OPERATOR'S MANUAL

KUBOTA TRACTOR



READ AND SAVE THIS MANUAL

Kubota

ABBREVIATION LIST

Abbreviations	Definitions
2000	2 Wheel Drive
4\VD	4 Wheel Dr.ve
API	American Petroleum Institute
ASABE	Amendan Society of Agricultura: and Biological Engineers, USA
ASTM	American Scolety of Testing and Materials, USA
UIN	Deutsches Institut für Normung, GERMANY
٦t	Dual Traction [4WD]
1pm	Foot Por Minute
Hi-Lo	High Speed Low Speed
HST	Hydrostatic Transmission
m/s	Meters Per Second
PTO	Power Take Off
RH/LH	Right-hand and left-hand sides are determined by facing in the direction of forward trave
ROPS	Roll-Over Protective Structures
rpm	Revolutions Per Minute
r/s	Revalutions Per Second
SAE	Society of Automotive Engineers, USA
SMV	Slow Moving Venicle

California Proposition 65

A WARNING A

Engine exhaust, some of its constituents certain vehicle components and fluids, contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

IMPORTANT

The engine in this machine is not equipped by the manufacturer with a standard spark arrester.

It is a violation of California Public Resource Code Section 4442 to use or operate this engine on or near any forest-covered, brush-covered land or grass-covered land unless the exhaust system is equipped with a working spark arrester meeting state laws. Other states or federal areas may have similar laws.

UNIVERSAL SYMBOLS

As a guide to the operation of your tractor, various universal symbols have been utilized on the instruments and controls. The symbols are shown below with an indication of their meaning.



Position Control-Lowered Position

FOREWORD

You are now the proud owner of a KUBOTA Tractor. This tractor is a product of KUBOTA quality engineering and manufacturing. It is made of fine materials and under a rigid quality control system. It will give you long, satisfactory service. To obtain the best use of your tractor, please read this manual carefully. It will help you become familiar with the operation of the tractor and contains many helpful hints about tractor maintenance. It is KUBOTA's policy to utilize as quickly as possible every advance in our research. The immediate use of new techniques in the manufacture of products may cause some small parts of this manual to be outdated. KUBOTA distributors and dealers will have the most up-to-date information. Please do not hesitate to consult with them.



This symbol, the industry's "Safety Alert Symbol", is used throughout this manual and on labels 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 assemble or use this unit.

A

DANGER: Indicates an imminently hazardous situation which, if not

avoided, will result in death or serious injury.

A

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, could result in minor or moderate injury.

IMPORTANT: Indicates that equipment or property damage could result if

instructions are not followed.

NOTE: Gives helpful information.

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SAFE OPERATION

Careful operation is your best insurance against an accident.

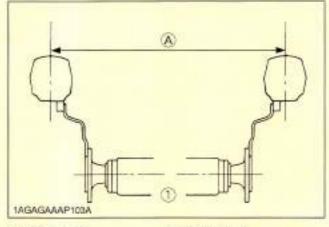
Read and understand this manual carefully before operating the tractor.

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
- 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.
- Before allowing other people to use your tractor. explain how to operate and have them read this manual before operation.
- 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.
- 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.

 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

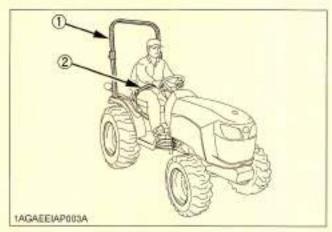
12. Do not modify the tractor. Unauthorized modification may affect the function of the tractor, which may result in personal injury.

CAB, ROPS

- 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. If any structural member of the CAB or ROPS is damaged, replace the entire structure at your local KUBOTA Dealer.
- 6. If the tractor is equipped with a foldable ROPS it may be temporarily folded down only when absolutely necessary for areas with height constraints.
 - (There is no operator protection provided by the ROPS in the folded position. For operator safety the ROPS should be placed in the upright and locked position and the seat belt fastened for all other operations.)

Always use the seat belt if the tractor has a CAB or ROPS.

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.



- (1) ROPS (2) Seat belt
- 2. OPERATING THE TRACTOR

Operator safety is a priority. Safe operation, specifically with respect to overturning hazards, entails understanding the equipment and environmental conditions at the time of use. Some prohibited uses which can affect overturning hazards include traveling and turning with implements and loads carried too high etc. This manual sets forth some of the obvious risks, but the list is not, and cannot be, exhaustive. It is the operator's responsibility to be alert for any equipment or environmental condition that could compromise safe operation.

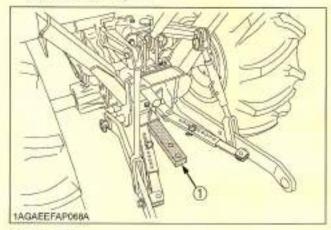
Starting

- Always sit in the operator's seat when starting engine or operating levers or controls. Adjust seat per instructions in the operating the tractor section. Never start engine while standing on the ground.
- Before starting the engine, make sure that all levers (including auxiliary control levers) are in their neutral positions, that the parking brake is engaged, and that both the clutch and the Power Take-Off (PTO) are disengaged or "OFF".
 - Fasten the seat belt if the tractor has a CAB or a foldable ROPS in the upright and locked position.
- 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.
- Do not operate or idle engine in a non-ventilated area.
 Carbon monoxide gas is colorless, odorless, and deadly.

 Check before each use that operator presence controls are functioning correctly. Test safety systems. (See "Checking Engine Start System" in "EVERY 50 HOURS" in "PERIODIC SERVICE" section.)
 Do not operate unless they are functioning correctly.

Working

 Pull only from the drawbar. Never hitch to axle housing or any other point except drawbar; such arrangements will increase the risk of serious personal injury or death due to a tractor upset.



(1) Drawbar

- For trailing PTO-driven implements, set the drawbar to the towing position.
- 3. Attach pulled or towed loads to the drawbar only.
- Keep all shields and guards in place. Replace any that are missing or damaged.
- Avoid sudden starts. To avoid upsets, slow down when turning, on uneven ground, and before stopping.
- The tractor cannot turn with the differential locked and attempting to do so could be dangerous.
- Do not operate near ditches, holes, embankments, or other ground surface features which may collapse under the tractor's weight. The risk of tractor upset is even higher when the ground is loose or wet. Tall grass can hide obstacles, walk the area first to be sure.
- Watch where you are going at all times. Watch for and avoid obstacles. Be alert at row ends, near trees, and other obstructions.
- When working in groups, always let the others know what you are going to do before you do it.
- Never try to get on or off a moving tractor.
- Always sit in the operator's seat when operating levers or controls.
- Do not stand between tractor and implement or trailed vehicle unless parking brake is applied.

Safety for children

Tragedy can occur if the operator is not alert to the presence of children. Children generally are attracted to machines and the work they do.

 Never assume that children will remain where you last saw them.

- 2. Keep children out of the work area and under the watchful eye of another responsible adult.
- 3. Be alert and shut your machine down if children enter the work area.
- 4. Never carry children on your machine. There is no safe place for them to ride. They may fall off and be run over or interfere with your control of the machine.
- 5. Never allow children to operate the machine even under adult supervision.
- 6. Never allow children to play on the machine or on the implement.
- Use extra caution when backing up. Look behind and down to make sure area is clear before moving.

Operating on slopes

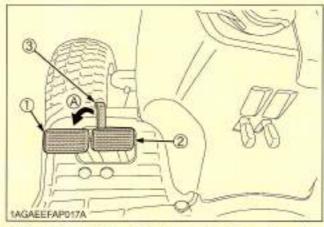
Slopes are a major factor related to loss-of-control and tipover accidents, which can result in severe injury or death. All slopes require extra caution.

- 1. To avoid upsets, always back up steep slopes. If you cannot back up the slope or if you feel uneasy on it, do not operate on it. Stay off slopes too steep for safe operation.
- 2. Driving forward out of a ditch, mired condition or up a steep slope increases the risk of a tractor to be upset backward. Always back out of these situations. Extra caution is required with 4-wheel drive models because their increased traction can give the operator false confidence in the tractor's ability to climb slopes.
- 3. Keep all movement on slopes slow and gradual. Do not make sudden changes in speed, direction or apply brake and make sudden motions of the steering wheel.
- 4. Avoid disengaging the clutch or changing gears speed when climbing or going down a slope. If on a slope disengaging the clutch or changing gears to neutral could cause loss of control.
- 5. Special attention should be made to the weight and location of implements and loads as such will affect the stability of the tractor.
- 6. To improve stability on slope, set widest wheel tread as shown in "TIRES, WHEELS AND BALLAST"

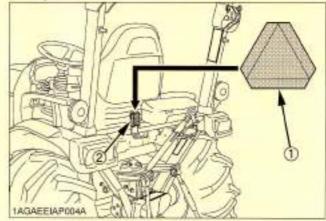
Follow recommendations for proper ballasting.

Driving the tractor on the road

1. Lock the 2 brake pedals together to help assure straight-line stops. Uneven braking at road speeds could cause the tractor to tip over.

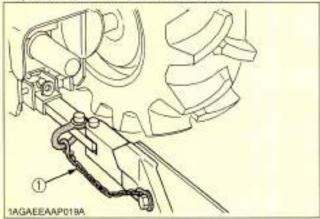


- (1) Brake Pedal (LH)
- (A) Whenever travelling on the road
- (2) Brake Pedal (RH)
- (3) Brake Pedal Lock
- 2. Check the front wheel engagement. The braking characteristics are different between 2 and 4-wheel drive. Be aware of the difference and use carefully.
- 3. Always slow the tractor down before turning. Turning at high speed may tip the tractor over.
- 4. Make sure that the Slow Moving Vehicle (SMV) sign is clean and visible. Use hazard lights and turn signals as required.



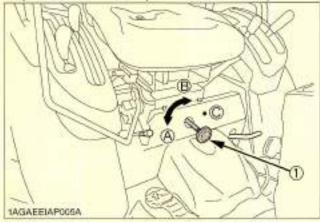
- (1) SMV emblem
- (2) Bracket
- Observe all local traffic and safety regulations.
- 6. Turn the headlights on. Dim them when meeting another vehicle.
- Drive at speeds that allow you to maintain control at all
- 8. Do not apply the differential lock while traveling at road speeds. The tractor may run out of control.
- 9. 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.

- Keep the ROPS in the "UP" position and wear the seat belt when driving the tractor on the road.
 - Otherwise, you will not be protected in the event of a tractor roll-over.
- 11. Do not operate an implement while the tractor is on the road. Lock the 3-point hitch in the raised position.
- When towing other equipment, use a safety chain and place an SMV emblem on it as well.



(1) Safety chain

13. Set the implement lowering speed knob in the "LOCK" position to hold the implement in the raised position.



(1) 3-point hitch lowering speed knob.

- (A) "FAST"
- (B) "SLOW"
- (C) "LOCK"

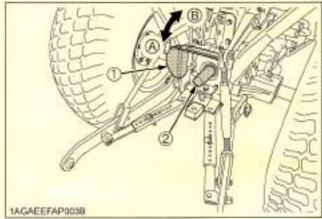
3. PARKING THE TRACTOR

- Disengage the PTO, lower all implements to the ground, place all control levers in their neutral positions, set the parking brake, stop the engine, remove the key from the ignition and lock the cab door (if equipped). Leaving transmission in gear with the engine stopped will not prevent tractor from rolling.
- Make sure that the tractor has come to a complete stop before dismounting.

- Avoid parking on steep slopes, if at all possible park on a firm and level surface; if not, park across a slope with chock the wheels.
 - Failure to comply with this warning may allow the tractor to move and could cause injury or death.

4. OPERATING THE PTO

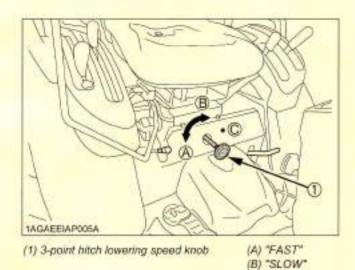
- Wait until all moving components have completely stopped before getting off the tractor, connecting, disconnecting, adjusting, cleaning, or servicing any PTO driven equipment.
- Keep the PTO shaft cover in place at all times. Replace the PTO shaft cap when the shaft is not in use.



- (1) PTO Shaft cover (2) PTO Shaft cap
- (A) "NORMAL POSITION" (B) "RAISED POSITION"
- Before installing or using PTO driven equipment, read the manufacturer's manual and review the safety
- 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

- Use the 3-point hitch only with equipment designed for 3-point hitch usage.
- When using a 3-point hitch mounted implement, be sure to install the proper counterbalance weight on the front of the tractor.
- When transporting on the road, set the implement lowering speed knob in the "LOCK" position to hold the implement in the raised position.



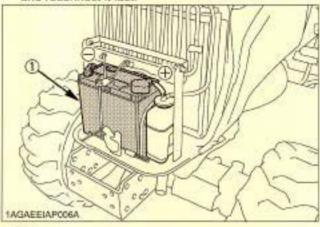
6. SERVICING THE TRACTOR

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.

(C) "LOCK"

- 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.
- 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.
- 11. Always maintain the correct tire pressure. Do not inflate tires above the recommended pressure shown in the operator's manual.

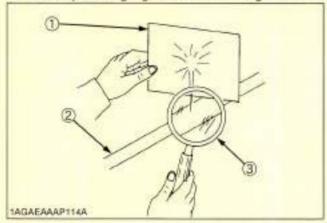


- 12. Securely support the tractor when either changing wheels or adjusting the wheel tread width.
- 13. Make sure that wheel bolts have been tightened to the specified torque.
- 14.Do not work under any hydraulically supported devices. They can settle, suddenly leak down, or be accidentally lowered. If it is necessary to work under tractor or any machine elements for servicing or adjustment, securely support them with stands or suitable blocking beforehand.

15. Escaping hydraulic fluid under pressure has sufficient force to penetrate skin, causing serious personal injury. Before disconnecting hydraulic lines, be sure to release all residual pressure. Before applying pressure to the hydraulic system, make sure that all connections are tight and that all lines, pipes, and hoses are free of damage.



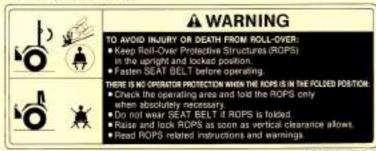
16. Fluid escaping from pinholes may be invisible. Do not use hands to search for suspected leaks; use a piece of cardboard or wood. Use of safety goggles or other eye protection is also highly recommended. If injured by escaping fluid, see a medical doctor at once. This fluid will produce gangrene or severe allergic reaction.



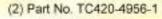
- (1) Cardboard
- (2) Hydraulic line
- (3) Magnifying glass

7. DANGER, WARNING AND CAUTION LABELS

(1) Part No. TA240-9848-2



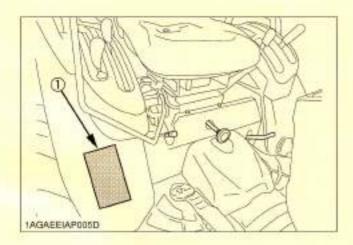
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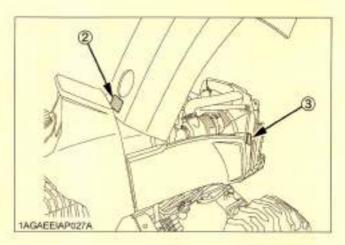




(3) Part No. 6C090-4958-2 Do not get your hands close to engine fan and fan belt.







(1) Part No. 6C200-4959-1



1AGAECEAP013E

(3) Part No. 6C430-4965-1



Never start engine while standing on the ground

tAGAFFAAROOSA

(2) Part No. 6C540-9554-1

A WARNING

Never modify of repair a ROPS because welding, grinding, drilling or cutting any portion may weaken the structure.

A WARNING

TO AVOID PERSONAL MUSE!
OR SOLDING ROPS:
Sel parking brake and stop engine.
Remove any obstruction that may prevent raising or felding of the ROPS.
Do not allow any bystanders.
Always perform function from a stable position at the rear of the ROPS securely when raising or felding.
Make sure all pens are installed and torked.

1AGAEEIAP036A

(4) Part No. 6C430-4959-1 Do not touch hot surface like muffler, etc.



1AGAEEAAPC02A

(5) Part No. 6C090-4958-2 Do not get your hands close to engine fan and fan belt.

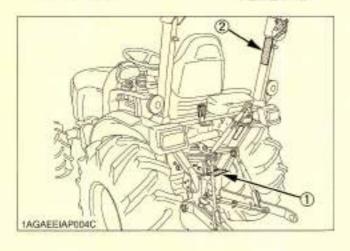


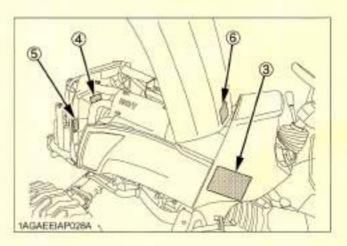
(6) Part No. 6C300-4744-1

AWARNING

Operation of this equipment may create sparks that can start fires around dry vegetation. A spark amester may be required. The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements.

1AGAIHFAP066A





(1) Part No. 6C300-3012-2



AGAEBOAP107A

(2) Part No. 6C540-4742-1

WARNING TO AVOID PERSONAL INJURY OF DEATH:

- Avoid PERSONAL INJURY OR DEATH:
 Read and understand the operators manual before operation.
 Before starting the engine, make sure that everyone is at a safe distance from the tractor and that the PTO is OFF.
 Do not allow passengers on the tractor at any time.
 Before allowing other people to use the tractor, have them read the operator's manual.
 Check the tightness of all nuts and botts regularly.
 Keep all shields in place and stay away from all moving parts.
 Lock the two brake pedals together before driving on the read.
 Slow down for turns, or rough reads, or when applying individual brakes.

- Slow down for turns, or rough roads, or when applying individual brakes.
 On public roads use SMV ambiem and hazard lights, if required by local traffic and safety regulations.
- 10
- Pull only from the drawbar.
 Before dismounting, lower the implement to the ground, set the parking trake, stop the engine and remove the key.
 Securely support tractor and implements before working underneath.

TAGAEEIAP035A

(3) Part No. 6C150-4743-1



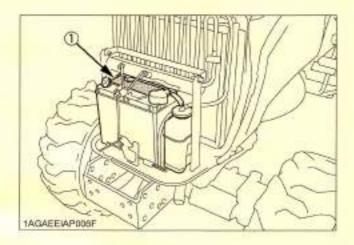
BEFORE DISMOUNTING TRACTOR:

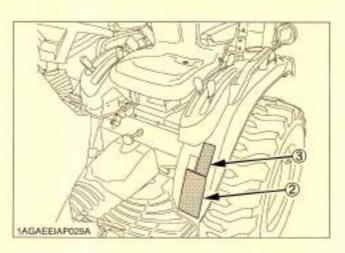
Lasting transmission in gear with the engine stopped will not prevent tractor from rolling.

- 2. PARK ON LEVEL GROUND WHENEVER POSSIBLE If parking on a slope, position tractor ECross the slope.

 3. LOWER ALL IMPLEMENTS TO THE CROUND.
- 4 STOP THE ENGINE.

AGAEBMAP069E





8. CARE OF DANGER, WARNING AND CAUTION LABELS

- Keep danger, warning and caution labels clean and free from obstructing material.
- 2. Clean danger, warning and caution labels with soap and water, dry with a soft cloth.
- 3. Replace damaged or missing danger, warning and caution labels with new labels from your local KUBOTA Dealer.
- If a component with danger, warning and caution label(s) affixed is replaced with new part, make sure new label(s) is (are) attached in the same location(s) as the replaced component.
- Mount new danger, warning and caution labels by applying on a clean dry surface and pressing any bubbles to outside edge.

SERVICING OF TRACTOR

Your dealer is interested in your new tractor and has the desire to help you get the most value from it. After reading this manual thoroughly, you will find that you can do some of the regular maintenance yourself.

However, when in need of parts or major service, bo sure to see your KUBOTA Dealer.

For service, contact the KUBOTA Dealership from which you purchased your tractor or your local KUBOTA Dealer. When in need of parts, be prepared to give your dealer the tractor, CAB/ROPS and engine serial numbers.

Locate the serial numbers now and record them in the space provided.

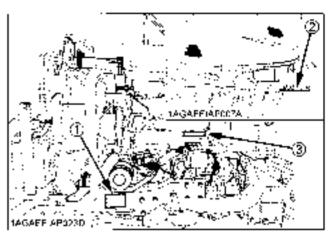
Г · 	Туре	Ser al No.
Tractor		
CAB / ROPS		
Engine		
Date of Purchase		
Name of Dealer		
(To be fided in by purc	haseri	

Warranty

This tractor is warranted under the KUROTA Limited Express Warranty, a copy of which may be obtained from your selling dealer. No warranty shall, however, apply if the tractor has not been handled according to the instruction given in the Operator's Manual even 4 is within the warranty period.

Scrapping the tractor and its procedure.

To put the tractor out of service, correctly follow the local rules and regulations of the country or territory where you scrap it. If you have questions, consult your local KUBOTA Dealer



- (1) Tractor identification diste-
- (2) Tracker stellal marther
- (3) Engine senal rumber



(f) ROPS identification (ROPS Sensi No.)

SPECIFICATIONS

SPECIFICATION TABLE

_	M	odel		B2301HSD	B2601HSO
PTO power			kW (HP)	13 8 (17.5)*	14,5 (19.5)7
	Maker			KU	ВОТА
	Madel			D1005-E4-D32	01105-E4-032
	Турв			E-TVCS, liquid cox	aled, 3-cylinder dlesel
	Number of a	ylinders			3
	Bore and str	oke	mm (in.)	Ø76x73.6 (Ø3.0x2.9)	Ø78x78.4 (₱3.1x3.1)
Engline	Total displac	ement	st (auth.)	1991 (61.1)	1123 (88.5)
	Engine gross	power	kW (HP)	16 4 (22)*	19.0 (25.5)*
	Rated revolu	lion	thu.	2	2800
	Low idling re	valution	rpm 1	1000	to 1100
	Maximum to	dne	N-m (ft-lb)	60 (44)	71 (52)
	Battery			12V, RC 80	miri, CGA 430A
	Fuel tank		L (U.S.gals.)	23	(6.1)
Capacities	Engine crankcase (with litter) L (U.S qts.)		3.1 (3.3)		
	Engine coolant L (U.S.qts.)		3.8 (4.0)		
	Transmission case L (U.S.ga		L (U.S.gals.)	15 (4.0)	
	Overall length (without 3P)		mm (in.)	2380 (93.7)	2410 (94.9)
	Overall width (min. tread)		mm (in.)	1150 (45.3)	1245 (49.0)
	Overall height		mm (in.)	2130 (83.9)	2160 (85.0)
Cimensions	Wheel base		mm (in.)	1560 (01.4)	
	Minimum gro	ound clearance	mm (in.)	305 (12.0)	325 (12.8)
	Tread	Fract	mm (in.)	800 (31,5)	815 (32.1)
	111000	Ruar	mm (m.)	900 (35.5)	950 (37.4)
Weight			kg (bs.)	710 (1566)	740 (1632)
วิเมียก				Not a	ppi cable
	Tires	Front		6-12	7-12
	Rear		9 5-16	11.2-16	
fraveling	Steering	Steering		Hydrostatic type power sleering	
system	Transmission			HST (3 ranges)	
	Brake			Dry single plate	
	Minimum turi (with brake)	ning rad us	m (feet)	2.1 (6.9)	

	Мог	đel		B2301HSD	B2601HSD
	Hydraulic control system			Position control	
	Pump capacity		E / mio (ga.s (mio)	31.4	(8.3)
Hydrau ic unit	3-paint hitch			SAE Ca	tegory 1
	At lift points	kg (lhs.)	ô20 (1806)	
	Max. lift force 24 n.behind lift point		kg (lbs.)	640 (1411)
	Ruar-PTO	'		SAE 1-3/8	, 6 splines
ura	PTO / Engine speed		rpm		eed 2768
htů.	Mid-PTO			USA No. 5 (KUBOTA 1	C-tooth) involute spline
	PTC / Engine:	speed	npm .		need / 2753

NOTE: * SAE J1995 The company reserves the right to change the specifications without notice.

TRAVELING SPEEDS

(At rated engine rom)

	Model	B230	*HSD
Т-	e size (Rear)	9.5 - 10 Farm / 33 x 12.5 -	15 Turf / 12 - 16.5 Industry
	Range gear shill lever	km / h	mph
	Low	0 to 5.0	0 to 3.5
Eprwant	Middle	O to R B	0 to 5 5
	High	0 to 19.1	0 to 11.8
	Law	O to 4.2	0 to 2.6
Reverse	Middle	O to H K	0 tn 4 1
	High	0 to 14.3	0 to 8.9

	Model	B2601HSD				
Tır s	Tire size (Rear)		11.2 - 16 Farm		33 x 12.5 - 15 Turf / 12 - 16.5 Industry	
	Range gear shift lever	km7h	nph	km / h	mph	
•	Low	II la 6.0	II to 3.7	II 1o 5.6	II to 3.5	
Forward	Midd e	0 to 9.5	0 to 5.9	8.8 oi 0	0 to 5.ნ	
	High:	0 to 2H 4	0 to 12 7	0 to 19 1	0 to 11 K	
	LOW	0 to 4.5	0 to 2.8	0 to 4.2	0 to 2.6	
Reverse	Midd e	0 to 7.1	II to 4.4	11 10 6 6	II lo 4.1	
	High	0 to 15.3	0.0 o 0.5	0 to 14.3	0 to 8.9	

The company reserves the right to change the specification without notice

IMPLEMENT LIMITATIONS

The KUBOTA Tractor has been thoroughly tested for proper performance with implements sold or approved by KUBOTA. Use with implements which are not sold or approved by KUBOTA and which exceed the maximum specifications listed below, or which are otherwise unfit for use with the KUBOTA Tractor may result in malfunctions or failures of the tractor, damage to other property and injury to the operator or others. [Any mailunctions or lailures of the tractor resulting from use with improper implements are not covered by the warranty.]

	Tread (max width)	with farm lines	Lower link end max.
	Front	Rear	loading weight WO
B2301HSD	800 mm (31.5 n.)	900 mm (35.4 m.)	- 300 kg (680 lbs.)
B2601MSD	815 mm (32,1 in.)	950 mm (37.4 in.)	- sou kg (ontrius)
		Actual figures	
B2301 B2601	Implement weight W1 and / or size	Max. Drawbar Load W2	Traker loading weight W3 Max capacity
520Q1 .	As in the following list (Shown on the next page)	300 kg (660 lbs.)	1000 xg (2210 lbs)
limplement weight Max. drawbar lead	the max. allows	s weight which can be put on t	the lower link : W1

NOTE:

- Implement size may vary depending on soil operating conditions.
- Strictly follow the instructions outlined in the operator's manual of the mounted or trailed machinery or trailer, and do not operate the combination tractor, machine or tractor, trailer unless all instructions have been followed.
- Forestry Application
 - ho lowing hazards exist.
 - (a) toppling trees, primarily in case a rear-mounted tree grab-crane is mounted at the rear of the tractor
 - (b) penetraling objects in the operator's enclosure, primarily in case a winch is mounted at the rear of the tractor. Optional equipments such as OPS (Operator Protective Structure), FOPS (Falling Object Protective Structure), etc. to deal with these hazards and other related hazards are not available for this tractor. Without such optional equipment use is limitful to tractor specific applications like transport and stationary work.

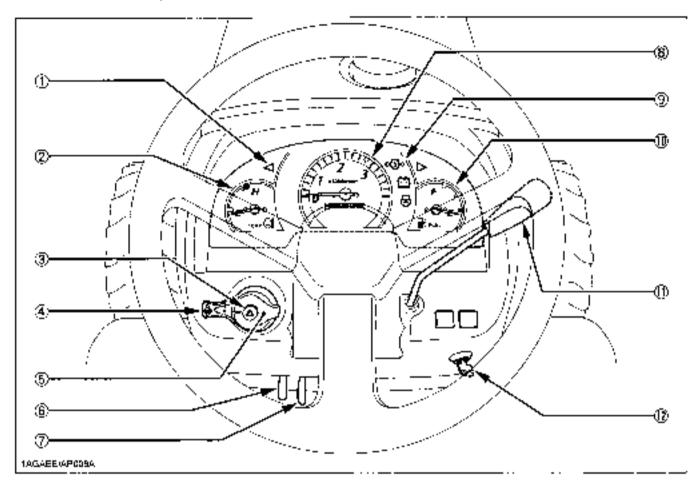
lm	plement	Remarks	· ·	B2301	B 2601
	Mic-mount	Max. cutting width Max. weight	em (in.) kg (lbs)	152 (6 140 (3)	•
	Retary-cutter (1 Blade)	Max_cutling width Max, weight	em (in.) kg (lbs.)	122 (4 204 (4)	•
Mower	Rear-mount			152 (6	
	(2 or 3 Blade)		em (in.) kg (lbs.)	227 (5)	
	Fla -mower	Max cutting width	cm (m.)	122 (4	8)
	Sickle bar	Max. cutting width	cm (in.)	152 (6	0)
		Max.tilling.width	cm (in.)	127 (5	
Retary t	iller	Max_weight Slip clutch	kg (los.)	213 (4) Necess	•
Ballom	prow	Max size	em (ia.)	36 (14)	x 1
Disc plo	IW	Max, size	cm (in.;	56 (22)	x 1
Cuttivate	or .	Max. size	cm (in.)	137 () 1 Ro	
Disc had	rrow	Max harrowing width Max, weight	cm (m.) kg (ps.)	152 (6 190 (4)	- 7
Sprayer	,	Max, tank capacity	L (U.S.gals.)	190 (5	7 01
Front bi	ade .	Max, cutting width Sub-frame	em (in.)	152 (6 Necess	•
Rear bla	3 d B	Max. custing width Max. weight	cm (in.) kg (bs.)	152 (6 160 (3:	
		Max. I fting capacity (Bucket center)	kg (bs.)	360 (79	94)
Front lo	auei	Max width Sub-frame	em (m.)	127 (5 N ecess	-
Box blad	–∙ de	Max, cutting width Max, weight	om (in.) kg (bs.)	137 (5 227 (5	
Back ho	 De	Max id grjing depth Max, weight Sub frame	om (in.) kg (ibs.)	198 (7 320 (7) Necess	78) DS)
Snow bl	lower	Max. digging depth Max. weight Sub frame	cm (m.) kg (ds.)		
Trailer		Max. load capacity Max. drawbar load	kg (lbs.) kg (lbs.)	1930 (2: 300 (6)	

NOTE:

■ Implementisize may vary depending on solicoparating conditions.

INSTRUMENT PANEL AND CONTROLS

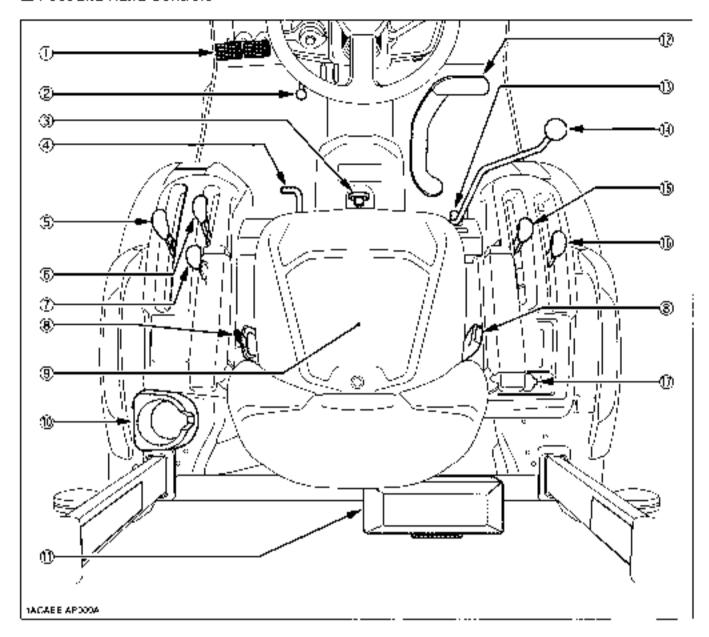
■ Instrument Panel, Switches and Hand Controls



ILLUSTRATED CONTENTS

(1) Turn signal / Hazard light indicator	20
(2) Cookert lemperature gauge	26
(3) Hazard light switch	20
(4) Turn signal light switch	20
(5) Head light switch	20
(6) Parking prake lever	27
(7) Speed set levor	24
(â) Hourmeter / Tecnometer	27
(9) Easy Checker (TM)	25
(10) Fuel gauge	26
(11) Hand throttle lever	23
(12) Key switch	10

■ Foot and Hand Controls



ILLUSTRATED CONTENTS

ILLUSTRATED CONTENTS.

(1) Brake pedal	21
(2) Steering wheel till pedal	19
(3) 3-Point hillsh lowering speed knob	35
(4) Differential lock pedal	28
(5) Range gear shift lever (L-M-H)	22
(S) PTO clutch lever	31
(7) PTO select layer	30
(8) Seat belt	19
(9) Operator's seat,	18

(19) Cup nolder	
(11) Tool-box	
(12) Special control pedal	24
(13) Loader losk lever	37
(14) Loader control lever	37
(15) Front wheel drive lever	23
(16) Position arintro lever	35
(17) Electrical pollet	29

PRE-OPERATION CHECK

DAILY CHECK

To prevent frouble from accurring, it is important to know the condition of the tractor well. Check it before starting.



WARNING

To avoid personal injury or death:

 Be sure to check and service the tractor on a level surface with the engine shut off and the parking brake "ON" and implement lowered to the ground.

Check ilem

- Walk around inspection Checklengine oil level
- Check transmission oil level
- Check poblant level
- Clean grill and radiator screen.
 Check air cleaner evacuator valve.
 (When used in a dusty place).
- Check brake podal.
- Check indicators, gauges and meter.
- Check lights
- · Check wire harness
- Check Seat be Land ROPS
- Check movable parts
- Rafue

(See "DAILY CHECK" in "PERIODIC SERVICE" section)

 Care of danger, warning and caution labels (See *DANGER, WARNING AND CAUTION LABELS*) in "SAFE OPERATION" section)

OPERATING THE ENGINE



WARNING

To avoid personal injury or death:

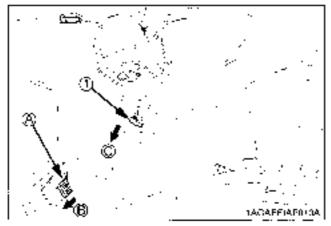
- Read "Safe Operation" in the front of this manual.
- Read the danger, warning and caution labels located on the tractor.
- To avoid the danger of exhaust fume poisoning. do not operate the engine in a closed building without proper ventilation.
- Never start engine while standing on ground. Start engine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

IMPORTANT:

- Do not use starting fluid or ether.
- To protect the battery and the stader, make sure that the starter is not continuously turned for more than 30 seconds.

STARTING THE ENGINE

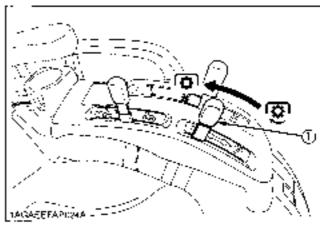
- Make sure the parking brake is set.
- 1. To set the parking brake:
 - Interlock the brake pedals.
 - (2) Depress the brake padals.
 - (3) Latch the brake pedals with the parking brake lever.
- To release the parking brake, depress the brake pudals again



- (f) Parking trake lever
- (A) intertook the brake padals
- (8) "OEPRESS"
- (C) THULL DOWN!

NOTE:

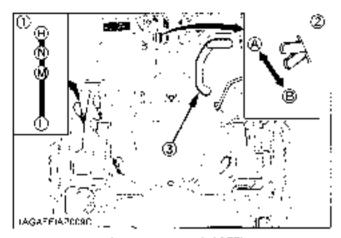
- It is recommended that the operator practice engaging and disengaging the parking brake on a flat surface without the engine running before operating the tractor for the first time.
- Place the PTO clutch lever in the "OFF" position.



(1) PTO sixtoh leven

IZPOONT TENGAGET IZPOORET "DISENGAGET

- 3. Place the speed set lever in "OFF" position.
 - Place the speed control pedal in the "NEUTRAL" position.
 - Place the range gear shift lever (L-M-H) in the "NEUTRAL" position.

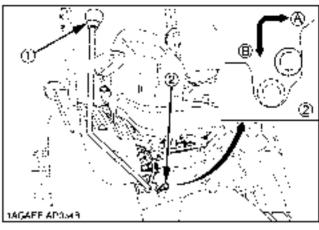


- (1) Hange gear snift layer (L-M-H) (A) *9FF*
- (2) Spood sat lever
- (3) Speed control pedal.
- (B) "ON"
- (H) THIGHT
- (M) "MIDDLE"
- (L) LOW
- (N) "NEUTRAL POSITION".

NOTE:

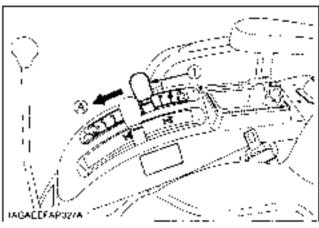
- Depress the both brake pedals together, doing so the speed set lever automatically returns to the offposition.
- By removing your foot from the speed control pedal. it. will allow the pedal to automatically return to the neutral position.

4. Lock the loader control lever in the "LOCK" position.



- (7) Equation control lever
- $(A) \geqslant "1/N (DCK")$
- (2) Lock lever (B) 6.100K*

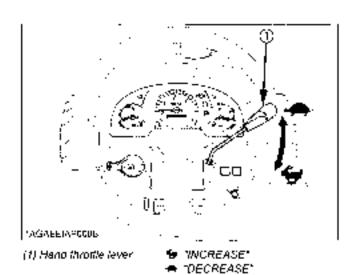
Place the position control lever in the "LOWEST" position.



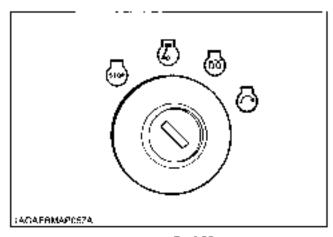
Position control lever.

(A) TOOMNIT

6. Set the throttle lever to about 1/2 way.



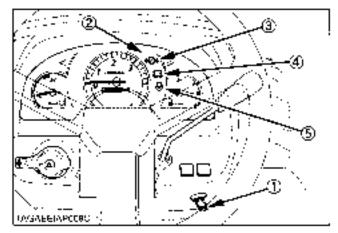
Insert the key into the key switch and turn it "ON".



- ⊜ rosst
- χ, œν.
- ₩ 1998HEAT1
- 49 "START"

Check Easy Checker(TM) lamps:

When the key is turned "ON", lamps (3) (4) should come on. If trouble should occur at any local on while the engine is running, the indicator lamp corresponding to problem will turn "ON"



- (1) Key swift/i
- (2) Fasy checker(TM)
- (2) Engine all pressure warning malicator
- (4) Electrical charge warning indicator.
- (5) Glow plug indicator.

Turn the key to "PREHEAT" position and hold it for about 2 to 3 seconds.

For the appropriate preheating time, refer to the table

Temperature	Preheating Time
Over 0 1C (32 1F)	2 to 3 sec.
O for 5 IC (32 to 23 Tr)	5 sec.
-5 to -15 °C (23 to 5 °F)	10 sec.

NOTE:

 Glow plug indicator (5) comes on while engine is being preneated.

Turn the key to "START" position and release when the engine starts.

IMPORTANT:

 Because of the safety devices, the engine will not start except when the PTO clutch lever is placed in the "OFF" position and speed control pedal is placed in the "NEUTRAL" position.

Cold Weather Starling

When the ambient temperature is below -5°C (23°F) and the engine is very cold. If the engine fails it start, turn of the key for 30 seconds. Then repeat steps 8 and 9. To protect the battery and the starter make sure than 10 seconds.

■Block Heater (Option)

A block heater is available as an option from your dealer. It will assist you in starting your tractor when the ambient temperature is below: 15°C (5°F).

Check to see that all the lamps on the Easy Checker(TM) are "OFF".

If any lamps slays on immediately stop the engine and determine the cause.

STOPPING THE ENGINE

- After slowing the engine to idle, turn the key to "OFF".
- 2. Remove the key.

NOTE

 If key does not stop the engine, consult your local KUBOTA Dealer.

WARMING UP



WARNING

To avoid personal injury or death:

- Be sure to set the parking brake during warmup.
- Be sure to set all shift lovers to the "NEUTRAL" positions and to place the PTO clutch lever in the "OFF" position during warm-up.

For 5 minutes after engine start-up, allow the engine to warm up without applying any load, this is to allow oil to reach every engine part. If load should be applied to the engine, without this warm-up period, trouble such as seizure, breakage or premature wear may develop.

■Warm-up Transmission Oil at Low Ambient Temperatures

Hydraulic of serves as transmission fluct in cold weather, the oil will be cold, which will increase oil viscosity. This can cause delayed oil orgulation or abnormally low hydraulic pressure for some time after engine start-up. This in turn can result in trouble in the hydraulic system. To prevent the above, observe the following instructions: Warm up the engine at about 50% of rated runn according to the table below:

Ambient lemperature	Warm-up time requirement
Above 0 10 (32 1F)	At least 5 minutes
C to -10 °C (32 to 14 °F)	5 to 10 minutes
-10 to -20 °C (14 to -4 °F)	10 to 15 minutes
Below -20 °C (-4 F)	More than 15 minutes

IMPORTANT:

 Do not operate the tractor under full load condition until it is sufficiently warmed up.

JUMP STARTING



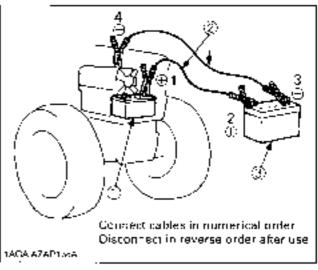
WARNING

To avold personal injury or death:

- Battery gases can explode. Keep digarettes, sparks, and flames away from battery.
- If tractor battery is frozen, do not jump start engine.
- Do not connect the other end of the negative
 jumper cable to the negative (-) terminal of the tractor battery.

When jump starting the engine, follow the instructions below to safely start the engine.

- Bring the helper vehicle with a baltery of the same voltage as disabled tractor within easy cable reach. "THE VEHICLES MUST NOT TOUCH"
- Engage the parking brakes of both vehicles and put the shift levers in neutral, Shut both engines off.
- Wear eye protection and rubber gloves.
- 4 Altach the red claims to the positive (red, (+) or pos.) terminal of the dead pattery and claim; the other end of the same cable to the positive (red, (+) or pos.) terminal of the helper battery.
- 5 Clamp the other cable to the negative (black, (-) or neg.) terminal of the heiper battery
- Clamp the other end to the engine block or frame of the disabled fractor as for from the dead battery as possible.
- Start the helper vehicle and let its engine run for a few moments. Start the disabled tractor.
- 8 Disconnect the jumper cables in the exact reverse order of attachment (Steps 6, 5 and 4).



- (f) Dead battery
- (2) Jumper capter
- (3) Helper battery

IMPORTANT:

 This machine has a 12volt negative (-) ground starting system.

- Use only same voltage for jump starting.
- Use of a higher voltage source on tractors electrical system could result in severe damage to tractor's electrical system.

Use only matching voltage source when "Jump starting" allow or dead battery condition.

OPERATING THE TRACTOR

OPERATING NEW TRACTOR

How a new tractor is handled and maintained determines the life of the fractor

A new tractor just off the factory production line has been, of course tested, but the various parts are not accustomed to each other, so care should be taken to operate the tractor for the first 50 hours at a slower speed and avoid excessive work or operation until the various parts become "broken-in." The manner in which the tractor is handled during the "breaking-in." period greatly affects the life of your tractor. Therefore, to obtain the maximum performance and the longest life of the tractor. It is very important to properly break-in your tractor. In handling a new tractor, the following precautions should be observed.

■Do not Operate the Tractor at Full Speed for the First 50 Hours

- Do not start quickly not apply the prakes suddenly.
- In winter, operate the fractor after fully warming up the engine
- Do not run the engine at speeds faster than necessory
- On rough roads, slow down to suitable speeds.
 Do not operate the tractor at fast speed.

The above precautions are not invited only to new tractors, but to all tractors. But it should be especially observed in the case of new tractors.

■ Changing Lubricating Oil for New Tractors

The lubricating oil is especially important in the case of a new tractor. The various parts are not foroken infland are not accustomed to each other; small metal grit may develop during the operation of the fractor, and this may wear out or damage the parts. Therefore, care should be taken to change the obtricating oil a little earlier than would ordinarly be required.

For further details of change interval hours, see "MAINTENANCE" section

BOARDING AND LEAVING THE TRACTOR

- Never try to get on or off a moving tractor or jump off the fractor to exit
- Face the tractor when getting into or out of the tractor.
 Do not use the controls as hand holds to prevent inacvertent much no movements.
- Always keep steps and floor clean to avoid slippery conditions.

OPERATING FOLDABLE ROPS



WARNING

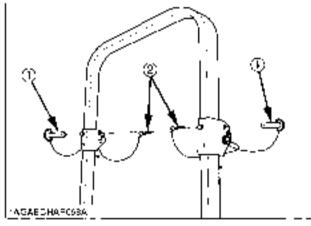
To avoid personal injury or death:

- When raising or folding the ROPS, apply parking brake, stop the engine and remove the key.
 - Always perform function from a stable position at the rear of tractor.
- Fold the ROPS down only when absolutely necessary and lold it up and lock it again as soon as possible.
- Before proceeding to fold ROPS, check for any possible interference with installed implements and attachments.

If Interference occurs, contact your KUBOTA Dealer.

■To Fold the ROPS

Remove both set bults, maintain a hold on the ROPS.



- (1) Sel ball
- (2) Hair pia

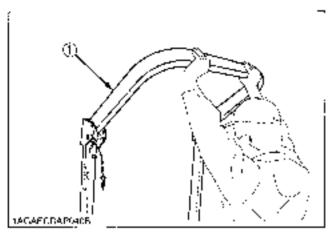
Fold the ROPS.



CAUTION

To avoid personal injury:

 Hold the ROPS tightly with both hands and fold the ROPS slowly and carefully.



(1) ROPS

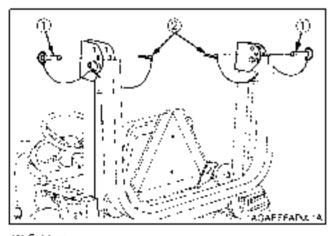
Insert both set botts and secure them with the hair pins



CAUTION

To avoid personal injury:

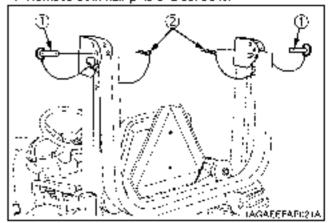
 Make sure that both set bolts are properly installed and secured with the hair pins.



(2) Sel adır. (2) Hair pin

■To Raise the ROPS to Upright Position

Remove both hair pins and set botts.



- 11) Sel hell
- (2) Hair on
- Raise ROPS to the upright position, maintain a hold on the ROPS



CAUTION

To avoid personal injury.

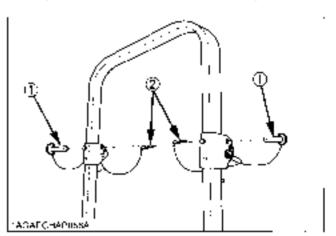
- Raise the ROPS slowly and carefully.
- Insert both set bolts and secure them with the hair pms.



CAUTION

To avoid personal injury:

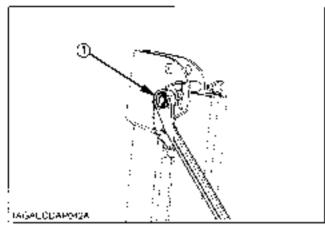
 Make sure that both set bolts are properly installed as soon as the ROPS is in the upright position and secured with the hair pins.



- (2) Set beat
- (2) Hair pin

■Adjustment of Foldable ROPS

- Adjust free fall of the ROPS upper frame regularly.
- If you feel less friction in folding the ROPS, Lighten the nut (1) until you feel the right friction in the movement



(1) Nut

STARTING

Adjusting the operator's position.

NOTE:

 The seal and suspension should be adjusted to ensure that the controls are comfortably at hand for the operator, ensuring that the operator maintains a good. posture and minimizes risks from whole hody vibration

■Operator's Seat



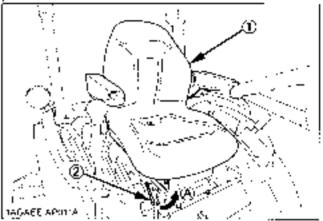
WARNING

To avoid personal injury or death;

- Make sure that the seat is completely secured. after each adjustment.
- Do not allow any person other than the driver to ride on the tractor.

Position adjustment

Pull in the position adjust lever and slide the seal backward or forward, as required. The seat will lock in position when the lever is released.



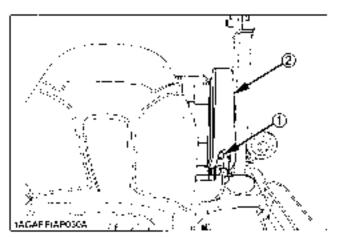
- (1), Seat
- (A) THOLL INT (2) Position adjust lever

IMPORTANT:

 After adjusting the operator's seat, be sure to check that the seat is properly locked.

Armrest angle adjustment

The armrest angle can be adjusted by the bolts (socket size 7/16 inch)



- (1) Bait
- (2) Armrest

■Seat Belt

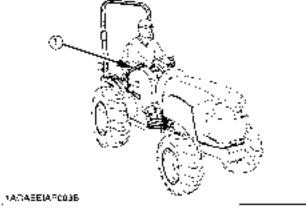


WARNING

To avoid personal injury or death:

- Always use the seal belt when the ROPS is installed.
- Do not use the seal belt if a foldable ROPS is down or there is no ROPS.

Adjust the seat belt for proper fit and connect to the buckle. The seat belt is auto locking retractable type.



(1) Seaf baif

■Tilt Steering Adjustment

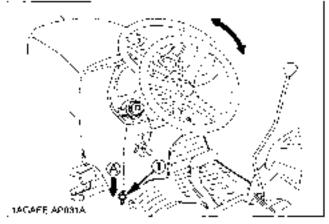


CAUTION

To avoid personal injury:

 Do not adjust the steering wheel while the tractor is in motion.

Press down the sleering wheel pedal, to release the lock so the steering wheel can be adjusted to one of three desired positions.



(f) Steering (wheel bit pedal

(A) TERESS (DOWN*

2. Selecting light switch positions.

Head Light / Turn Signal / Hazard Light Switch

Head Light Switch

(A) OFF .. Head light OFF.

(B) 3○Head light ON.

Hazard Light

- When hazard light switch is pushed, the hazard lights flash latong with the L/H and R/H indicators on the instrument panel.
- Push hazard light switch again to turn off the hazard lights.

Turn Signal with Hazard Light Switch On

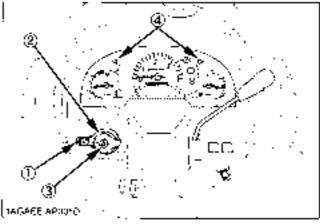
- To indicate a right turn with the hazard lights already flashing (hazard switch on), turn the turn signal switch clockwise.
- To indicate a left turn with the hazard lights already flashing, turn the turn signal switch counterclockwise.
- 3 When the left or right turn signal is activated in combination with the hazard lights, the indicated turning light will flash and the other will stay on.

Turn Signal with Hazard Light Switch Off

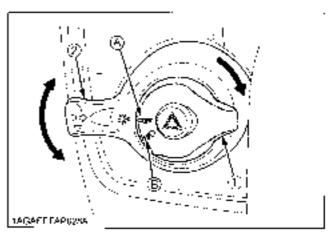
- To indicate a right turn without hazard lights (hazard switch off), turn the turn signal switch clockwise.
- To indicate a left furn without hazard lights, furn the lurn signal switch counterclockwise.
- When the left or right form signal is activated without the hazard lights, the indicated turning light will flash and the other will stay on

NOTE:

- The hazard light switch is operative when the key switch is in either the "ON" or "OFF" positions.
- The lum signal light switch is only operative when the key switch is in the "ON" position.
- The indicator in the hazard light switch will light up when the head light switch is turned on
- Bo sure to return the turn signal switch to center position after turning.



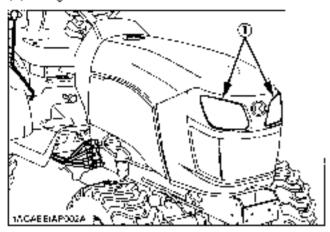
- (1) Turn signal light switch
- (2) Heist light switch:
- r3r Hazard light switch
- (4) Hazami / Turn signe) indicetor.

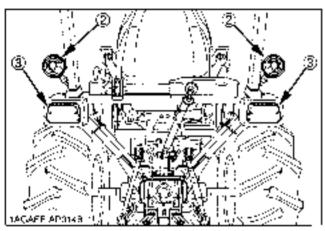


- Head light switch.
- (2) Turn signal light switch
- (A) 10FF1
- 78) TON1

■Tractor Lights

- (1) Head light
- (2) Turn signal / Hazard I ght
- (3) Tait light





3. Checking the brake pedal.

■Brake Pedals (Right and Left)



WARNING

To avoid personal injury or death:

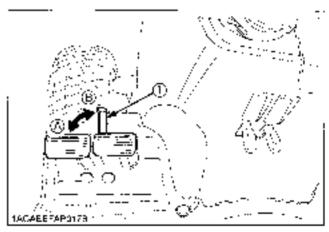
 Applying only one rear wheel brake at high speeds could cause the tractor to swerve or roll-over.



WARNING

To avoid personal injury or death:

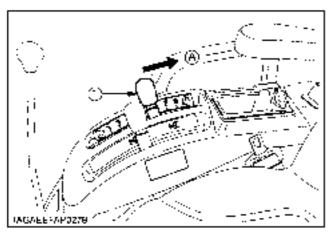
- An accident may occur if the tractor is suddenly braked, such as by heavy towed loads shifting forward or loss of control.
- The braking characteristics are different between 2 and 4 wheel drive. Be aware of the difference and use carefully.
- When driving on icy, wet or loose surfaces, make sure the tractor is correctly ballasted to avoid skidding and loss of steering control.
 Operate at reduced speed.
- Before operating the tractor on the road or before applying the parking brake, be sure to interlock the right and left pedals as illustrated below.
- Use individual brakes to assist in making sharp turns at slow speeds (Field Operation Only). Disengage the brake pedal, ock and depress only one brake pedal.
- Be sure brake pedals have equal adjustment when using locked together.



(1) ⊈cake oestar locs

(A) fulboxi (B) f4ELEASET

4. Raise the implement. (See "HYDRAULIC UNIT" section)



(1) Position control never

(A) "OP"

5. Selecting the Travel Speed.

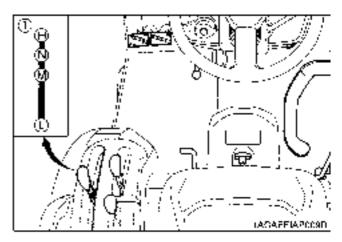
■Range Gear Shift Lever (L-M-H)

The range year shift can only be shifted when tractor is completely stopped.

IMPORTANT:

Do not force the range gear shift lever.

- If it is difficult to shift the range gear shift lever into the neutral position;
 - Depress the brake pecal firmly for several seconds.
 - (2) Without reducing the brake pedal force, shift the range gear shift lever
- If it is difficult to shift the range gear shift lever into "L",
 "M" or "H" from neutral position;
 - Slightly depress the speed control pedal to retate the gears inside of transmission.
 - (2) Release the speed control podal to neutral position.
 - (3) Shift the range gear shift lever.
- To avoid damage of transmission, stop tractor before shifting between ranges



(1) Hange gear shift lever (L.M.H)

- (H) "H(GH"
- (M) TAIDOLE!
- (L) "LOW"
- (N) INFUTRAL POSITIONS

■Front Wheel Drive Lever

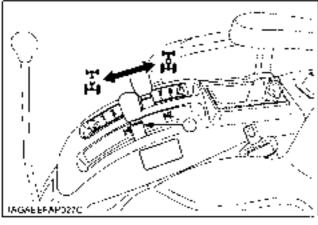


WARNING

To avoid personal injury or death:

- Do not engage the front wheel drive when traveling all road speed.
- When driving on icy, wet or loose surfaces, make sure the tractor is correctly ballasted to avoid skidding and loss of steering control.
 Operate at reduced speed and engage front wheel drive.
- An accident may occur if the tractor is suddenly braked, such as by heavy towed loads shifting forward or loss of control.
- The braking characteristics are different between 2 and 4-wheel drive Be aware of the difference and use carefully.

Use the lever to engage the front wheels with the tractor stopped. Shift the lever to "ON" to engage the front wheel drive.



(1) Frant wheel drive lever



MPORTANT:

- To avoid damage of transmission, when front wheel drive lever is not smoothly shifted, slightly step forward or rearward on speed control pedal.
- Tires will wear quickly if front wheel drive is engaged on paved roads

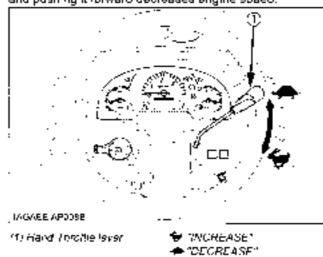
Front wheel drive is effective for the following lobs:

- When greater pulling force is needed, such as working in a wet field, when pulling a trailer, or when working with a foint end brader.
- 2. When working in sandy sol.
- When working on a hard soil where a rolary filler might push the tractor forward.
- 4. Additional braking at reduced speeds.

Accelerate the Engine.

■Hand Throttle Lever

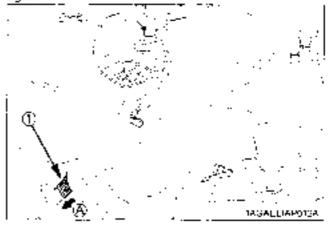
Pulling the throttle lever back increases engine speed, and pushing it forward decreases engine speed.



7. Unlock the Parking Brake.

■Parking Brake

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



(1) Brake pedals

TAI TOEPHESS*

8. Depress the Speed Control Pedal.

■Speed Control Pedal



WARNING

To avoid personal injury or death:

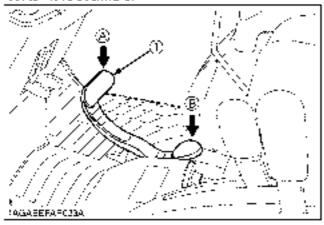
- Do not operate if the tractor moves on level ground with the operators foot off of Speed Control Pedal.
- Consult your local KUBOTA Dealer.

Forward Pedal

Depress the speed control pedal with the log of your right foot to move forward.

Reverse Pedal

Depress the speed control pedal with the heel of your right. feet to move backward.



- (1) Bened control pread
- (A) "SQSWARD"
- (B) "REVERSE"

IMPORTANT:

 To prevent serious damage to the HST, do not adjust the stopper bolts.

NOTE

 When you stand up from the seal with the speed control podal stopped on or the speed set device engaged (ON), the engine will stop regardless of whether the machine is moving or not. This is because the fractor is equipped with Operator Presence Control system (OPC).

■Spead Set Device



WARNING

To avoid personal injury or death:

- Pull the speed set lever completely to the up position before starting the angine.
- Do not use the speed set device when driving on the road.
- Be sure to connect both the left and the right brokes to release the speed set device. The speed set device won't be released with singlebrake activation.

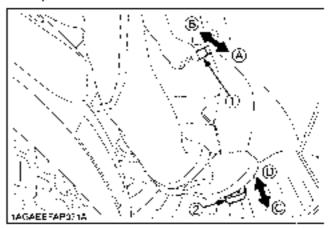
The Speed Set Device is designed for tractor operating efficiency and operator comfort. This device will provide a constant forward operating speed by mechanically holding the speed control padal at a selected position.

To engage Speed Set Device

- Accelerate speed to desired level using Speed Control Pedal, and push the speed set lever down to the "Ofv" contion
- Release Speed Control Peda and desired speed will be maintained.

To disengage Speed Set Device.

- Pull the speed set lever upward.
- Depress both brake bedals.



- (1) Spood set aver
- (2) Speed control pedal.
- (A) "ON"
- (B) 10FF1
- (C) Detrease"
- (Li) "Decrease"

NOTE:

- If you step on the pedal on the forward acceleration side, the speed set device will disengede.
- The speed set device does not disengage when the individual right or left brake is applied.
- Speed set device will not operate in reverse.
- When you stand up from the seat with the speed control pedal stepped on or the speed set device engaged (ON). The engine will stop regardless of whether the machine is moving or not. This is because the fraction is equipped with Operator Presence Control system (OPC).

IMPORTANT :

 To prevent the damage of speed set device, do not depress the reverse, perfoliwhen the speed set device is engaged.

STOPPING

Stopping

- Slow the engine down.
- 2. Step on the brake pedal
- After the tractor has stopped, disengage the PTO, kiwer the implement to the ground, shift the transmission to neutral and set the parking brake.

CHECK DURING DRIVING

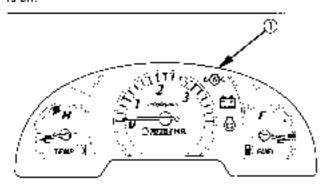
■Immediately Stop the Engine if:

- The engine suddenly slows down or accelerates
- Unusual no ses suddeniv are heard.
- Exhaust fumes suddenly become very dark.

■Easy Checker (TM)

If the warning lamps of the Easy Checker(TM), come on cuting operation, immediately step the engine, and find the cause as shown below.

Never operate the tractor while Easy Checker(TM), lamp is on.



1AGAEE AP013E

Essy checker(TM)

Engine oil pressure

If the pil pressure in the engine goes below the prescribed level, the warning lamp in the Easy Checker(TM) will come on.

If this should happen during operation, and if does not go off when the engine is abbeirated to more than 1000 rpm, check level of engine oil (See "Checking Engine Oil Level" in "DAILY CHECK" in "PERIODIC SERVICE" section)

Fig. Electrica charge

If the alternator is not charging the battery, the warning tamp in the Easy Checker(TM) will come on.

If this should happen ouring contailor, check the electrical charging system or consult your ocal KUBOTA pealer.

NOTE:

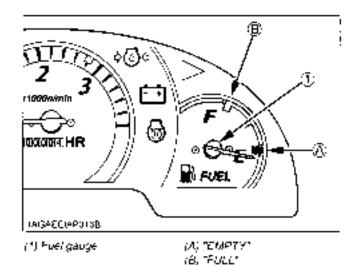
 For checking and servicing of your tractor consult your local KUBO1A Dealer for instructions.

■Fuel Gauge

When the key switch is on, the fuel gauge indicates the free level.

Be careful not to empty the fuel tank. Otherwise air may enler the fuel system.

Should this happen, the system should be filed. (See "Bleeding Fue System" in "SERVICE AS REQUIRED" in "PERIODIC SERVICE" section.)



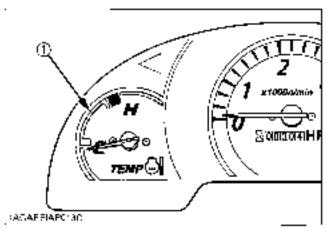
■Coolant Temperature Gauge



WARNING

To avoid personal injury or death:

- Do not remove radiator cap until coolant temperature is well below its boiling point.
 Then toosen the cap slightly to relieve any pressure before removing the cap completely.
- With the key switch "ON" this gauge indicates the temperature of the coolant. "C" for "cold" and "H" for "hol".
- If the indicator reaches the "H" position (red zone), engine coolant is overheated. Check the tractor by referring to "TROUBLESHOOTING" section.

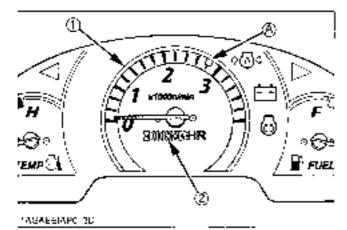


(1) Coolant temperature gauge

■Hourmeter / Tachometer

This meter gives readings for engine speed. PTO shaft speed and the hours the tractor has been operated.

- The tachometer indicates the engine speed and the 540 PTO shaft speed location on the dial.
- The hourmeter indicates in 5 digits the hours the tractor has been used, the fast digit indicates 1/10 of an hour.



Engine revolution.

(2) Hours used

(A) P7O | 540 (pm)

PARKING

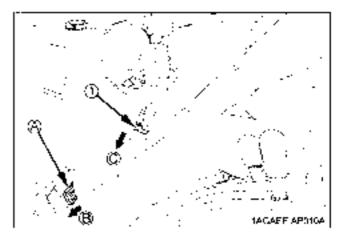
■ Parking



WARNING

To avoid personal injury or death:

- Always set the parking brake, stop the engine and remove the key before leaving the tractor seat.
- 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 podals with the parking brake lever.



(1) Perking brake lever

(A) Interlock the brake people (B) "DEPRESS"

- (C) TRULL DOWN!
- Before getting off the fractor, disengage the PTO, lower at implements to the ground, place all control levers in their neutral positions, set the parking brake, stop the engine and remove the key.
- If it is necessary to park on an incline, be sure to chock the wheels to prevent accidental rolling of the machine.

OPERATING TECHNIQUES

■Differential Lock



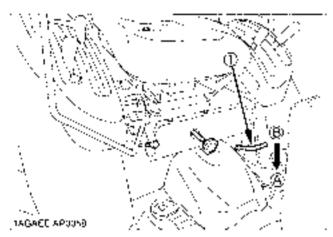
WARNING

To avoid personal injury or death due to loss of steering control:

- Do not operate the tractor at high speed with differential lock engaged.
- Do not attempt to turn with the differential lock engaged.
- Be sure to release the differential lock before making a furn in field conditions.

If one of the rear wheels should alip, step on the differential lock pedal. Both wheels will turn together, then reduce a ippage

Differential lock is maintained only while the pedal is depressed.



(1) Gifferennal lock pedal

(A) Press to "ENGAGE" (B) Remove to "DISENGAGE"

IMPORTANT:

- When using the differential took, always slow the engine down.
- To prevent damage to power train, do not engage differential lock when one wheel is spinning and the other is completely stopped.
- If theid flerent at lock cannot be released in the above manner, step tightly on the brake pedals attemately.

■Operating the Tractor on a Road



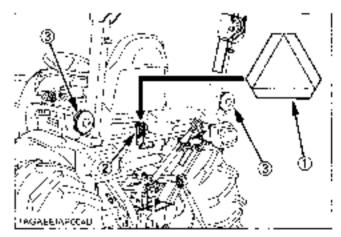
WARNING

To avoid personal injury or death:

- To help assure straight line stops when driving at transport speeds, lock the brake pedals together. Uneven braking at road speeds could cause the tractor to roll-over.
- When traveling on road with 3-point hitch mounted implement attached, be sure to have sufficient front weight on the tractor to maintain steering ability. (See "BALLAST" section.)
- Towed equipment (without brake) must not exceed 1.5 times the tractor weight when traveling on roads or at high speeds.

Bo sure SMV emblem and hazard (ght are clean and visible. If towed or rear-mounted equipment obstructs these safety devices, install SMV emblem and hazard eight on equipment.

Consult your local KUBOTA dealer for further detail.



- (1) SMV emblem
- (2) 8røcker
- (3) Hazard light

■Operating on Slopes or Rough Terrain



WARNING

To avoid personal injury or death:

- Always back up when going up a steep slope.
 Driving forward could cause the tractor to tip over backward. Stay off hills and slopes too steep for safe operation.
- Avoid changing gears when climbing or descending a slope.
- If operating on a slope, never disengage shift levers to neutral, Doing so could cause loss of control.
- Do not drive the tractor close to the edges of ditches or banks which may collapse under the weight of the tractor. Especially when the ground is loose or wel.
- Slow down for slopes, rough ground, and sharp turns, especially when transporting beavy, rear mounted equipment.
- Before descending a slope, be sure that the range lever is in the low so that speed can be controlled without using brakes.

■Transport the Tractor Safely

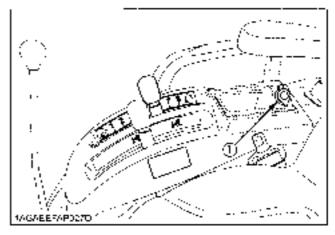
- The tractor, if damaged, must be corried on a truck. Secure the tractor bobbly with ropes.
- Follow the instruction fields when lowing the tractor:
 Otherwise, the tractor's powertrain may get damaged.
 - Set the all shift levers to "NEUTRAL" position.
 - If possible, start engine and select 2WD, if prespiseed is fitted ensure that it is disengaged.
 - Tow the tractor using its front hitch or drawbar.
 - Never low faster than "10 km/h (6.2 mph)".

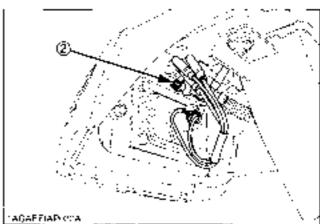
■Directions for Use of Power Steering

- Power steering is activated only while the engine is running. While the engine is slopped, the tractor functions in the same manner as tractors without power steering.
- When the steering wheel is turned at the way to the stop, the relief valve is activated. Do not hold the steering wheel in this position for a long period of time.
- Avoid turning the steering wheel while the fractor is stopped, or lires may wear out sooner.
- The power steering mechanism makes the steering easier. Be careful when driving on a road at high speeds.

■Electrical Outlet

An electrical outlet is supplied for use with implement and electrical equipment.





- (1) Accessory electrical outlet (DC 12V, MAX 120W).
- (2) Electrical policy for work light (DC 12V, MAX 35W)

PTO

PTO OPERATION



WARNING

To avoid personal injury or death:

 Sefore operation, be sure to select the correct PTO lever (mid, mid/rear, rear).



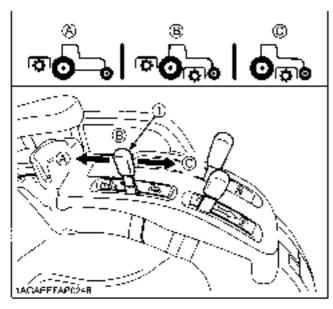
WARNING

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 Select Lever

The fractor has a 540 rpm rear PTO speed and a 2 500 rpm mid-PTO speed.



(11 PTO suked lever

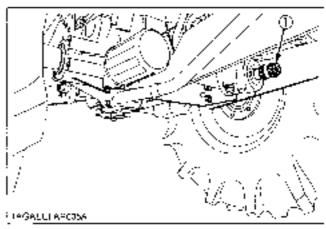
- (A) Rear PTO position
- (B) Mid-Hear-PTO position
- (C) Mid-PTO position

Mid-PTO

Thruse Mid PTO shift the PTO select lever to Mid-PTO position and the PTO clutch lever to the 'ON' position.

NOTE:

The Mid-PTO is available for KUBOTA approved implements.



(1) MiU-PTO

♦ Mid-Rear PTO

To use mid and rear PTO as the same time, shift the PTO select lever to mid-rear PTO position and the PTO clutch lever to the "ON" position.

Rear PTO

To use rear PTO, shift the PTO select lever to rear PTO position and the PTO clutch lever to the "CN" position.

Mid-PTO speed

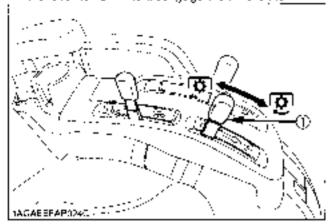
		B2301/B2601
Engine speed	rpm .	2753
PTO speed	nom .	2500

Rear PTO speed

	B2301/B2601
Engine speed rpn	n 2758
Shaft.	6-spline
PTO speed irpn	n 54 0

■PTO Clutch Lever

- The PTO dotch lever engages or disengages the PTO dutch which gives the PTO independent control.
- Shift the lever to "ON" to engage the PTO clutch. Shift the lever to "OFF" to disengage the PTO clutch.



(1) PTO clutch lavar

© fON" 1ENGAGE1 In 10EE1 1DISENGAGE1

IMPORTANT:

- To avoid shock loads to the PTO, reduce only rethrottle from high idle to low idle by pushing up on engine throttle when engaging the PTO, then open the throttle to the recommended engine rpm.
- To avoid damage to PTO clutch and implement, shift the PTO dutch lever slowly, when engaging the PTO clutch. Do not keep the PTO dutch lever half way.
- To avoid damage of transmission, when PTO select lever is not smoothly shifted, slightly shift PTO clutch lever
- To avoid damage of transmission, do not shift PTO select lever until the PTO has stopped completely

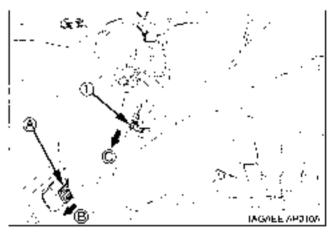
NOTE:

- Tractor engine will not start if the PTO dutch lever is in the engaged "ON" position.
- When you stand up from the seat with the PTO clutch lever in the "ON" position, the engine will stop regardless of the position of the PTO select lever. This is because the tractor is equipped with Operator Presence Control (OPC) system.

■Stationary PTO

fo park the fractor and use the PTO system (for chipper or pump, for example), start the PTO system in the to-lowing steps.

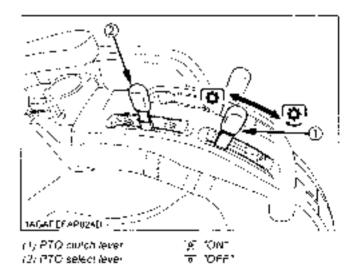
- 1. Apply the parking brake and place blocks at the fires.
- Make sure the shift levers are at NEUTRAL, and start the engine.
- Set the PTO select lever to rear only position.
- 4. Set the PTO clutch lever to engage "ON".
- Set the engine speed to provide recommended rear PTO speed.
- 6. Get off the tractor.



(1) Parking Lanks lever

(A) Intertock the brake pedals

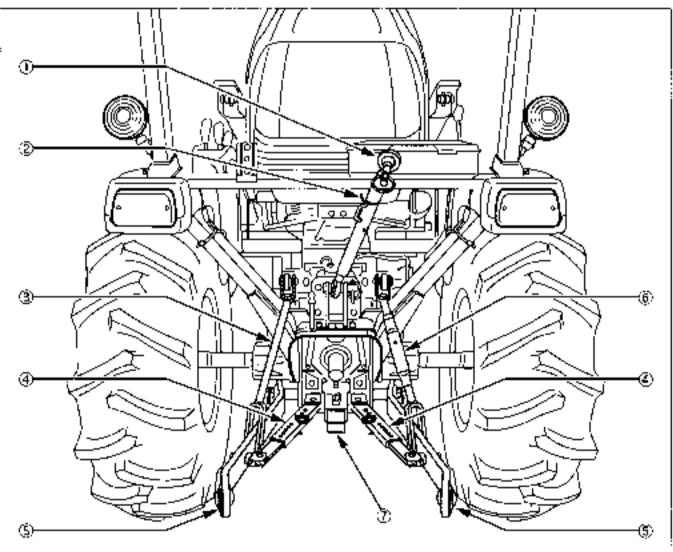
- (B) "DEPRESS"
- (C) "PULL DOWN"



NOTE:

 If the PTO system is engaged and you stand up from the seat and release the parking brake, the engine slops automatically after slanding up

3-POINT HITCH & DRAWBAR



та<u>ЗаСЕ</u>ЈаРотиа

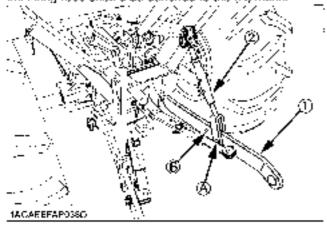
- (1) Top link
- (2) Top link holder.
- (3) Lifting rod (Left):
- (4) Talescapia stabilizers
- (5) Lower link
- (9) Lifting rod (Right)
- (7) Erawbar

3-POINT HITCH

Make preparations for attaching implement.

Selecting the holes of lifting rods and lower links

There are 2 holes in the lower links. For most operations the litting roos should be attached to the (A) holes.



(1) Lower links (2) Lifting rods

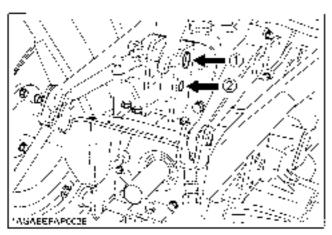
halkst(4),(6)

NOTE:

 The lifting rods may be attached to (B) hole for higher lifting height. (with reduced lifting force)

■Selecting the Top Link Mounting Holes

Select the proper set of holds by referring to the "Hydrautic Control Unit Use Reference Chart" in "HYDRAULIC UNIT" section.



Mounting hate 1

■ Drawbar

Remove the drawber if a close mounted implement is being attached.

2. Attaching and detaching implements



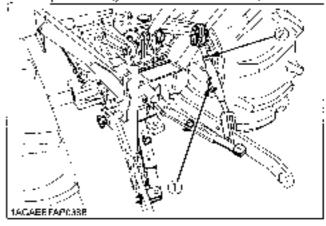
WARNING

To avoid personal injury or death:

- Be sure to stop the engine and remove the key.
- Do not stand between tractor and implement unless parking brake is applied.
- Before attaching or detaching implement, locate the tractor and implement on a finn, flat and level surface.
- Whenever an implement or other attachment is connected to the tractor 3-point hitch, check full range of operation for interference, binding or PTO driveline separation.

■Lifting Rod (Right)

Level a 3-point mounted implement from side to side by turning the adjusting handle to shorten or lengthen the adjustable lifting rod with the implement on the ground. After adjustment, tighten the look not securely.



- (1) Adjusting casete
- (2) Lack out

■Top Link

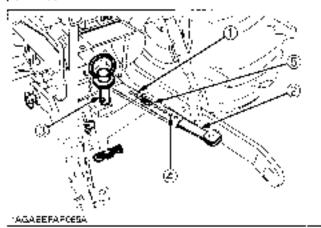
- Adjust the angle of the implement to the desired position by shortening or lengthening the tup link
- The proper length of the top link values according to the type of implement being used.

⁽²⁾ Mounting halo 2:

■Telescopic Stabilizers

Adjust the releasopic stabilizers to control horizontal sway of the implement. Select the proper set of holes by referring to the "Hydraulic Control Unit Use Reference Chart" in "AUXILIARY HYDRAULICS" in "HYDRAULIC UNIT" section.

After all gning satisfactorily, insert the set-pin through any one of the 8 holes on the outer tube that align with one of the holes on the ioner bar, both stabilizers will be locked if the set pin is inserted through the slot to engage one of the holes on the inner bar, a limited degree of sway will be permitted.



- 717 Onter Juba.
- (2) littre/ bar
- /3/ Se/₂pm
- 74) Hotel
- (5) Slot

DRAWBAR



WARNING

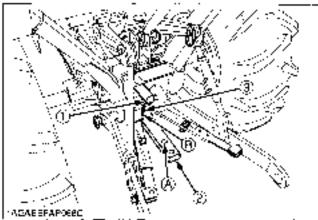
To avoid personal injury or death:

 Never pull from the top link, the rear axle or any point above the drawbar. Doing so could cause the tractor to tip over rearward causing personal injury or death.

Adjusting Drawbar Length

When towing an implement, use of (B) hore in drawbar is recommended.

The acceptable grawbar load is provided in the "IMPLEMENT LIMITATIONS" section.



Hote (A) (B)

- (f) PTO Snaft cap
- (2) Orawbar
- (3) Drawbar pin

HYDRAULIC UNIT

3-POINT HITCH CONTROL SYSTEM



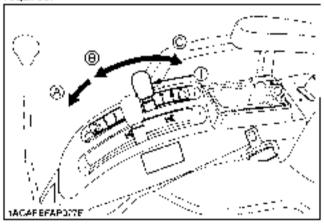
WARNING

To avoid personal injury or death:

 Before using the 3-point bitch controls, ensure that no person or object is in the area of the implement or 3-point bitch. Do not stand on or near the implement or between the implement and tractor when operating the 3-point bitch controls.

■Position Control

This will control the working depth of 3-point hilph mounted implement regardless of the amount of pull required.



- (1) Position control tever
- (4) "F(QAT" (8) "DOWN"
- 10) 0000

(C) TUPT

IMPORTANT:

- If the 3-point hitch can not be raised by setting the hydraulic control, ever to the UP position after long term storage or when changing the transmission oil, turn steering wheel to the right and left several times to bleed air from the system.
- Do not operate until the engine is warmed up. If operal on is oftenuterliwhen the engine is still cold, the hydraulic system may be damaged.
- If noises are heard when implement suffing after the hydrautic control lever has been activated, the hydrautic mechanism is not adjusted property. Unless corrected, the unit will be damaged. Contact your KUBOTA Dealer for adjustment.

■3-point Hitch Lowering Speed

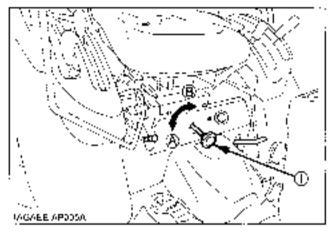


WARNING

To avoid personal injury or death:

 Fast lowering speed may cause damage or injury. Lowering speed of implement should be adjusted to 2 or more seconds.

The lowering space of the 3-point hitch can be controlled by adjusting the 3 point hitch lowering speed knob.



71) 3-Point hifen lowering speed knot-

- (A) "FAST"
- IBITSLOW
- (C) LOCK.

AUXILIARY HYDRAULICS

Hydraulic outlet (rear) is provided on the fractor.

■Hydraulic Block Type Outlet

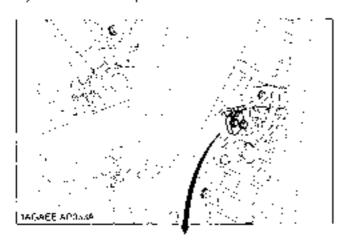
Hydraulic block type outlet is useful when adding hydrau loally operated equipment such as front end loader, front blade, etc.

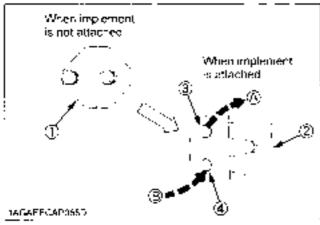
When an implement is attached

- Remove the block cover.
- Attach the block guillet cover, (option).

[Rear outlet]

Hydraulic outlets are provided on the tractor.





- 71) Block cover
- (2) Black autint cover (option)
- 137 Oct/98
- (4) Inter

- (A) To implement inlet Max. Bow
 - 77.8 Lames
 - (4.7 U.S gals /min)
 - Max pressure
 - 13.0 to 13.8 MPa
 - (1.13 to 141 kg@cm²)
 - (1891 to 2009 pai)
- (S) Insin regularized order.

NOTE:

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

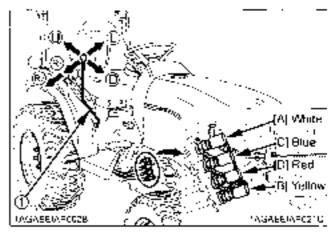
DUAL REMOTE HYDRAULIC CONTROL SYSTEM

The tractor is equipped with the double-acting 2-segment hydraulic control valve for the trantilidader.

To apply the hydraulic power take-off for general attachments, keep the following point in mind-

■Control Lever and Hydraulic Hose Connections

Connect the control level in its specified direction and the hydraulic hoses to their specified ports.



[1] Londor / Respote control valve lever (R) "RIGHT"

- (C) TUBER (C)
- (U) "UP"
- יאשטפי (ס)

Pressure ---> Hydraulic outlet ports of first segment Returning 4

Lev	Ēľ	UP		DOWN	
Part	[AJ	la la	←	Out	→
-0"	[8]	Out	→ ੋ	In	-

Hydraulic outlet ports of second segment

Low)H	RIGHT		ΙE	FT .
⊃ort	(C)	In	1	Out	>
1 %	[D]	Out	→	ln	┯ ˈ

IMPORTANT:

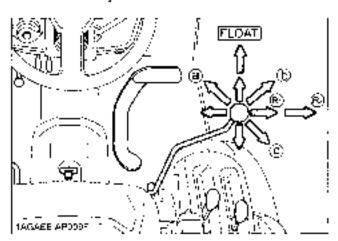
To avoid damage of the attachments:

- Do not connect attachments through the hydraulic motor to the |C| and |D| ports. If the control lever is moved to the Regeneration position (R1), the seals on the hydraulic motor will be damaged.
- This control valve is provided with the Regeneration position. When the [C] and [D] ports are used to take off hydround power for the hydraund cylinder, he sure to connect the [C] port to the "Head-End" side port of the hydraulic cylinder.
- Make the following connections when using this valve to take off hydraulic power for the hydraulic cylinder.

Colored Couper	Hydraulic Cylinder port
[B. Yellow], [C: 8 uc]	Head-End side
[A: White] (D: Red]	Rod-End side

■Loader / Remote Control Valve Lever

- Before moving the lever, make sure that the hydraulic hoses for attachments are connected.
- Move the lever diagonally (a, b, c shown in the figure), and the first and second segments can be controlled simultaneously.



NOTE:

- Move the lever to the "FLCAT" position, and it will be held there by the determmechanism. To use the valve as a floating valve with determine, connect the hydraulic hoses to ports [A] and [B]
- When laking off hydraulic power from port (D), the flow rate can be adjusted in 2 stages with the lever.
 The flow rate is high at position (R1) and low at position (R2). Move the lever to position (R1) or (R2) depending on the attachment in use.

■Vaive Lock

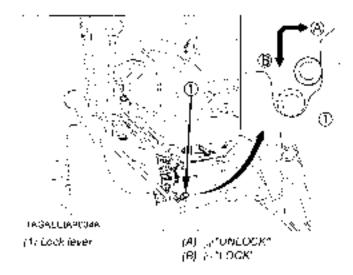


WARNING

To avoid injury or death from crushing:

- Do not utilize the valve lock for machine maintenance or repair.
- The valve lock is to prevent accidental actuation when implement is not in use or during transport.

The control valve is equipped with a valve lock feature. The control valve is locked in the "LOCK" position. The lock is not intended and will not prevent a leak down of the implement during the period of storage.



■Hydraulic Control Unit Use Reference Chart

In order to handle the hydraulics properly, the operator must be familiar with the following. Though this information may not be applicable to all types of implements and soil conditions, it is useful for general conditions.

Implement	ASA ATAP 204 Sol condition	1AGAFFAAFOOR Top link mounting trates	1ACAFFAFOZF (1) Posibon Control lever	Acque various Gauge wheel	1ACAFFAAPONC Telescopic stabilizers	Remarks
Meldboard plow	Light soil Medium sni Heavy soil	-	•	,		Insert the set-pin through the siction the outer tube that at growith one of the holes on the inner
harrower tspike springlooth, disc typic)				YESINO	Loose	For implements with gauge wheels,
Sub-soler .		(1) is standard (2) is used only when there is				lower the implements to the ground.
Weeder rioger		Some obstacle	Position control	YES		Telescupic
Earthmover, digger screper manure lork, rear carnor .		that prevents you from using the standard	r using the			stabilizer should be light ennightic prevent excessive implement movement when
Mower (mid and rear-mount lype). Ingrake, leader.				YES•NO	Tighter - -	implement is in raised position. For implements with gauge wheels, lower the implements to the ground.

TIRES, WHEELS AND BALLAST

TIRES



WARNING

To avoid personal injury or death:

- Do not attempt to mount a tire on a rim. This should be done by a qualified person with the proper equipment.
- Always maintain the correct tire pressure.
 Do not inflate tires above the recommended pressure shown in the operator's manual.

IMPORTANT:

 Od not use tres other than those approved by KUBOTA

■Inflation Pressure

Though the tire pressure is factory-set to the prescribed level, it naturally crops slowly over the course of time. Thus check it regularly and inflate as necessary

	Tire sizes	Inflation Pressure
Roar	9 5 - 16, 4PR 9 5 - 18, 4PR 9 15/75D - 15, 4PR 11.2 - 16, 4PR 12 - 16,5, 4PR 31x13 5 - 15, 4PR 33x12 5 - 15, 4PR	140kPai1 4kg/km*, 20psi) 160kPai1 6kg/km*, 23psi) 100kPai1 0kg/km*, 14psi) 100kPai1 0kg/km*, 14psi) 270kPai2 7kg/km*, 40psi) 140kPai1 4kg/km*, 20psi) 140kPai1 4kg/km*, 20psi) 140kPai1 4kg/km*, 20psi)
Front	6 12, 4PR 7 - 12, 4PR 21x8.00 - 10, 4PR 22x8.00 - 12, 4PR 23x8.50 12Turf, 4PR 23x8.50 12Ind , 4PR 24x8.50 12, 4PR	200kPa(2 Ckg/tent*, 28psi) 170kPa(1 /kg/tent*, 24psi) 160kPa(1.6kg/tent*, 23psi) 160kPa(1 6kg/tent*, 23psi) 150kPa(1 5kg/tent*, 23psi) 250kPa(2 5kg/tent*, 35psi) 160kPa(1.6kg/tent*, 23psi)

■Oual Tires

Dual lines are not approved

WHEEL ADJUSTMENT



WARNING

To avoid personal injury or death:

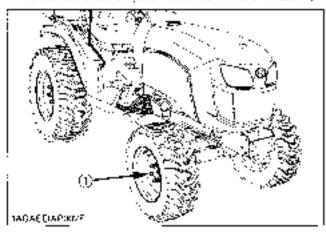
- When working on slopes or when working with trailer, set the wheel tread as wide as practical for maximum stability.
- Support tractor securely on stands before removing a wheel,
- Do not work under any hydraulically supported devices. They can settle, suddenly leak down or be accidentally lowered. If necessary to work under tractor or any machine elements for servicing or adjustment, securely support them with stands or suitable blocking beforehand.
- Never operate tractor with a loose rim, wheel, or axis.

■Front Wheels

Front tread width can not be adjusted

IMPORTANT:

- Do not turn front discs to obtain wider tread.
 In setting up the front wheels, make sure that the inflation valve stem of the tires face outward.
- When re-fitting or adjusting a wheel, tighten the bolts
 to the following torques then recheck after driving the
 tractor 200 m (200 yards) and 10 times of shuttle
 incident hy 5 m (5 yards), and thereafter according
 to service interval. (See "MAINTENANCE" section.)



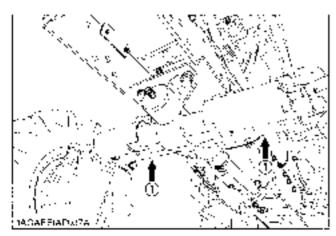
(1) 79 to 92 N-m (8 1 to 9.4 kg//m, 58.3 to 67.9 ft-lbs).



WARNING

To avoid personal injury or death:

- Before jacking up the tractor, park it on a firm and level ground and chock the rear wheels.
- Fix the front axle to keep if from swinging.
- Select jacks that withstand the machine weight and set them up as shown below.



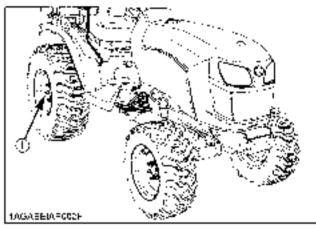
(7) Jack point

Rear Wheels

Rear tread width can not be adjusted,

IMPORTANT:

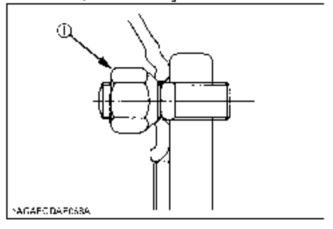
 When reliating or adjusting a whoel, tighten the bods to the following torques then recheck after driving the tractor 200 im (200 yards) and 10 times of shuttle movement by 5 m (5 yards), and thereafter according to service interval (See "MAINTENANCE" section.)



(1) 145 to 150 Nam (14.8 to 15.3 kg/rm, 107 (cto 110.6 flabs).

[Wheels with bevelod or tapered holes]

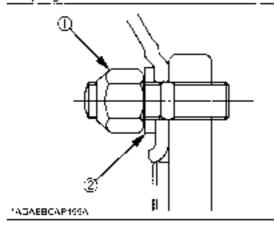
Use the tapered side of lug nut.



11) 19g auf

[Wheels without bevaled or tapered holes].

 Use the flat side of the lug nut. Make sure to apply the spring washer.



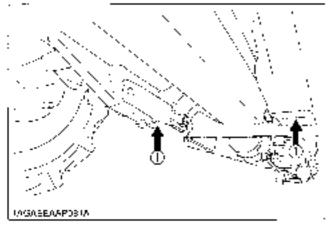
- (1) Ling nati
- (2) Spring Washer



WARNING

To avoid personal injury or death:

- Before jacking up the tractor, park it on a firm and level ground and chock the front wheels.
- Fix the front axle to keep it from swinging.
- Select jacks (hat withstand the machine weight and set them up as shown below.



(1) Jack paint

■ Treads

♦ Front

T:re	Models	Tread
K 12 Farm	B2301	14CAFECAP (08)
7 - 12 Farm	B2601	IV@VFRCVb.Da1 135 J ju.)
23x8 50 - 12 Turf	B2301 B2601	14G4FRQ4P:10D (32 9 D)
21x8.90 - 10 Bar	B2301 B2601	1434LBC4P109D = 135 € m)
23×5.50 - 12 Ind.	B2301 B2601	1AGAESCAP1:10 132 9 in ;

[Except USA models]

Tire	Models	Tread
6 12 Farm	82301	/95 mm (31.3 in.)
7 - 12 Farm	826C1	815 mm (32 1 in.)
22x8.50 - 12 Turf	B2301	14GAEBCAP1: DD (32 ½ in.)
24x8 50 · 12 Turf	62601	-AGAEBOADHAF 132 Binut

Rear [USA models]

Tire	Models	Tread
9.5 - 16 Fann	B2301	900 mm (35.4 m.)
: - 11.2 - 16 Farm	B2601	950 mm (37.4 m)
33x 12.5 - 15 Turl	82301 B2601	950 mm (37.4 m.)
31x 15.5 - 15 Bar	B2301 B2601	950mm (37 4in)
12 - 16.5 ind.	B2301 B2601	955 min (37.4 in.)

[Except USA models]

Tire	Models	
9.5 - 16 Farm	02301	900 mm (35.4 in.)
9 5 - 16 Farm	B2601	920 mm (36.2 in.)
31x 135- 15 Turf	B2301	970 mm (38.2 in.)
315/750 - 15 Turf	B260·	970 rnm (38.2 in)

BALLAST



WARNING

To avoid personal injury or death:

- Additional ballast will be needed for transporting heavy implements. When the implement is raised, drive slowly over rough ground, regardless of how much ballast is used.
- Do not fill the front wheels with liquid.

■ Front Ballast

Add weights if needed for stability and improving traction. Heavy pulling and heavy rear mounted implements tend to lift front wheels. Add enough ballast to maintain sleering control and prevent tip over.

Remove weight when no longer needed

◆ Front End Weights (option)

The front end weights can be attached to the bumper. See your implement operator's manual for required number of weights or consult your local KUBOTA Dearer to use.

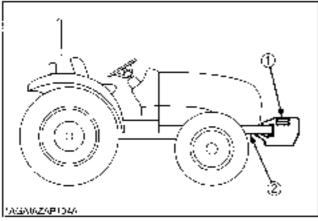
NOTE:

[For installation of up to 3 weights]

 Besides the weight, mounting both kitts) are required for mounting the weight.

(For installation of up to 5 weights)

 Besides the weight, a front weight bracket and mounting bott kit(s) are required for mounting the weight



- (1) Front and weights (riphon)
- (2) Front weight bracket (option)

EMPORTANT:

- Do not overload fires.
- Ado no more weight than indicated in chart.

Maximum weight	25 kg x 5 pieces (125 kg)

■Rear Ballast

Add weight to rear wheels if needed to improve traction or for stability. The amount of rear ballast should be matched to jub and the ballast should be removed when it is not needed.

The weight should be added to the tractor in the form of liquid ballost

Liquid Ballast in Rear Tires.

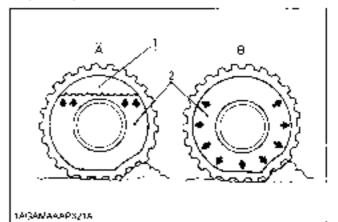
Water and calcium chloride solution provides safe economical ballast. Used properly, I will not damage tres, tubes or time. The addition of calcium chloride is recommended to prevent the water from freezing. Use of this method of weighting the wheels has the full approval of the tire companies. See your tire due or for this service.

Liquid weight per tire (75 Percent filled).

Fire sizes	9.5 - 16	11 2-16
Slush free at 10°C (14°F) Sold at -30°C (-22°F) [Approx. 1 kg(2 lbs.) CaCt: per 4L (1 ga.) of water	54 kg (119 bs.)	/0 kg (155 lbs.)
Slush free at (24°C (-11°F)) Sold at -47°C (-52°T) (Approx (1.5 kg/3.5 bs.) CaCb per 4L (1.gal.) of water[57 kg (126 bs.)	74 kg (163 lbs.)
Stush free at -47 °C (-52 °F) Shift: at 52 °C (62 °F) "Approx. 2 26 kg(6 lbs.) CaC / ster 4L (1 gal.) of water]	60 kg (132 cs)	78 kg :172 lbs 1

IMPORTANT:

 Do not I'll I res with water or solution more than 75% of full capacity (to the level of valve stem at 12 d'clock position).



- (B)Air
- (2) Water
- (A) Germal 75% Fair An compresses like a cushion (B. incorrect - 100% Fair
- Materican dol pe comblesseq

MAINTENANCE

SERVICE INTERVALS

			-					٦	deann	ronh	cur ma	de.						l	Hef	[
Þα	liems	•	73	ireo	153	200	250	300	250	400	460	500	550	600	650		900	merval	раде		
1	Engine (4)	Change	ō		İ	c				0	•			0				0x60y 200 Ur	äl		_
,	Engine oit litter	: : Replace	Ü			0				0				0			0	9•60y 200 Hr	61		_
J	Transmission of filters [HST]	Replace	v			0				0				0			О	every 200 Hr	62		
P	Hydraulic od Djer	Replace	μ							O							0	overv 400 Hi	65		
5	Transmission Tulo	Change				Į ,				0							С	9.60y 400 Hr	62		
ó	Frant exte reserve	Change	•				'	-		0	İ						О	every 400 Hr	67		_
7	elks inord Rjen,	Adjust	•	I						٥		İ					0	every 400 Hr	66		
ð	Englobisian system	Check	0	0	0	c	С	0	٥	0	0	0	ပ	c	0	٥	0	every 90 Hi	55		_
g	Breasing	-	0	0	0	0	С	c	0	0	0	0	0	0	o	O	0	every 50 Hi	55		
19	Wheel coll torque	Check	0	0	0	0	С	С	0	٥	0	0	0	c	o	0	0	every 50 Hi	25		Γ
11	Battery condition	Chec-		0		0		С		ပ		0		o		Ö	0	every 100 Hi	56	-5	li
	Ar cleaner element	Com		0		0		0	•	0		0		0		0	0	every 100 Hi	59		
12	(Double diement type) Prenent diement	Replace									·							every 1 year	67	-2	
-	An cleaner element (Double element type) Secondary element	Replace																every Lycar	67		
٠.3	Faet lite:	Clean		0		٥		0	•	0		0		0		0	0	every 100 Hi	53		ē
	รเลก:คาเ	Нер асе								0				· '			0	every 400 Hi	ω		
٠4	Fan tel	Adjust		0		0		. 0		0		0		0 1		0	0	ечегу 100 Нг	69		$ \ $
15	виче	Adjust		0		0		0		C		٥		ا ا		٥	0	HOD H	ęn		

No	liéms							In	d cabo	non t	SLT INE	ter					-		Hef		-
14.1	"#"	,	50	100	150	200	250	300	350	400	450	500	550	600	850	700	900	Irleval	bada		
ΙÊ	Fia-Lathr hose and	Cleak				O				О				0	F · -		0	avery 200 Hr	63		
	camp	Replace													'			avery 2 year	69		
17	Fue inc	Oheck	_	o		0		c		Ö		0		0		0	0	every 100 Hr	63		- @
	1 G. IIII.	Replace	_															every 2 year	63	13	- 120
1 R	lotake ar ine	Bheck				0				٥				0			0	every 200 Hr	63		
•••		Keplace																every 2 year	63	-,	
19	loein	Value				С	ı			Ω				O			0	every 200 Hr	64		:
23	Engine valve operance	Adjus:															0	every 800 Hr	67	-1	
21	Foe injection nazzie Injection pressure	Check										:			į.	, '		every 1500 Hr	67	٠.4	m m
72	Injection pump	Check									_		'					avery 3000 Hi	67	٠,	(3)
23	Cooling system	Flash		. –		'					ľ							every 2 year	67		Γ
24	Court	Change							i		ľ				•			avar _e 2 year	68		
25	Hud system	3 ⁰ ccd	_			Γ΄ :	. –				_								69		Г
25	Clutch housing water	Diai		-				l	:		·							service AS recored	09		
27	Filse	Replace														'	'	recores	70		
29	Light tult	Replace	. –																70		П

IMPORTANT:

- The jobs indicated by ☆ must be done after the first 50 hours of operation.
 - *1 An cleaner should be cleaned more often in severe dusty conditions.
 - 12 Every year or after 6 cleanings.
 - 13 Replace only if necessary.
 - *4 Consult your local KUBOTA Dealer for this service.
 - 15 When the battery is used for less than 100 hours per year, check the fluid leve, annually,
- The items listed above (@ markert) are registered as emission related critical parts by KUBOTA in the U.S.EPA nonroad
 critisation 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, FUEL AND COOLANT

No	Locations	Capacit es	1	ucaete				
141)	Cocatons	82301/82601						
ı	Fuel	23 L (6 1 U.S.gais.)	No. 2-C 915 dieset für No. 1-C 915 dieset für il ten	perature 5 below 10t0(14fF)				
2	Coplant (with recovery lank)	3 8 L (4 D L) S qts)	Fresh dear soft water with a	nlı-freeze				
	i		• Engine oil Refer to mext p	vigis.				
3	Engine coankoase	941.99112.063	Above 25℃(77*F)	SAE30, SAE10W-30 or 15W-40				
,	(with filler)	3 1 L (3 2 U.S.qls.)	-10°C to 25°C (14 to 77°F)	SAE20, SAE10W-30 or 15W-40				
	ĺ		Below -10℃(*4%)	SAE10W-30				
4	Transmission case	15 L (4.i) U Sigals (■ KUBOTA SUPER UOT-2 f	Juid				
5	Front axle case	3.5 t. (3.7 U.S.qts.)	• KUBCTA SUPER UCT-21	Nid ur SAE80 SAE 90 gisir ail				
	Greating	No. of greasing points	Сарвоту	Type of grease				
	◆ To;: trik	1						
Б	Figure [≝4]	1	Urtil grease overflows	Multipurpose Grease NEG - 2 OR NEGI-1 (GC-LB)				
	• Brake pedal	ı	⊣					
	Baltery lemmals 2		moderale amount					

NOTE:
The product name of KUBOTA genuine UDT fluid may be different from that in the Operator's Manual depending on countries or territories. Consult your local KUBOTA Dealer for further details.

		_		_			
			For	North Ame	rrican marke	at .	ı
L_	 						ı

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.
- Refer to the following table for the suitable API classification engine oil according to the engine type (with internal EGR, external EGR or non-PGR) and the fire!

Fuel used	Enqine oil classificate	un (API classification)
l ner dae.	Oil class of engines except external EGR	Or class of engines with external EGR
Ultra Low Solfur Fuel [<0.0015% (15 ppm)]	CF, CF-4, CG-4. CH-4 or CF-4	GF or CI-4 (Class CF-4, CG-4 and CH-4 engine nils cannot be used on EGR type engines)

EGR: Exhaust Gas Re-circulation

The CJ 4 engine or is intended for DPF (Diesel Particulate Filter) type origines, and cannot be used on this tractor.

	except external LGR	with external EGR
Mode s	B2301 / B2601	

Fuel:

- Cetane number of 45 is minimum. Cetane number greater than 50 is preferred, especially for temperatures follows:
 20 °C (-4 °F) or elevations above 1500 m (5000 °U).
- Diesel fue's specified to EN 590 or ASTM D975 are recommended.
- No 2 D is a disligate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JJN87)

Transmission Oil:

*KUBOTA Super UDT-2: For an enhanced ownership experience, we highly recommend Super UDT-2 to be used instead of slandard hydraul orbitalism on full.

Super UDT-2 is a proprietary KUBOTA formulation that delivers superior performance and protection in a Loperating conditions.

Regular UDT is also permitted for use in this machine.

Initicated capacities of water and oil are manufacturer's estimate.

For other than North American market

NOTE:

Engine Oil:

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAB.
 Engine Oil according to the ambient temperatures as shown above.
- With the emission control may in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low sulfur fuel on co-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the "CF or better" lubricating or with a high Total Base Number (TBN of 10 minimum).
- Refer to the following table for the suitable API classification engine bit according to the engine type (with internal EGR, external EGR or non-EGR) and the fuel (low-sulfur or high-sulfur fue).

F	Engine oil class fication (API classification)							
Fue: used	Oil class of engines except external EGR	Oil class of engines with external EQ						
High Sulfur Fue: ≥ 0.05% (500 ppm)]	CF (Tibe *CF-4, CG-4, CH-4 or CI-4* lebricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals. (approximately half))							
Low Sulfur Fue !<0.05% (500 ppm)] or Ultra Low Sulfur Fuel [<0.0015% (15 ppm)]	CF, CF-4, CG-4. CH-4 or CI-4	CF or CI-4 (Class CF-4, CG-4 and CH-4 engine oils cannot be used on EGR type engines)						

EGR: Exhaust Gas Re-circulation.

The CJ-4 engine oil is intended for DPH (Diesel Particulate Filler) type engines, and cannot be used on this tractor.

	except external EGR	with external EGR
Models	B2301 / B2601	

Fuel:

- Celane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below.
 20 °C on diovations above 1500 m.
- If diesel fuel with sulfur content greater than 0.5% (5000 opm) sulfur content is used, reduce the service interval for engine oil and filter by 50%
- NEVER use dieset fuel with sulfur content greater than 0.05% (500 ppm) for EXTERNAL EGR type engine.
- DO NOT use dieselfuel with sulfur content greater than 1.0% (10000 ppm).
- Diesel fliels specified to EN 590 or AS1M D975 are recommended.
- No.2-D is a distillate fuel of lower votatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)

Transmission Oil:

The oil used to lubricate the transmission is also used as hydraulic fluid. To insure proper operation of the hydraulic system and to complete jubrication of the transmission, it is important that a multi-grace transmission fluid is used in this system. We recommend the use of **KUBOTA UDT or SUPER UDT** fluid for optimum protection and performance. (Consult your local KUBOTA Dealer for further detail.)

Du nut mix different brands together

Indicated capacities of water and oil are manufacturer's estimate.

PERIODIC SERVICE

HOW TO OPEN THE HOOD



WARNING

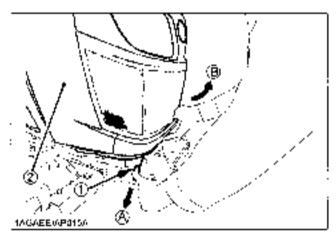
To avoid personal injury or death from contact with moving parts:

- Never open the hood or engine side cover while the engine is running.
- Do not touch muffler or exhaust pipes while they are hot; Severe burns could result.
- Support hood with other hand while unlocking support rod.

■Hood

Open the hood

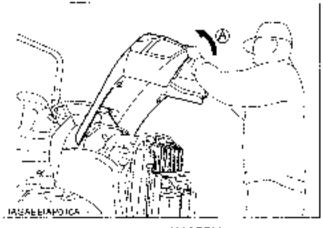
 Slightly pull up the hood to unlock it with pulling the release lever.



- 71) Release leven
- (2) Hnort

- W/PULL*
- (8) ISOGHTLY PULL GET

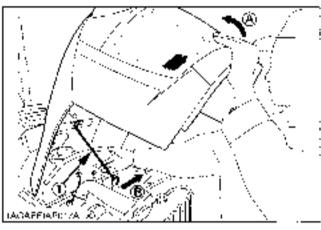
2. Open the hood by holding its bottom with both hands.



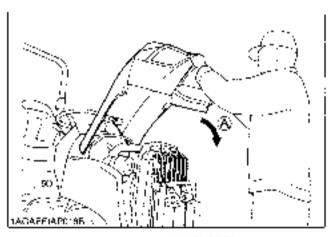
(A) "OPEN"

Close the hood

 To close the hood, hold the hood and release the support root.



- (1) Support ma
- (A) 1H0L01 (B) 1PULL1
- 2. In closing the hood, use both hands again.

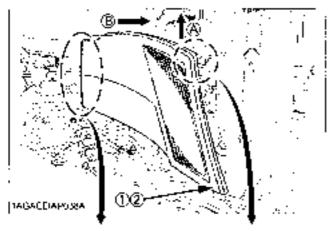


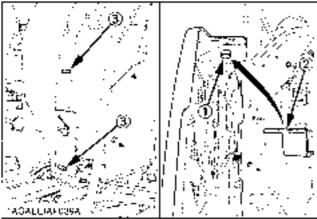
(A) "CLOSE"

■ Engine Side Cover

Removing the side cover

- Lift up the engine side cover and free the upper and lower projections.
- Purithe cover toward "B" and delach the notch.





- (ii) Projectico
- 72) Hole (3) Notch

- (A) YOFT DE"
- 786 TAULET

· Attaching the side cover

To attach the cover, taxe the reverse order.

DAILY CHECK



WARNING

To avoid personal injury or death:

Take the following precautions when checking the

- Park the machine on firm and level ground.
- Set the parking brake.
- Lower the implement to the ground.
- All residual pressure of the hydraulic system released.
- Stop the engine and remove the key.

■Walk Around Inspection

Look around and under the tractor for such items as loose. bolts, trash build-up, or or coolant leaks, proken or worn parls.

Checking and Refueling

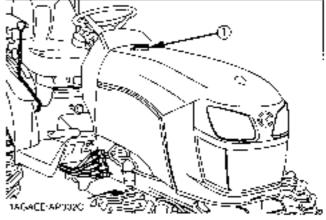


WARNING

To avoid personal injury or death:

- Do not smoke while refueling.
- Be sure to stop the engine before refueling.
- 1. Turn the key switch to "ON", check the amount of fuel by friet gauge.
- 2. Fillfue tank when fuel gauge shows 1/4 or less fuel in
- Use grade No.2-Diese fuel at temperatures above. -10°C (14°F).

Use grade No 1-Diese, fuel at temperatures below -10°C (14°F).



(1) Fuel rank can.

Fuel tank repacity

23 L (6 1 U.5.gals.)

IMPORTANT:

- Do not permit dirt or trash to get into the fuel system.
- Be careful not to let the fuel tank become empty, otherwise air will enter the fuel system, necessitating bleeding before next engine start.
- Be careful not to spill during relucting. If you should spill, wipe it off at once, or it may cause a fire.
- To prevent condensation (water) accumulation in the fuel tank full the tank before parking overnight.

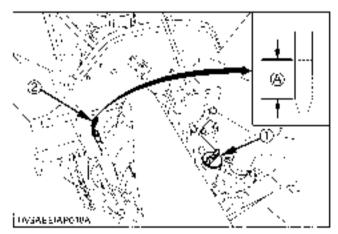
■Checking Engine Oil Level



WARNING

To avoid personal injury or death:

- Be sure to stop the engine before checking the oil level.
- Park the machine on a flat surface.
- Check engine oil before starting the engine or 5 minutes or more after the engine has stooped.
- 3 To check the oil level, draw out the dipstick, wipe 1 clean, replace it, and draw it out again. Check to see that the oil level lies within the crosshalched area if the level is too low, add new oil to the prescribed level at the oil infet.
 - (See "LUBRICANTS" in "MAINTENANCE" section.)



(1) Oil inlat. (2) Dipshok

(A) Of Revel is acceptable within this range

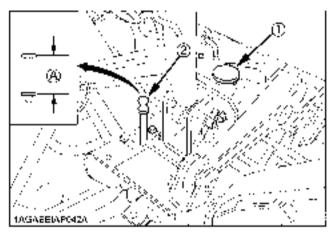
IMPORTANT:

- When using an oil of different maker or viscosity from the previous one, remove all of the diffinity.
 Never mix two different types of oil.
- If all level is low, do not run engine.

■Checking Transmission Fluid Level

- Park the machine on a flat surface, ower the implement and shot off engine.
- To check the oil level draw out the dipstick, wipe it clean, replace it, and draw it out again. Check to see that the oil level lies within the crosshalched area.
 If the level is loo low, add new oil to the prescribed level at the oil inlot.

(See "LUBRICANTS" in "MAINTENANCE" section.)



(7) Oil ime!

(A) Ot level is acceptable within this range.

(2) Digastick

EMPORTANT:

If all level is low, do not run engine.

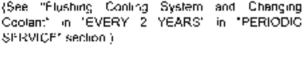
■Checking Coolant Level

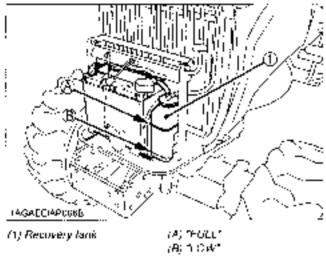


WARNING

To avoid personal injury or death:

- Do not remove radiator cap while coolant is hot. When cool, slowly rotate cap to the first slop and allow sufficient time for excess pressure to escape before removing the cap completely.
- Check to see that the coolant level is between the "FULL" and "LOW" marks of recovery tank.
- When the coolant level drops due to evaporation addisoft water only up to the full level.
 In case of leakage, add anti-freeze and soft water in the specified mixing ratio up to the full level.
 (See "Flushing Cooling System and Changing Coolant" in "EVERY 2 YEARS" in "PERIODIC.



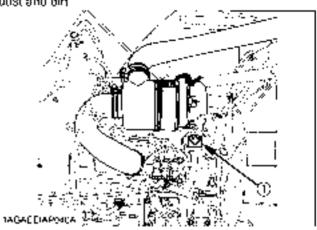


IMPORTANT:

- If the radiator cap has to be removed, follow the caution above and securely relighter the cap
- Use clean, fresh soft water and anti-freeze to fill the recovery tank.
- If water should leak, consult your local KUBOTA Dealer

■Cleaning Evacuator Valve

Open the evacuator valve to get rid of large particles of dust and dirt.



(f) Evacuator valve

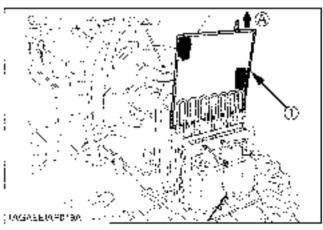
■Cleaning Grill and Radiator Screen



WARNING

To avoid personal injury or death:

- Be sure to stop the engine and remove the key before removing the screen.
- Check front grill and side screens to be sure they are dean of dobns
- Detach the screen and remove all foreign material and dean the front of radiator completely



(f) Hagistor screen

(A) f0STACH1

IMPORTANT:

Gril and screen must be clean from debus to prevertiongine from overheating and to a low good air intake for the air cleaner.

■Checking Brake Pedal

- inspect the brake pedals for free travel, and smooth operation
- Adjust if incorrect measurement is found: (Sec "Adjusting Brake Poda" in "F,VERY 100 HOURS" in "PERIODIC SERVICE" section.)

■Checking Gauges, Meter and Easy Checker(TM)

- Inspect the instrument panel for broken gauge(s), meler(s) and Easy Checker(TM).
- Replace if broken.

■Checking Head Light, Hazard Light etc.

- 1. Inspect the lights for broken bulbs and lenses.
- 2. Replace if broken.

■Checking Seat Belt and RQPS

- Always check condition of seat belt and RQPS attaching hardware before operating tractor.
- Replace if camaged.

■Checking and Cleaning of Electrical Wiring and Battery Cables



WARNING

To avoid personal injury or death:

- A loosened terminal or connector, or damaged wire may affect the performance of electrical components or cause short circuits. Leekage of electricity could result in a fire hazard, a dead battery or damage to electrical components.
- Replace damaged wires or connections promptly.
- If a fuse blows soon after replacement, DO NOT USE A LARGER THAN RECOMMENDED FUSE OR BYPASS THE FUSE SYSTEM.
- Many wiring connections are protected by waterproof plugs, plug and unplug these connections carefully and make sure they are sealed correctly after assembly.
- Accumulation of dust, chaff or spilled fuel deposits around the battery, electrical wiring, engine or exhaust system are a fire hazard.
 CLEAN THESE AREAS BEFORE STARTING WORK.

To avoid premature electrical malfunctions DO NOT APPLY high pressure water directly to battery, wiring, connectors, electrical components or instrument panel.

Inspect the following Regularly:

- Check wiring for chafed or cracked insulation.
- Check wining harness clamps. Replace if necessary.
- Check connectors and terminals for tooseness, contamination or overheated (discolured) connections.
- Check instrument panel for correct operation of switches and gauges.

Consult your Kubota Dealer regarding maintenance, diagonsis and repair

■Checking Movable Parts

If any of the movable parts, such as levers and pedals, is not smoothly moved because of rust or sticky material, do not attempt to force it into motion.

In the above case, remove the rust or the sticky material, and apply oil or grease on the relevant spot.

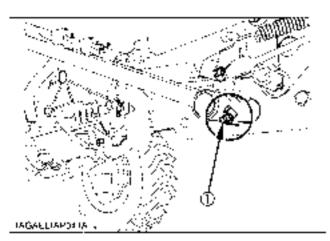
Otherwise, the machine may get damaged.

EVERY 50 HOURS

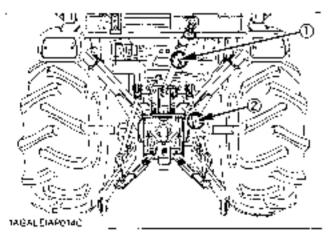
■Lubricating Grease Fittings

Apply a small amount of mulipurpose grease to the following points every 50 hours:

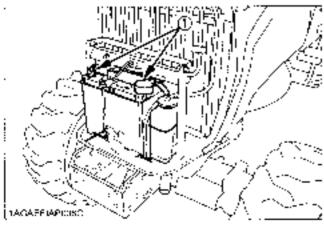
I you operated the machine in extremely well and muddy conditions, lubricate grease fittings more often.



(1) Grease fitting (Brake pedals)



- Grease filling (Top link).
- (2) Grease litting (Lifting rad, right)



11) Battery terminals

■Checking Engine Start System



WARNING

To avoid personal injury or death:

- Do not allow anyone near the tractor while testing.
- If the Iraclor does not pass the test do not operate the tractor.
- Detach an implement before testing.

Preparation before testing.

- 1. Sit on operator's seat.
- 2. Set the parking brake and stop the engine.
- Shift the range gear shift lever to "NEUTRAL" position.
- Place the speed control peda in "NEUTRAL" position.
- Shift the PTC clutch lever to "OFF" position.

◆ Test : Switch for the speed control pedal.

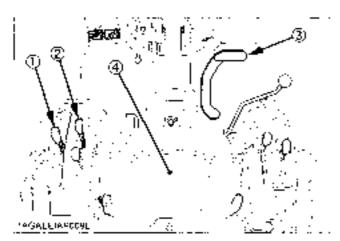
- Depress the speed control pedal.
- 2. Turn the key to "START" position.
- 3. The engine must not crank.
- If it cranks, consult your local KUBOTA Dealer for this service.

Test: Switch for the PTO clutch lever.

- Place the speed control pedal in "NEUTRAL" position.
- Shift the PTO clutch layer to "ON" position.
- 3. Turn the key to "START" position.
- The engine must not crank.
- If it cranks, consult your local KUBOTA Dealer for this service.

Test: Switches for the operator's seat and the PTO clutch lever.

- Sit on the operator's seat.
- 2. Start the engine.
- Engage the PTO clutch lever.
- Stand up. (Do not get off the machine.).
- The origine most shulloff after approximately 1 second.
- If it does not stop, consult your local KUBOTA Dealer for this service.



- Range generatifit lever (L. M.H).
- (2) HTO stillchileven
- (3) Epied control padal
- (4) Operator's seaf.

■Checking Wheel Bolt Torque

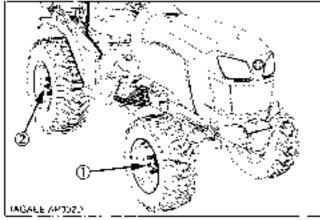


WARNING

To avoid personal injury or death:

- Never operate tractor with a loose rim, wheel, or axis.
- Any time boils and nuts are loosened, retightento specified torque.
- Check all boits and nuts frequently and keep them tight.

Check wheel bods and nuls regularly especially when new if they are loose, tighten them as follows:



(1) 79 to 92 Nam (8.1 to 5.4 kg/an | 55.5 to 67.9 ft-lbs.) (2) 745 to 750 Nam /14 8 to 75 3 kg/an | 107 0 to 110 0 tf-lbs.)

EVERY 100 HOURS

■Checking Battery Condition



DANGER

To avoid the possibility of battery explosion: For the refillable type battery, follow the instructions below.

Do not use or charge the refillable type battery if the fluid level is below the LOWER (lower limit level) mark. Otherwise, the battery component parts may prematurely deteriorate, which may shorten the battery's service life or cause an explosion. Check the fluid level regularly and add distilled water as required so that the fluid level is between the UPPER and LOWER levels.



WARNING

To avoid personal injury or death:

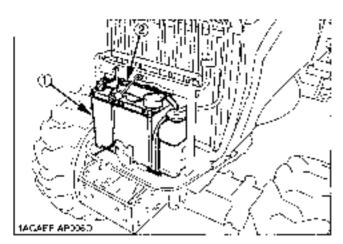
- Never remove the battery cap while the engine is running.
- Keep electrolyte away from eyes, hands and clothes. If you are spattered with it, wash it away completely with water immediately and get medical attention.
- Keep open sparks and flames away from the battery at all times. Hydrogen gas mixed with oxygen becomes very explosive.
- Wear eye protection and rubber gloves when working around battery.

The factory-installed battery is of non-refillable type. If the indicator turns white, do not charge the : battery but replace it with new one

Mishandling the battery shortens the service life and adds to maintenance costs.

The original battery is maintenance free, but needs some servicing

If the battery is weak, the engine will be difficult to start and the lights will be dim. It is important to check the battery periodically.



(1) Bartery

(2) Indicator

How to read the indicator.

Check the baltery condition by reading the indicator.

State of indicator display		
Green	Specific gray by of electrolyte and quality of electrolyte are both in good condition.	
Black	Needs charging baltery.	
White	Needs replacing battery	

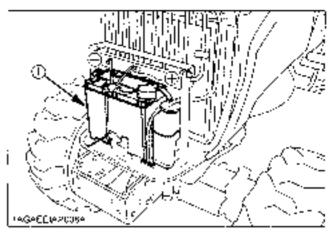
Battery Charging



WARNING

To avoid personal injury or death:

- When the battery is being activated, hydrogen and oxygen gases in the battery are extremely explosive. Keep open sparks and flames away from the battery at all times, especially when charging the battery.
- When charging the battery, ensure the vent caps are securely in place. (If equipped)
- When disconnecting the cable from the battery, start with the negative terminal first.
 When connecting the cable to the battery, start with the positive terminal first.
- Never check battery charge by placing a metal object across the posts.
 Use a voltmeter or hydrometer.



(1) Baltery

- To slow charge the pattery, connect the battery
 positive terminal to the charger positive terminal and
 the negative to the negative, then recharge in the
 standard fash on
- 2 A boost charge is only for emergencies. It will partially charge line battery at a high rate and in a short time. When using a boost-charged battery, it is necessary to recharge the battery as early as possible.
- Failure to do this will shorten the pattery's service life.The battery is charged if the indicator display turns green from black.
- When exchanging an old battery for a new one, use battery of equal specification shown in table 1.

[TABLE 1]

Вавету Турн	Valts (V)	Dapacity at 5 hr (Ah)	Capacity	Cold Crarking Amps (A)	Normal Chargeo Rate (A)
99824U;SH MH	17	36	ลา	470	45

Direction for Storage

- When storing the tractor for a long period, remove the battery from tractor, adjust the electrolyte to the proper level and store in a dry place out of direct sunlight.
- The battery self-discharges while it is stered Recharge it once every 3 months in hot seasons and unce every 6 months, in cold seasons.

■Cleaning Air Cleaner Primary Element



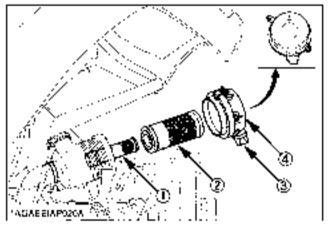
WARNING

To avoid personal injury or death:

- Be sure to stop the engine and remove the key before cleaning air filter element.
- Remove the air cleaner cover and primary element.
- Clean the primary element;
 - (1) When dry dust adheres to the element, brow-compressed air from the inside, furning the element. Pressure of compressed air must be under 205 kPa (2.1 kg/km², 30 psi).
 - (2) When carbon or oil aitheres to the element soak the element in detergent for 15 minutes then wash it several times in water, ruse with clear water and dry it naturally. After element is fully dried, inspect inside of the element with a light and check if 4 is damaged or not.
- Replace air cleaner premary element
 Once yearty or after every sixth cleaning, whichever comes first.

NOTE

 Check to see if the evacuator valve is blocked with dust.



- Secondary (safety) element
- (2) Primary element
- jä) Evacuáror valve
- (4) Cover

IMPORTANT:

- The air cleaner uses a dry element, never apply bil.
- Do not run the engine with filter element removed.
- Be sure to relit the cover with the arrow * (on the rear
 of cover) upright. If the cover is improperly fitted
 evacuator valve will not function and dust will adhere
 to the element.
- Do not touch the secondary element except in cases where replacing is required.
 - (See "Replacing Air Cleaner Secondary Element" in "EVERY 1 YEAR" in "PERIODIC SERVICE" section).

Evacuator Valve

Open the evacuator valve once a week under ordinary conditions - or daily when used in a dusty place - to get rid of large particles of dust and dirt.

■Cleaning Fuel Filter



WARNING

To avoid personal injury or death:

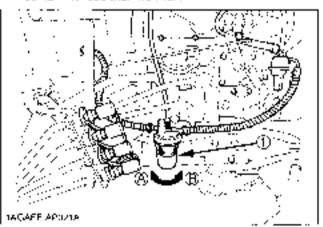
- Stop the origine and remove the key before checking fuel lines and fuel filter.
- Check the fuel lines periodically. The fuel lines are subject to wear and aging. Fuel may leak out onto the running engine, causing a fire.
- Protect your hands when using kerosene to clean components.

This job should not be done in the field, but in a steam place.

- Loosen and remove the filter bowl, and rinse the inside with kerosene.
- Take out the element and dip if in the kerosene to since.
- After cleaning, reassemble the fuel filler, keeping outdust and dirt.
- 4 Bleed the fuel system (See "SERVICE AS REQUIRED" in "PERIODIC SHRV-CE" section.)

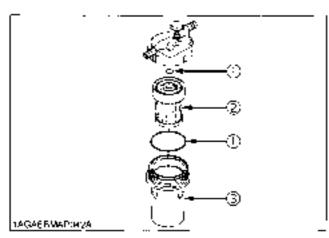
IMPORTANT.

 When the fuel filter bowl has been removed, fuel stops flowing from the fuel lank. If the fuel lank is almost fuel, however, the fuel will flow back from the fuel return pipe to the fuel filter. Before checking, make sure the fuel tank is less than ha f-full.



(1) Fuel Manbowl

(A) "LOOSEN" (B) "TIGHTEN"



- (1) O mg
- (2) Eller element
- (5) Effer how

IMPORTANT:

 If dust, did or water enters the fuel system, the fuel pump and injection nozzles are subject to premature wear. To prevent this, be sure to clean the fuel filter bowl and element periodically.

■Adjusting Fan Belt Tension



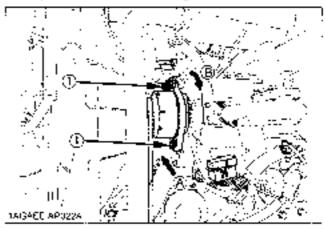
WARNING

To avoid personal injury or death:

 Be sure to stop the engine before checking bolt tension.

Proper fan belt Jenskon A deflection of between 7 to 9 mm (0.28 to 9.35 in.) when the belt is pressed in the middle of the span.

- Stop the engine and remove the key.
- Apply moderate thumb pressure to belt between pulleys
- If tension is incorrect, loosen the alternator mounting britishand, using a level placed between the alternator and the engine block, bull the alternator out until the deflection of the belt falls within acceptable limits.
- 4. Replace fan belt if it is damaged.



71) Boll

(A) Check the belt tension (8) To lighten

■Adjusting Brake Pedal



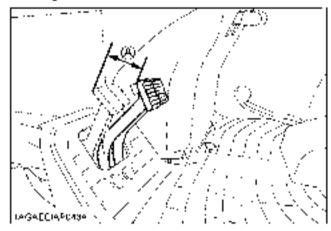
WARNING

To avoid personal injury or death:

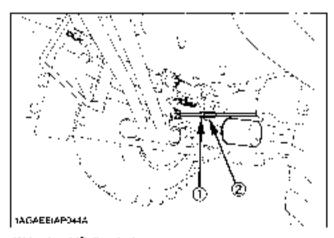
 Stop the engine and chock the wheels before checking brake pedal.

l Proper braka pedal	30 to 40 rum on the pedal
free trave	Keep the free travel in the right and left brake pedals equal

- Release the parking brake.
- Slightly decress the brake pedals and measure free travel at the top of pedal stroke.
- If adjustment is needed loosen the lock out and turn the tumbuckle to adjust the rod length within acceptable limits.
- 4. Retighten the lock nut.



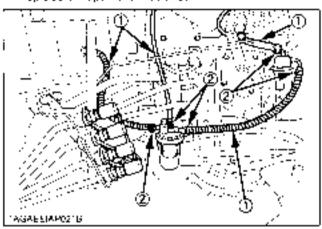
(A) Free maye!



- (1) Lack nut (Both sides).
- (2) Tumbuckis (Both sides).

■Checking Fuel Line

- Check to see that all lines and hose clamps are tight and not damaged.
- If hoses and clamps are found worn or camaged, replace or repair them at once



- (1) Fuel lines
- (2) Clamp banda

NOTE:

 If the fuel line is removed, be sure to properly bleed the fuel system.

(See "Bleeding Fuel System" in "SERVICE AS REQUIRED" in "PERIODIC SERVICE" section ()

EVERY 200 HOURS

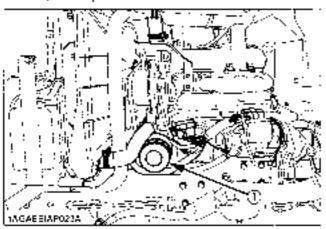
■Replacing Engine Oll Filter



WARNING

To avoid personal injury or death:

- Be sure to stop the engine before changing the oli filter cartridge.
- Allow engine to cool down sufficiently, oil can be hot and can burn.
- Remove the or filter.
- Put a film of clean engine cit on the rubber seal of the new litter
- I ghten the filter quickly until it contacts the mounting surface.
 - I oblem filter by hand an additional 1/2 turn only
- 4. After the new filter has been replaced, the engine oil normally decreases at little. Make sure that the engine oil does not leak through the seal and be sure to check the nit level on the digatick. Then, replenish the engine oil up to the prescribed level.



(1) Engine oil filter

IMPORTANT:

 To prevent serious damage to the engine, use only a KUBOTA genuine filter.

■Changing Engine oil

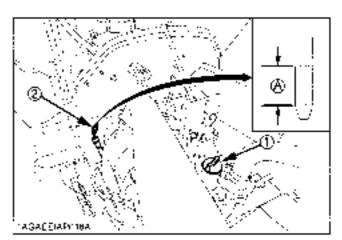


WARNING

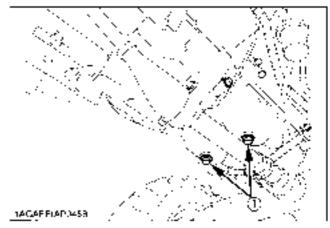
To avoid personal injury or death:

- Be sure to stop the engine before changing the oil.
- Allow engine to cool down sufficiently, oil can be hot and can burn.
- To drain the used oil iremove the drain plug at the bottom of the engine and drain the bill completely into the bill pan.
 - All the used oil can be drained out easily when the engine is still warm.
- After draining releastal, the drain plug.
- Fill with the new oil up to the upper line on the dipst ck. (See "LUBRICANTS" in "MAINTENANCE" section.)

Oil capacity with filter 3.1 L (3.3 U.S.qts.)



- Ot inlet
 Diostroli
- (A) Ot revel is acceptable within this range.



(1) Brain plug (both sides)

■Replacing Transmission Oil Filter [HST]

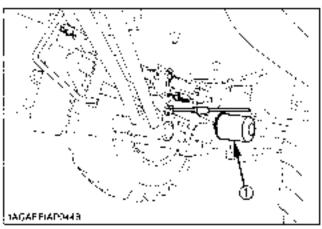


WARNING

To avoid personal Injury or death:

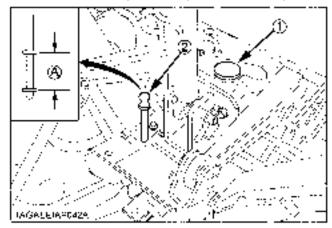
- Be sure to stop the engine before changing the oil litter cartridge.
- Allow engine to cool down sufficiently, oil can be hot and can burn.
- Place the oil pan underneath the transmission oil fifter and remove the filter

Do not remove the Hydraulic oil filter. Otherwise, the oil comes out.



(1) Transmission on filler [HST]

- Put a film of clean transmission oil on the rubber scal of the new filter.
- Quickly tighten the filer until it contacts the mounting surface, then, with a filter wrench, tighten it an additional 1 turn only
- After the new filter has been replaced, fill the transmission oil up to the upper limit on the dipstick.



 On intell (2) Ωφείτακ

(A) Oil level is acceptable within this range

 After running the engine for a few minutes, slop the engine and check the bil level again, add oil to the prescribed level. 6 Make sure that the transmission fluid doesn't leak past the seal on the filter

IMPORTANT:

- To prevent serious damage to the hydraulic system, use only a KUBOTA genuine filter.
- Do not operate the tractor immediately after changing the transmission fluid.
 - Run the engine all medium speed for a few minutes to prevent damage to the transmission

■Checking Radiator Hose and Clamp



WARNING

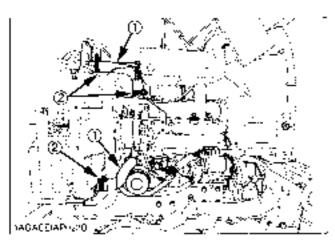
To avoid personal injury or death:

- Be sure to stop the engine and remove the key before checking radiator hose and ctamp.
- Allow engine and coolent to cool down sufficiently before checking.

Check to see if radiator hoses are properly fixed every 200 hours of operation or 6 months, whichever comes first.

- If hose plamps are loose or water leaks, tighten bands secure/y
- Replace hoses and lighten hose clamps securely, if radiator hoses are swollen, hardened or cracked

Replace hoses and hose clamps every 2 years or earlier if checked and found that hoses are swoken, hardened or cracked.



- (1) Rediafor hoses (2 hoses)
- (2) Cicrep brinds (4 clamps).

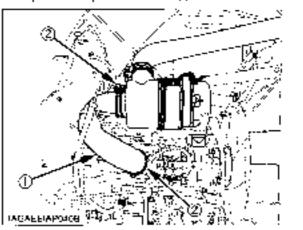
Precaution at Overheating

Take the following actions in the event the coolant temperature is nearly or more than the boiling point, what is called "Overheating"

- Park the tractor in a safe place and keep the engine unloaded idling.
- Don't stop the engine suddenly, but stop it after about 5 minutes of unloaded idling
- Keep yourself well away from the machine for further.
 minutes or while the steam blows out.
- 4. Check that there are no dangers such as burns. Got rid of the causes of overheating according to the manual, see "TROUBLESHOOTING" section, and then, slad again the engine.

Checking Intake Air Line

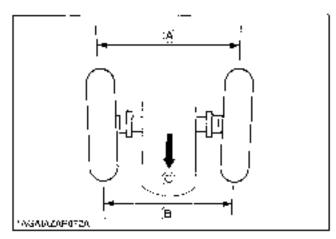
- Check to see that hoses and hose clamps are tight and not damaged.
- 2. If hoses and clamps are found worn or damaged, replace or repair them at noce.



- (1) Hose
- (2) Hose clamps

■Adjusting Toe-in

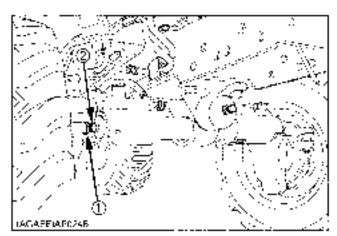
- Park tractor on a flat place.
- Turn sleering wheel so from wheels are in the straight ahead position.
- Lower the implement lock the park brake and stop the engine.
- Measure distance between the heads at front of the, hub height
- Measure distance between tire beads at rear of tire hub neight.
- 6 Front distance should be 0 to 10 mm (0 to 3/8 in.) less than rear distance. If not, adjust tile red length.



(A) Wheel - to - wheel distance at rear.
 (B) Wheel - to - wheel distance at front.
 (C) TERON (T)

Adjusting procedures.

- 1. Uposen the lie-rod nut.
- Turn the tie-rod joint to adjust the rod length until the proper too-io measurement is obtained.
- Retighter the tie-rod nut.



- (f) Tre-rod out
- (2) The rost point.

EVERY 400 HOURS

■Changing Transmission Fluid



WARNING

To avoid personal injury or death:

- Allow engine to cool down sufficiently, all can be hot and can burn.
- To drain the used oil, remove the drain plug at the bottom of the transmission case and drain the oil completely into the oil pain.
- After draining reinstall the drain plug.
- Fill with new KUBOTA SUPER UDT flood up to the upper limit on the dipstick.
 {See "LUBRICANTS" in "MAINTENANCE" section and "DAILY CHECK" in "PERIODIC SERVICE"
- After running the engine for a few minutes, stop it and check the oil level again, add oil to prescribed level.
- Froperly dispose of used cir.

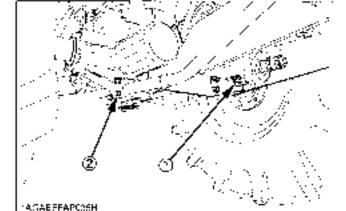
section)

Oil capacity

ACAEEIAPOMZA

- (1) Oil inlet (2) Oijustick
- rA, Oil level is acceptable within this range.

15 L (4 O U Sigals)



- (0) Oran plot
- (2) Oram plug (Both sides)

IMPORTANT:

- If the 3-point bitch can not be raised by setting the hydrauno control lever to the UP position after long term storage or when changing the transmission or from sleering whose to the right and left several times to bleed air from the system.
- Do not operate the tractor immediately after changing the transmission fluid

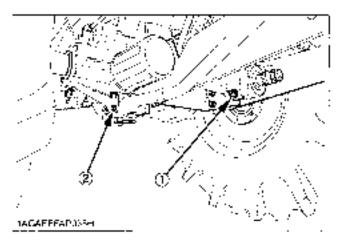
Replacing Hydraulic Oil Filter



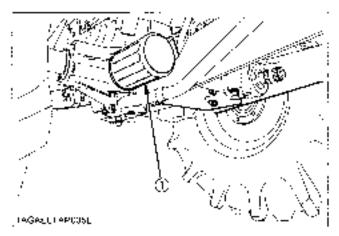
WARNING

To avoid personal injury or death:

- Be sure to stop the engine before changing the oil filter cartridge.
- Allow engine to cool down sufficiently, oil can be not and can burn.
- Remove the drain plugs at the bottom of the transmission case and drain the of completely into the oil pan.
- 2. After draining reinstall the drain plugs

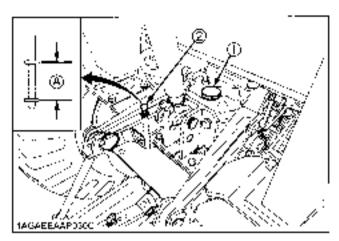


- (1) Brest plug-
- (2) Drein plug (Bolli svies).
- 3. Remove the oil filter



(1) Hydraulic oil hiter.

- Put a film of clean transmission oil on the rubber seal of the new filter.
- Ouickly tighten the filter until it contacts the mounting surface, then lighten it by hand an additional 1/2 turn only.
- 6 After the new filler has been replaced, fill the transmission oil up to the upper limit on the dipstick.



- (1) Oil inial
- (A). Oil level in acceptable within this range
- (2) Dipsnok
- After running the engine for a few minutes, stop the engine and check the bill level again, add oil to the prescribed level.
- Make sure that the transmission fluid doesn't leak past the seal on the filter

IMPORTANT:

 To prevent scrious damage to the hydraulic system, use only a KUBOTA genuine filter.

■Adjusting Front Axle Pivot [4WD]



WARNING

To avoid personal injury or death:

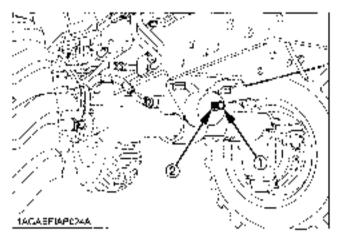
- Park the tractor on a flat place.
- Lower the implement, lock the parking brake and stop the engine.

If the front axle pivot pin adjustment is not correct, front wheal vibration can occur causing vibration in the steering wheel

Adjusting procedure

Loosen the lock nut, and tighten the adjusting screw so that the osol along load is 50 to 100 N (5.1 to 10.2 kgf, 11.2 to 22.5 bf). (If the adjusting screw is lightened, cosened and retightened, apply liquid gasket to its tip.) Retighten the lock nut

Consult your local KUBOTA Dealer for further details.



- (1) Adjusting show
- 72) Look auf

■Replacing Fuel Filter Element

(See "Cleaning Fuel Filter" in "EVERY 100 HOURS" in "PERIOD(CISERVICE" section.)

■Changing Front Axle Case Oil

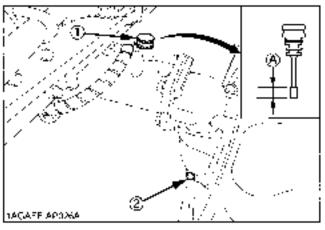
- Park the tractor on a firm, flat and level surface.
- To drain the used nil, remove the right and left drain plugs and filling plug at the front axle case and drain the or completely into the nil pan.
- After draining, reinstal the drain plugs.
- Fill with new oil up to the upper noticle on the dipatick (See "LUBRICANTS" in "MAINTENANCE" section)

IMPORTANT:

- After ±0 minutes, check the bit level again, add oil to presented level
- 5 After fitting, reinstall the fiting plug.
- 6 Properly dispose of used oil

Oil capacity

3.5 L (3.7 U.S.cts.)



- Filling plug with dipetics.
 Drain plug
- (A) Oil level is acceptable, within this range.

EVERY 800 HOURS

■Adjusting Engine Valve Clearance

Consult your local KUBOTA Dearer for this service.

EVERY 1 500 HOURS

■Checking Fuel Injection Nozzle Injection Pressure

Consult your local KUBOTA Dealer for this service.

EVERY 3 000 HOURS

■Checking Injection Pump

Consult your local KUBOTA Dealer for this service.

EVERY 1 YEAR

■ Replacing Air Cleaner Primary Element and Secondary Element

(See "Cleaning Air Cleaner Primary Element" in "EVERY 100 HOURS" in "PERIODIC SERVICE" section.)

IMPORTANT:

 To prevent serious damage to the engine, use only a KUBOTA genuine filter.

EVERY 2 YEARS

■Flushing Cooling System and Changing Coolant

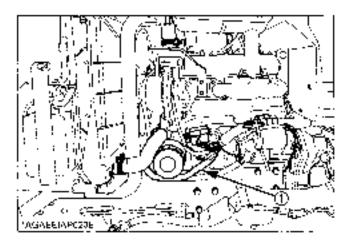


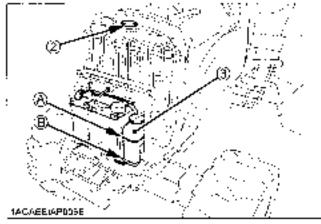
WARNING

To avoid personal injury or death:

- Do not remove radiator cap while coplant 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.
- Stop the engine, remove the key and let it cool down.
- 2 To drain the coolant, disconnect the radiator hase (engine side), and remove the radiator cap. The radiator cap must be removed to completely drain the coolant.
- Alter all quo ant is drained, reconnect the radiator hose.
- 4 Fill with dean soft water and cooling system cleaner.
- 5. Follow directions of the cleaner instruction.
- After flushing, fill with clean soft water and anti-freeze and the one antilevel is just below the radiator cap. Install the radiator cap securely.
- Fill with contact up to the "FULL" mark of recovery tank.
- Start and operate the engine for few minutes.
- 9. Stop the engine, remove the key and let cool.
- Check dud anti-evel of recovery tank and add coplant finecessary
- Properly dispose of used document.

	· · · —
Coolant capacity (with recovery tank)	3.8 L (4.0 J S gals)





- (1) Rediator hose (2) Rediator cap
- (A) TULL" (B) TLOW
- Recovery tack

IMPORTANT:

- Do not start engine without coplant.
- Use clean, fresh soft water and anti-freeze to fill the radiater and recovery tank.
- When mixing the anti-freeze with water, the anti-freeze mixing ratio is 50%
- Securely tighten radiator cap. If the cap is toose or improperly filted, water may leak out and the engine could overheat.

■Anti-Freeze



WARNING

To avoid personal injury or death:

- When using antifreeze, put on some protection such as rubber gloves (Antifreeze contains poison.).
- If it is swallowed, seek immediate medical help.
 Do NOT make a person throw up unless told to do so by poison control or a health care professional. Use standard first aid and CPR for signs of shock or cardiac arrest. Call your local Poison Control Center or your local emergency number for further assistance.
- When antifreeze comes in contact with the skin or clothing, wash if off immediately.
- Do not mix different types of Antifreaza.
 The mixture can produce chemical reaction causing harmful substances.
- Antifreeze is extremely flammable and explosive under certain conditions. Keep fire and children away from antifreeze.
- When draining fluids from the engine, place some container underweath the engine body.
- Do not pour waste onto the grounds, down a drain, or into any water source.
- Also, observe the relevant environmental protection regulations when disposing of antifreeze.

Always use a 50/50 mix of long-life cod ant and clean soft water in KUBOTA engines.

Consult your local KUBOTA Dealer concerning cod antifor extreme conditions

- Long-life coolant (hereafter LLC) comes in several types. Use othylene glycol (EG) type for this engine.
- Before employing LLC-mixed cooling water, fill the raciator with fresh water and emply it again.
 Repeat this procedure 2 or 3 times to clean up the inside.
- Mixing the LLC
 Premix 50% LLC with 50% clean soft water. When mixing, stir if up well, and then fill into the radiator.
- The procedure for the mixing of water and antifreeze differs according to the make of the antifreeze and the ambient temperature. Refer to SAE J1034 standard, more specifically also to SAE J814c

Vol %	Freezing Point		Boiling Point*	
Anti-freeze	TC	l F	rc	F
50	-37	-34	108	226

At 1,013 x 10 Pa (760mmHg) pressure (atmospheric).
 A higher polling point is obtained by using a radiator pressure cap which permits the development of pressure within the cooling system.

- S Adding the L1 C
 - Acd only water if the mixture reduces in amount by evaporation.
 - (2) If there is a mixture leak, add the LLC of the same manufacturer and type in the same mixture percentage.
 - Never add any long-life coolant of different manufacturer. (Different brands may have different additive components, and the engine may fail to perform as specified.)
- When the LLC is mixed, do not employ any radiator deaning agent. The LLC contains anticorrosive agent it in xed with the deaning agent, sludge may build up, adversely affecting the engine parts.
- Kubota's genuine long-life coplant has a service life of 2 years. He sure to change the coplant every 2 years.

NOTE:

 The above data represent industry standards that necessitate a minimum glycol contout in the concentrated antifreeze.

■Replacing Radiator Hose (Water pipes)

Replace the licees and clamps (See "Checking Radiator Hose and Clamp" in "EVERY 200 HOURS" in "PERIODIC SERVICE" section.)

■Replacing Fuel Hose

Consult your local KUBOTA Dealer for this service

Replacing Intake Air Line

Consult your local KUBOTA Dealer for this service.

SERVICE AS REQUIRED

■Bleeding Fuel System

Air must be removed:

- When the fuel fifter or times are removed.
- When the tank is completely empty.
- After the fractor has not been used for a long period of time.

Bleeding procedure is as follows:

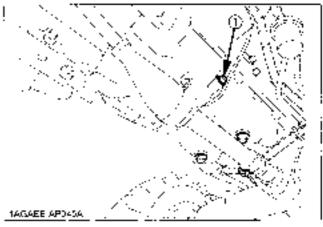
- 1. Fill the fuel lank with fuel
- Start the engine and run for about 30 seconds, and then stop the engine

■Draining Clutch Housing Water

The tractor is equipped with a drain plug under the clutch housing

After operating in rain, snow or tractor has been washed, water may get into the clutch bousing.

Remove the drain plug and drain the water, then install the plug again.



(1) Water arein plog

■Replacing Fuse

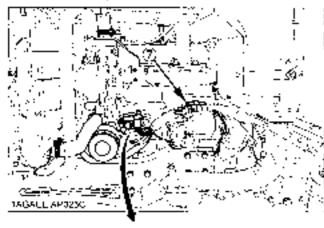
The tractor electrical system is protected from potential damage by fuses.

A blown fuse indicates that there is an overload or short somewhere in the electrical system.

If any of the fuses should blow, reprace with a new one of the same capacity.

IMPORTANT:

 Before replacing a brown fuse, determine why the fuse blew, and make any necessary repairs that ure to follow this procedure may result in serious damage to the trader electrical system. Refer to the "TROUBLESHOOTING" section of this manual or your local KUBOTA Disaler for specific information cealing with electrical problems.



FLASHER HAZARI)	10A	(T
SOLENC D	30A	(Z)
OUTLET IR SHT SIDE ₁ (MAX, 120W)	104	3
HEADIL GHI PANEL	104	æ
WORK LIGHT (MAX (35W)	EΑ	5
GLOW LAMP	5A	®

1AGAEEIAPD#SA

Protected circuit

	FirSE No.	CAPACITY (A)	Prolected omnit
	(0)	10	Flasher / Hazaro
ľ	(2)	30	Salmaid
İ	(3)	10	Cullet (Right side)
	(4)	10	Head Light / Panel
ľ	(5)	5	Work light
	(6)	6	Glow lamp
	(7)	Slaw blaw fuse	Check crouit against wrong battery connection

■Replacing Light Bulb

Heart lights.

Take the oulb out of the light body and replace with a new one.

Other lights
 Delect the lens and replace the builb.

Laht	Capacity
Head ight	23 W
fail light / Turn signal	21 / 5 W
Hazard Light / Turn signal	. 32 CP

STORAGE



WARNING

To avoid personal injury or death:

- Do not clean the machine while the engine is cunning.
- To avoid the danger of exhaust fume poisoning, do not operate the engine in a closed building without proper ventilation.
- When storing, remove the key from the key switch to avoid unauthorized persons from operating the tractor and getting injured.

TRACTOR STORAGE

If you intend to store your tractor for an extended period of time, follow the procedures outlined below. These procedures will insure that the tractor is ready to operate with minimum preparation when it is removed from storage.

- Check the bolts and nuts for looseness, and tighten if necessary.
- Apply grease to tractor areas where bare metal will rust also to pivot areas.
- Delach the weights from the fractor body.
- 4. Inflate the tires to a pressure a little higher than usual.
- Change the engine oil and run the engine to circulate all throughout the engine block and internal moving parts for about 5 minutes.
- With a Limplements towered to the ground, coat any exposed hydraulic bytinder piston rods with grease.
- Remove the battery from the tractor. Store the hattery following the battery storage procedures. (See "Battery" in "EVERY 100 HOURS" in "PERIODIC SERVICE" section.)
- Keep the tractor in a dry place where the tractor is shellered from the elements. Cover the tractor.
- 9. Store the tractor indoors in a dry area that is protected from sunlight and excessive heat. If the tractor must be stored outdoors, cover it with a waterproof tarpaulin. Jack the tractor up and place blocks under the front and rear axies so that all 4 tires are off the ground Keep the tires out of direct sunlight and extreme heat.

IMPORTANT:

- When washing the tractor, be sure to stop the engine.
 Allow sufficient time for the engine to one before washing.
- Cover the tractor after the muffler and the engine have copied down.

REMOVING THE TRACTOR FROM STORAGE

- Check the tire air pressure and inflate the tires if they are low.
- Jack the tractor up and remove the support blocks from under the front and rear axies.
- Install the battery, Before instalting the battery, be sure it is fully charged.
- 4. Check the fan belt lension
- Check all fluid levers (engine bill transmission/ hydraulic bill engine coolant and any attached implements)
- 6. Start the engine. Observe all gauges, if all gauges are functioning properly and reading normal, move the tractor outside. Once outside, park the tractor and let the engine idle for at least 5 minutes. Shut the engine off and walk around tractor and make a visual inspection locking for evidence of oil or water leaks.
- With the engine fully warmed up, release the parking brake and test the brakes for proper adjustment as you move forward. Adjust the brakes as necessary

TROUBLESHOOTING

ENGINE TROUBLESHOOTING

If something is wrong with the engine, rafer to the table below for the cause and its corrective measure

Trouble		Cause	Countermeasure	
Engine is difficult to start or won't start.		No fuel flow.	Check the fuel tank and the fuel filter. Replace filter if necessary.	
		 Auc or water is in the fue system. 	 Check to see if the fuel line coupler bott and nut are hight Bleed the fuel system. (See "Bleeding Finel System" in "SERVICE AS REQUIRED" in "PERIODIC SERVICE" soci on) Remove water from the system and replace the fuel filler. 	
		 In winter, cliviscosity increases, and engine revolution is srow. 	Use pils of different viscosities, depending on ambient temperatures Use engine block heater (Option)	
		 Battery becomes weak and the progression does not form over quick enough. Charge the battery. In cold weather, always remove the from the engine, charge and store in this latter only when the going to be used. 		
Insufficient engine power.		Insufficient or dizty fuel. The air cleaner is clogged.	Check the fuel system Clean or replace the element.	
Engine stops suddenly.		Insufficient fuel	Refuel. Bleed the fuel system if necessary.	
Exhaust furnes are	Black	 Firel quality is price. Too much oil. The air cleaner is clogged. 	Change the fuel and fuel filler. Check the proper amount of oil. Clean or replace the element.	
colored.	Blue white	The inside of exhaust muffler is dumped with fue. Injection nozzle trouble Fuel quality is poor.	 Heat the muffler by applying load to the engine. Check the injection nozzle Change the fuel and fuel filter. 	
		Engine overloaded	Shift to lower gear or reduce load.	
Engine overheats.		Low cod ant revel.	 Fill cooling system to the correct leve; check radiator and hoses for loose connections or eaks. 	
		Loose or defective fan beit.	Adjust or replace fan be 1.	
		Dirty radiator core or grille screens	Remove a Urash	
		Coc ant flow route corroded.	Flush coc- ng system.	

If you have any questions, consult your local KUBOTA Dealer

OPTIONS

Consult your local KUBOTA Dealer for further detail

- Rear Work Light High visibility for night work
- Front end weights For front ballast
- Mounting Kit (Front end weights)
 To mount Front end weights
- Engine Block Heater
 For extremely cold weather starting
- · Rear Remote Hydrau ds
- Alternator kit

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Since its inception in 1890, KUBOTA Corporation has grown to rank as one of the major firms in Japan.

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