U.S.A. : **KUBOTA TRACTOR CORPORATION**
1000 Kubota Drive, Grapevine, TX 76051
Telephone : 888-4KUBOTA

Canada : **KUBOTA CANADA LTD.**
5900 14th Avenue, Markham, Ontario, L3S 4K4, Canada
Telephone : (905)294-7477

France : **KUBOTA EUROPE S.A.S**
19-25, Rue Jules Vercruysse, Z.I. BP88, 95101 Argenteuil Cedex, France
Telephone : (33)1-3426-3434

Italy : **KUBOTA EUROPE S.A.S Italy Branch**
Via Grandi, 29 20068 Peschiera Borrome (MI) Italy
Telephone : (39)02-51650377

Germany : **KUBOTA (DEUTSCHLAND) GmbH**
Senefelder Str. 3-5 63110 Rodgau /Nieder-Roden, Germany
Telephone : (49)6106-873-0

U.K. : **KUBOTA (U.K.) LTD.**
Dormer Road, Thame, Oxfordshire, OX9 3UN, U.K.
Telephone : (44)1844-214500

Spain : **KUBOTA ESPAÑA S.A.**
Avenida Recomba No.5, Poligno Industrial la Laguna, Leganes, 28914 (Madrid) Spain
Telephone : (34)91-508-6442

Australia : **KUBOTA TRACTOR AUSTRALIA PTY LTD.**
25-29 Permas Way, Truganina, VIC 3029, Australia
Telephone : (61)-3-9394-4400

Malaysia : **SIME KUBOTA SDN. BHD.**
No.3 Jalan Sepadu 25/123 Taman Perindustrian Axis,
Seksyen 25, 40400 Shah Alam, Selangor Darul Ehsan Malaysia
Telephone : (60)3-736-1388

Philippines : **KUBOTA PHILIPPINES, INC.**
232 Quirino Highway, Baesa, Quezon City 1106, Philippines
Telephone : (63)2-422-3500

Taiwan : **SHIN TAIWAN AGRICULTURAL MACHINERY CO., LTD.**
16, Fengping 2nd Rd, Taliao Shiang Kaohsiung 83107, Taiwan R.O.C.
Telephone : (886)7-702-2333

Indonesia : **PT KUBOTA MACHINERY INDONESIA**
Tower A at EightyEight@Kasablanka Lantai 16
Jalan Raya Casablanka Kav. 88, Jakarta 12870 Indonesia
Telephone : (62)-21-29568-720

Thailand : **SIAM KUBOTA CORPORATION CO., LTD.**
101/19-24 Moo 20, Navanakorn Industrial Estate, Tambon Khlongnueng, Amphur Khlongluang,
Pathumthani 12120, THAILAND
Telephone : (66)2-909-0300

Korea : **KUBOTA KOREA CO., LTD.**
41-27, Jayumuyeok-gil, Baeksan-myeon, Gimje-si, Jeollabuk-do, Korea
Telephone : (82)-63-544-5822

India : **KUBOTA AGRICULTURAL MACHINERY INDIA PVT. LTD.**
No.15, Medavakkam Road, Sholinganallur, Chennai-600119, T.N., India
Telephone : (91)44-6104-1500

Vietnam : **KUBOTA VIETNAM CO., LTD.**
Lot B-3A2-CN, My Phuoc 3 Industrial Park, Ben Cat District, Binh Duong Province, Vietnam
Telephone : (84)-650-3577-507

KUBOTA Corporation

English (U.S.A.)
Code No. TD270-1957-4

L3240-3·L3540-3·L3940-3·L4240-3·L4740-3·L5040-3·L5240-3·L5740-3

OPERATOR'S MANUAL

KUBOTA TRACTOR

MODELS **L3240-3·L3540-3·L3940-3**
L4240-3·L4740-3·L5040-3
L5240-3·L5740-3



1AGAWACAP0010

READ AND SAVE THIS MANUAL

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⚠ SAFE OPERATION

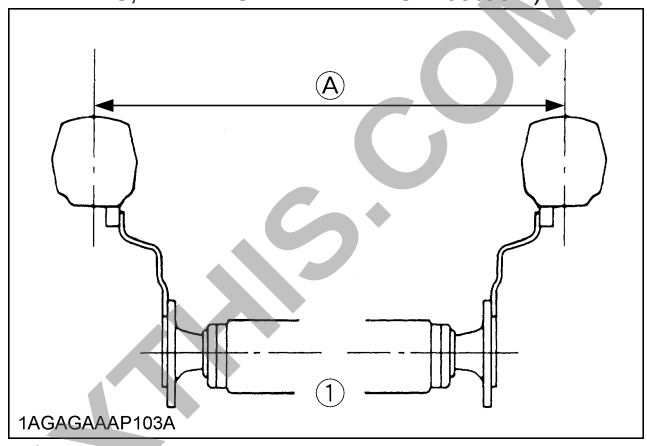
Careful operation is your best insurance against an accident.

Read and understand this manual carefully before operating the tractor.

All operators, no matter how much experience they may have, 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.
3. Do not operate the tractor or any implement attached to it while under the influence of alcohol, medication, controlled substances or while fatigued.
4. Before allowing other people to use your tractor, explain how to operate and have them read this manual before operation.
5. Never wear loose, torn, or bulky clothing around tractor. It may catch on moving parts or controls, leading to the risk of an accident. Use additional safety items, e.g. hard hat, safety boots or shoes, eye and hearing protection, gloves, etc., as appropriate or required.
6. Do not allow passengers to ride on any part of the tractor at anytime. The operator must remain in the tractor seat during operation.
7. Check brakes, clutch, linkage pins 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.)
8. Keep your tractor clean. Dirt, grease, and trash build up may contribute to fires and lead to personal injury.
9. Use only implements meeting the specifications listed under "IMPLEMENT LIMITATIONS" in this manual or implements approved by KUBOTA.
10. Use proper weights on the front or rear of the tractor to reduce the risk of upsets. When using the front loader, put an implement or ballast on the 3-point hitch to improve stability. Follow the safe operating procedures specified in the implement or attachment manual.
11. The narrower the tread, the greater the risk of a tractor upset. For maximum stability, adjust the wheels to the widest practical tread width for your application. (See "TIRES, WHEELS AND BALLAST" section.)



(1) Rear wheels *(A) Tread Width*

12. Do not modify the tractor. Unauthorized modification may affect the function of the tractor, which may result in personal injury.

◆ **CAB, ROPS**

1. KUBOTA recommends the use of a CAB or 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. Check for overhead clearance which may interfere with a CAB or ROPS.
2. Set parking brake and stop engine. Remove any obstruction that may prevent raising or folding of the ROPS. Do not allow any bystanders. Always perform function from a stable position at the rear of the tractor. Hold the top of the ROPS securely when raising or folding. Make sure all pins are installed and locked.
3. If the CAB or ROPS is loosened or removed for any reason, make sure that all parts are reinstalled correctly before operating the tractor.
4. Never modify or repair any structural member of a CAB or ROPS because welding, bending, drilling, grinding, or cutting may weaken the structure.
5. A damaged CAB or ROPS structure must be replaced, not repaired or revised.
6. If any structural member of the CAB or ROPS is damaged, replace the entire structure at your local KUBOTA Dealer.

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SPECIFICATIONS

SPECIFICATION TABLE [HST Type]

Model				L3240	L3540	L3940	L4240	L4740	L5240	L5740
				4WD						
Engine	Model			D1703-M-E3-HST	D1803-M-E3-HST	V2003-M-E3-HST	V2203-M-E3-HST	V2403-M-E3-HST	V2403-M-TE3-HST	
	Type			Indirect injection vertical, water-cooled, 4-cycle diesel						
	Number of cylinders			3		4				
	Total displacement		L (cu. in.)	1.647 (100.5)	1.826 (111.4)	1.999 (122.0)	2.197 (134.0)	2.434 (148.5)		
	Bore and stroke		mm (in.)	87 x 92.4 (3.4 x 3.6)	87 x 102.4 (3.4 x 4.0)	83 x 92.4 (3.3 x 3.6)	87 x 92.4 (3.4 x 3.6)	87 x 102.4 (3.4 x 4.0)		
	Rated revolution		rpm	2700					2600	2700
	Low idling revolution		rpm	900 to 980						
	Net power*		kW (HP)	23.9 (32.0)	26.1 (35.0)	28.7 (38.5)	31.3 (42.0)	35.1 (47.0	38.8 (52.0)	42.5 (57.0)
	PTO power* (factory observed)		kW (HP)/ rpm	18.7 (25.0)/ 2700	20.9 (28.0)/ 2700	23.5 (31.5)/ 2700	26.1 (35.0)/ 2700	29.8 (40.0)/ 2700	33.6 (45.0)/ 2600	37.3 (50.0)/ 2700
	Maximum torque		N-m (ft-lbs.)	101.7 (75.0)	112.8 (83.2)	123.7 (91.2)	139.7 (103.0)	154.3 (113.8)	180.6 (133.2)	
	Battery capacity			12V, RC: 123min, CCA: 490A	12V, RC: 133 min, CCA: 582A					
Capacities	Fuel tank		L (U.S.gals.)	44 (11.6)		50 (13.2)		54 (14.3)		
	Engine crankcase (with filter)		L (U.S.qts.)	5.7 (6.0)	6.7 (7.1)	8.2 (8.7)			9.4 (9.9)	
	Engine coolant		L (U.S.qts.)	6.0 (6.3)	7.5 (7.9)			8.2 (8.7)		
	Transmission case		L (U.S.gals.)	42 (11.1)		43 (11.4)			45 (11.9)	
Dimensions	Overall length (without 3p)		mm (in.)	2920 (115.0)		3085 (121.5)		3145 (123.8)	3210 (126.4)	
	Overall width (min. tread)		mm (in.)	1520 (59.8)		1690 (66.5)			1710 (67.3)	
	Overall height (with ROPS)		mm (in.)	2390 (94.0)		2400 (94.4)		2480 (97.6)	2490 (98.0)	
	Wheel base		mm (in.)	1805 (71.1)		1895 (74.6)			1915 (75.4)	
	Min. ground clearance		mm (in.)	355 (14.0)		370 (14.6)			400 (15.7)	
	Tread	Front	mm (in.)	1155 (45.5)			1300 (51.2)		1340 (52.8)	
		Rear	mm (in.)	1200 (47.2), 1300 (51.2), 1385 (54.5), 1480 (58.3)		1285 (50.6), 1435 (56.5), 1530 (60.2)			1325 (52.2), 1430 (56.3)	
Weight (with ROPS)			kg (lbs.)	1540 (3395)		1645 (3627)	1665 (3671)		1770 (3902)	

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OPERATING THE ENGINE

WARNING

To avoid personal injury or death:

- **Read and understand "Safe Operation" in the front of this manual.**
- **Read and understand the danger, warning and caution labels located on the tractor.**
- **To avoid the danger of exhaust fume poisoning, do not operate the engine in a closed building without proper ventilation.**
- **Never start engine while standing on ground. Start engine only from operator's seat.**
- **Make it a rule to set all shift levers to the "NEUTRAL" positions and to place PTO clutch control switch in "OFF" position before starting the engine.**

IMPORTANT :

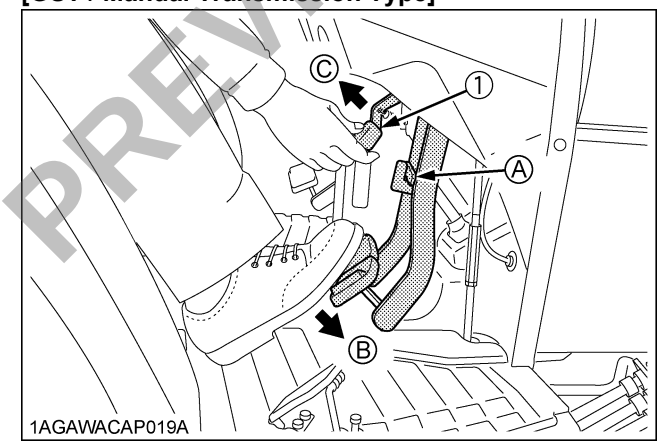
- Do not use starting fluid or ether.
- To protect the battery and the starter, make sure that the starter is not continuously turned for more than 10 seconds.

STARTING THE ENGINE

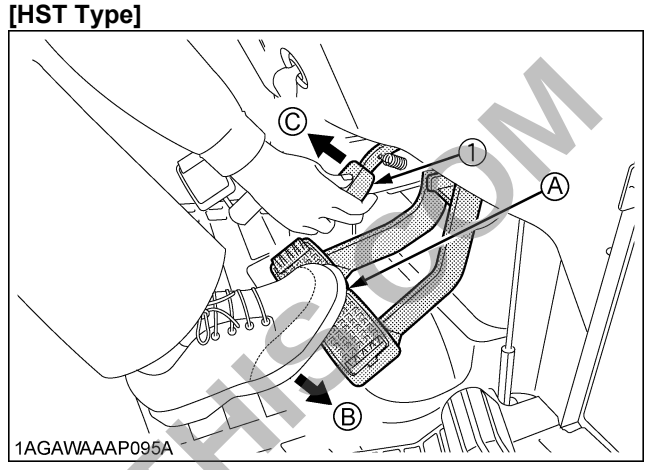
1. Make sure the parking brake is set.

1. 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.
2. To release the parking brake, depress the brake pedals again.

[GST / Manual Transmission Type]



[HST Type]



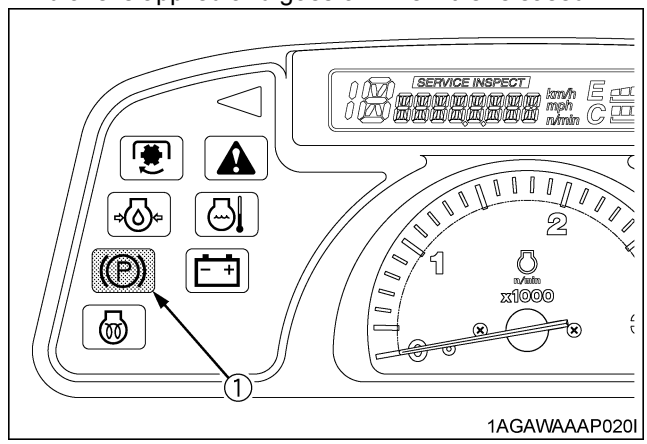
(1) Parking brake lever
(A) Interlock the brake pedals
(B) "DEPRESS"
(C) "PULL"

IMPORTANT :

- To prevent damage to the parking brake lever, make sure that brake pedals are fully depressed before pulling the parking brake lever up.

NOTE :

- The Parking brake indicator comes on while parking brake is applied and goes off when it is released.



(1) Parking brake indicator

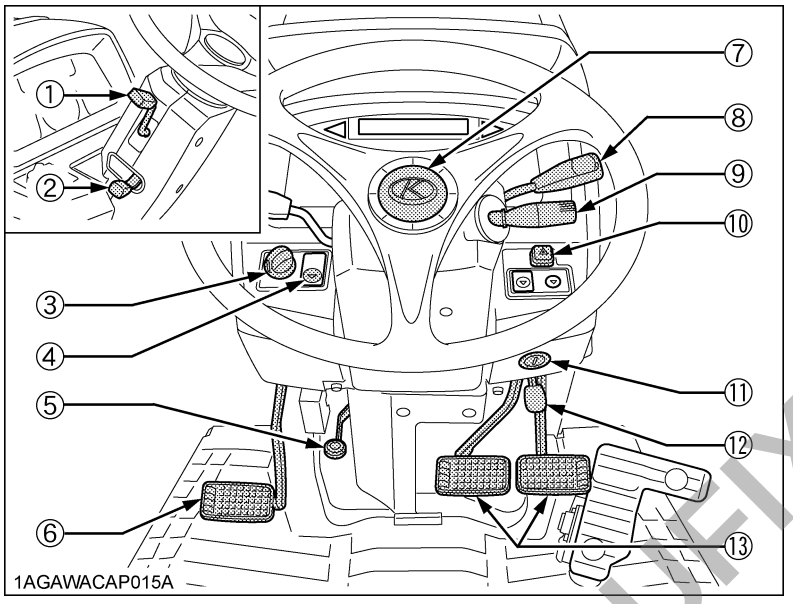
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INSTRUMENT PANEL AND CONTROLS

■ Instrument Panel, Switches and Hand Controls

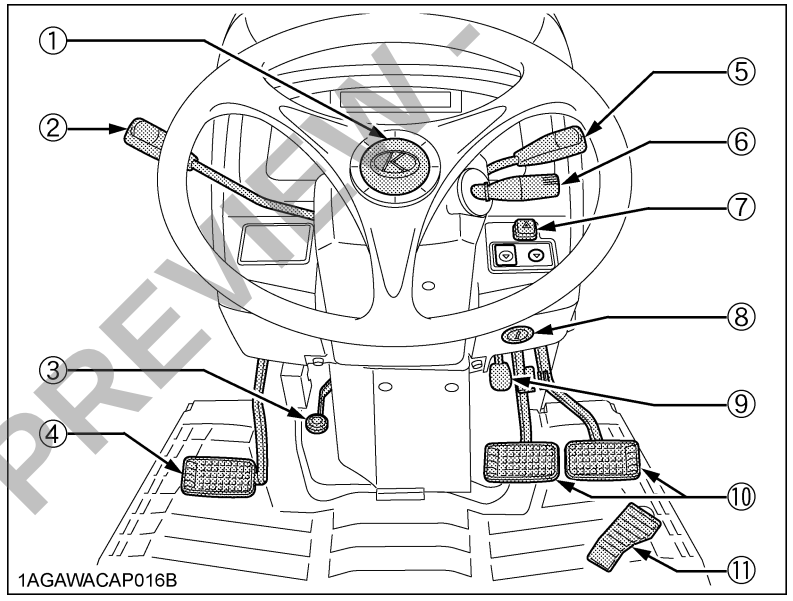
◆ HST Type



ILLUSTRATED CONTENTS

(1) H-DS lever 34
(2) ATA lever 38
(3) HST response control dial 33
(4) HST mode select switch 34
(5) Tilt pedal 29
(6) Clutch pedal 32
(7) Horn button (if equipped) 30
(8) Hand throttle lever 36
(9) Turn signal / Head light switch 30
(10) Hazard light switch 30
(11) Key switch 19
(12) Parking brake lever 19, 36, 49
(13) Brake pedal 31

◆ GST / Manual Transmission Type



ILLUSTRATED CONTENTS

(1) Horn button (if equipped) 30
(2) Shuttle shift lever [GST Type] Synchro-shuttle shift lever [Manual Transmission Type]..... 39, 43
(3) Tilt pedal 29
(4) Clutch pedal 32
(5) Hand throttle lever 42, 45
(6) Turn signal / Head light switch..... 30
(7) Hazard light switch..... 30
(8) Key switch..... 19
(9) Parking brake lever 19, 42, 45, 49
(10) Brake pedal 31
(11) Foot throttle 42, 45

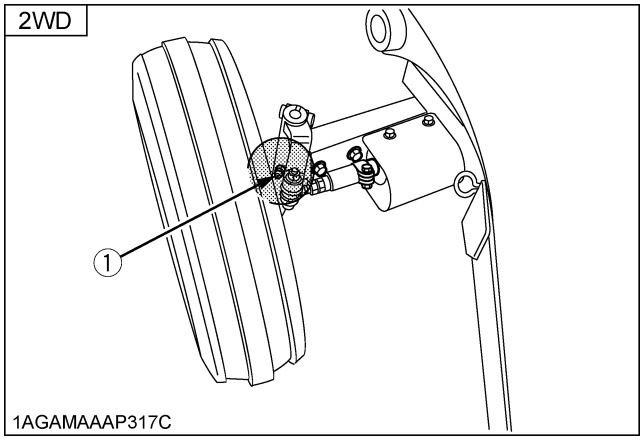
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EVERY 50 HOURS

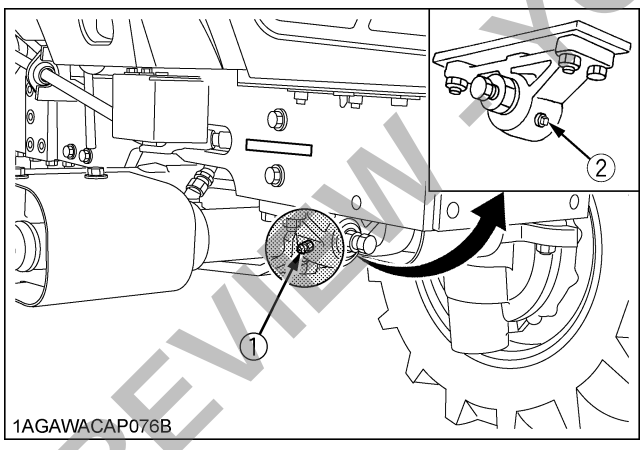
■Lubricating Grease Fittings

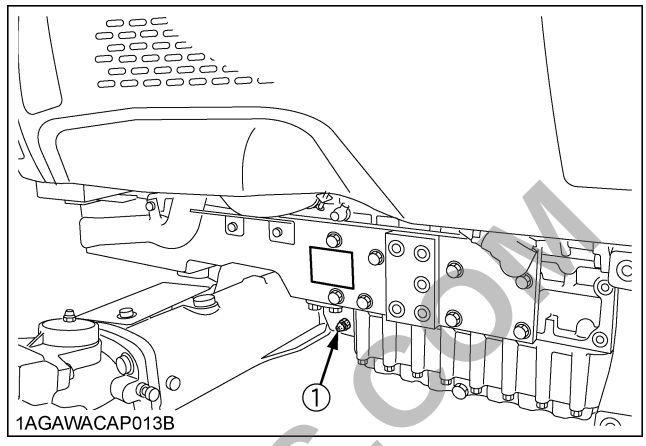
Apply a small amount of multipurpose grease to the following points every 50 hours:
If you operated the machine in extremely wet and muddy conditions, lubricate grease fittings more often.



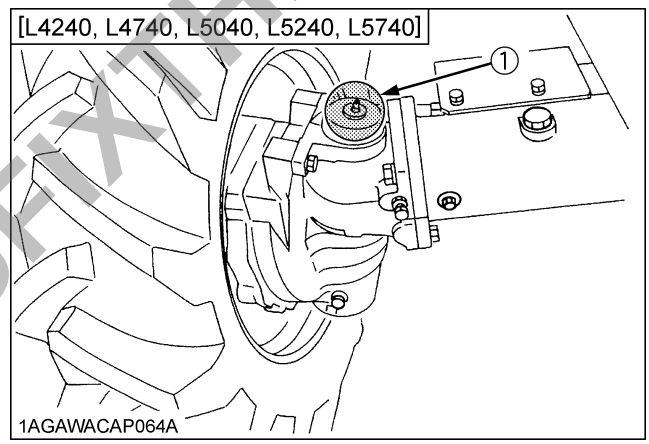
(1) Grease fitting (Knuckle shaft)[RH, LH]

When apply grease to forward front axle support, remove the breather plug and apply grease until grease overflows from breather plug port.
After greasing reinstall the breather plug.

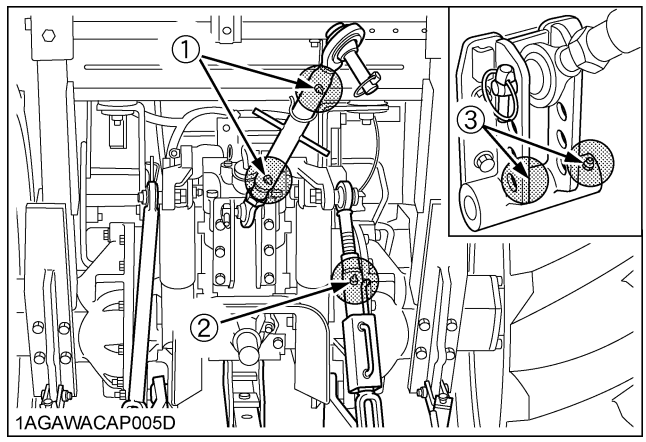




(1) Grease fitting (Front axle support)
(2) Breather plug



(1) Grease fitting (Front wheel case support)[RH, LH]

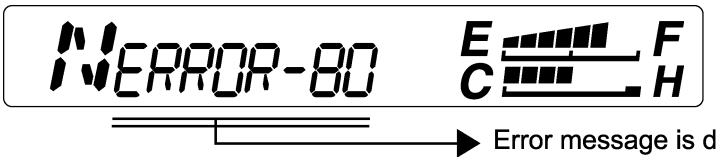


(1) Grease fitting (Top link)
(2) Grease fitting (Lifting rod) [RH]
(3) Grease fitting (Top link bracket)

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HST (Hydrostatic Transmission)
TROUBLESHOOTING



Display on LCD Screen	Trouble Item (Affected Model)	Operator's action
ERROR-80 / SUB MG	Sensor for range gear shift lever is in trouble	Contact your local KUBOTA Dealer. The speed range (H, M and L) is not displayed in the LCD screen. The range gear shift lever still works to select the H, M and L speeds. In selecting M or L, however, the feeling is somewhat different at a start, stop and other actions.
ERROR-81 / PEDAL MG	Sensor for speed control pedal is in trouble	Contact your local KUBOTA Dealer. The speed control pedal cannot be used to run the tractor. The cruise control lever alone serves to run the tractor.
ERROR-82 / HST MG	Sensor for swash plate of HST is in trouble	Contact your local KUBOTA Dealer. The tractor can travel both forward and backward, but with a drop in maximum speed.
ERROR-83 / CRUIS MG	Sensor for cruise control lever is in trouble	Contact your local KUBOTA Dealer. The cruise control does not work. The speed control pedal alone serves to run the tractor.
ERROR-84 / ACCEL MG	Sensor for engine throttle is in trouble	Contact your local KUBOTA Dealer. With the STALL GUARD or AUTO H-DS/STALL GUARD mode being selected, the tractor automatically gets in the MANUAL mode.
ERROR-85 / DIAL MG	HST response control dial is in trouble	Contact your local KUBOTA Dealer. The response control dial cannot be readjusted. The response control dial is automatically set to the medium response level.

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PTO

PTO OPERATION

WARNING

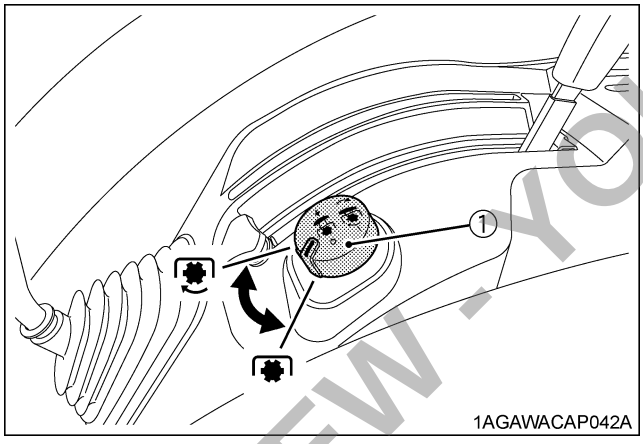
To avoid personal injury or death:

- **Disengage PTO, stop engine, and allow all rotating components to come to a complete stop before connecting, disconnecting, adjusting, or cleaning any PTO driven equipment.**

■PTO Clutch Control Switch

1. The tractor has a 540 rpm speed position and 6-spline shaft.
2. The PTO clutch control switch engages or disengages the PTO clutch which gives the PTO independent control.

Turn the switch to "ON" to engage the PTO clutch. Turn the switch to "OFF" to disengage the PTO clutch.

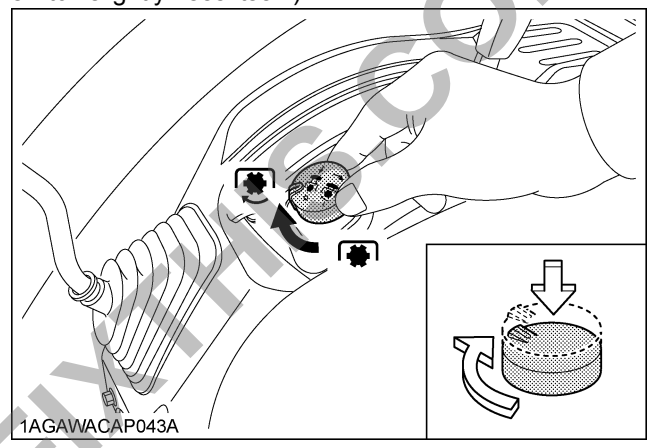


(1) PTO clutch control switch "ON" "OFF"

◆ **PTO Clutch Control Switch**

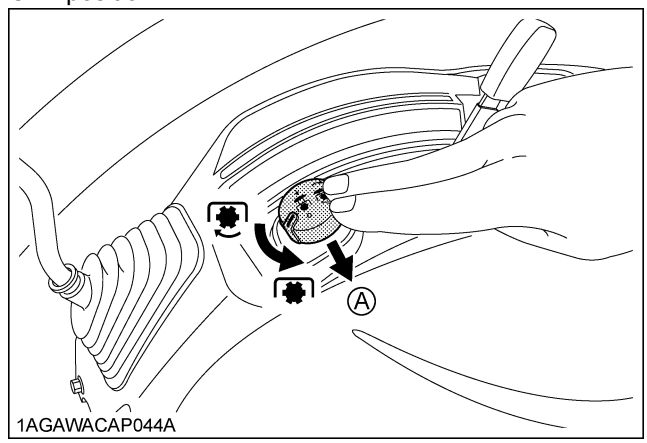
To turn ON

While pushing the switch, turn clockwise to the "" position and release your hand. (In the ON position, switch slightly rises itself.)



To Turn OFF

Tap on top of the switch, and the switch will return to the OFF position.



(A) "PUSH"

IMPORTANT :

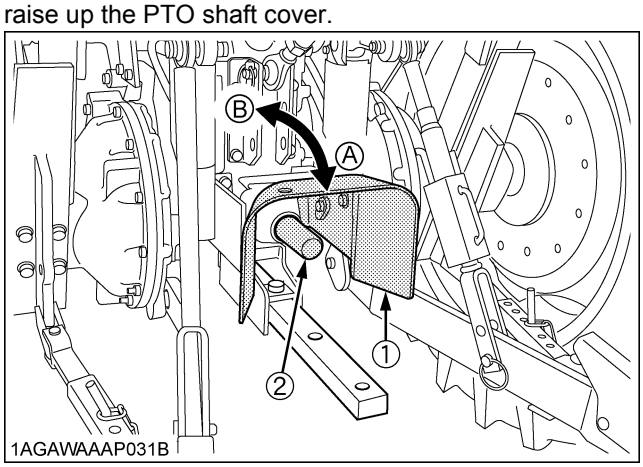
- To avoid shock loads to the PTO, reduce engine speed when engaging the PTO, then open the throttle to the recommended speed.
- To avoid damage of PTO clutch and implement, proper warm up is strongly recommended in cold weather.
  Do not continuously turn the PTO clutch control switch.

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■PTO Shaft Cover and Shaft Cap

Keep the PTO shaft cover in place at all times.
Replace the PTO shaft cap when the shaft is not in use.
When connecting or disconnecting the joint to PTO shaft, raise up the PTO shaft cover.

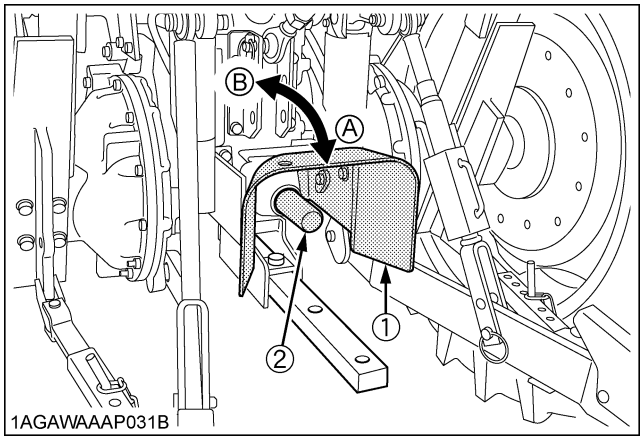


(1) PTO shaft cover
(2) PTO shaft cap
(A) "NORMAL POSITION"
(B) "RAISED POSITION"

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2. Keep the PTO shaft cover in place at all times. Replace the PTO shaft cap when the shaft is not in use.

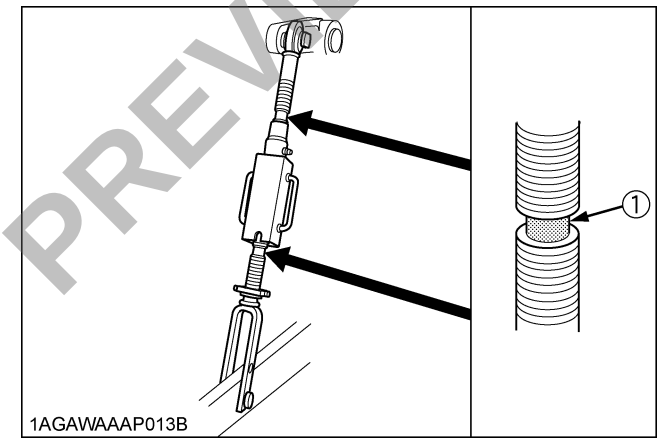


(1) PTO Shaft cover *(A) "NORMAL POSITION"*
(2) PTO Shaft cap *(B) "RAISED POSITION"*

3. Before installing or using PTO driven equipment, read the manufacturer's manual and review the safety labels attached to the equipment.
4. When operating stationary PTO driven equipment, always apply the tractor parking brake and place chocks behind and in front of the rear wheels. Stay clear of all rotating parts. Never step over rotating parts.

5. USING 3-POINT HITCH

1. Use the 3-point hitch only with equipment designed for 3-point hitch usage.
2. When using a 3-point hitch mounted implement, be sure to install the proper counterbalance weight on the front of the tractor.
3. To avoid injury from separation:
   Do not extend lift rod beyond the groove on the threaded rod.

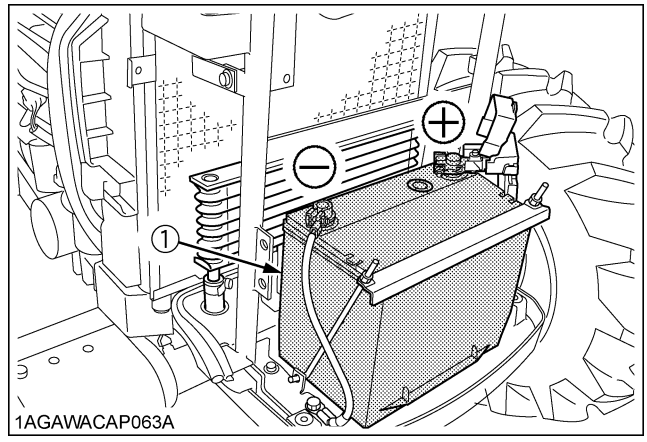


(1) Groove

6. SERVICING THE TRACTOR

Before servicing the tractor, park it on a firm, flat and level surface, set the parking brake, lower all implements to the ground, place the gear shift lever in neutral, stop the engine and remove the key.

1. Allow the tractor time to cool off before working on or near the engine, muffler, radiator, etc.
2. Do not remove radiator cap while coolant is hot. When cool, slowly rotate cap to the first stop and allow sufficient time for excess pressure to escape before removing the cap completely. If the tractor has a coolant recovery tank, add coolant or water to the tank, not the radiator. (See "Checking Coolant Level" in "DAILY CHECK" in "PERIODIC SERVICE" section.)
3. Always stop the engine before refueling. Avoid spills and overfilling.
4. Do not smoke when working around battery or when refueling. Keep all sparks and flames away from battery and fuel tank. The battery presents an explosive hazard, because it gives off hydrogen and oxygen especially when recharging.
5. Before "jump starting" a dead battery, read and follow all of the instructions. (See "JUMP STARTING" in "OPERATING THE ENGINE" section.)
6. Keep first aid kit and fire extinguisher handy at all times.
7. Disconnect the battery's ground cable before working on or near electric components.
8. To avoid the possibility of battery explosion, do not use or charge the refillable type battery if the fluid level is below the LOWER (lower limit level) mark. Check the fluid level regularly and add distilled water as required so that the fluid level is between the UPPER and LOWER levels.
9. To avoid sparks from an accidental short circuit, always disconnect the battery's ground cable (-) first and reconnect it last.



(1) Battery

10. Do not attempt to mount a tire on a rim. This should be done by a qualified person with the proper equipment.

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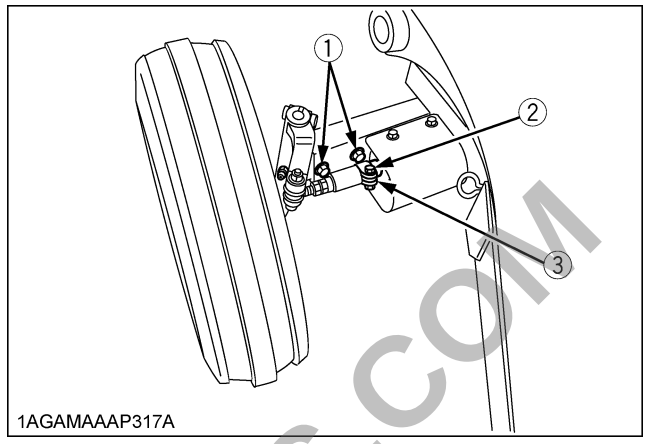
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■Front Wheels (with 2-wheel drive)

Front tread width can be adjusted as shown with the standard equipped tires.

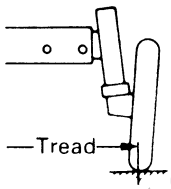
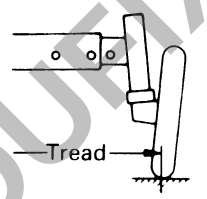
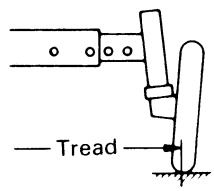
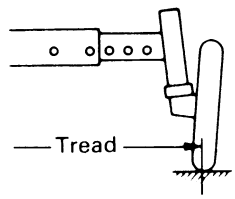
To change the tread width

1. Remove the front axle mounting bolts and the tie-rod mounting bolts.
2. Move the front axles (right and left) to the desired position, and tighten the bolts.
3. Adjust the toe-in: [2 to 8mm (0.1 to 0.3 in.)]
   (See "Adjusting Toe-in" in "EVERY 200 HOURS" in "PERIODIC SERVICE" section.)



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(1) Front axle mounting bolt
124 to 147 N-m (12.6 to 15 kgf-m) [91.5 to 108.9 ft-lbs.]
(2) Tie-rod mounting bolt
61 to 71 N-m (6.2 to 7.2 kgf-m) [44.8 to 52.1 ft-lbs.]
(3) Tie rod clamp

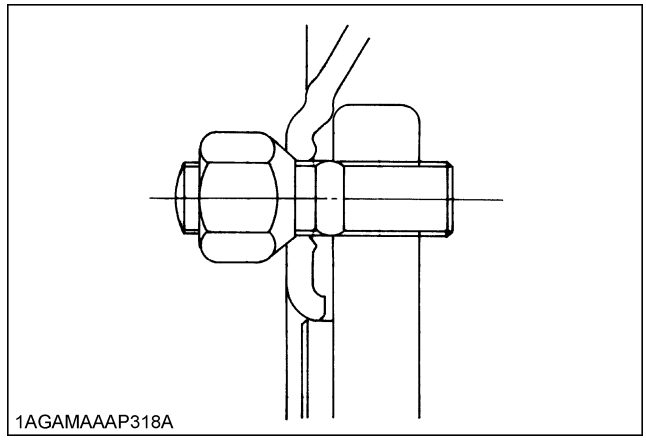
Models					
Farm	**L3240** 6.00-16	1210 mm (47.6 in.)	1310 mm(51.6 in.)	1410 mm (55.5 in.)	1510 mm (59.4 in.)
	L3240 7.5L-15	1280 mm (50.4 in.)	1380 mm (54.3 in.)	1480 mm(58.3 in.)	1580 mm(62.2 in.)
Turf	**L3240** 27 x 10.50-15	1310 mm (51.6 in.)	1410 mm (55.5 in.)	1510 mm(59.4 in.)	1610 mm (63.4 in.)
	L3240 29 x 12.50-15	1315 mm (51.8 in.)	1415 mm (55.7 in.)	1515 mm (59.6 in.)	1615 mm (63.6 in.)

IMPORTANT :

- The front tread width for the front loader application on 2WD models should not be greater than 1310mm (51.6 in.) for L3240.

NOTE :

- Wheels with beveled or tapered holes: Use the tapered side of lug nut.


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