQUE M-12
[4] PIGNONS REDUCTEURS M-13
[5] PONT ARRIERE ET DIFFERENTIEL M-14

3. FREIN ——— M-15

4. TRAIN AVANT ——— M-16

5. DIRECTION ——— M-17

6. SYSTEM ELECTRIQUE ——— M-18
[1] SCHEMA ELECTRIQUE M-18
[2] COMMUTATEUR A CLE M-20
[3] INTERRUPTEUR DE SECURITE M-21

7. DIVERS ——— M-24
[1] CONTROLE DE SECURITE DE SIEGE M-24
[2] PRISE DE FORCE AVANT M-26
[3] SYSTEME D'ALIMENTATION M-27

MidWestTech | Kubota Diesel Lawn and Garden Tractor Service Manual | Publication 0790... Order the manual at mid-west-tech.com >

ASSEMBLY INSTRUCTION FOR G3200/G4200 CLUTCH INTERLOCK KIT

Fig. 1

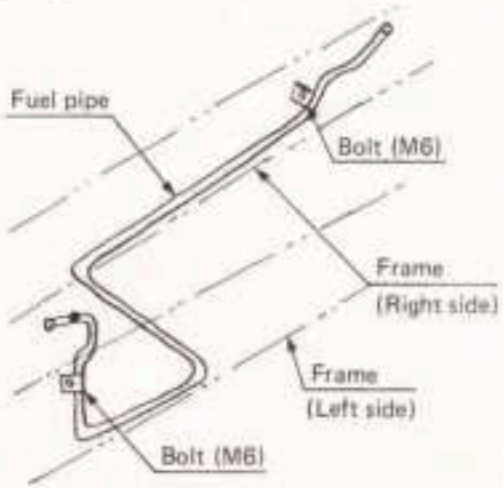


Fig. 2

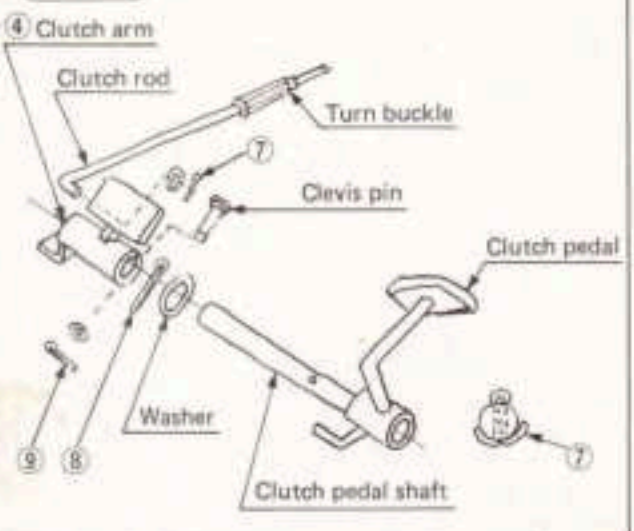


Fig. 3

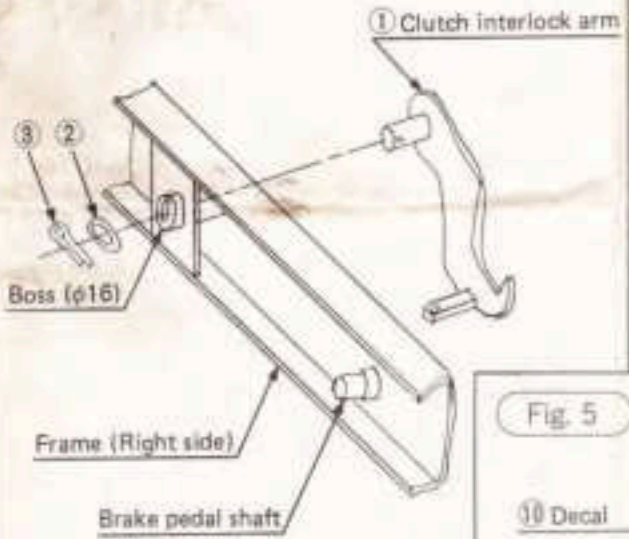
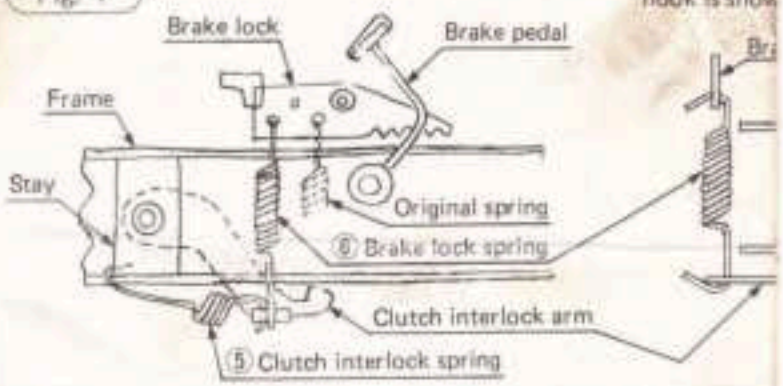
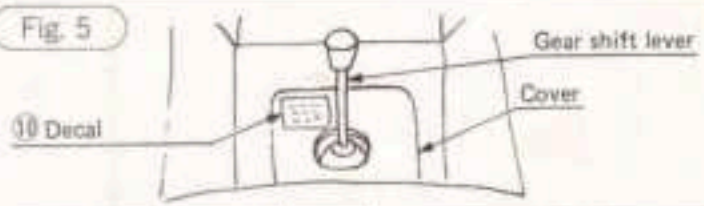


Fig. 4



The direction hook is show

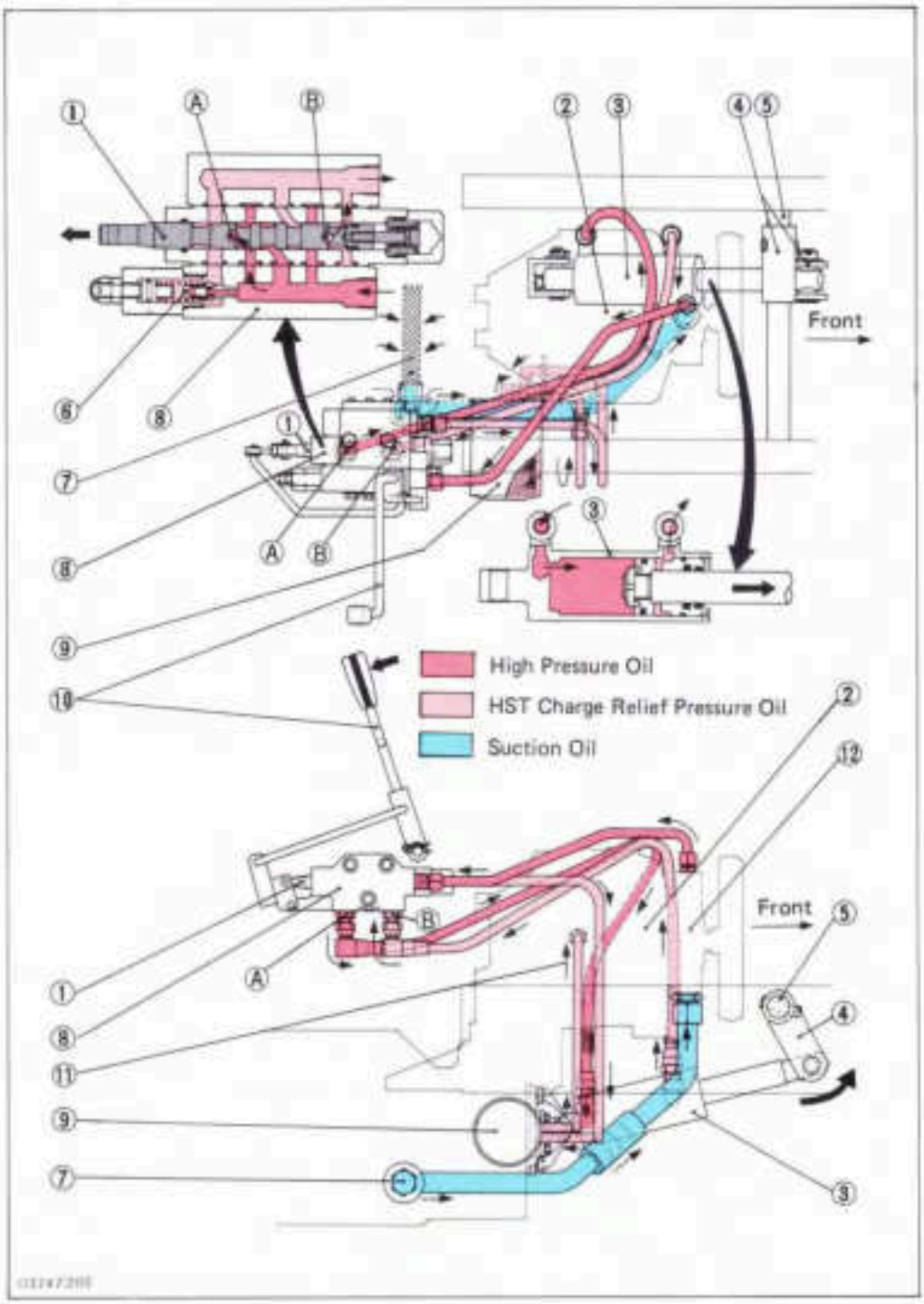
Fig. 5



No.	Part No.	Description	Qty	Remarks
※	66031–8440–0	Kit clutch interlock	—	
①	66031–4424–1	Arm, clutch interlock	1	
②	04011–50160	Washer	1	ϕ16
③	05511–50325	Cotter pin	1	ϕ3, length: 25mm
④	66031–4412–3	Arm, clutch	1	
⑤	66031–4425–1	Spring, clutch interlock	1	length: 66mm
⑥	66031–4272–1	Spring, brake lock	1	length: 90mm
⑦	05511–50315	Cotter pin	1	ϕ3, length: 15mm
⑧	05511–50530	Cotter pin	1	ϕ5, length: 30mm
⑨	05511–50215	Cotter pin	1	ϕ2, length: 15mm
⑩	66031–4741–1	Decal	1	
⑪	66031–8431–1	Assembly instruction	1	

MidWestTech | Kubota Diesel Lawn and Garden Tractor Service Manual | Publication 0790... Order the manual at mid-west-tech.com >

■ When Hydraulic Lift Lever Is Moved Rearward



(1) Spool
(2) Hydrostatic Transmission (HST)
(3) Hydraulic Lift Cylinder
(4) Hydraulic Lift Arm
(5) Lift Shaft
(6) Relief Valve
(7) Oil Strainer
(8) Control Valve
(9) Oil Filter
(10) Hydraulic Lift Lever
(11) To HST
(12) Charge Pump

When hydraulic lift lever (10) is moved rearward, oil fed into the control valve (8) flows to the hydraulic lift cylinder (3) through port (A). And rod of the cylinder (3) is pushed forward and turns the hydraulic lift arm (4) and lift shaft (5). As a result the mower is lifted up.

Then the oil pushed out from the cylinder (3) returns to the control valve (8) through the port (B) and flows into the HST (2) through the oil filter.

When operator releases the hydraulic lift lever (10), it returns in neutral position by a spring on the spool (1).

The independent relief pressure is 2.94 to 3.43 MPa (30 to 35 kgf/cm^2, 427 to 498 psi) at the conditon of 11.3 ℓ/min. (3 GPM) and 65°C (149°F) of oil temperature. But it should be considered that the HST charge relief pressure (207 to 345 kPa, 2.1 to 3.5 kgf/cm^2, 30 to 50 psi) as a back pressure.

MidWestTech | Kubota Diesel Lawn and Garden Tractor Service Manual | Publication 0790... Order the manual at mid-west-tech.com >