⚠ SAFE OPERATION

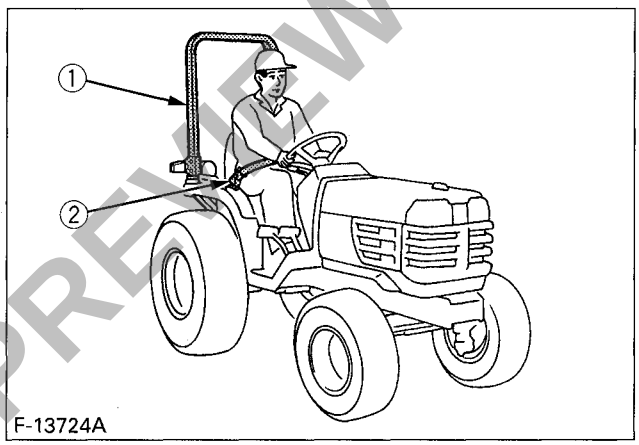
Careful operation is your best insurance against an accident.

Read and understand this section carefully before operating the tractor.

All operators, no matter how much experience they may have had, should read this and other related manuals before operating the tractor or any implement attached to it. It is the owner's obligation to instruct all operators in safe operation.

1. BEFORE OPERATING THE TRACTOR

1. Know your equipment and its limitations. Read this entire manual before attempting to start and operate the tractor.
2. Pay special attention to the danger, warning and caution labels on the tractor itself.
3. KUBOTA recommends the use of a Roll Over Protective Structures (ROPS) and seat belt in almost all applications. This combination will reduce the risk of serious injury or death, should the tractor be upset.
   If the ROPS is loosened or removed for any reason, make sure that all parts are reinstalled correctly before operating the tractor.
   Never modify or repair a ROPS because welding, bending, drilling, grinding, or cutting any portion may weaken the structure.
   A damaged ROPS structure must be replaced, not repaired or revised. If any structural member of the ROPS is damaged, replace the entire structure at your local KUBOTA Dealer.



(1) ROPS
(2) Seat belt

4. Always use the seat belt when any ROPS is installed. Do not use the seat belt if a foldable ROPS is down or there is no ROPS. Check the seat belt regularly and replace if frayed or damaged.
5. Do not operate tractor or any implement attached to it while under the influence of alcohol, medication, or other substances or while fatigued.
6. Carefully check the vicinity before operating tractor or any implement attached to it. Check for overhead clearance which may interfere with a ROPS. Do not allow any bystanders around or near tractor during operation.
7. Before allowing other people to use your tractor, explain how to operate and have them read this manual before operation.
8. Never wear loose, torn, or bulky clothing around tractor. It may catch on moving parts or controls, leading to the risk of accident. Use additional safety items, e.g. hard hat, safety boots or shoes, eye and hearing protection, gloves, etc., as appropriate or required.
9. Do not allow passengers to ride on any part of the tractor at anytime. The operator must remain in the tractor seat throughout operation.
10. Check brakes, clutch, and other mechanical parts for improper adjustment and wear. Replace worn or damaged parts promptly. Check the tightness of all nuts and bolts regularly. (For further details, see "MAINTENANCE" section.)
11. Keep your tractor clean. Dirt, grease, and trash accumulations contribute to fires and lead to personal injury.
12. Use only implements meeting the specifications listed under "IMPLEMENT LIMITATIONS" in this manual and use only implements approved by KUBOTA.
13. Use proper weights to front or rear of tractor to reduce the risk of upsets. When using the front loader, put the implement or ballast on 3-point hitch to improve stability. Follow the safe operating procedures specified in the attached manual to the equipment.
14. Do not modify the tractor. Unauthorized modification may affect the function of the tractor, which may result in personal injury.

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SPECIFICATIONS

SPECIFICATION TABLE

Model			B2710 HSD	B2910 HSD	B7800 HSD
PTO power kW (HP)			14.9 (20.0)*	16.4 (22.0)*	
Engine	Maker		KUBOTA		
	Model		V1305-E2-D12	V1505-E2-D16	
	Type		Indirect Injection. Vertical, water-cooled, 4cycle diesel		
	Number of cylinders		4		
	Bore and stroke mm (in.)		ø76X73.6(ø3.0X2.9)	ø78X78.4(ø3.1X3.1)	
	Total displacement cm^3(cu.in.)		1335 (81.5)	1498 (91.5)	
	Engine gross power kW(HP)		20.1 (27.0)*	22.3 (30.0)*	
	Rated revolution rpm		2600		
	Maximum torque N·m(ft·lb)		79 (59)	89 (66)	
	Battery		12V, RC : 79 min, CCA : 433 A		
	Fuel		Diesel fuel No.2 [above –10°C(14°F)], Diesel fuel No.1 [below –10°C(14°F)]		
Capacities	Fuel tank L (U.S. gals.)		26 (6.9)		
	Engine crankcase (with filter) L (U.S. qts.)		4.1 (4.3)		
	Engine coolant L (U.S. qts.)		4.5 (4.7)		
	Transmission case L (U.S. gals.)		14.5 (3.83)		
Dimensions	Overall length (without 3p) mm(in.)		2520 (99.2)		
	Overall width (min.tread) mm(in.)		1366 (53.8)		
	Overall height (with ROPS) mm(in.)		1995 (78.5)		
	Overall height (Top of Seat) mm(in.)		1365 (53.7)		
	Wheel base mm (in.)		1666 (65.6)		
	Min. ground clearance mm(in.)		370 (14.6)		
	Tread	Front mm (in.)	935 (36.8)		
		Rear mm (in.)	1050 (41.3)		
Weight (with ROPS) kg (lbs.)			790 (1740)	800 (1763)	790 (1740)
Clutch			Dry single plate		
Traveling system	Tires	Front	7-12		
		Rear	12.4-16		
	Steering		Integral type power steering		
	Transmission		Main-hydrostatic transmission , 3 range gear shift (3 foward , 3 reverse)		
	Brake		Wet disk type		
	Min. turning radius (with brake) m(feet)		2.1 (6.9)		
Hydraulic unit	Hydraulic control system		Position Control		Quarter Inching Valve
	Pump capacity L/min (gals/min)		3P: 24.4 (6.4), Power steering: 11.7 (3.1)		
	Three point hitch		SAE Category I		
	Max. lift force	At lift points kg(lbs.)	750 (1655)		
		24in. behind lift points kg(lbs.)	590 (1300)		
PTO	Rear-PTO		SAE 1–3/8 , 6 splines		
	Revolution		1 speed (540 rpm at 2600 engine rpm)		
	Mid-PTO (if equipped)		USA No.5 (KUBOTA 10 -tooth) involute spline		
	Revolution		1 speed (2500 rpm at 2578 engine rpm)		

NOTE: * Manufacturer's estimate

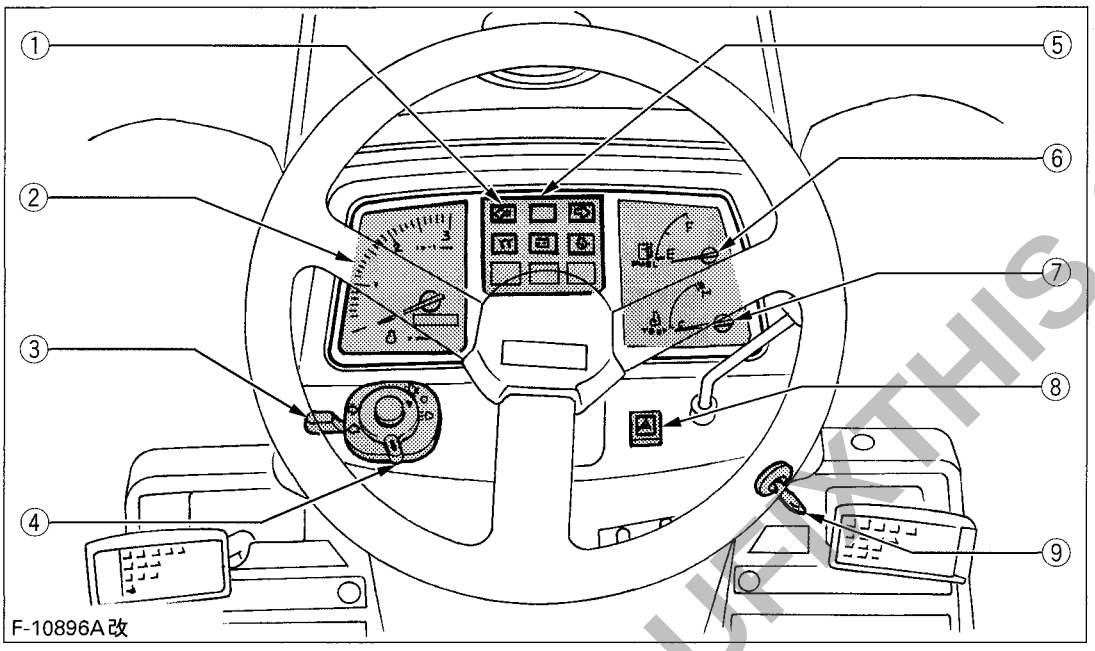
The company reserves the right to change the specifications without notice.

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INSTRUMENT PANEL AND CONTROLS

Instrument Panel, Switches and Hand Controls

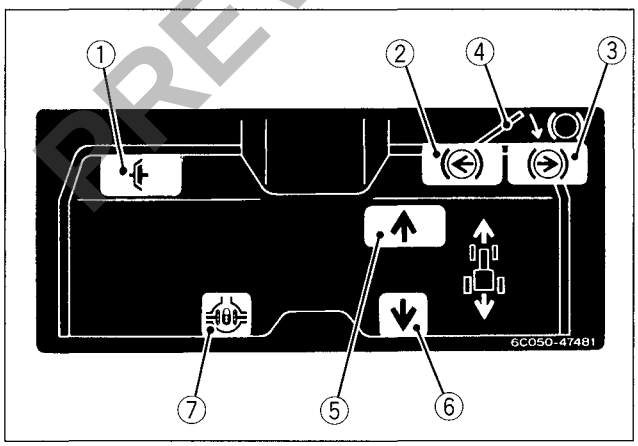


ILLUSTRATED CONTENTS

(1) Turn signal / Hazard light indicator 25
(2) Hourmeter / Tachometer 30
(3) Turn signal light switch 25
(4) Head light switch 25
(5) Easy Checker™ 20,29
(6) Fuel gauge 30
(7) Coolant temperature gauge 30
(8) Hazard light switch 25
(9) Key switch 19

Pedal Location Label

The label is located on the cover under seat.



(1) Clutch pedal
(2) Brake pedal (left)
(3) Brake pedal (right)
(4) Brake pedal lock
(5) Speed control pedal (forward)
(6) Speed control pedal (reverse)
(7) Differential lock pedal

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PRE-OPERATION CHECK

DAILY CHECK

To prevent trouble from occurring, it is important to know the condition of the tractor. Check it before starting.

CAUTION
To avoid personal injury:
- **Be sure to check and service the tractor on a firm, flat, and level surface with the engine stopped, all implements lowered to the ground and the parking brake "ON".**

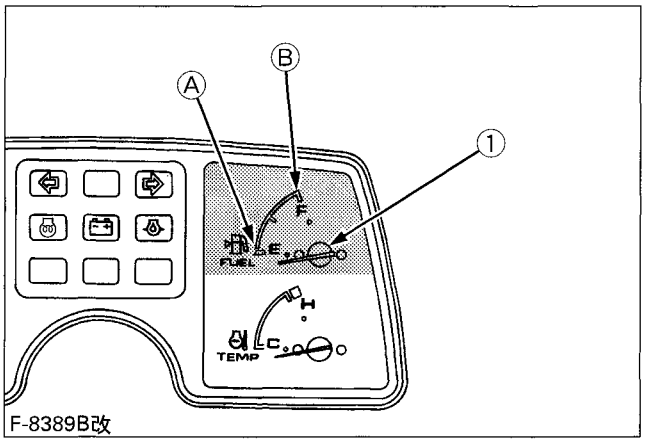
Check item
- Walk around inspection
- Check engine oil level
- Check transmission oil level
- Check coolant level
- Clean grill and radiator screen
- Check air cleaner evacuator valve
  (When used in dusty conditions)
- Check brake and clutch pedal
- Check indicators, gauges and meter
- Check wire harness
- Check lights
- Check seat belt and ROPS
- Refuel
  (See "DAILY CHECK" in periodic service section.)
- Care of danger, warning and caution labels
  (See "DANGER, WARNING AND CAUTION LABELS" in safe operation section.)

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■ Fuel Gauge

When the key switch is on, the fuel gauge indicates the fuel level.
Be careful not to empty the fuel tank. Otherwise air may enter the fuel system.
Should this happen, the system should be bled (See "Bleeding Fuel System" in Periodic Service section.)



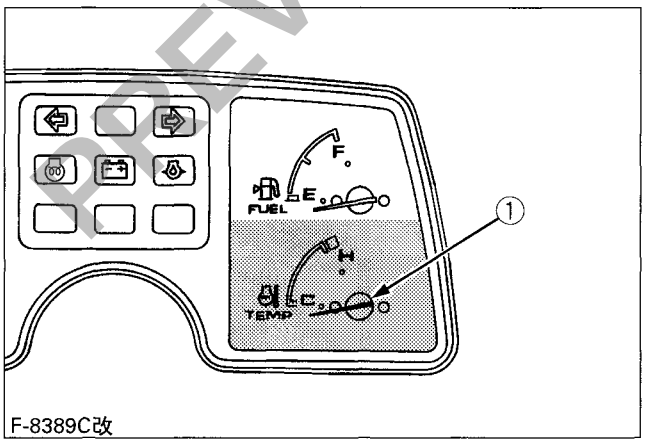
F-8389B改

(1) Fuel gauge *(A) "EMPTY"* *(B) "FULL"*

■ Coolant Temperature Gauge

CAUTION
To avoid personal injury:
- **Do not remove radiator cap until coolant temperature is well below its boiling point. Then loosen cap slightly to the stop to relieve any pressure before removing cap completely.**

1. With the key switch at "ON", this gauge indicates the temperature of the coolant. "C" for "cold" and "H" for "hot".
2. If the indicator reaches the "H" position (red zone), engine coolant is overheated. Check the tractor by referring to "TROUBLESHOOTING" section.

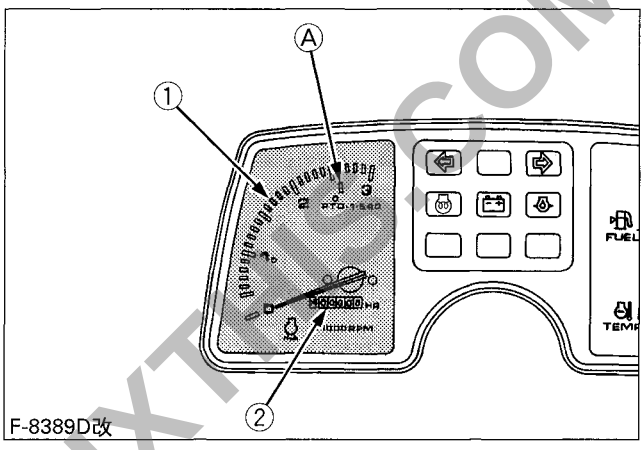


F-8389C改

(1) Coolant temperature gauge

■ Hourmeter/Tachometer

This meter gives readings for engine speed, PTO shaft speed and the hours the tractor has been operated.
1. The tachometer indicates the engine speed and the 540 PTO shaft speed location on the dial.
2. The hourmeter indicates in five digits the hours the tractor has been used; the last digit indicates 1/10 of an hour.



F-8389D改

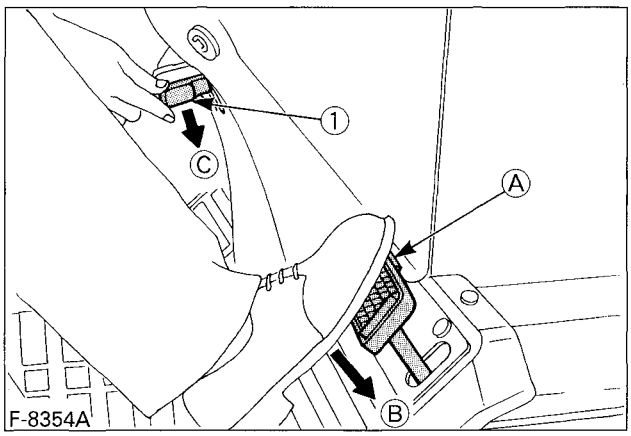
(1) Engine revolution *(A) PTO: 540rpm*
(2) Hours used

PARKING

■ Parking

CAUTION
To avoid personal injury:
- **Always set the parking brake, stop the engine and remove the key before leaving the tractor seat.**

1. When parking, be sure to set the parking brake.
   To set the parking brake;
   1) Interlock the brake pedals.
   2) Depress the brake pedals.
   3) Latch the brake pedals with the parking brake lever.



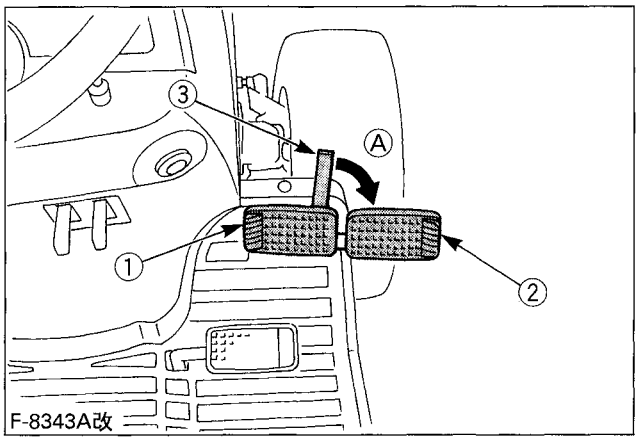
F-8354A

(1) Parking brake lever *(A) Interlock the brake pedals*
(B) "DEPRESS"
(C) "PUSH-DOWN"

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3. DRIVING THE TRACTOR ON THE ROAD

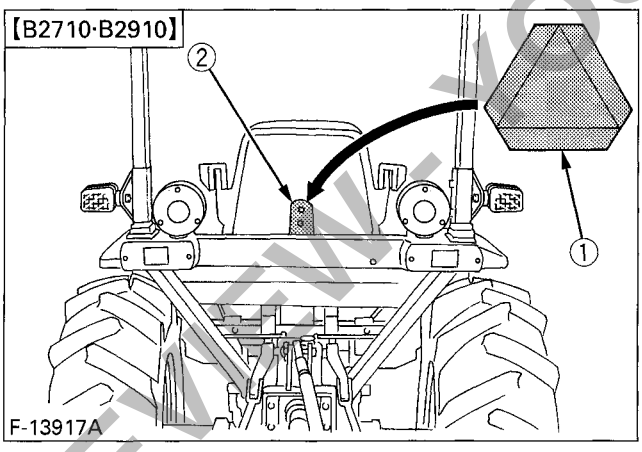
1. Lock the two brake pedals together to help assure straight-line stops. Uneven braking at road speeds could cause the tractor to tip over.



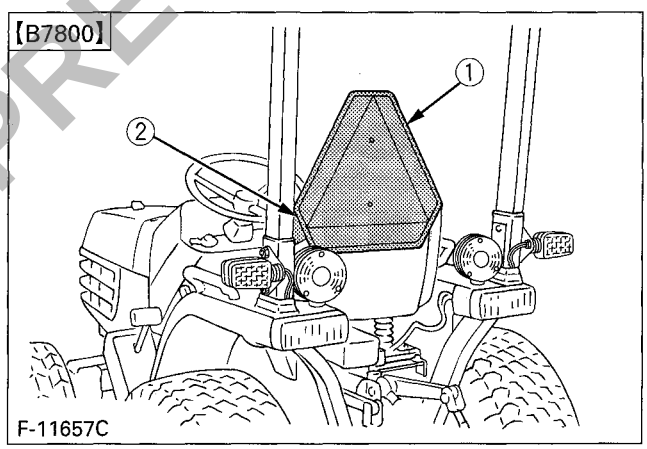
(1) Brake pedal (LH) *(A) Whenever travelling on the road*
(2) Brake pedal (RH)
(3) Brake pedal lock

2. Always slow the tractor down before turning. Turning at high speed may tip the tractor over.
3. Make sure that the Slow Moving Vehicle (SMV) sign is clean and visible. Use hazard lights as required.

【B2710·B2910】

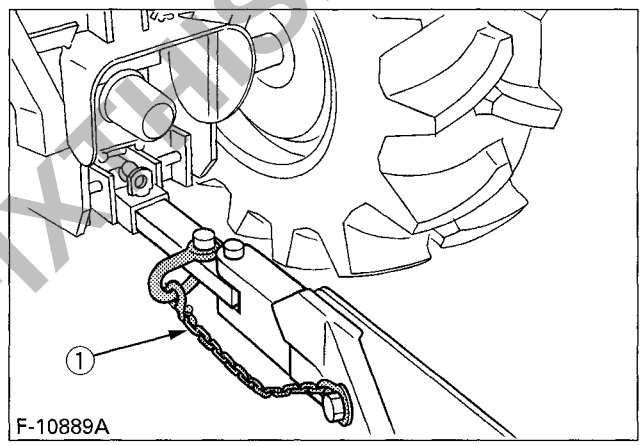


【B7800】



(1) SMV emblem
(2) Bracket

4. Observe all local traffic and safety regulations.
5. Turn the headlights on.
6. Drive at speeds that allow you to maintain control at all times.
7. Do not apply the differential lock while traveling at road speeds. The tractor may run out of control.
8. Avoid sudden motions of the steering wheel as they can lead to a dangerous loss of stability. The risk is especially great when the tractor is traveling at road speeds.
9. Do not operate an implement while the tractor is on the road. Lock the 3-point hitch in the raised position.
10. When towing other equipment, use a safety chain and place an SMV emblem on it as well.



(1) Safety chain

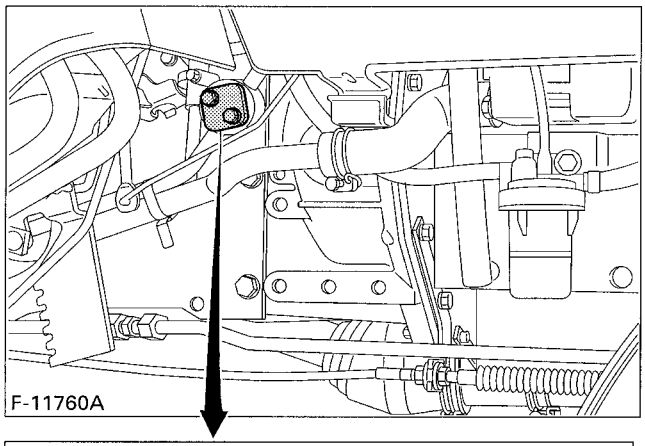
4. PARKING THE TRACTOR

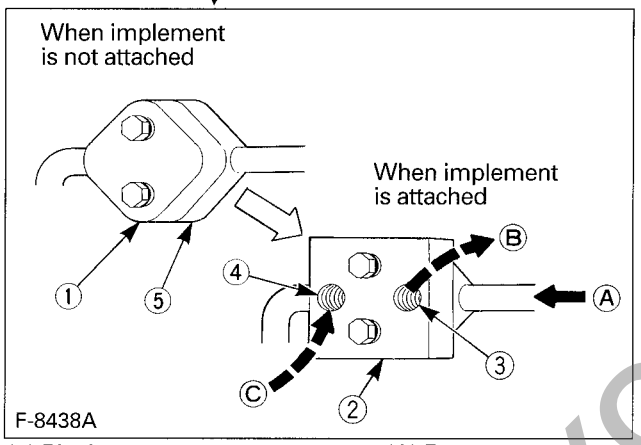
1. Disengage the PTO, lower all implements to the ground, place all control levers in their neutral positions, set the parking brake, stop the engine, and remove the key.
2. Make sure that the tractor has come to a complete stop before dismounting.

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【Mid outlet】



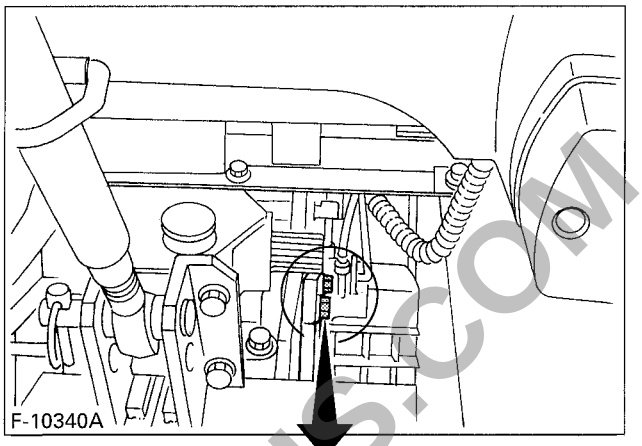


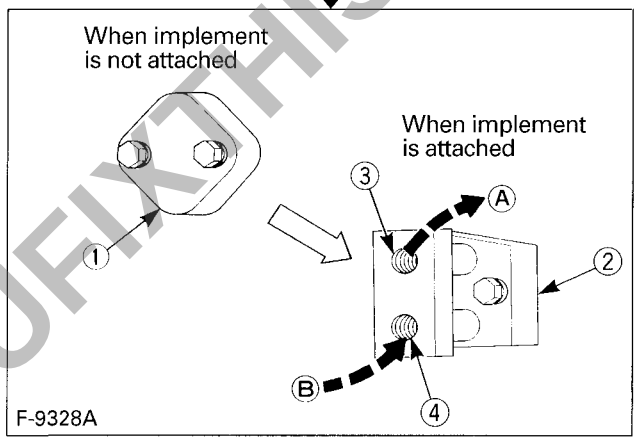
(1) Block cover
(2) Block outlet cover (option)
(3) Outlet
(4) Inlet
(5) Hydraulic block
(A) From gear pump
(B) To implement inlet
Max. flow
24.4 L/min
(6.4 U.S.gals./min)
No relief valve in the hydraulic block.
(C) From implement outlet

IMPORTANT:
- For mid outlet, be sure to use the control valve of the "Power beyond type" (with relief valve that has a third line return to tank).

NOTE:
- The "tank" port flow from implement valve should be connected to the port located on the right hand side of transmission case.

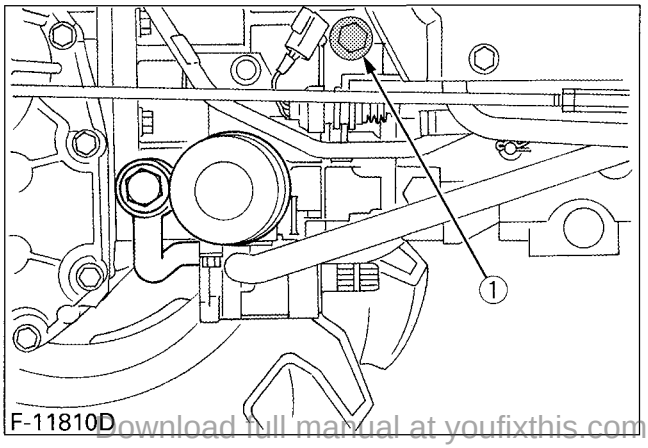
【Rear outlet】【Except B7800】





(1) Block cover
(2) Block outlet cover (option)
(3) Outlet
(4) Inlet
(A) To implement inlet
Max. flow
24.4 L/min
(6.4 U.S.gals./min)
Max. pressure
13.2 to 13.7 MPa
(135 to 140 kgf/cm²
1920 to 1992 psi)
(B) From implement outlet

NOTE:
- If the implement control valve has a relief valve, the tank port flow from implement should be connected to the port located on the right hand side of transmission case.



(1) Return port

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IMPORTANT:
- The jobs indicated by ◎must be done after the first 50 hours of operation.

*1 Air cleaner should be cleaned more often in severe dusty conditions.
*2 Every year or after 6 cleanings.
*3 Replace only if necessary.
*4 Consult your local KUBOTA Dealer for this service.
*5 When the battery is used for less than 100 hours per year, check the fluid level annually.

- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction. Please see the Warranty Statement in detail.

LUBRICANTS

<table>
<tr><th rowspan="2">No.</th><th rowspan="2">Locations</th><th>Capacities</th><th colspan="2" rowspan="2">Lubricants</th></tr>
<tr><th>B2710·B2910·B7800</th></tr>
<tr><td>1</td><td>Fuel</td><td>26 L (6.9 U.S.gals.)</td><td colspan="2">No.2-D diesel fuel
No.1-D diesel fuel if temperature is below −10°C (14°F)</td></tr>
<tr><td>2</td><td>Coolant
(with recovery tank)</td><td>4.5 L (4.7 U.S.qts.)</td><td colspan="2">Fresh clean water with anti-freeze</td></tr>
<tr><td>3</td><td>Engine crankcase</td><td>4.1 L (4.3 U.S.qts.)</td><td colspan="2">• Engine oil : API Service Classification CD, CE or CF
<table><tr><td>Above 25°C (77°F)</td><td>SAE30, SAE10W-30 or 15W-40</td></tr><tr><td>0 to 25°C (32 to 77°F)</td><td>SAE20, SAE10W-30 or 15W-40</td></tr><tr><td>Below 0°C (32°F)</td><td>SAE10W,SAE10W-30 or 15W-40</td></tr></table></td></tr>
<tr><td>4</td><td>Transmission case</td><td>14.5 L (3.83 U.S.gals.)</td><td colspan="2">•KUBOTA UDT or SUPER UDT fluid*</td></tr>
<tr><td>5</td><td>Front axle case</td><td>4.5 L (4.7 U.S.qts.)</td><td colspan="2">• KUBOTA UDT or SUPER UDT fluid* or SAE80·SAE90 gear oil</td></tr>
<tr><td rowspan="5">6</td><td>Greasing</td><td>No.of greasing points</td><td>Capacity</td><td>Type of grease</td></tr>
<tr><td>Top link</td><td>1</td><td rowspan="3">Until grease overflows.</td><td rowspan="4">Multipurpose Grease NLGI-2 OR NLGI-1 (GC-LB)</td></tr>
<tr><td>Lift rod【RH】</td><td>1</td></tr>
<tr><td>Speed control pedal</td><td>1</td></tr>
<tr><td>Battery terminal</td><td>2</td><td>moderate amount</td></tr>
</table>

NOTE: * KUBOTA UDT or SUPER UDT fluid ···KUBOTA Original Transmission hydraulic fluid

NOTE:
- Engine oil:
  Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- Lubricating oil:
  With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the CF, CD or CE lubricating oil with a high total base number. **If the CF-4 or CG-4 lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals.**
- Lubricating oil recommended when a low-sulfur or high-sulfur fuel is employed.

○: Recommendable ×: Not Recommendable

Lubricating oil class	Fuel		Remark
	Low-sulfur	High-sulfur	
CF	○	○	TBN≧10
CF-4	○	×	
CG-4	○	×	

- Transmission oil:
  The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and complete lubrication of the transmission, it is important that a multi-grade transmission fluid be used in this system. We recommend the use of **KUBOTA SUPER UDT fluid** for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.) Do not mix different brands or grades.
- Indicated capacity of water and oil are manufacturer's estimate.

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