TO THE READER

This Workshop Manual has been prepared to provide servicing personnel with information on the mechanism, service and maintenance of KUBOTA Tractors L2900, L3300, L3600 and L4200. 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.

September '94

⚠ SAFETY FIRST

This symbol, the industry's "Safety Alert Symbol", is used throughout this manual and decals 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.

SAFETY SERVICING AND REPAIRING

(1) Before working on the machine :
- Park the machine on a firm and level ground, and set the parking brake.
- Lower the implement or mower to the ground.
- Stop the engine, and remove the key.
- Disconnect the battery's ground cable.
- Clean the work area and machine.

(2) Do not work on the machine while under the influence of alcohol, medication, or other substances or while fatigued.
(3) Do not wear a necktie, scarf, necklace, loose or bulky clothing when you work near machine tools or moving parts.
(4) Use tools appropriate to the work. Makeshift tools, parts, and procedures will not make good repairs.
(5) When servicing is performed together by two or more persons, take care to perform all work safely.
(6) Do not work under the machine that is supported solely by a jack. Always support the machine by safety stands.

(7) If the engine must be running to do same work, make sure the area is well ventilated. Never run the engine in a closed area. The exhaust gas contains poisonous carbon monoxide.
(8) Do not touch the rotating or hot parts while the engine is running.
(9) Fuel is extremely flammable and explosive under certain conditions. Do not smoke or allow flames or sparks in your working area.
(10) To avoid sparks from an accidental short circuit, always disconnect the battery's ground cable first and connect it last.
(11) Sulfuric acid in battery electrolyte is poisonous. It is strong enough to burn skin, clothing and cause blindness if splashed into eyes. Keep electrolyte away from eyes, hands and clothing. If you spill electrolyte on yourself, flush with water, and get medical attention immediately.
(12) Battery gas can explode. Keep sparks and open flame away from the top of battery, especially when charging the battery.
(13) Never remove the radiator cap while the engine is running, or immediately after stopping. Otherwise, hot water will spout out from radiator. Wait for more than ten minutes to cool the radiator, before removing the cap.
(14) 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.
(15) Do not start the engine by shorting across starter terminals.
(16) Unauthorized modifications to the machine may impair the function and / or safety and affect machine life.
(17) Do not alter or remove any part of machine safety system.
(18) Keep a first aid kit and fire extinguisher handy at all times.
(19) Be sure to chock the wheels to prevent accident during servicing the machine.

SAFETY DECALS

- **The following safety decals are installed on the machine.**
  If a decal becomes damaged, illegible or is not on the machine, replace it. The decal part number is listed in the parts list.

① Part No. TA040-4965-2

⚠ DANGER TA040-49652 Ⓐ

TO AVOID POSSIBLE INJURY OR DEATH FROM A MACHINE RUNAWAY.

1. Do not start engine by shorting across starter terminals or bypassing the safety start switch. Machine may start in gear and move if normal starting circuitry is bypassed.
2. Start engine only from operator's seat with transmission and PTO OFF. Never start engine while standing on the ground.

② Part No. TA044-4932-1

⚠ WARNING

TO AVOID PERSONAL INJURY OR DEATH FROM ROLL-OVER:

1. Kubota recommends the use of a Roll-Over Protective Structures (ROPS) in almost all applications.
2. Remove the ROPS only when it substantially interferes with operation or itself presents a safety risk. (Examples include work in orchards and vineyards.) ALWAYS REINSTALL IT BEFORE USING THE TRACTOR IN OTHER APPLICATIONS.
3. For further details,consult your Operator's Manual or your local dealer. TA044-49321 Ⓐ

③ Part No. TA040-4933-2

⚠ WARNING

BEFORE DISMOUNTING TRACTOR:

1. PARK ON LEVEL GROUND WHENEVER POSSIBLE. If parking on a gradient, position tractor at right angles to the slope.
2. ALWAYS SET PARKING BRAKE. Leaving transmission in gear with the engine stopped will not prevent tractor from rolling.
3. LOWER ALL IMPLEMENTS TO THE GROUND. Failure to comply to this warning may allow the wheels to slip, and could cause injury or death.
4. LOCK SHUTTLE SHIFT LEVER IN NEUTRAL POSITION AND STOP THE ENGINE. TA040-49332 Ⓐ

④ Part No. TA040-4959-3

⚠ WARNING TA040-49593 Ⓐ

TO AVOID PERSONAL INJURY.

1. Keep PTO shield in place at all times.
2. Do not operate the PTO at speeds faster than the speed recommended by the implement manufacturer.
3. For trailing PTO-driven implements, set drawbar at towing position. (see operator's manual)

⑤ Part No. TA040-4956-1

Diesel fuel only

No fire

TA040-49561

⑥ Part No. TA040-4934-1 【with mid-PTO】

⚠ WARNING

TO AVOID PERSONAL INJURY:

Do not operate rear-PTO driven implements and mid-PTO driven implements at the same time.

TA040-49341 Ⓐ

⑦ Part No. TA040-4935-1

⚠ WARNING

TO AVOID PERSONAL INJURY:

1. Attach pulled or towed loads to the drawbar only.
2. Use the 3-point hitch only with equipment designed for 3-point hitch usage.

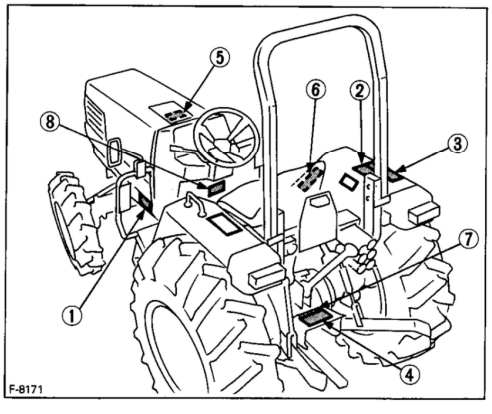
TA040-49351 Ⓐ

⑧ Part No. 35080-6528-2

⚠ CAUTION

Pull the engine stop knob back and hold it until the engine stops in case of emergency.

35080-65282 Ⓐ



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⑨ **Part No. 35260-3491-3**

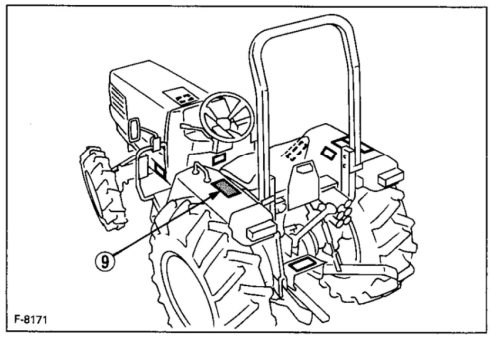
⚠CAUTION 35260-34913⑨

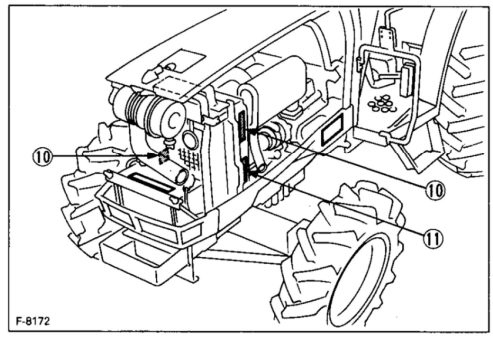
TO AVOID PERSONAL INJURY:

1. Read and understand the operator's manual before operation.
2. Before starting the engine, make sure that everyone is at a safe distance from the tractor and that the PTO is OFF.
3. Do not allow passengers on the tractor at any time.
4. Before allowing other people to use the tractor, have them read the operator's manual.
5. Check the tightness of all nuts and bolts regularly.
6. Keep all shields in place and stay away from all moving parts.
7. Lock the two brake pedals together before driving on the road.
8. Slow down for turns, or rough roads, or when applying individual brakes.
9. On public roads use SMV emblem and hazard lights, if required by local traffic and safety regulations.
10. Pull only from the drawbar.
11. Before dismounting, lower the implement, set the parking brake, stop the engine and remove the key.

⑩ **Part No. TA040-4957-1**
Stay clear of engine fan and fanbelt.

⑪ **Part No. TA040-4958-1**
Do not touch hot surface like muffer, etc.





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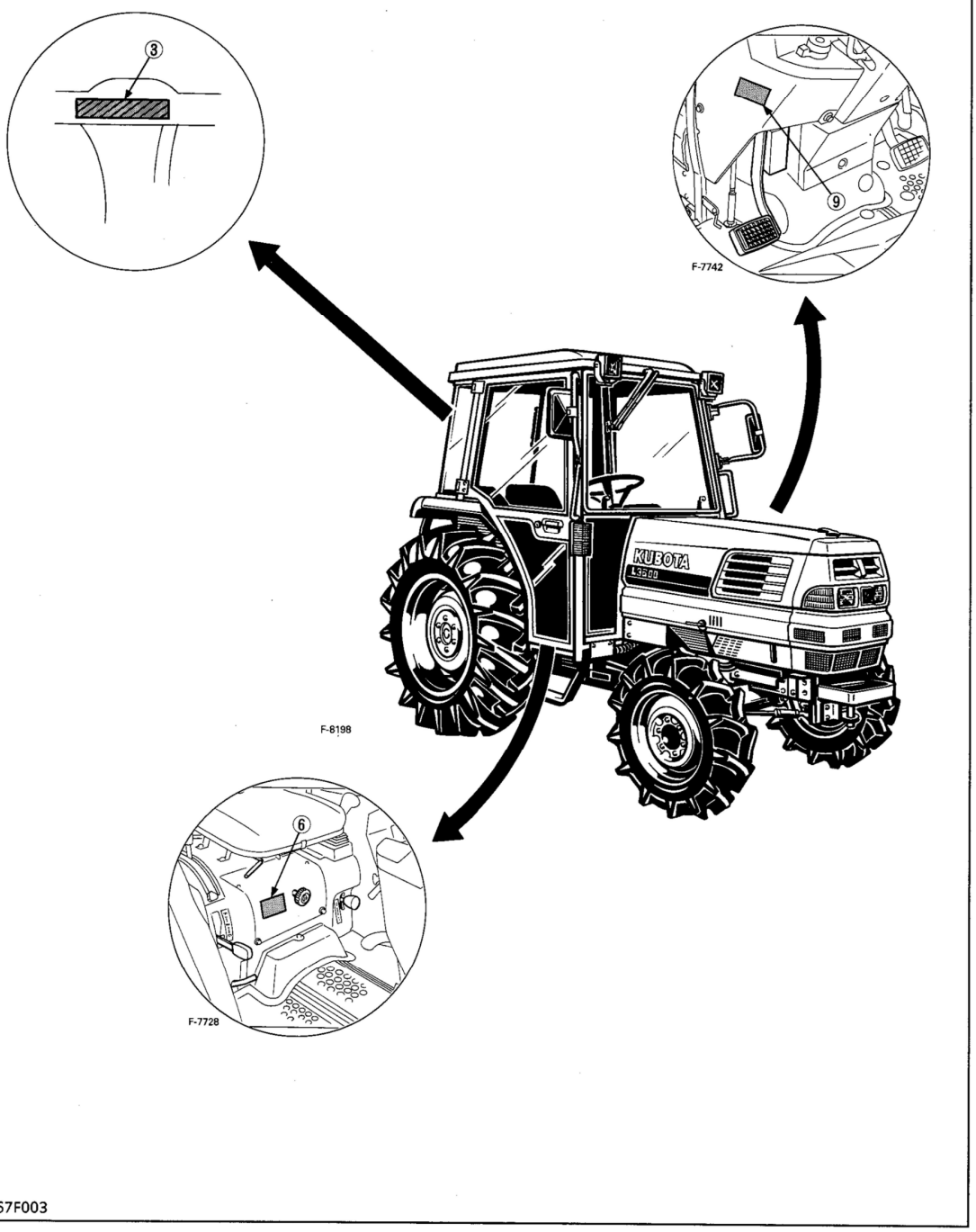

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SPECIFICATIONS

Model			L2900 with ROPS
			4WD
Maximum PTO power			18.7 kW (25.4 PS)*
Engine NET power (DIN)			22.7 kW (30.9 PS)*
Engine	Model		D1503-L- A
	Type		Indirect injection, Vertical, Water-Cooled, 4-cycle diesel engine
	Number of cylinders		3
	Bore and stroke		83 × 92.4 mm (3.3 × 3.6 in.)
	Total displacement		1499 cm^3 (91.5 cu.in.)
	Rated revolution		2700 min^{-1} (45.0 r/s, 2700 rpm)
	Combustion chamber		Spherical type (E-TVCS)
	Fuel injection pump		Bosch type mini pump (PFR3M)
	Governor		Centrifugal ball mechanical governor
	Injection nozzle		Throttle type
	Injection timing		Before T.D.C. 0.314 rad (18°)
	Injection order		1-2-3
	Injection pressure		13.73 MPa (140 kgf/cm^2, 1991 psi)
	Compression ratio		23 : 1
	Lubricating system		Forced lubrication by trochoidal pump
	Cooling system		Pressurized radiator, Forced circulation with water pump
	Starting system		Electric starting with cell starter 12 V, 1.2 kW
	Alternator		12 V, 480 W (40 AMPS)
	Battery		SAE 490- Cold cranking Amps at –18 °C (– 0.4 °F) 12 V (65 AH) (75D26R-MF)
	Fuel		Diesel fuel No. 1 [below – 10 °C (14 °F)] Diesel fuel No. 2 [above – 10 °C (14 °F)]
	Lubricating oil		CC or CD (API grade)
	Weight (Dry)		176 kg (388 lbs)
Capacities	Fuel tank		35.0 ℓ (9.2 U.S.gals., 7.7 Imp.gals.)
	Engine crankcase		5.5 ℓ (5.8 U.S.qts., 4.8 Imp.qts.)
	Engine coolant		7.0 ℓ (7.4 U.S.qts., 6.2 Imp.qts.)
	Transmission case		39.0 ℓ (10.3 U.S.gals., 8.6 Imp.gals.)
	Front axle case		5.5 ℓ (5.8 U.S.qts., 4.8 Imp.qts.)
Dimensions with Std. tires)	Overall length (without 3P)		2820 mm (111.0 in.)
	Overall length (with 3P)		3060 mm (120.5 in.)
	Overall width (minimum tread)		1365 mm (53.7 in.)
	Overall height (Top of ROPS)		2320 mm (91.3 in.)
	Overall height (Top of steering wheel)		1510 mm (59.4 in.)
	Wheel base		1670 mm (65.7 in.)
	Min. ground clearance		340 mm (13.4 in.)
	Tread	Front mm (in.)	1100 (43.3)
		Rear mm (in.)	1035 (40.7), 1125 (44.3), 1220 (48.0), 1305 (51.4), 1400 (55.1)

Note : * Manufacturer's estimate

Model			L2900 with ROPS
			4WD
Traveling system	Tire size (Std. tires)	Front	7 – 16
		Rear	11.2 – 24
	Clutch		Dry type single stage
	Steering		Hydrostatic power steering
	Transmission		Synchronized shuttle and synchronized transmission (8 forward and 8 reverse speeds)
	Brake	Traveling	Wet disc type
		Parking	Connected with the traveling brake
	Differential		Bevel gear
Hydraulic system	Hydraulic control system		Position control, Draft and Mixed control (if equipped)
	Pump capacity (Max. flow rate)		Main pump 26.4 ℓ/min (7.0 GPM) Power steering pump 17.7 ℓ/min (4.7 GPM)
	Three point hitch		SAE Category I
	Maximum lifting capacity (24 in. behind lower link end)		1000 kg (2200 lbs)
Rear PTO	PTO shaft		SAE 1–3/8, 6-splines (with overrunning clutch)
	Revolution	Transmission PTO	1 speed : 540 min^{-1} (9.0 r/s, 540 rpm) / engine 2670 min^{-1} (44.5 r/s, 2670 rpm)
		Independent PTO	1 speed : 540 min^{-1} (9.0 r/s, 540 rpm) / engine 2700 min^{-1} (45.0 r/s, 2700 rpm)
Mid PTO	PTO shaft		USA No. 5 (KUBOTA 10-tooth) involute spline
	Revolution	Transmission PTO	1 speed : 2000 min^{-1} (33.3 r/s, 2000 rpm) / engine 2623 min^{-1} (43.7 r/s, 2623 rpm)
		Independent PTO	1 speed : 2000 min^{-1} (33.3 r/s, 2000 rpm) / engine 2653 min^{-1} (44.2 r/s, 2653 rpm)
Min. turning radius (with brake)			2.3 m (7.6 ft)
Traction system			Fixed drawbar
Weight (with ROPS)			1290 kg (2844 lbs)

SPECIFICATIONS (Continued)

Model			L3300 with ROPS		L3300 with CABIN
			4WD	4WD-GST	4WD
Maximum PTO power			20.9 kW (28.4 PS)*		
Engine NET power (DIN)			24.9 kW (33.8 PS)*		
Engine	Model		D1703-A		
	Type		Indirect injection, Vertical, Water-Cooled, 4-cycle diesel engine		
	Number of cylinders		3		
	Bore and stroke		87×92.4 mm (3.4×3.6 in.)		
	Total displacement		1647 cm^3 (100.5 cu.in.)		
	Rated revolution		2700 min^{-1} (45.0 r/s, 2700 rpm)		
	Combustion chamber		Spherical type (E-TVCS)		
	Fuel injection pump		Bosch type mini pump (PFR3M)		
	Governor		Centrifugal ball mechanical governor		
	Injection nozzle		Throttle type		
	Injection timing		Before T.D.C. 0.314 rad (18°)		
	Injection order		1-2-3		
	Injection pressure		13.73 MPa (140 kgf/cm^2, 1991 psi)		
	Compression ratio		23 : 1		
	Lubricating system		Forced lubrication by trochoidal pump		
	Cooling system		Pressurized radiator, Forced circulation with water pump		
	Starting system		Electric starting with cell starter 12 V, 1.2 kW		
	Alternator		12 V, 480 W (40 AMPS)		12 V, 540 W (45 AMPS)
	Battery		SAE 490-Cold cranking Amps at −18 °C (−0.4 °F) 12 V (65 AH) (75D26R-MF)		
	Fuel		Diesel fuel No. 1 [below −10 °C (14 °F)] Diesel fuel No. 2 [above −10 °C (14 °F)]		
	Lubricating oil		CC or CD (API grade)		
	Weight (Dry)		176 kg (388 lbs)		
Capacities	Fuel tank		35.0 ℓ (9.2 U.S.gals., 7.7 Imp.gals.)		
	Engine crankcase		5.5 ℓ (5.8 U.S.qts., 4.8 Imp.qts.)		
	Engine coolant		7.0 ℓ (7.4 U.S.qts., 6.2 Imp.qts.)		8.2 ℓ (9.2 U.S.qts., 7.2 Imp.qts.)
	Transmission case		39.0 ℓ (10.3 U.S.gals., 8.6 Imp.gals.)		
	Front axle case		5.5 ℓ (5.8 U.S.qts., 4.8 Imp.qts.)		
Dimensions (with Std. tires)	Overall length (without 3P)		2850 mm (112.2 in.)		
	Overall length (with 3P)		3060 mm (120.5 in.)		
	Overall width (minimum tread)		1365 mm (53.7 in.)		
	Overall height		2340 mm (92.1 in.)		2165 mm (85.2 in.)
	Overall height (Top of steering wheel)		1520 mm (59.8 in.)		
	Wheel base		1670 mm (65.7 in.)		
	Min. ground clearance		340 mm (13.4 in.)		
	Tread	Front mm (in.)	1100 (43.3)		
		Rear mm (in.)	1035 (40.7), 1125 (44.3), 1220 (48.0), 1305 (51.4), 1400 (55.1)		

Note : * Manufacturer's estimate

Model			L3300 with ROPS		L3300 with CABIN
			4WD	4WD-GST	4WD
Traveling system	Tire size (Std. tires)	Front	7 – 16		
		Rear	12.4 – 24		
	Clutch		Dry type single stage		
	Steering		Hydrostatic power steering		
	Transmission		Synchronized shuttle and synchronized transmission (8 forward and 8 reverse speeds)	Glide shift transmission (8 forward and 8 reverse	Synchronized shuttle and synchronized transmission (8 forward and 8 reverse speeds)
	Brake	Traveling	Wet disc type		
		Parking	Connected with the traveling brake		
	Differential		Bevel gear		
Hydraulic system	Hydraulic control system		Position control, Draft and Mixed control (if equipped)		
	Pump capacity (Max. flow rate)		Main pump 26.4 ℓ/min (7.0 GPM) Power steering pump 17.7 ℓ/min (4.7 GPM)		
	Three point hitch		SAE Category I		
	Maximum lifting capacity	At lift point	1300 kg (2866 lbs)		
		24 in. behind lift point	1000 kg (2200 lbs)		
Rear PTO	PTO shaft		SAE 1–3/8, 6-splines		
	Revolution	Transmission PTO	1 speed : 540 min^{-1} (9.0 r/s, 540 rpm) / engine 2670 min^{-1} (44.5 r/s, 2670 rpm)		
		Independent PTO	1 speed : 540 min^{-1} (9.0 r/s, 540 rpm) / engine 2700 min^{-1} (45.0 r/s, 2700 rpm)		
Mid PTO	PTO shaft		USA No. 5 (KUBOTA 10-tooth) involute spline		
	Revolution	Transmission PTO	1 speed : 2000 min^{-1} (33.3 r/s, 2000 rpm) / engine 2623 min^{-1} (43.7 r/s, 2623 rpm)		
		Independent PTO	1 speed : 2000 min^{-1} (33.3 r/s, 2000 rpm) / engine 2653 min^{-1} (44.2 r/s, 2653 rpm)		
Min. turning radius (with brake)			2.3 m (7.6 ft)		
Traction system			Fixed drawbar		
Weight			1320 kg (2910 lbs)	1330 kg (2932 lbs)	1465 kg (3230 lbs)

SPECIFICATIONS (Continued)

Model			L3600 with ROPS		L3600 with CABIN	
			4WD	4WD-GST	4WD	4WD-GST
Maximum PTO power			23.1 kW (31.4 PS)*			
Engine NET power (DIN)			27.3 kW (37.1 PS)*			
Engine	Model		V1903-A			
	Type		Indirect injection, Vertical, Water-Cooled, 4-cycle diesel engine			
	Number of cylinders		4			
	Bore and stroke		80 × 92.4 mm (3.1 × 3.6 in.)			
	Total displacement		1857 cm^3 (113.3 cu.in.)			
	Rated revolution		2600 min^{-1} (43.3 r/s, 2600 rpm)			
	Combustion chamber		Spherical type (E-TVCS)			
	Fuel injection pump		Bosch type mini pump (PFR4M)			
	Governor		Centrifugal ball mechanical governor			
	Injection nozzle		Throttle type			
	Injection timing		Before T.D.C. 0.314 rad (18°)			
	Injection order		1-3-4-2			
	Injection pressure		13.73 MPa (140 kgf/cm^2, 1991 psi)			
	Compression ratio		23 : 1			
	Lubricating system		Forced lubrication by trochoidal pump			
	Cooling system		Pressurized radiator, Forced circulation with water pump			
	Starting system		Electric starting with cell starter 12 V, 1.4 kW			
	Alternator		12 V, 480 W (40 AMPS)		12 V, 540 W (45 AMPS)	
	Battery		SAE 447- Cold cranking Amps at −18 °C (− 0.4 °F) 12 V (70 AH) (75D31R-MF)			
	Fuel		Diesel fuel No. 1 [below − 10 °C (14 °F)] Diesel fuel No. 2 [above − 10 °C (14 °F)]			
	Lubricating oil		CC or CD (API grade)			
	Weight (Dry)		206.5 kg (455 lbs)			
Capacities	Fuel tank		35.0 ℓ (9.2 U.S.gals., 7.7 Imp.gals.)			
	Engine crankcase		7.6 ℓ (8.0 U.S.qts., 7.0 Imp.qts.)			
	Engine coolant		7.5 ℓ (7.9 U.S.qts., 7.0 Imp.qts.)		8.7 ℓ (9.2 U.S.qts., 7.6 Imp.qts.)	
	Transmission case		39.0 ℓ (10.3 U.S.gals., 8.6 Imp.gals.)			
	Front axle case		5.5 ℓ (5.8 U.S.qts., 4.8 Imp.qts.)			
Dimensions (with Std. tires)	Overall length (without 3P)		3000 mm (118.1 in.)			
	Overall length (with 3P)		3210 mm (126.4 in.)			
	Overall width (minimum tread)		1435 mm (56.5 in.)			
	Overall height		2315 mm (91.1 in.)		2155 mm (84.8 in.)	
	Overall height (Top of steering wheel)		1530 mm (60.2 in.)			
	Wheel base		1805 mm (71.1 in.)			
	Min. ground clearance (Under transmission)		340 mm (13.4 in.)			
	Tread	Front mm (in.)	1145 (45.1)			
		Rear mm (in.)	1080 (42.5), 1175 (46.3), 1205 (47.4), 1300 (51.2)			

Note : * Manufacturer's estimate

Model			L3600 with ROPS		L3600 with CABIN	
			4WD	4WD-GST	4WD	4WD-GST
Traveling system	Tire size (Std. tires)	Front	8 – 16			
		Rear	13.6 – 24			
	Clutch		Dry type single stage			
	Steering		Hydrostatic power steering			
	Transmission		Synchronized shuttle and synchronized transmission (8 forward and 8 reverse speeds)	Glide shift transmission (8 forward and 8 reverse speeds)	Synchronized shuttle and synchronized transmission (8 forward and 8 reverse speeds)	Glide shift transmission (8 forward and 8 reverse speeds)
	Brake	Traveling	Wet disc type			
		Parking	Connected with the traveling brake			
	Differential		Bevel gear			
Hydraulic system	Hydraulic control system		Position control, Draft and Mixed control (if equipped)			
	Pump capacity (Max. flow rate)		Main pump 29.5 ℓ/min (7.8 GPM) Power steering pump 15.3 ℓ/min (4.0 GPM)			
	Three point hitch		SAE Category I			
	Maximum lifting capacity	At lift point	1300 kg (2866 lbs)			
		24 in. behind lift points	1050 kg (2315 lbs)			
Rear PTO	PTO shaft		SAE 1–3/8, 6-splines (with overrunning clutch)			
	Revolution	Transmission PTO	1 speed : 540 min^{-1} (9.0 r/s, 540 rpm) / engine 2447 min^{-1} (40.8 r/s, 2447 rpm)			
		Independent PTO	1 speed : 540 min^{-1} (9.0 r/s, 540 rpm) / engine 2475 min^{-1} (41.3 r/s, 2475 rpm)			
Mid PTO	PTO shaft		USA No. 5 (KUBOTA 10-tooth) involute spline			
	Revolution	Transmission PTO	1 speed : 2000 min^{-1} (33.3 r/s, 2000 rpm) / engine 2404 min^{-1} (40.1 r/s, 2404 rpm)			
		Independent PTO	1 speed : 2000 min^{-1} (33.3 r/s, 2000 rpm) / engine 2432 min^{-1} (40.5 r/s, 2432 rpm)			
Min. turning radius (with brake)			2.3 m (7.5 ft)			
Traction system			Fixed drawbar			
Weight			1420 kg (3131 lbs)	1430 kg (3153 lbs)	1545 kg (3406 lbs)	1555 kg (3428 lbs)

SPECIFICATIONS (Continued)

Model			L4200 with ROPS		L4200 with CABIN	
			4WD	4WD-GST	4WD	4WD-GST
Maximum PTO power			27.6 kW (37.5 PS)*			
Engine NET power (DIN)			32.1 kW (43.7 PS)*			
Engine	Model		V2203-A			
	Type		Indirect injection, Vertical, Water-Cooled, 4-cycle diesel engine			
	Number of cylinders		4			
	Bore and stroke		87 × 92.4 mm (3.4 × 3.6 in.)			
	Total displacement		2197 cm^3 (134.1 cu.in.)			
	Rated revolution		2600 min^{-1} (43.4 r/s, 2600 rpm)			
	Combustion chamber		Spherical type (E-TVCS)			
	Fuel injection pump		Bosch type mini pump (PFR4M)			
	Governor		Centrifugal ball mechanical governor			
	Injection nozzle		Throttle type			
	Injection timing		Before T.D.C. 0.314 rad (18°)			
	Injection order		1-3-4-2			
	Injection pressure		13.73 MPa (140 kgf/cm^2, 1991 psi)			
	Compression ratio		23 : 1			
	Lubricating system		Forced lubrication by trochoidal pump			
	Cooling system		Pressurized radiator, Forced circulation with water pump			
	Starting system		Electric starting with cell starter 12 V, 1.4 kW			
	Alternator		12 V, 480 W (40 AMPS)		12 V, 540 W (45 AMPS)	
	Battery		SAE 447-Cold cranking Amps at −18 °C (−0.4 °F) 12 V (70 AH) (75D31R-MF)			
	Fuel		Diesel fuel No. 1 [below −10 °C (14 °F)] Diesel fuel No. 2 [above −10 °C (14 °F)]			
	Lubricating oil		CC or CD (API grade)			
	Weight (Dry)		206.5 kg (455 lbs)			
Capacities	Fuel tank		35.0 ℓ (9.2 U.S.gals., 7.7 Imp.gals.)			
	Engine crankcase		7.6 ℓ (8.0 U.S.qts., 7.0 Imp.qts.)			
	Engine coolant		7.5 ℓ (7.9 U.S.qts., 7.0 Imp.qts.)		8.7 ℓ (9.2 U.S.qts., 7.6 Imp.qts.)	
	Transmission case		39.0 ℓ (10.3 U.S.gals., 8.6 Imp.gals.)			
	Front axle case		5.5 ℓ (5.8 U.S.qts., 4.8 Imp.qts.)			
Dimensions (with Std. tires)	Overall length (without 3P)		3020 mm (118.9 in.)			
	Overall length (with 3P)		3230 mm (127.2 in.)			
	Overall width (minimum tread)		1435 mm (56.5 in.)			
	Overall height		2340 mm (92.1 in.)		2175 mm (85.6 in.)	
	Overall height (Top of steering wheel)		1540 mm (60.6 in.)			
	Wheel base		1805 mm (71.1 in.)			
	Min. ground clearance (Under transmission)		390 mm (15.4 in.)			
	Tread	Front mm (in.)	1145 (45.1)			
		Rear mm (in.)	1055 (41.5), 1155 (45.5), 1225 (48.2), 1325 (52.2), 1350 (53.1)			

Note : * Manufacturer's estimate

Model			L4200 with ROPS		L4200 with CABIN	
			4WD	4WD-GST	4WD	4WD-GST
Traveling system	Tire size (Std. tires)	Front	8 – 16			
		Rear	13.6 – 26			
	Clutch		Dry type single stage			
	Steering		Hydrostatic power steering			
	Transmission		Synchronized shuttle and synchronized transmission (8 forward and 8 reverse speeds)	Glide shift transmission (8 forward and 8 reverse speeds)	Synchronized shuttle and synchronized transmission (8 forward and 8 reverse speeds)	Glide shift transmission (8 forward and 8 reverse speeds)
	Brake	Traveling	Wet disc type			
		Parking	Connected with the traveling brake			
	Differential		Bevel gear			
Hydraulic system	Hydraulic control system		Position control, Draft and Mixed control (if equipped)			
	Pump capacity (Max. flow rate)		Main pump 29.5 ℓ/min (7.8 GPM) Power steering pump 15.3 ℓ/min (4.0 GPM)			
	Three point hitch		SAE Category I			
	Maximum lifting capacity	At lift point	1300 kg (2866 lbs)			
		24 in. behind lift points	1050 kg (2315 lbs)			
Rear PTO	PTO shaft		SAE 1–3/8, 6-splines (with overrunning clutch)			
	Revolution	Transmission PTO	1 speed : 540 min^{-1} (9.0 r/s, 540 rpm) / engine 2447 min^{-1} (40.8 r/s, 2447 rpm)			
		Independent PTO	1 speed : 540 min^{-1} (9.0 r/s, 540 rpm) / engine 2475 min^{-1} (41.3 r/s, 2475 rpm)			
Min. turning radius (with brake)			2.5 m (8.2 ft)			
Traction system			Fixed drawbar			
Weight (with ROPS)			1420 kg (3131 lbs)	1430 kg (3153 lbs)	1545 kg (3406 lbs)	1555 kg (3428 lbs)

TRAVELING SPEEDS

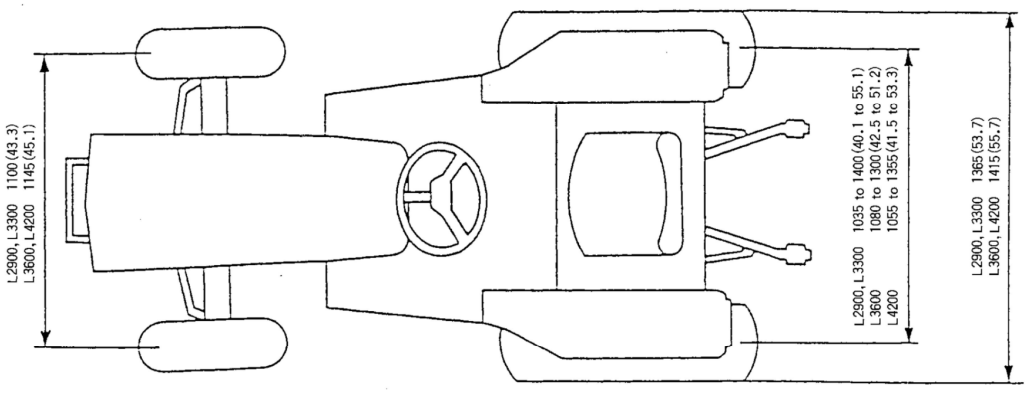
(At rated engine speed)

Model					L2900		L3300		L3600		L4200	
Tire size (Rear)					11.2-24		12.4-24		13.6-24		13.6-26	
Creep gear shift lever	Shuttle shift lever	GST Type	Manual Transmission Type		km/h	mph	km/h	mph	km/h	mph	km/h	mph
		Main gear shift lever	Range gear shift lever	Main gear shift lever								
High	Forward	1	Low	1	1.5	0.93	1.6	0.99	1.4	0.87	1.5	0.93
		2		2	2.2	1.37	2.3	1.43	2.0	1.24	2.1	1.30
		3		3	3.5	2.17	3.7	2.30	3.3	2.05	3.4	2.11
		4		4	5.2	3.23	5.4	3.36	4.8	2.98	5.0	3.11
		5	High	1	7.4	4.60	7.7	4.78	6.9	4.29	7.2	4.47
		6		2	10.4	6.46	10.8	6.71	9.7	6.03	10.1	6.28
		7		3	16.9	10.50	17.6	10.94	15.7	9.76	16.4	10.19
		8		4	24.9	15.47	26.0	16.16	23.2	14.42	24.2	15.04
	Reverse	1	Low	1	1.4	0.87	1.5	0.93	1.3	0.81	1.4	0.87
		2		2	2.0	1.24	2.1	1.30	1.9	1.18	1.9	1.18
		3		3	3.2	1.99	3.4	2.11	3.0	1.86	3.1	1.93
		4		4	4.8	2.98	4.9	3.04	4.4	2.73	4.6	2.86
		5	High	1	6.7	4.16	7.0	4.35	6.3	3.91	6.6	4.10
		6		2	9.5	5.90	9.9	6.15	8.9	5.53	9.3	5.78
		7		3	15.5	9.63	16.1	10.00	14.4	8.95	15.1	9.38
		8		4	22.9	14.23	23.8	14.79	21.3	13.24	22.2	13.79
Low	Forward	1	Low	1	0.17	0.11	0.18	0.11	0.16	0.10	0.17	0.11
		2		2	0.24	0.15	0.25	0.16	0.23	0.14	0.24	0.15
		3		3	0.39	0.24	0.41	0.25	0.37	0.23	0.38	0.24
		4		4	0.58	0.36	0.60	0.37	0.54	0.34	0.56	0.35
		5	High	1	0.82	0.51	0.86	0.53	0.77	0.48	0.80	0.50
		6		2	1.2	0.75	1.2	0.75	1.1	0.68	1.1	0.68
		7		3	1.9	1.18	2.0	1.24	1.8	1.12	1.8	1.12
		8		4	2.8	1.74	2.9	1.80	2.6	1.62	2.7	1.68
	Reverse	1	Low	1	0.16	0.10	0.16	0.10	0.15	0.09	0.15	0.09
		2		2	0.22	0.14	0.23	0.14	0.21	0.13	0.22	0.14
		3		3	0.36	0.22	0.38	0.23	0.34	0.21	0.35	0.22
		4		4	0.53	0.33	0.55	0.34	0.50	0.31	0.52	0.32
		5	High	1	0.76	0.47	0.79	0.49	0.70	0.43	0.73	0.45
		6		2	1.1	0.68	1.1	0.68	1.0	0.62	1.0	0.62
		7		3	1.7	1.06	1.8	1.12	1.6	0.99	1.7	1.06
		8		4	2.6	1.62	2.7	1.68	2.4	1.49	2.5	1.55

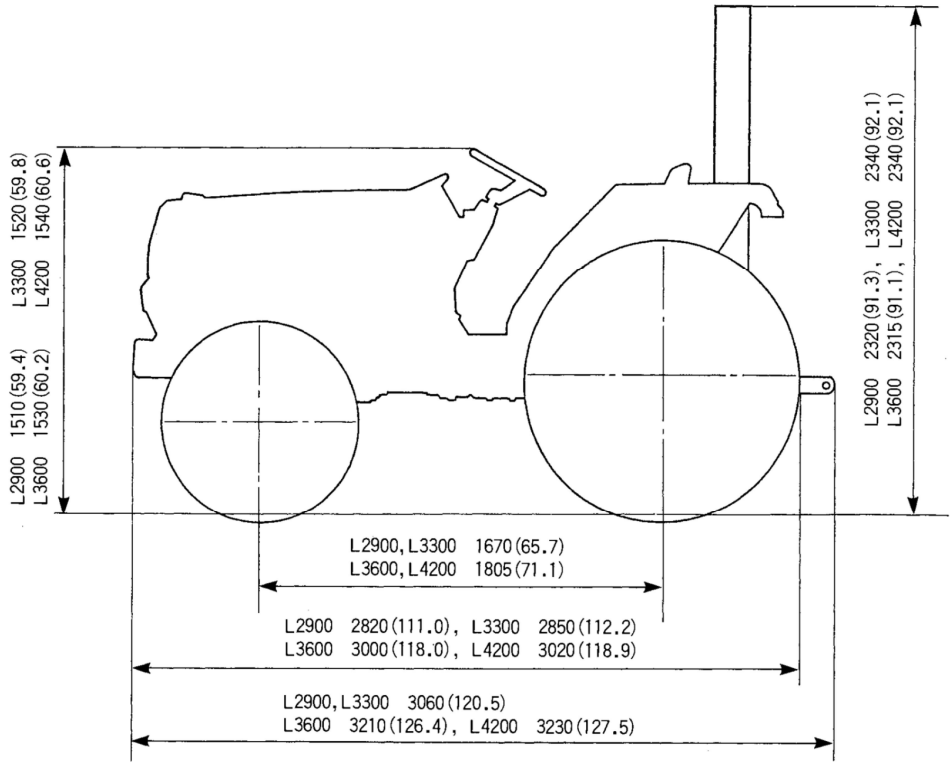
- The speeds in the shaded part are tractor with creep gear only.
- The company reserves the right to change the specifications without notice.

DIMENSIONS (ROPS)

Unit : mm (in.)



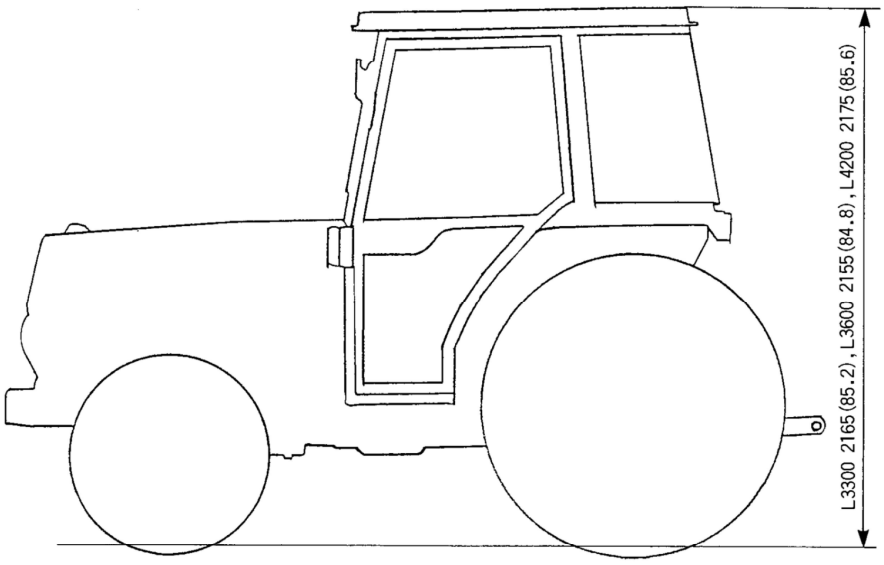
B161F003



B161F004

DIMENSIONS (CABIN)

Unit : mm (in.)



B167F010

G GENERAL

G GENERAL

CONTENTS

[1] FEATURES

B167F011

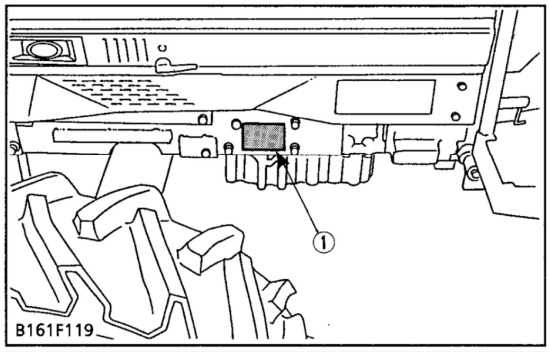
L2900, L3300, L3600 and L4200 tractors have the unique KUBOTA E-TVCS (Three Vortex Combustion System) Diesel Engine that delivers a more dynamic output and a greater torque with cleaner emissions.

The drive mechanisms are either the New GST (Glide Shift Transmission) or the Manual Transmission which incorporates the Synchro-Shuttle and the Full-Synchro Main Transmission. The some models are available CABIN specification. The comfortable integral cabin by KUBOTA.

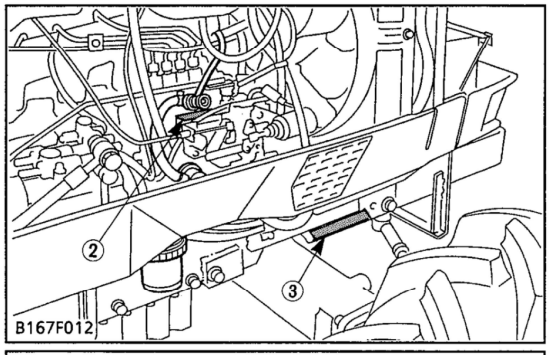
Other distinctive features which contribute to making tractors in this series outperform all other tractors in the same class in comfort, durability, maneuverability, mobility, and ease of operation include the hydraulically actuated Independent PTO, the large-capacity Clutch, the large lift capacity of the 3-Point Hitch, Hydrostatic Power Steering, the Full-Floating Type Flat Deck, and the Hanging-Type Pedals.

[2] TRACTOR IDENTIFICATION

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



B161F119



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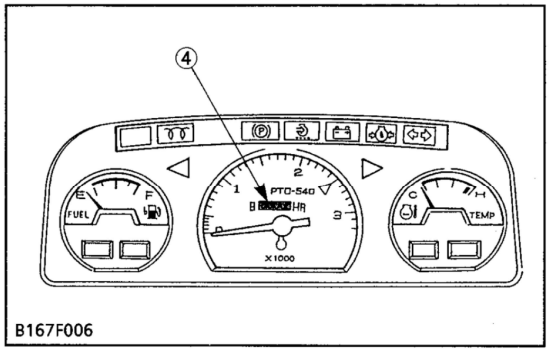

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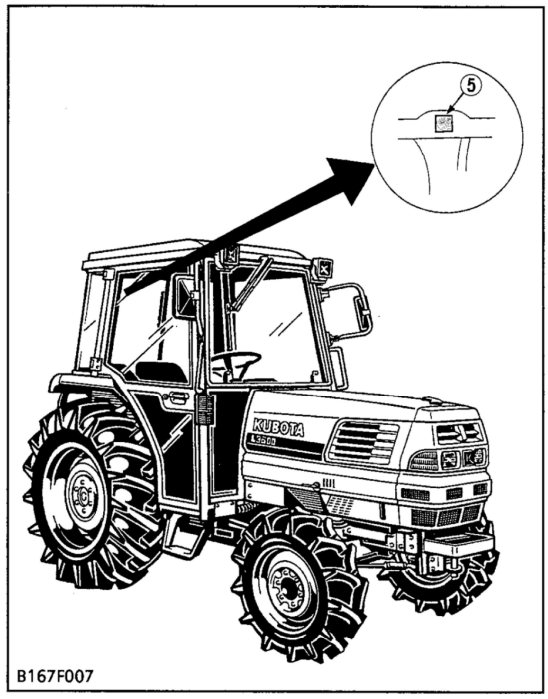
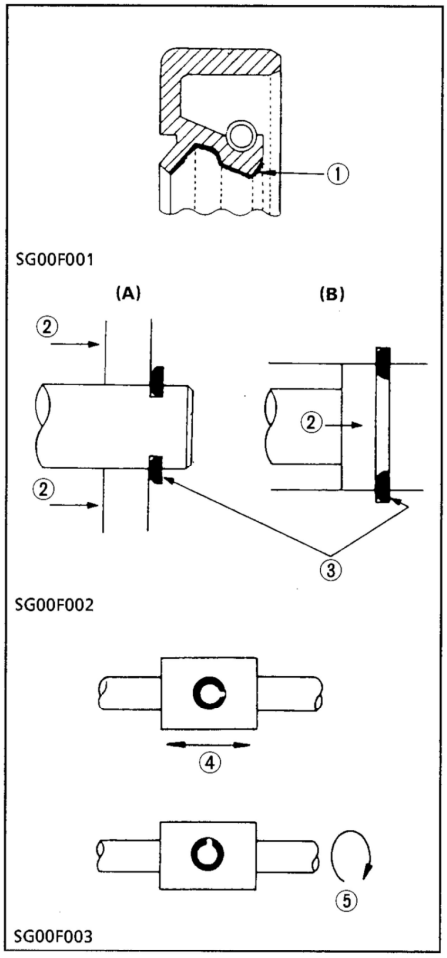


B167F007

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

[3] GENERAL PRECAUTIONS

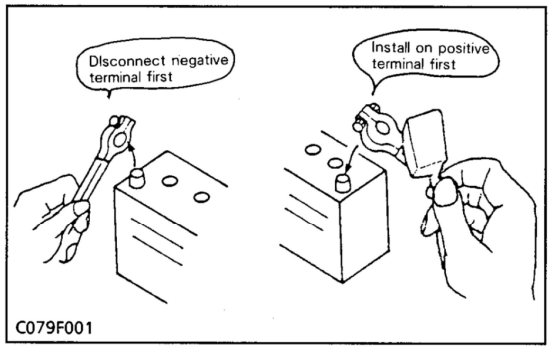


- During disassembly, carefully arrange removed parts in a clean area to prevent confusion later. Bolts and nuts should be installed in their original position to prevent reassembly errors.
- When special tools are required, use KUBOTA genuine special tools. Special tools which are not frequently used should be made according to the drawings provided.
- Before disassembling or servicing electrical wires, always disconnect the ground cable from the battery first.
- Remove oil and dirt from parts before measuring.
- Use only KUBOTA genuine parts for parts replacement to maintain tractor performance and to assure safety.
- Gaskets and O-rings must be replaced during reassembly. Apply grease to new O-rings or oil seals before assembling. See the figure left side.
- When reassembling external snap rings or internal snap rings, they must be positioned so that sharp edge faces against the direction from which a force is applied. See the figure left side.
- When inserting spring pins, their splits must face the direction from which a force is applied. See the figure left side.
- To prevent damage to the hydraulic system, use only specified fluid or equivalent.

(1) Grease
(2) Force
(3) Sharp Edge
(4) Axial Force
(5) Rotating Movement

[A] External Snap Ring
[B] Internal Snap Ring

[4] HANDLING PRECAUTIONS FOR ELECTRICAL PARTS AND WIRING



C079F001

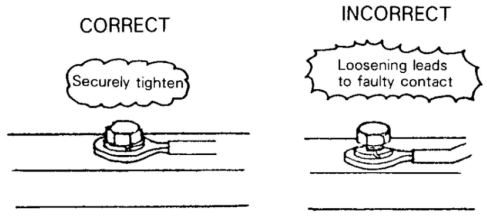
To ensure safety and prevent damage to the machine and surrounding equipment, heed the following precautions in handling electrical parts and wiring.

■ IMPORTANT

- **Check electrical wiring for damage and loosened connection every year. To this end, educate the customer to do his or her own check and at the same time recommend the dealer to perform periodic check for a fee.**
- **Do not attempt to modify or remodel any electrical parts and wiring.**
- **When removing the battery cord, disconnect the negative wire first. When installing the battery cord, connect the positive wire first.**

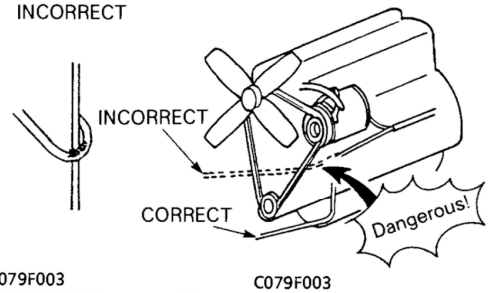
■ Wiring

- Securely tighten wiring terminals.



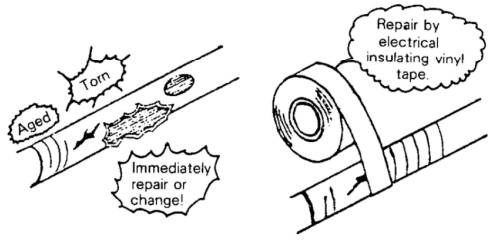
C079F002

- Do not let wiring contact dangerous part.



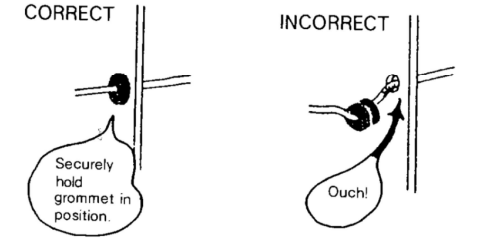
C079F003 C079F003

- Repair or change torn or aged wiring immediately.



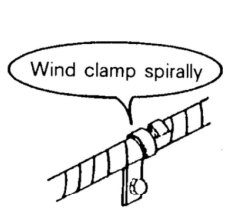
C079F005

- Securely insert grommet.

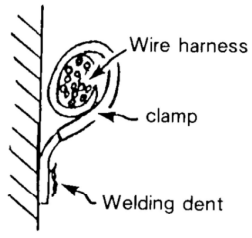


C079F006

- Securely clamp, being careful not to damage wiring.

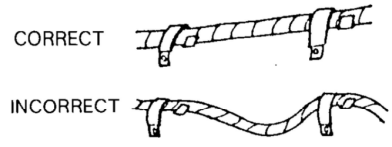


C079F007



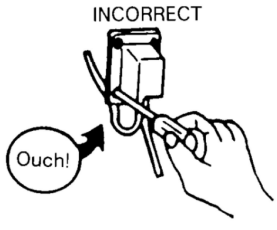
C079F008

- Clamp wiring so that there is no twist, unnecessary sag, or excessive tension, except for movable part, where sag may be required.



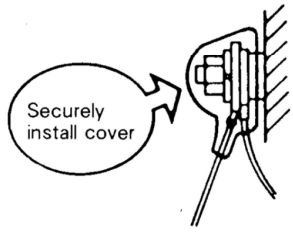
C079F009

- In installing a part, take care not to get wiring caught by it.



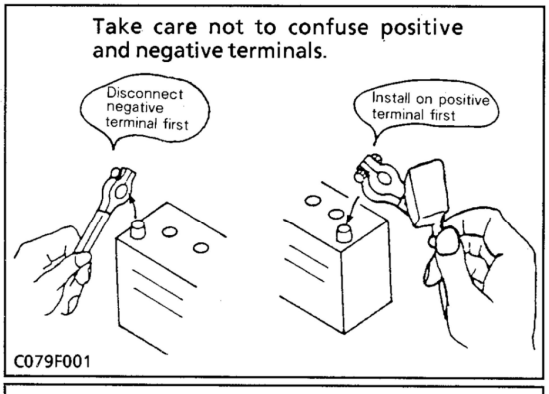
C079F010

- After installing wiring, check protection of terminals and clamped condition of wiring, only then connect battery.

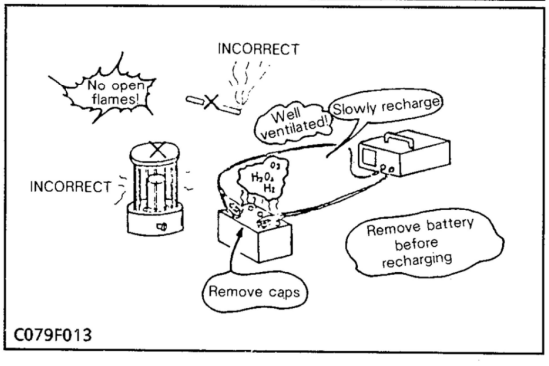


C079F011

■ Battery



C079F001



C079F013

- When removing battery cord, disconnect negative wire first. When installing battery cord, check for polarity and connect positive wire first.
- Do not install any battery with capacity other than is specified (Ah).
- After connecting cord to battery terminals, apply grease to them and securely install terminal covers on them.
- Do not allow dirt and dust to collect on battery.

⚠ CAUTION

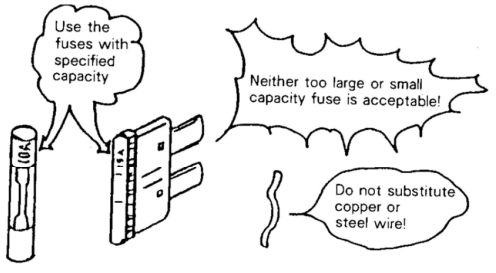
- **Take care not to let battery liquid spill on your skin and clothes. If contaminated, wash it off with water immediately.**
- **Before recharging the battery, remove it from the machine.**
- **Before recharging, remove cell caps.**

⚠ CAUTION

- **Do recharging in a well-ventilated place where there is no open flame nearby, as hydrogen gas and oxygen are formed.**

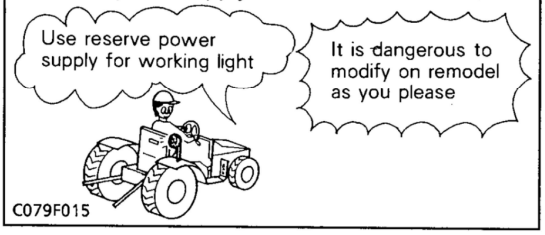
■ Fuse

- Use fuses with specified capacity.
- Never use steel or copper wire in place of fuse.



C079F014

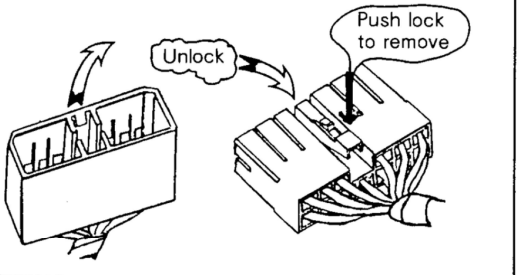
- Do not install working light, radio set, etc. on machine which is not provided with reserve power supply.
- Do not install accessories if fuse capacity of reserve power supply is exceeded.



C079F015

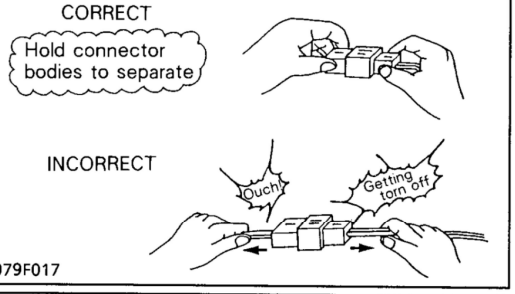
■ Connector

- For connector with lock, push lock to separate.



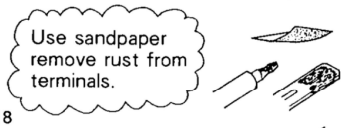
C079F016

- In separating connectors, do not pull wire harnesses.

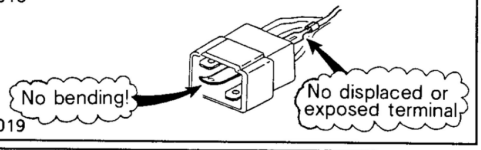


C079F017

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

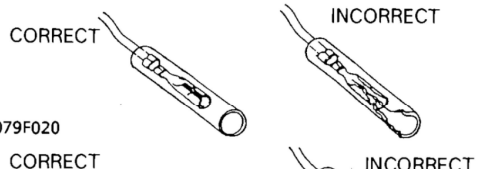


C079F018

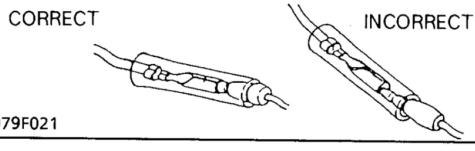


C079F019

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

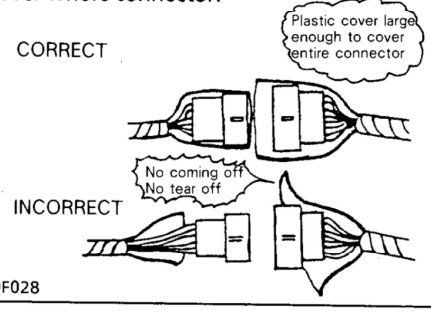


C079F020



C079F021

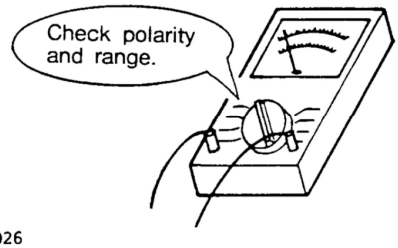
- Make certain plastic cover is large enough to cover whole connector.



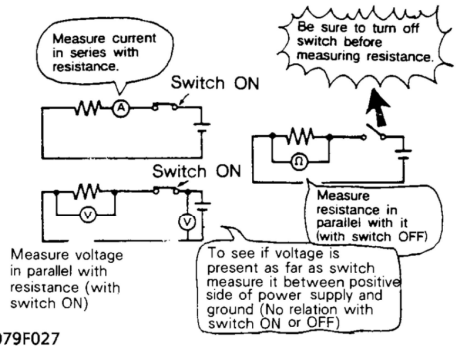
C079F028

■ Handling of Circuit Testers

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



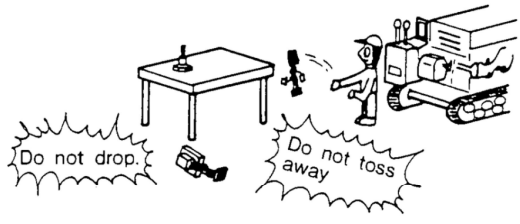
C079F026



C079F027

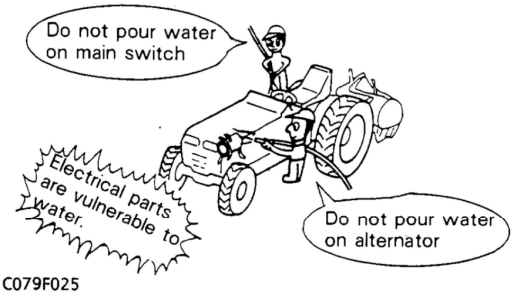
■ Handling of Parts

- Do not throw or drop electrical parts and wire harnesses.



C079F023

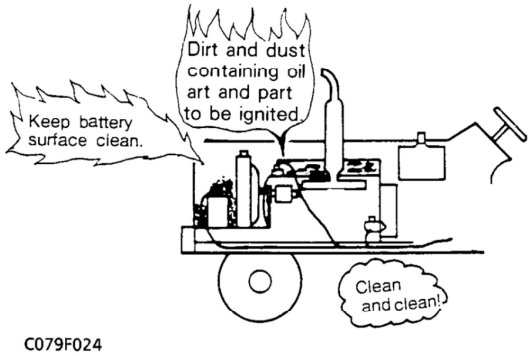
- Do not pour water on electrical parts such as main switch and alternator.



C079F025

■ Oil, Dust and Dirt

- If flammable material such as fuel, or lubricant spills, wipe it off with dry piece of cloth. Do not approach it with an open flame.
- Replace fuel pipe that is aged.
- Remove dirt and dust accumulated on heated part, wire harness, battery, etc.



C079F024

[5] LUBRICANTS, FUEL AND COOLING WATER

<table>
<tr><th rowspan="2">Place</th><th colspan="4">Capacity</th><th rowspan="2">Lubricants, fuel and cooling water</th></tr>
<tr><th>L2900</th><th>L3300</th><th>L3600</th><th>L4200</th></tr>
<tr><td>Fuel tank</td><td colspan="4">35 ℓ
9.2 U.S.gals.
7.7 Imp. gals.</td><td>No.2-D diesel fuel
No.1-D diesel fuel if temperature is below
– 10 °C (14 °F)</td></tr>
<tr><td>Cooling system
(with ROPS)</td><td colspan="2">7.0 ℓ
7.4 U.S.qts.
6.2 Imp.qts.</td><td colspan="2">7.5 ℓ
7.9 U.S.qts.
6.6 Imp.qts.</td><td rowspan="2">Fresh clean water with anti-freeze</td></tr>
<tr><td>Cooling system
(with CABIN)</td><td>—</td><td>8.2 ℓ
8.7
U.S.qts.
7.2
Imp.qts.</td><td colspan="2">8.7 ℓ
9.2 U.S.qts.
7.7 Imp.qts.</td></tr>
<tr><td>Engine crankcase</td><td colspan="2">5.5 ℓ
5.8 U.S.qts.
4.8 Imp.qts.</td><td colspan="2">7.6 ℓ
8.0 U.S.qts.
7.0 Imp.qts.</td><td>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</td></tr>
<tr><td>Transmission case</td><td colspan="4">39 ℓ
41.2 U.S.qts.
34.3 Imp.qts.</td><td>KUBOTA SUPER UDT fluid *</td></tr>
<tr><td>Front axle case
[4WD]</td><td colspan="4">5.5 ℓ
5.8 U.S.qts.
4.8 Imp.qts.</td><td>KUBOTA SUPER UDT fluid * or
SAE 80, 90 gear oil</td></tr>
<tr><td>Window washer
liquid</td><td>—</td><td colspan="3">1.2 ℓ
1.3 U.S.qts.
1.1 Imp.qts.</td><td>Automobile washer liquid</td></tr>
<tr><td colspan="6">Greasing</td></tr>
<tr><td>Top link</td><td colspan="3" rowspan="4">Until grease overflows</td><td>1 or 2 points</td><td rowspan="5">SAE multi-purpose type grease</td></tr>
<tr><td>Top link bracket
(with draft control)</td><td>2 points</td></tr>
<tr><td>Lift rod</td><td>1 point</td></tr>
<tr><td>Power steering
cylinder</td><td>1 point</td></tr>
<tr><td>Battery terminal</td><td colspan="3">Moderate amount</td><td>2 points</td></tr>
<tr><td colspan="6">Lubricating points</td></tr>
<tr><td>Hinges (Doors, Rear
and front windows)</td><td colspan="3">Small amount of lubricating liquid</td><td colspan="2">Lubricating liquid</td></tr>
</table>

* : KUBOTA original transmission hydraulic fluid

[6] TIGHTENING TORQUES (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		
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
M 6 (6 mm, 0.24 in.)	7.84 to 9.31	0.80 to 0.95	5.79 to 6.87	7.84 to 8.83	0.80 to 0.90	5.79 to 6.51	9.80 to 11.2	1.00 to 1.15	7.24 to 8.32	7.84 to 8.83	0.80 to 0.90	5.79 to 6.51	12.3 to 14.2	1.25 to 1.45	9.05 to 10.5
M 8 (8 mm, 0.31 in.)	17.7 to 20.5	1.8 to 2.1	13.0 to 15.2	16.7 to 19.6	1.7 to 2.0	12.3 to 14.5	23.6 to 27.4	2.4 to 2.8	17.4 to 20.2	17.7 to 20.6	1.8 to 2.1	13.0 to 15.2	29.4 to 34.3	3.0 to 3.5	21.7 to 25.3
M10 (10 mm, 0.39 in.)	39.2 to 45.0	4.0 to 4.6	29.0 to 33.2	31.4 to 34.3	3.2 to 3.5	23.1 to 25.3	48.1 to 55.8	4.9 to 5.7	35.5 to 41.2	39.2 to 44.1	4.0 to 4.5	28.9 to 32.5	60.8 to 70.5	6.2 to 7.2	44.9 to 52.1
M12 (12 mm, 0.47 in.)	62.8 to 72.5	6.4 to 7.4	46.3 to 53.5				77.5 to 90.1	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 86.8
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 (16mm, 0.63 in.)	167 to 191	17.0 to 19.5	123 to 141				196 to 225	20.0 to 23.0	145 to 166				260 to 303	26.5 to 31.0	192 to 224
M18 (18 mm, 0.71 in.)	245 to 284	25.0 to 29.0	181 to 210				275 to 318	28.0 to 32.5	203 to 235				343 to 401	35.0 to 41.0	254 to 297
M20 (20mm, 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				490 to 568	50.0 to 58.0	362 to 420

[7] MAINTENANCE CHECK LIST

No.	Check point	Indication on hour meter (Change or check every interval shown below)															After purchase		Reference page
		50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	1 year	2 years	
1	Greasing	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○			G-14
2	Engine starting system checking	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○			G-15
3	Wheel bolt torque checking	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○			G-16
4	Battery condition checking	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○			G-15
5	Engine oil changing	◎	○		○		○		○		○		○		○		○			G-12
6	Air cleaner element cleaning ★		○		○		○		○		○		○		○		○			G-17
7	Fuel filter element cleaning		○		○		○		○		○		○		○		○			G-17
8	Fan belt tension adjustment		○		○		○		○		○		○		○		○			G-18
9	Clutch pedal free travel adjustment		○		○		○		○		○		○		○		○			G-18
10	Brake pedal free travel adjustment		○		○		○		○		○		○		○		○			G-18
11	Engine oil filter cartridge replacement	◎			○				○				○				○			G-12
12	Hydraulic oil filter cartridge replacement	◎			○				○				○				○			G-12
13	Radiator hose and clamp checking				○				○				○				○			G-19
14	Power steering oil line checking				○				○				○				○			G-19
15	Fuel line checking				○				○				○				○			G-20
16	Toe-in adjustment				○				○				○				○			G-19
17	Transmission fluid changing	◎							○								○			G-13
18	Front axle case oil changing	◎							○								○			G-13
19	Front axle pivot adjustment	◎							○								○			G-14
20	Fuel filter element replacement								○								○			G-20
21	Engine valve clearance adjustment																○			G-21
22	Air cleaner element replacement																	○		G-22
23	Heater pipes and hoses checking																	○		G-22
24	Cabin isomounts checking																	○		G-22
25	Radiator hose and clamp replacement																		○	G-22
26	Power steering oil line replacement																		○	G-22
27	Fuel line replacement																		○	G-23

Note : **The jobs indicated by ◎ must be done by all means 50 hours after the break-in respectively.**
The jobs indicated by ☆ service as required.
★ Air cleaner should be cleaned more often in dusty conditions than in normal conditions.