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Telephone : (614)835-1100
Southeast Division : 1025 Northbrook Parkway, Suwanee, GA 30024
Telephone : (770)995-8855
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Regus, Level 2 Altius, Olympia Tech Park, No.1 SIDCO Industrial Estate, Guindy, Chennai 600032, TN, India
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KUBOTA Corporation

Code No.
N° de code. TD179-1971-5
Code Nr.

L3540.L4240.L5040.L5240.L5740

OPERATOR'S MANUAL
KUBOTA TRACTOR

MANUEL DE L'UTILISATEUR
KUBOTA TRACTEUR

BEDIENUNGSANLEITUNG
KUBOTA TRAKTOR

ENGLISH
FRANÇAIS
DEUTSCH

1AGAWAEAP013A

MODELS L3540
MODELES L4240
MODELLE L5040
L5240
L5740

READ AND SAVE THIS MANUAL
MANUEL A LIRE ET A CONSERVER
DIESE ANLEITUNG SORGFÄLTIG DURCHLESEN UND AUFBEWAHREN

PRINTED IN JAPAN
IMPRIME AU JAPON
DRUCK : JAPAN

ENGLISH

ABBREVIATION LIST

Abbreviations	Definitions
2WD	Two Wheel Drive
4WD	Four Wheel Drive
API	American Petroleum Institute
ASABE	American Society of Agricultural and Biological Engineers, USA
ASTM	American Society for Testing and Materials, USA
DIN	Deutshes Institut für Normung, GERMANY
DT	Dual Traction (4WD)
fpm	Feet Per Minute
GST	Glide shift Transmission
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 travel
ROPS	Roll-Over Protective Structures
rpm	Revolutions Per Minute
rps	Revolutions Per Second
SAE	Society of Automotive Engineers, USA
SMV	Slow Moving Vehicle

Intended use

This machine is designed solely for use in customary agricultural or similar operations. Use in any other way is considered as contrary to the intended use. Compliance with and strict adherence to the conditions of operation, service, and repair as specified by the manufacturer, also constitute essential elements of the intended use.
This machine should be operated, serviced, and repaired only by persons who are familiar with its particular characteristics and who are acquainted with the relevant safety procedures.
Accident prevention regulations, all other generally recognized regulations on safety and occupational medicine, and all road traffic regulations must be observed at all times.
Any arbitrary modifications carried out to this machine may relieve the manufacturer of liability for any resulting damage or injury.

manufacturer or distributor of the machine	Kubota Corporation
the model designation of the machine	L3540/L4240/L5040/L5240/L5740
the name or type of publication	Operator's Manual
the part number or publication number by which the manual may be ordered	TD179-1971-4
the date of issue	April 27, 2007
the publication date	February 1, 2012
the language in which the manual is written	English

KUBOTA Corporation C'EST ···

Depuis sa fondation en 1890, KUBOTA Corporation a progressé pour figurer au rang des plus grandes entreprises du Japon.

Pour parvenir à cette position, la Société a diversifié, au cours des années, la gamme de ses produits et services de façon remarquable. Aujourd'hui, 19 usines et 16,000 employés produisent plus de 1,000 articles et produits différents petits et grands.

Tous ces produits et les services qui en dépendent sont toutefois liés à un souci majeur:
KUBOTA fabrique des produits qui, pris à une échelle nationale sont des nécessités de base, produits indispensables, produits conçus pour aider les hommes et leurs nations à tirer parti du potentiel inhérent à leur environnement, KUBOTA est le géant des nécessités de base.

Ce potentiel inclut l'approvisionnement en eau, la production d'aliments tirés du sol et de la mer, le développement industriel, l'architecture et la construction, les transports.

Des milliers de personnes font confiance au savoir faire de KUBOTA, à sa technologie, à son expérience et à son service après vente, vous aussi pouvez faire confiance à KUBOTA.

KUBOTA ist ···

Seit der Firmengründung im Jahre 1890 ist KUBOTA zu einem der wichtigsten Unternehmen in Japan angewachsen.

Hierzu hat zum großen Teil die ständige Erweiterung der Produktpalette und das ständig wachsende Angebot an Dienstleistungen beigetragen. Heute werden von 16000 Beschäftigten in 19 Werken mehr als 1000 verschiedene Produkte hergestellt.

Das vorrangige Ziel von KUBOTA ist es, mit seinen Produkten und den dazugehörigen Dienstleistungen Grundbedürfnissen gerecht zu werden, auch auf internationaler Ebene.
Die von KUBOTA hergestellten Produkte sind unverzichtbar; sie helfen einzelnen Personen, sogar ganzen Nationen die örtlich gegebenen Möglichkeiten in Bereichen wie Wasserversorgung, Landwirtschaft, Fischerei, Industrie, Archtitektur, Bau-und Transportwesen bestmöglich auszuschöpfen. Tausende bauen auf KUBOTA -und Sie?

AR . G . 10 - 12 . 4 . AK

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.


Safety Alert Symbol


Diesel Fuel


Fuel-Level

Engine-Rotational Speed


Hourmeter/Elapsed Operating Hours


Engine Coolant-Temperature


Diesel Preheat/Glow Plugs (Low Temperature Start Aid)


Parking Brake


Engine Intake/Combustion Air-Filter


Battery Charging Condition


Engine Oil-Pressure


Turn Signal

Engine-Stop


Engine-Run


Starter Control

Engine Shut-Off Control


Power Take-Off Clutch Control-Off Position (Disengaged)


Power Take-Off Clutch Control-On Position (Engaged)


Differential Lock


Position Control-Raised Position


Position Control-Lowered Position


Draft Control-Shallow Position


Draft Control-Deep Position


3-Point Lowering Speed Control


Remote Cylinder-Retract


Remote Cylinder-Extend


Steering Wheel-Tilt Control


Hazard Warning Lights


Master Lighting Switch


Position Lamps


Headlight-Low Beam


Headlight-High Beam


Audible Warning Device


Four-Wheel Drive-On


Four-Wheel Drive-Off


Fast


Slow


Creep


Read Operator's Manual


Tractor-Forward Movement-Overhead View of Machine


Tractor-Rearward Movement-Overhead View of Machine


Engine Speed Control

ENGLISH

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. If your tractor is provided with CAB, also read the CAB operator's manual, which is a separate manual. 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.

SAFETY FIRST

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.

DANGER :	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
WARNING :	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
CAUTION :	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
IMPORTANT :	Indicates that equipment or property damage could result if instructions are not followed.
NOTE :	Gives helpful information.

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CONTENTS

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⚠ SAFE OPERATION

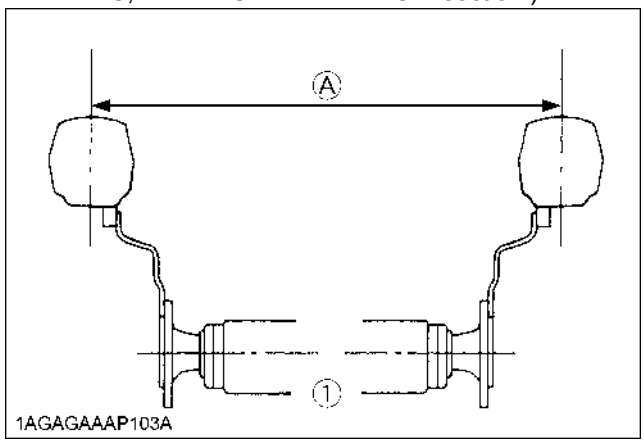
Careful operation is your best insurance against an accident.

Read and understand this manual carefully before operating the tractor.

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

1. BEFORE OPERATING THE TRACTOR

1. Know your equipment and its limitations. Read this entire manual before attempting to start and operate the tractor.
2. Pay special attention to pictorial safety labels on the tractor.
3. Do not operate the tractor or any implement attached to it while under the influence of alcohol, medication, controlled substances or while fatigued.
4. Carefully check the vicinity before operating tractor or any implement attached to it. Check for overhead clearance which may interfere with a CAB or ROPS. Do not allow any bystanders around or near tractor during operation.
5. Before allowing other people to use your tractor, explain how to operate and have them read this manual before operation.
6. 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.
7. Do not allow passengers to ride on any part of the tractor at anytime. The operator must remain in the tractor seat during operation.
8. 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.)
9. Keep your tractor clean. Dirt, grease, and trash build up may contribute to fires and lead to personal injury.
10. Use only implements meeting the specifications listed under "IMPLEMENT LIMITATIONS" in this manual or implements approved by KUBOTA.
11. 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.
12. 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.)



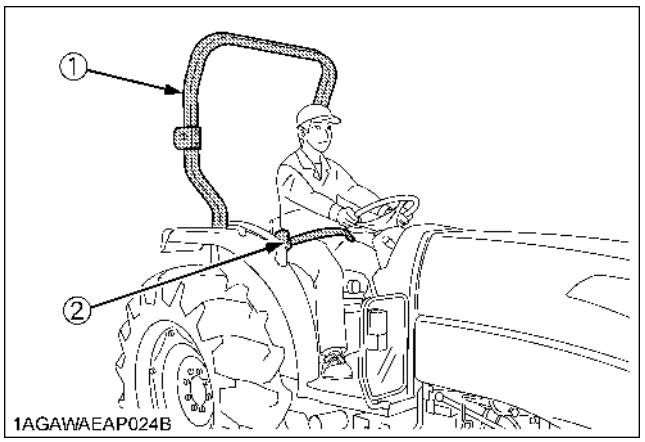
(1) Rear wheels *(A) Tread Width*

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

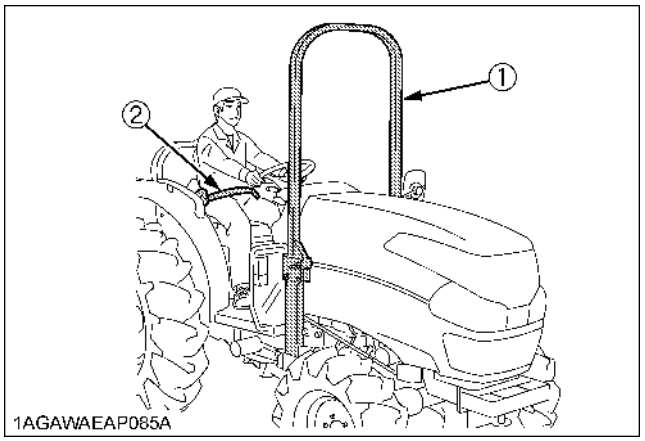
◆ **CAB, ROPS**

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

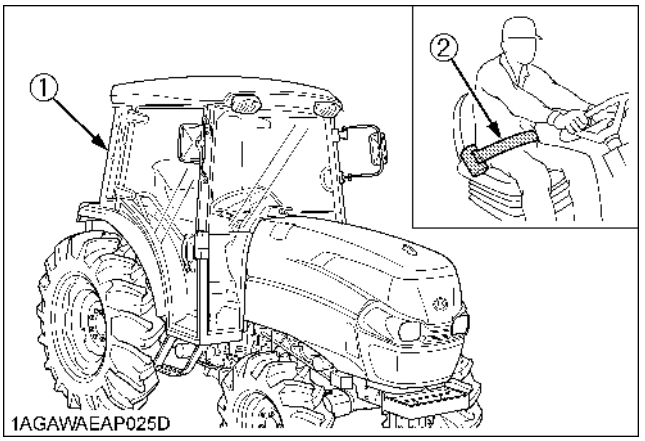
7. If the tractor is equipped with a foldable ROPS it may be temporarily folded down only when absolutely necessary for areas with height constraints.
   (There is no operator protection provided by the ROPS in the folded position. For operator safety the ROPS should be placed in the upright and locked position and the seat belt fastened for all other operations.)
8. 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



(1) Mid mount type ROPS
(2) Seat belt



(1) CAB
(2) Seat belt

2. OPERATING THE TRACTOR

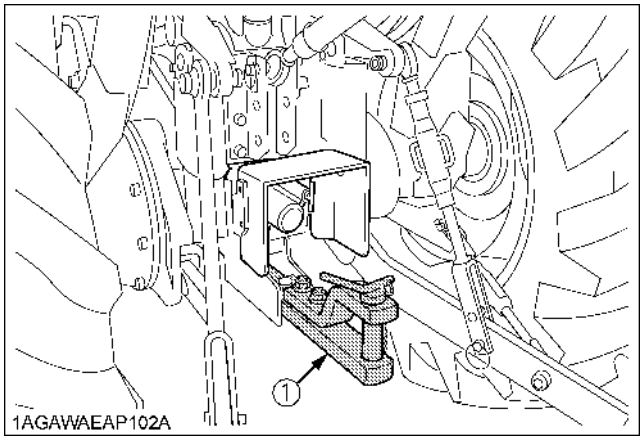
Operator safety is a priority. Safe operation, specifically with respect to overturning hazards, entails understanding the equipment and environmental conditions at the time of use. Some prohibited uses which can affect overturning hazards include traveling and turning with implements and loads carried 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**

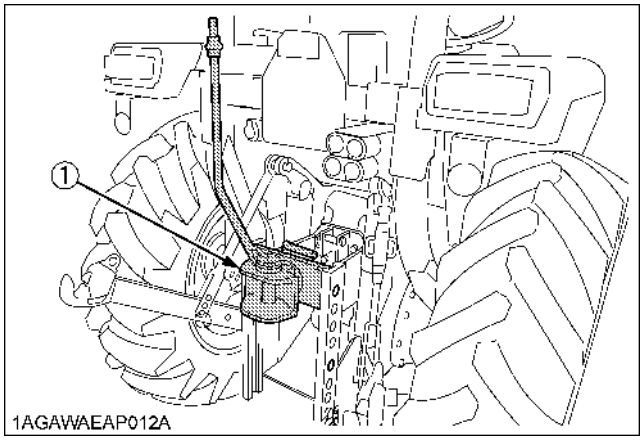
1. Always sit in the operator's seat when starting engine or operating levers or controls. Adjust seat per instructions in the operating the tractor section. Never start engine while standing on the ground.
2. Before starting the engine, make sure that all levers (including auxiliary control levers) 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, a fixed ROPS or a foldable ROPS in the upright and locked position.
3. 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.
4. Do not operate or idle engine in a non-ventilated area. Carbon monoxide gas is colorless, odorless, and deadly.

◆ **Working**

1. Pull only from the hitch devices. 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



(1) High-hitch

2. Keep all shields and guards in place. Replace any that are missing or damaged.
3. Avoid sudden starts. To avoid upsets, slow down when turning, on uneven ground, and before stopping.
4. The tractor cannot turn with the differential locked and attempting to do so could be dangerous.
5. 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.
6. Watch where you are going at all times. Watch for and avoid obstacles. Be alert at row ends, near trees, and other obstructions.
7. When working in groups, always let the others know what you are going to do before you do it.
8. Never try to get on or off a moving tractor.
9. Always sit in the operator's seat when operating levers or controls.
10. 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.

1. 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.
7. Use extra caution when backing up. Look behind and down to make sure area is clear before moving.

◆ **Operating on slopes**

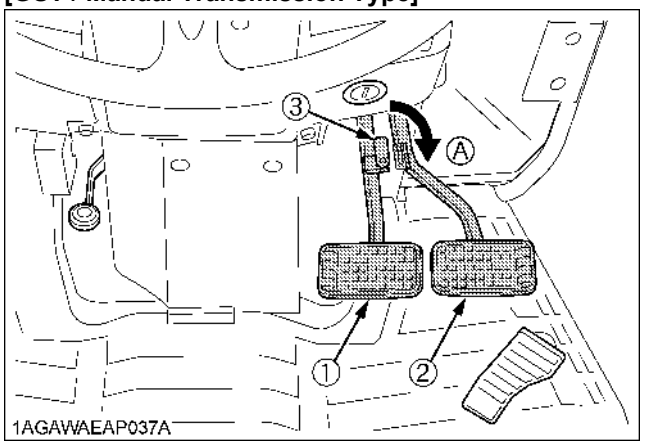
Slopes are a major factor related to loss-of-control and tip-over accidents, which can result in severe injury or death. All slopes require extra caution.

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" section.
   Follow recommendations for proper ballasting.

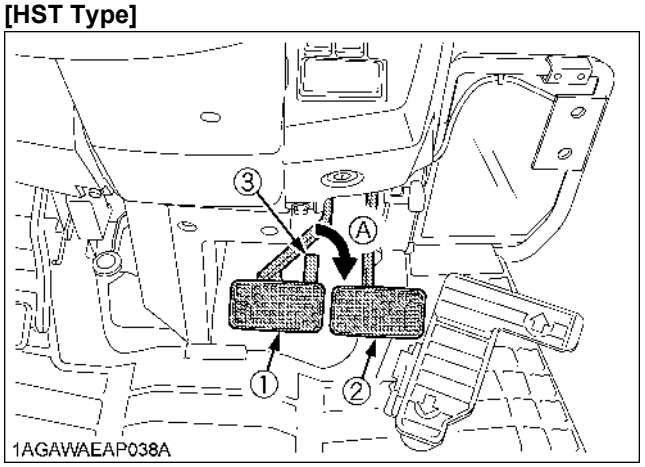
◆ **Driving the tractor on the road**

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.

[GST / Manual Transmission Type]

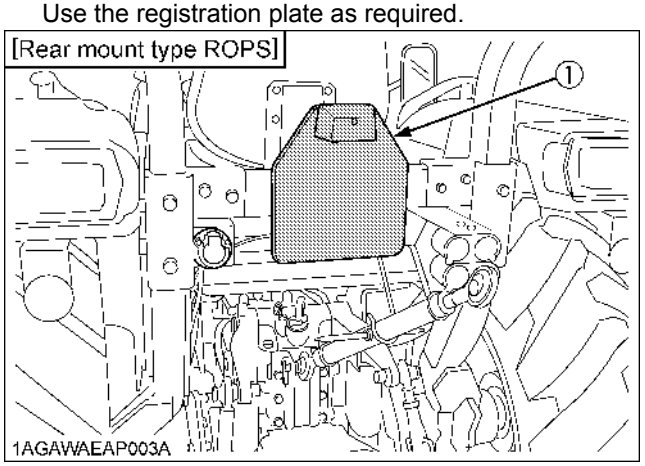


[HST Type]

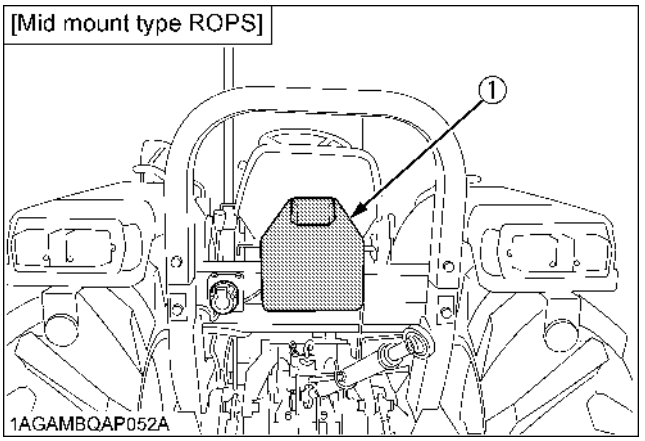


(1) Brake Pedal (LH)
(2) Brake Pedal (RH)
(3) Brake Pedal Lock
(A) Whenever traveling on the road

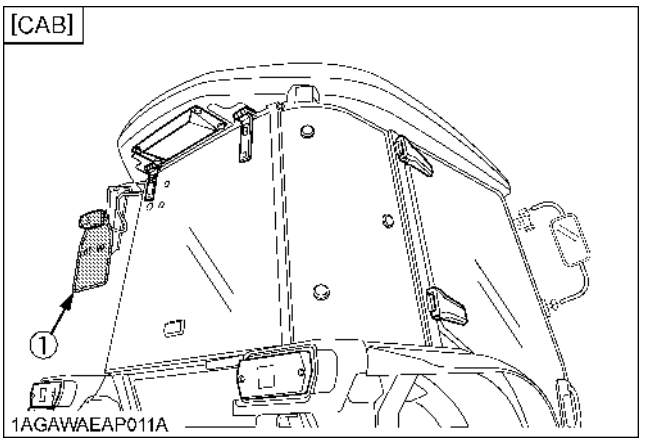
2. Check the front wheel engagement. The braking characteristics are different between 2 and 4-wheel drive. Be aware of the difference and use carefully.
3. Always slow the tractor down before turning. Turning at high speed may tip the tractor over.
4. Observe all local traffic and safety regulations. Use the registration plate as required.



(1) Registration plate



(1) Registration plate



(1) Registration plate

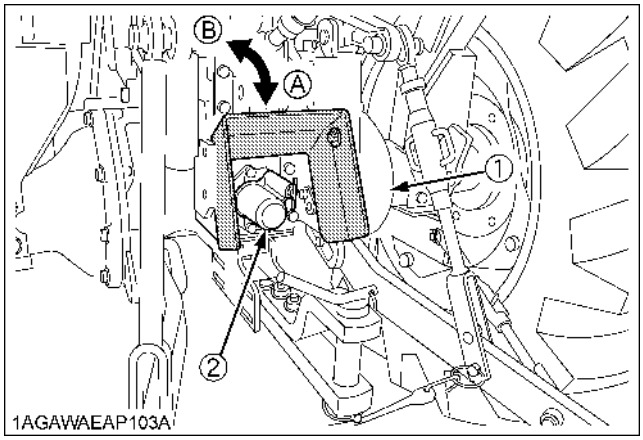
5. Turn the headlights on. Dim them when meeting another vehicle.
6. Drive at speeds that allow you to maintain control at all times.
7. Do not apply the differential lock while traveling at road speeds. The tractor may run out of control.
8. Avoid sudden motions of the steering wheel as they can lead to a dangerous loss of stability. The risk is especially great when the tractor is traveling at road speeds.
9. 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.
10. Do not operate an implement while the tractor is on the road. Lock the 3-point hitch in the raised position.
11. For trailing PTO-driven implements, set the hitch devices to the towing position.
12. Attach pulled or towed loads to the hitch devices only.

3. PARKING THE TRACTOR

1. Disengage the PTO, lower all implements to the ground, place all control levers in their neutral positions, set the parking brake, stop the engine, 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. (GST type, HST type)
2. Make sure that the tractor has come to a complete stop before dismounting.
3. 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. When parking your machine if at all possible park on a firm, flat and level surface; if not, park across a slope. Set the parking brake(s), lower the implements to the ground, remove the key from the ignition and lock the cab door (if equipped) and chock the wheels.

4. OPERATING THE PTO

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

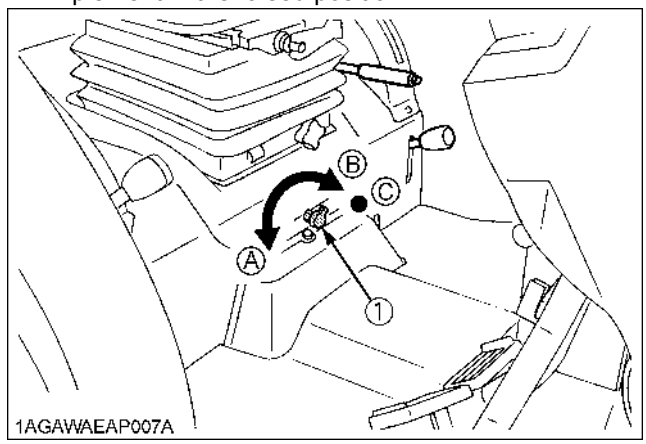


(1) PTO Shaft cover
(2) PTO Shaft cap
(A) "NORMAL POSITION"
(B) "RAISED POSITION"

3. Before installing or using PTO driven equipment, read the manufacturer's manual and review the safety labels attached to the equipment.
   To prevent PTO driven equipment from improper or unsafe use, select the lower speed (540rpm) unless the higher one is specifically recommended as safe by the equipment manufacture.
4. When operating stationary PTO driven equipment, always apply the tractor parking brake and place chocks behind and in front of the rear wheels. Stay clear of all rotating parts. Never step over rotating parts.

5. USING 3-POINT HITCH

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



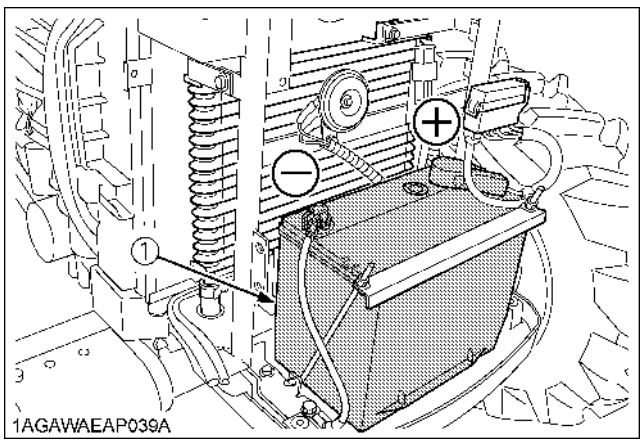
(1) 3-point hitch lowering speed knob
(A) "FAST"
(B) "SLOW"
(C) "LOCK"

6. SERVICING THE TRACTOR

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

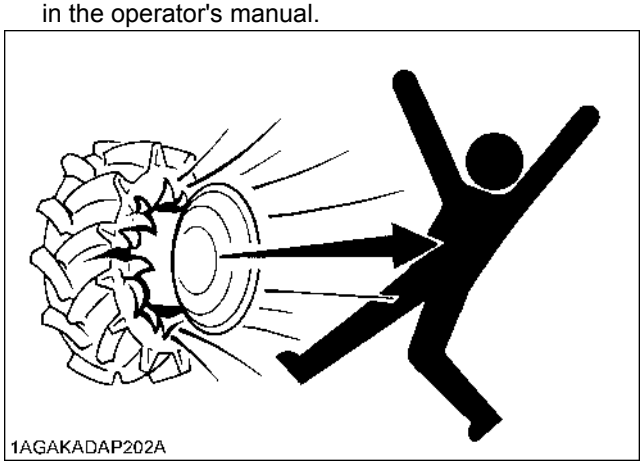
1. Allow the tractor time to cool off before working on or near the engine, muffler, radiator, etc.
2. Do not remove radiator cap while coolant is hot. When cool, slowly rotate cap to the first stop and allow sufficient time for excess pressure to escape before removing the cap completely. If the tractor has a coolant recovery tank, add coolant or water to the tank, not the radiator. (See "Checking Coolant Level" in "DAILY CHECK" in "PERIODIC SERVICE" section.)
3. Always stop the engine before refueling. Avoid spills and overfilling.
4. Do not smoke when working around battery or when refueling. Keep all sparks and flames away from battery and fuel tank. The battery presents an explosive hazard, because it gives off hydrogen and oxygen especially when recharging.

5. Before "jump starting" a dead battery, read and follow all of the instructions. (See "JUMP STARTING" in "OPERATING THE ENGINE" section.)
6. Keep first aid kit and fire extinguisher handy at all times.
7. Disconnect the battery's ground cable before working on or near electric components.
8. To avoid the possibility of battery explosion, do not use or charge the refillable type battery if the fluid level is below the LOWER (lower limit level) mark. Check the fluid level regularly and add distilled water as required so that the fluid level is between the UPPER and LOWER levels.
9. To avoid sparks from an accidental short circuit, always disconnect the battery's ground cable (-) first and reconnect it last.



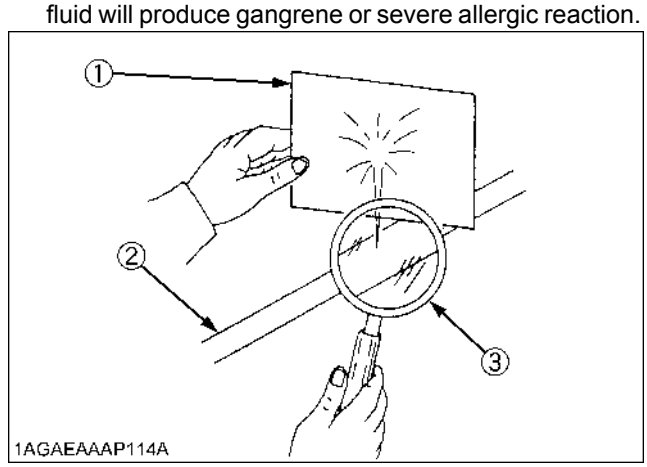
(1) Battery

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



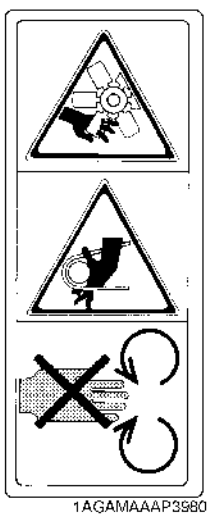
(1) Cardboard
(2) Hydraulic line
(3) Magnifying glass

17. Waste products such as used oil, fuel, hydraulic fluid, and batteries, can harm the environment, people, pets and wildlife. Please dispose properly.
    See your local Recycling Center or KUBOTA Dealer to learn how to recycle or get rid of waste products.

7. PICTORIAL SAFETY LABELS

The pictorial safety labels affixed are intended to alert persons to potential hazards. The hazard is identified by a pictorial in the safety alert triangle or by the safety alert symbol alone. An adjacent pictorial provides instructions and information on how to avoid the hazard.

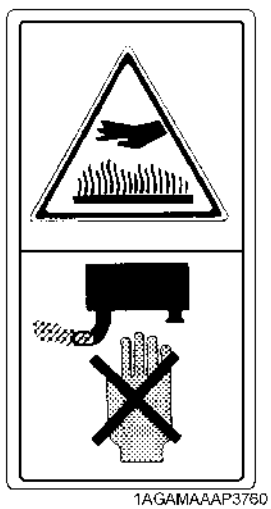
(1) Code No. 32751-4958-1



1AGAMAAAP3980

Do not open or remove safety shields while engine is running.

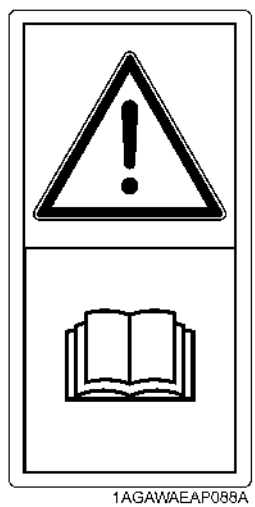
(2) Code No. TC030-4958-1



1AGAMAAAP3760

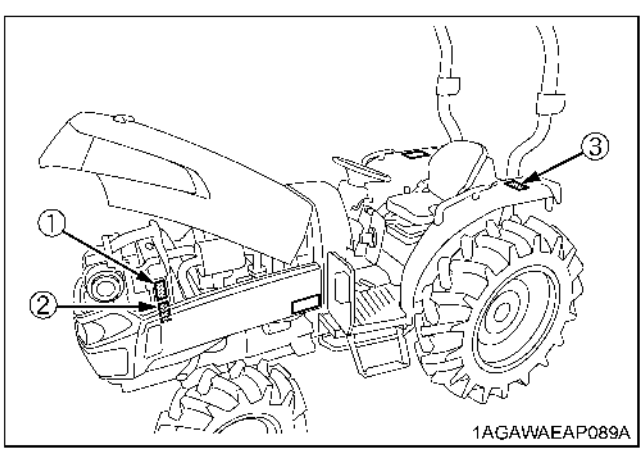
Do not touch hot surfaces.

(3) Code No. TD179-3491-1

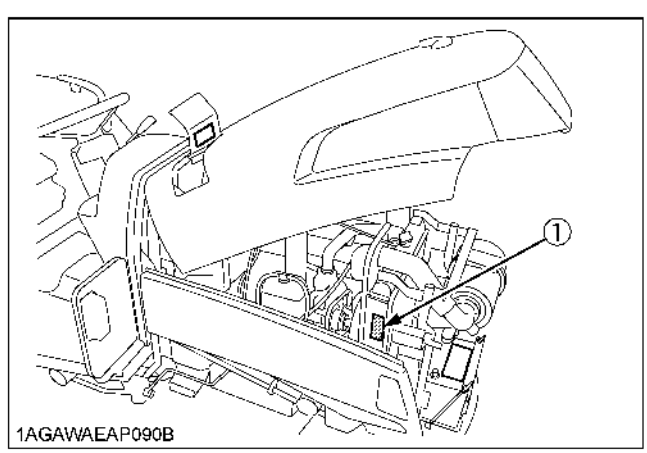


1AGAWAEAP088A

Carefully read operator's manual before handling the machine. Observe instructions and safety rules when operating.



1AGAWAEAP089A



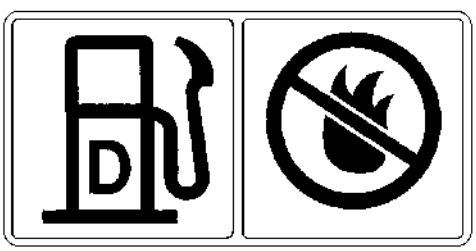
1AGAWAEAP090B

1AGAWAEAP083A

(1) Code No. TD060-3012-3

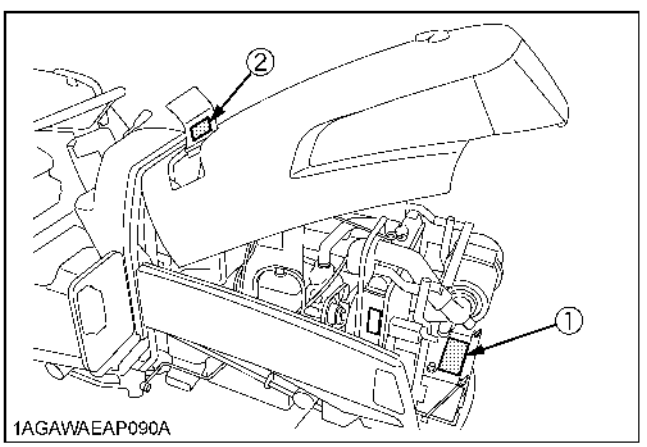
1AGASABAP108A

(2) Code No. 3A481-9853-1



1AGAIAZAP118A

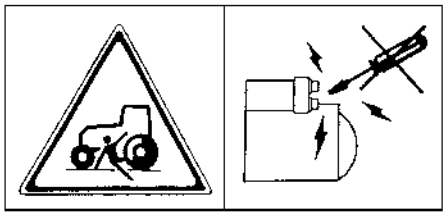
Diesel fuel only. No fire.



1AGAWAEAP090A

1AGAWAEAP084A

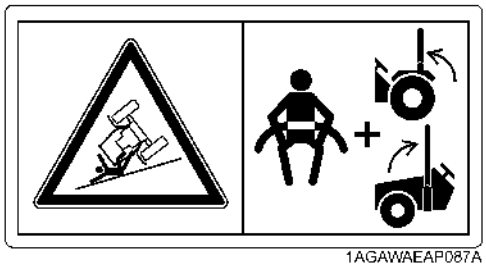
(1) Code No. K3512-4718-1



1BDABANAP083B

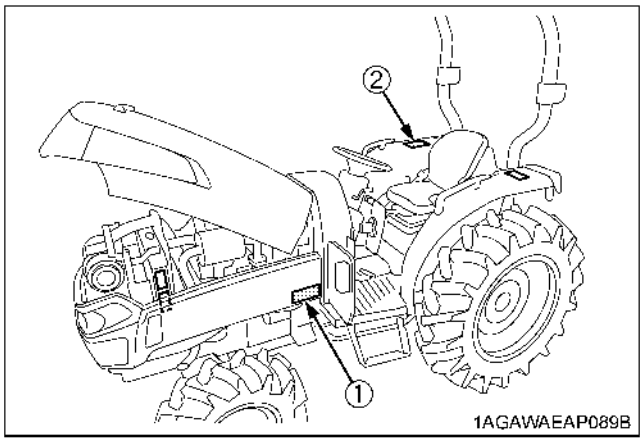
Start engine from operator's seat only.

(2) Code No. TD169-9848-1



1AGAWAEAP087A

Always lock ROPS in upright position unless it has to be folded down to allow operation underneath trees or bushes.
When ROPS is locked in upright position seat belt should be used.



1AGAWAEAP092A

8. CARE OF PICTORIAL SAFETY LABELS

1. Keep pictorial safety labels clean and free from obstructing material.
2. Clean pictorial safety labels with soap and water, dry with a soft cloth.
3. Replace damaged or missing pictorial safety labels with new labels from your local KUBOTA Dealer.
4. If a component with pictorial safety 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.
5. Mount new pictorial safety labels by applying on a clean dry surface and pressing any bubbles to outside edge.

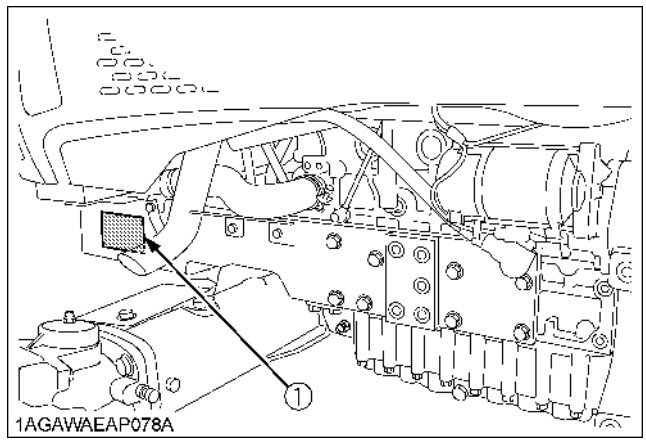
SERVICING OF TRACTOR

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

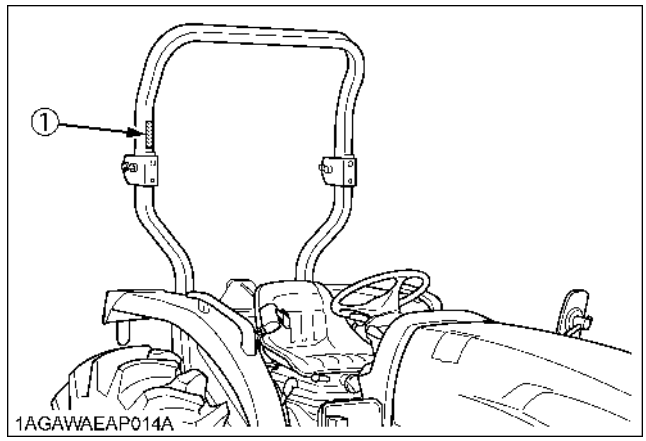
	Type	Serial No.
Tractor		
CAB		
Engine		
Date of Purchase		
Name of Dealer		
(To be filled in by purchaser)		

◆ **Warranty**
This tractor is warranted under the KUBOTA 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 it is within the warranty period.

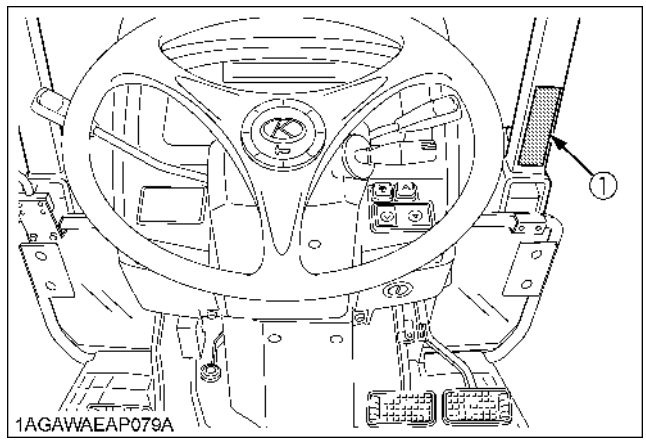
◆ **Scrapping the tractor and its procedure**
To put the tractor out of service, correctly follow the local rules and regulations of the country or territory where you scrap it. If you have questions, consult your local KUBOTA Dealer.



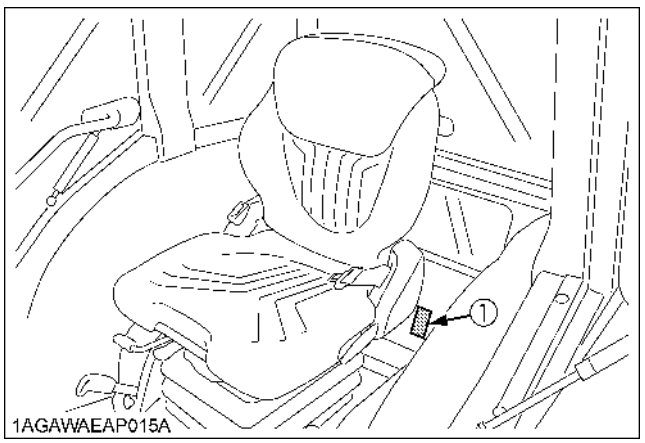
(1) Tractor identification plate



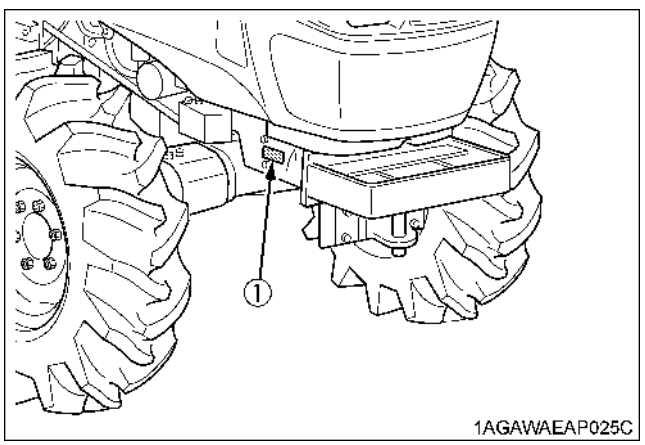
(1) ROPS identification plate (ROPS Serial No.)



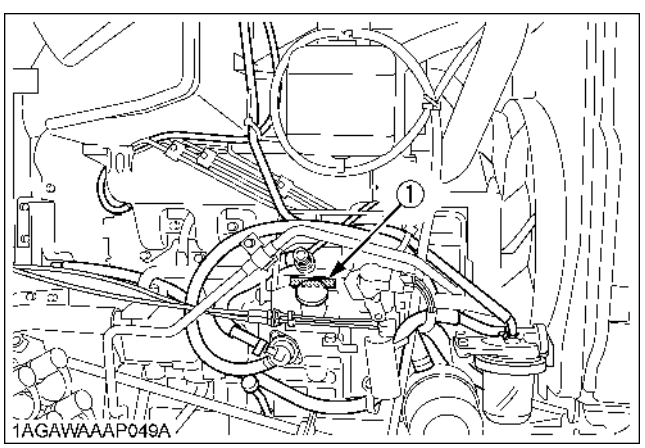
(1) ROPS identification plate (ROPS Serial No.)



(1) CAB identification plate (CAB Serial No.)



(1) Tractor serial number



(1) Engine serial number

SPECIFICATIONS

SPECIFICATION TABLE [HST Type]

Model				L5240
				4WD
Engine	Model			V2403-M-TE3-EU2
	Type			Indirect injection vertical, water-cooled, 4-cycle diesel
	Number of cylinders			4
	Total displacement		L	2.434
	Bore and stroke		mm	87 x 102.4
	Net power *1		kW (PS)	38.7 (52.6)
	PTO power *1 (factory observed)		kW (PS)/rpm	33.6 (45.6) / 2600
	Maximum torque		N-m (kgf-m)	180.6 (18.4)
	Battery capacity			12V, RC: 133 min, CCA: 582A
Capacities	Fuel tank		L	54
	Engine crankcase (with filter)		L	9.4
	Engine coolant		L	8.2
	Transmission case		L	45
Dimensions	Overall length (without 3p)		mm	3245
	Overall width (min. tread)		mm	1470
	Overall height (with ROPS)		mm	2550
	Wheel base		mm	1915
	Min. ground clearance		mm	400
	Tread	Front	mm	1135
		Rear	mm	1125. 1225, 1325
Weight (with ROPS)			kg	1765
Traveling system	Standard tire size	Front		9.5-16
		Rear		13.6-28
	Clutch			Dry type single stage
	Steering			Hydrostatic power steering
	Transmission			Hydrostatic transmission (3 speeds)
	Braking system			Wet disk type
	Trailer brake			not applicable
	Trailer brake coupler			not applicable
	Min. turning radius (with brake)		m	3.2

Model				L5240
				4WD
Hydraulic unit	Hydraulic control system			Position control
	Pump capacity		L/min.	35.6
	Three point hitch			SAE category 1
	Max. lift force	At lift points	kg	1750
		24 in. behind lift points	kg	1350
	Remote control valve coupler			ISO 5675
	System pressure		MPa (kgf/cm^2)	17.7 (180)
PTO	Rear PTO			SAE 1-3/8, 6 splines
		PTO/ Engine speed	rpm	540/2590
The level of protection against hazardous substances *2				Category 1
Noise at the operator's ear *3			dB(A)	84.1
Noise of the tractor in motion *4			dB(A)	83.0
Value of the vibration level *5	KAB 11/E6 11/P2	Light driver (59 kg)	m/s^2	1.21
		Heavy driver (98 kg)	m/s^2	1.05
	Grammer MSG93/ 511 MSG93/ 521	Light driver (59 kg)	m/s^2	1.19
		Heavy driver (98 kg)	m/s^2	0.90

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

NOTE : *1 Manufacturer's estimate

*2 According to EN 15695

*3 Measured according to Directive 2009/76/EC

*4 Measured according to Council Directive 2009/63/EC

*5 Measured according to Council Directive 78/764/EEC

SPECIFICATION TABLE [GST Type]

Model				L5040
				4WD
Engine	Model			V2403-M-TE3-EU1
	Type			Indirect injection vertical, water-cooled, 4-cycle diesel
	Number of cylinders			4
	Total displacement		L	2.434
	Bore and stroke		mm	87 x 102.4
	Net power *1		kW (PS)	36.0 (48.9)
	PTO power *1 (factory observed)		kW (PS)/rpm	32.8 (44.6) / 2600
	Maximum torque		N-m (kgf-m)	162.2 (16.5)
	Battery capacity			12V, RC: 133 min, CCA: 582A
Capacities	Fuel tank		L	54
	Engine crankcase (with filter)		L	9.4
	Engine coolant		L	8.2
	Transmission case		L	45
Dimensions	Overall length (without 3p)		mm	3245
	Overall width (min. tread)		mm	1470
	Overall height		mm	2375
	Wheel base		mm	1915
	Min. ground clearance		mm	400
	Tread	Front	mm	1135
		Rear	mm	1125, 1225, 1325
Weight			kg	1885
Traveling system	Standard tire size	Front		9.5-16
		Rear		13.6-28
	Clutch			Dry type single stage
	Steering			Hydrostatic power steering
	Transmission			Glide shift transmission (12 forward and 8 reverse speeds)
	Braking system			Wet disk type
	Trailer brake			not applicable
	Trailer brake coupler			not applicable
	Min. turning radius (with brake)		m	3.2

Model				L5040
				4WD
Hydraulic unit	Hydraulic control system			Position control
	Pump capacity		L/min.	35.6
	Three point hitch			SAE category 1
	Max. lift force	At lift points	kg	1750
		24 in. behind lift points	kg	1350
	Remote control valve coupler			ISO 5675
	System pressure		MPa (kgf/cm²)	17.7 (180)
PTO	Rear PTO			SAE 1-3/8, 6 splines
		PTO/ Engine speed	rpm	540/2550
The level of protection against hazardous substances *2				Category 1
Noise at the operator's ear *3			dB(A)	84.2
Noise of the tractor in motion *4			dB(A)	81.0
Value of the vibration level *5	KAB 11/E6 11/P2	Light driver (59 kg)	m/s²	1.21
		Heavy driver (98 kg)	m/s²	1.05
	Grammer MSG93/ 511 MSG93/ 521	Light driver (59 kg)	m/s²	1.19
		Heavy driver (98 kg)	m/s²	0.90

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

NOTE : *1 Manufacturer's estimate

*2 According to EN 15695

*3 Measured according to Directive 2009/76/EC

*4 Measured according to Council Directive 2009/63/EC

*5 Measured according to Council Directive 78/764/EEC

SPECIFICATION TABLE [Manual Transmission Type]

Model				L3540	L4240	L5040
				4WD		
Engine	Model			D1803-M-E2-EU1	V2203-M-E2-EU2	V2403-M-TE3-EU1
	Type			Indirect injection vertical, water-cooled, 4-cycle diesel		
	Number of cylinders			3	4	
	Total displacement		L	1.826	2.197	2.434
	Bore and stroke		mm	87 x 102.4	87 x 92.4	87 x 102.4
	Net power *1		kW (PS)	25.9 (35.2)	31.7 (43.1)	36.0 (48.9)
	PTO power *1 (factory observed)		kW (PS)/ rpm	22.0 (29.9) / 2700	27.2 (37.0) / 2700	32.8 (44.6) / 2600
	Maximum torque		N-m (kgf-m)	101.7 (10.4)	139.7 (14.2)	162.2 (16.5)
	Battery capacity			12V, RC: 133 min, CCA: 582A		
Capacities	Fuel tank		L	44	50	54
	Engine crankcase (with filter)		L	5.7	8.2	9.4
	Engine coolant		L	6.0	7.5	8.2
	Transmission case		L	42	43	45
Dimensions	Overall length (without 3p)		mm	3015	3170	3245
	Overall width (min. tread)		mm	1430	1485	1470
	Overall height (with ROPS)		mm	2415	2450	2550
	Wheel base		mm	1805	1895	1915
	Min. ground clearance		mm	360	390	400
	Tread	Front	mm	1150	1145	1135
		Rear	mm	1110, 1205, 1300, 1385	1140, 1210, 1310, 1410	1125, 1225, 1325
Weight (with ROPS)			kg	1470	1560	1730
Traveling system	Standard tire size	Front		7-16	8-16	9.5-16
		Rear		12.4-24	13.6-24	13.6-28
	Clutch			Dry type single stage		
	Steering			Hydrostatic power steering		
	Transmission			8 forward and 8 reverse fully synchronized main and shuttle transmission		
	Braking system			Wet disk type		
	Trailer brake			not applicable		
	Trailer brake coupler			not applicable		
	Min. turning radius (with brake)		m	2.7		3.2

Model				L3540	L4240	L5040
				4WD		
Hydraulic unit	Hydraulic control system			Position control		
	Pump capacity		L/min.	31.5	37.0	35.6
	Three point hitch			SAE category 1		SAE category 1 *2
	Max. lift force	At lift points	kg	1700	1750	
		24 in. behind lift points	kg	1200	1250	1350
	Remote control valve coupler			ISO 5675		
	System pressure		MPa (kgf/cm²)	17.7 (180)		
PTO	Rear PTO			SAE 1-3/8, 6 splines		
		PTO/Engine speed	rpm	540/2550, 750/2550		
The level of protection against hazardous substances *3				Category 1		
Noise at the operator's ear *4			dB(A)	85.2	85.4	84.2
Noise of the tractor in motion *5			dB(A)	79.0	79.0	81.0
Value of the vibration level *6	KAB 11/E6 11/P2	Light driver (59 kg)	m/s²	1.21		
		Heavy driver (98 kg)	m/s²	1.05		
	Grammer MSG93/ 511 MSG93/ 521	Light driver (59 kg)	m/s²	1.19		
		Heavy driver (98 kg)	m/s²	0.90		

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

NOTE : *1 Manufacturer's estimate

*2 The models equipped with the telescopic lower links, however, can be switched between SAE Category 1 and 2. For this switching, refer to "3-POINT HITCH" in the "THREE-POINT HITCH & DRAWBAR" chapter.

*3 According to EN 15695

*4 Measured according to Directive 2009/76/EC

*5 Measured according to Council Directive 2009/63/EC

*6 Measured according to Council Directive 78/764/EEC

TRAVELING SPEEDS

■HST Type

(At rated engine rpm)

Model			L4240	L5240	L5740
Tire size (Rear)			13.6-24	13.6-28	
Speed control pedal	H-DS lever	Range gear shift lever	km/h		
Forward	L	L	3.5	3.4	3.6
		M	7.1	7.0	7.3
		H	17.9	17.7	18.4
	H	L	5.8	5.8	6.0
		M	11.9	11.8	12.2
		H	29.9	29.5	30.7
Reverse	L	L	3.1	3.1	3.2
		M	6.4	6.3	6.6
		H	16.1	15.9	16.5
	H	L	5.2	5.2	5.4
		M	10.7	10.6	11.0
		H	26.9	26.6	27.6

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

■GST Type

(At rated engine rpm)

Model		L5040	
Creep gear shift lever		High ○	Low 🐢
Tire size (Rear)		13.6 - 28	
Shuttle shift lever	Main gear shift lever	km/h	
Forward	1	1.77	0.20
	2	2.51	0.28
	3	3.24	0.36
	4	4.07	0.46
	5	4.78	0.54
	6	6.02	0.68
	7	7.12	0.80
	8	8.95	1.00
	9	10.07	1.13
	10	12.66	1.42
	11	20.54	2.31
	12	30.34	3.41
Reverse	1	1.48	0.17
	2	2.09	0.23
	3	3.39	0.38
	4	5.01	0.56
	5	7.45	0.84
	6	10.55	1.18
	7	17.12	1.92
	8	25.28	2.84

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

■Manual Transmission Type

(At rated engine rpm)

Model			L3540		L4240		L5040	
Creep gear shift lever			High ○	Low 🐌	High ○	Low 🐌	High ○	Low 🐌
Tire size (Rear)			12.4 - 24		13.6 - 24		13.6 - 28	
Shuttle shift lever	Range gear shift lever	Main gear shift lever	km/h	km/h	km/h	km/h	km/h	km/h
Forward	Low	1	1.81	0.20	1.68	0.19	1.77	0.20
		2	2.56	0.29	2.38	0.27	2.51	0.28
		3	4.16	0.47	3.86	0.43	4.07	0.46
		4	6.14	0.69	5.71	0.64	6.02	0.68
	High	1	9.13	1.02	8.49	0.95	8.95	1.00
		2	12.91	1.45	12.01	1.35	12.66	1.42
		3	20.96	2.35	19.49	2.19	20.54	2.31
		4	30.96	3.48	28.78	3.23	30.34	3.41
Reverse	Low	1	1.51	0.17	1.40	0.16	1.48	0.17
		2	2.13	0.24	1.98	0.22	2.09	0.23
		3	3.46	0.39	3.22	0.36	3.39	0.38
		4	5.11	0.57	4.76	0.53	5.01	0.56
	High	1	7.61	0.85	7.07	0.79	7.45	0.84
		2	10.76	1.21	10.01	1.12	10.55	1.18
		3	17.47	1.96	16.24	1.82	17.12	1.92
		4	25.80	2.90	23.99	2.69	25.28	2.84

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

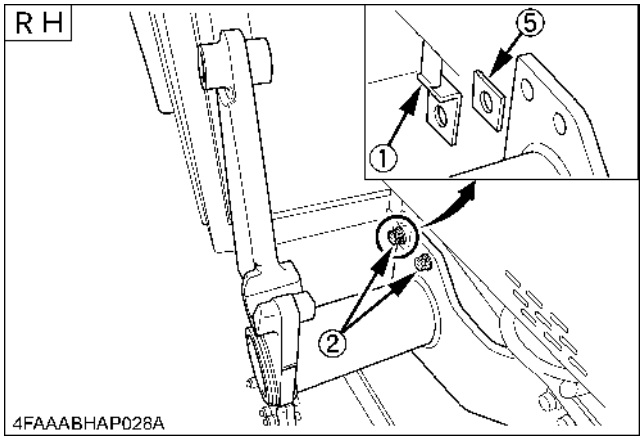
ENGLISH

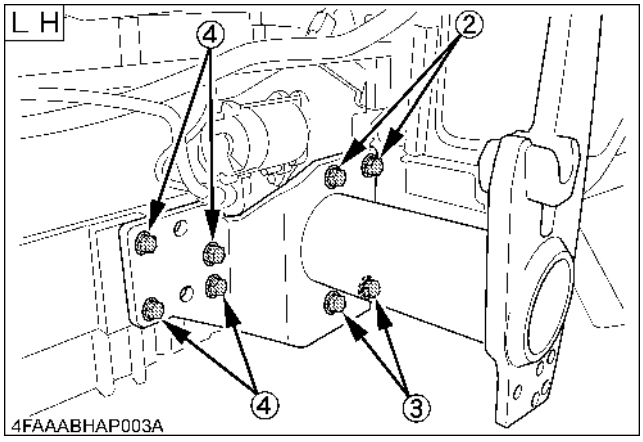
IMPLEMENT LIMITATIONS

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 malfunctions or failures of the tractor resulting from use with improper implements are not covered by the warranty.]

■ Front Loader

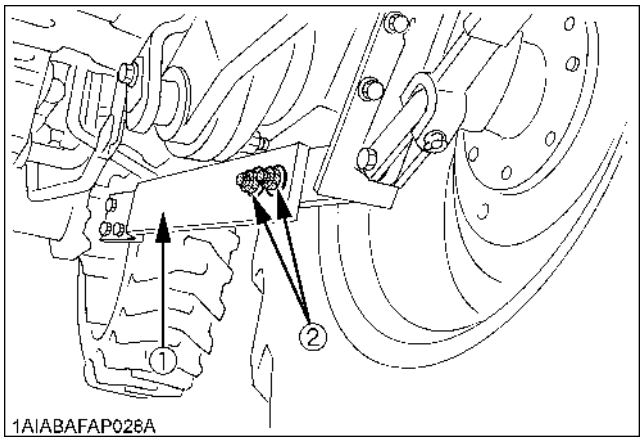
Fixation points on the body of the tractor where the front loader must be installed.
Install the front loader frame to the clutch housing and the front axle frame as shown.





	[LA514EC]	[LA714EC]	[LA854EC]
(1)	Support RH		
(2)	2-M16 x 50 bolts (RH) 2-M16 x 40 bolts (LH) 4-M16 spring lock washers 4-5/8 hardened plain washers	2-M16 x 55 bolts (RH) 2-M16 x 45 bolts (LH) 4-M16 spring lock washers 4-5/8 hardened plain washers	
(3)	4-M16 x 40 bolts 4-M16 spring lock washers 4-5/8 hardened plain washers	4-M16 x 45 bolts 4-M16 spring lock washers 4-5/8 hardened plain washers	
(4)	8-M16 x 40 bolts 8-M16 spring lock washers	8-M16 x 45 bolts 8-M16 spring lock washers	10-M16 x 45 bolts 10-M16 spring lock washers
(5)	Spacer		
Tightening torque: 226 N-m (23 kgf-m)			

Attach the rear of sub frames to the rear brackets as shown.



	[LA514EC]	[LA714EC]	[LA854EC]
(1)	Sub frame		
(2)	4-M16 x 50 bolts 4-M16 nuts 4-M16 spring lock washers 4-5/8 hardened plain washers	4-M16 x 55 bolts 4-M16 nuts 4-M16 spring lock washers 4-5/8 hardened plain washers	
Tightening torque: 226 N-m (23 kgf-m)			

◆ **Output Capacity**

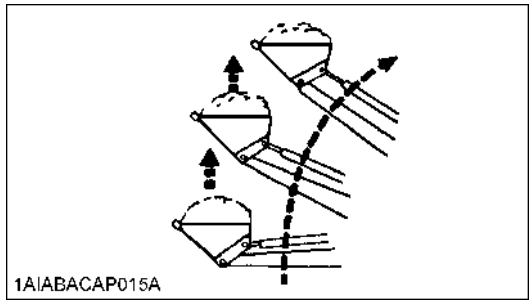
Loader model		LA514EC	LA714EC	LA854EC
Tractor model		L3540	L4240	L5740 L5240 L5040
Max. Lifting Capacity (Bucket Pivot Pin, Max. Height)	kg	613	860	1129
Max. Oil Pressure	MPa (kgf/cm^2)	17.7 (180)	18.1 (185)	

NOTE :
- The value of Max. Lifting Capacity contains the weight of KUBOTA standard bucket.

DANGER

To avoid personal injury:
- **Special attention should be made when lifting the load, keep the bucket correctly positioned to prevent spillages.**

NOTE :
- Not all risks are listed.
  Refer to front loader operator's manual.



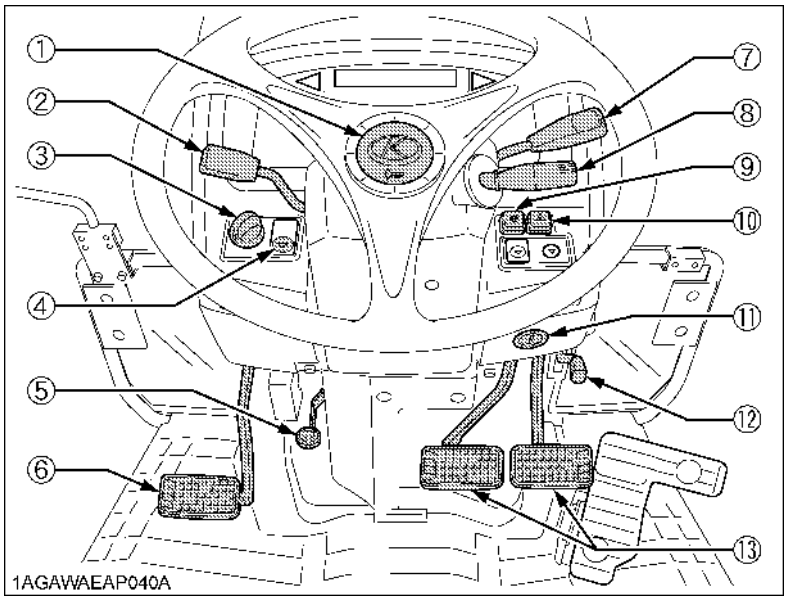
■ Other Implements

- For selecting implements, consult to your local dealer.
- 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
  Following hazard exists;
  (a) toppling trees, primarily in case a rear-mounted tree grab-crane is mounted at the rear of the tractor;
  (b) penetrating 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 them are not available for this tractor.

INSTRUMENT PANEL AND CONTROLS

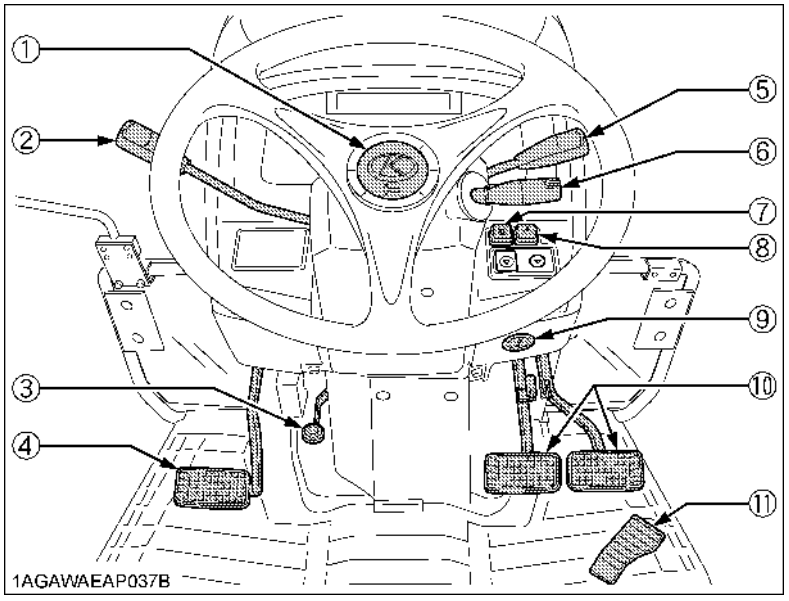
■ Instrument Panel, Switches and Hand Controls

◆ HST Type



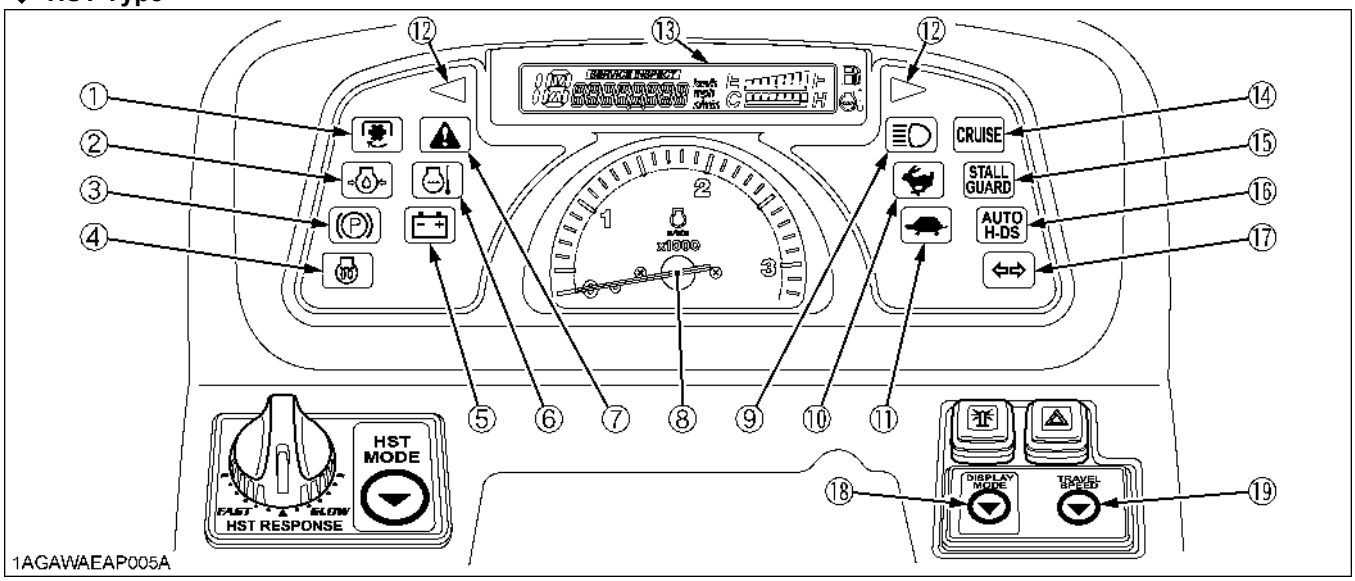
ILLUSTRATED CONTENTS

◆ GST / Manual Transmission Type

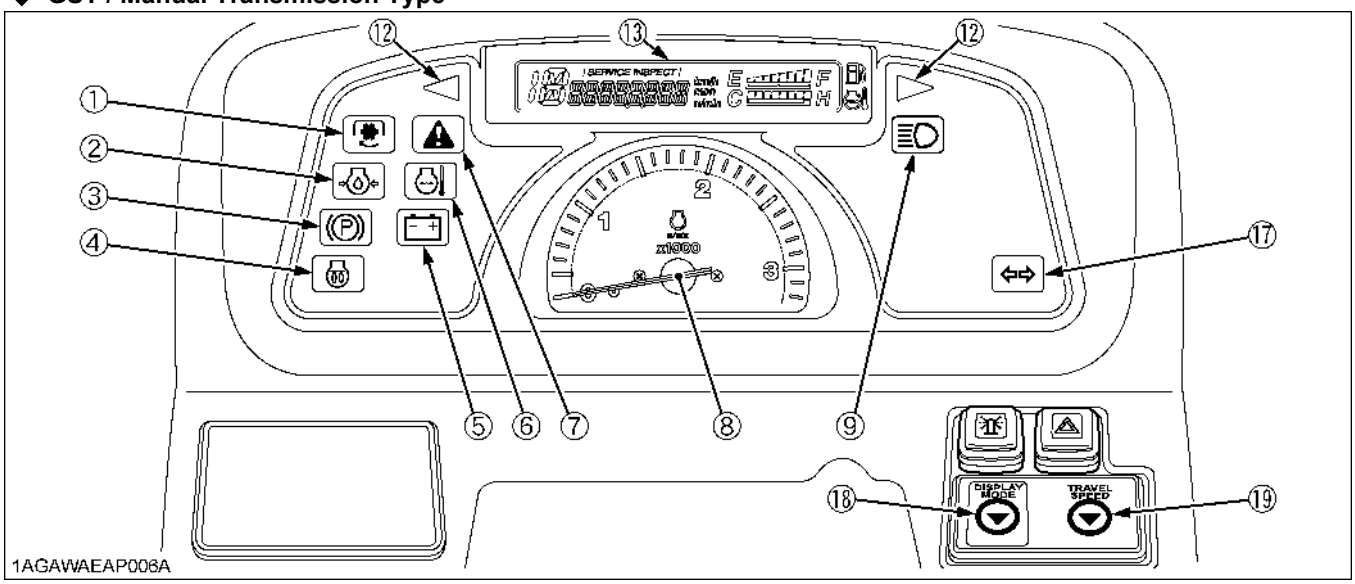


ILLUSTRATED CONTENTS

◆ **HST Type**



◆ **GST / Manual Transmission Type**

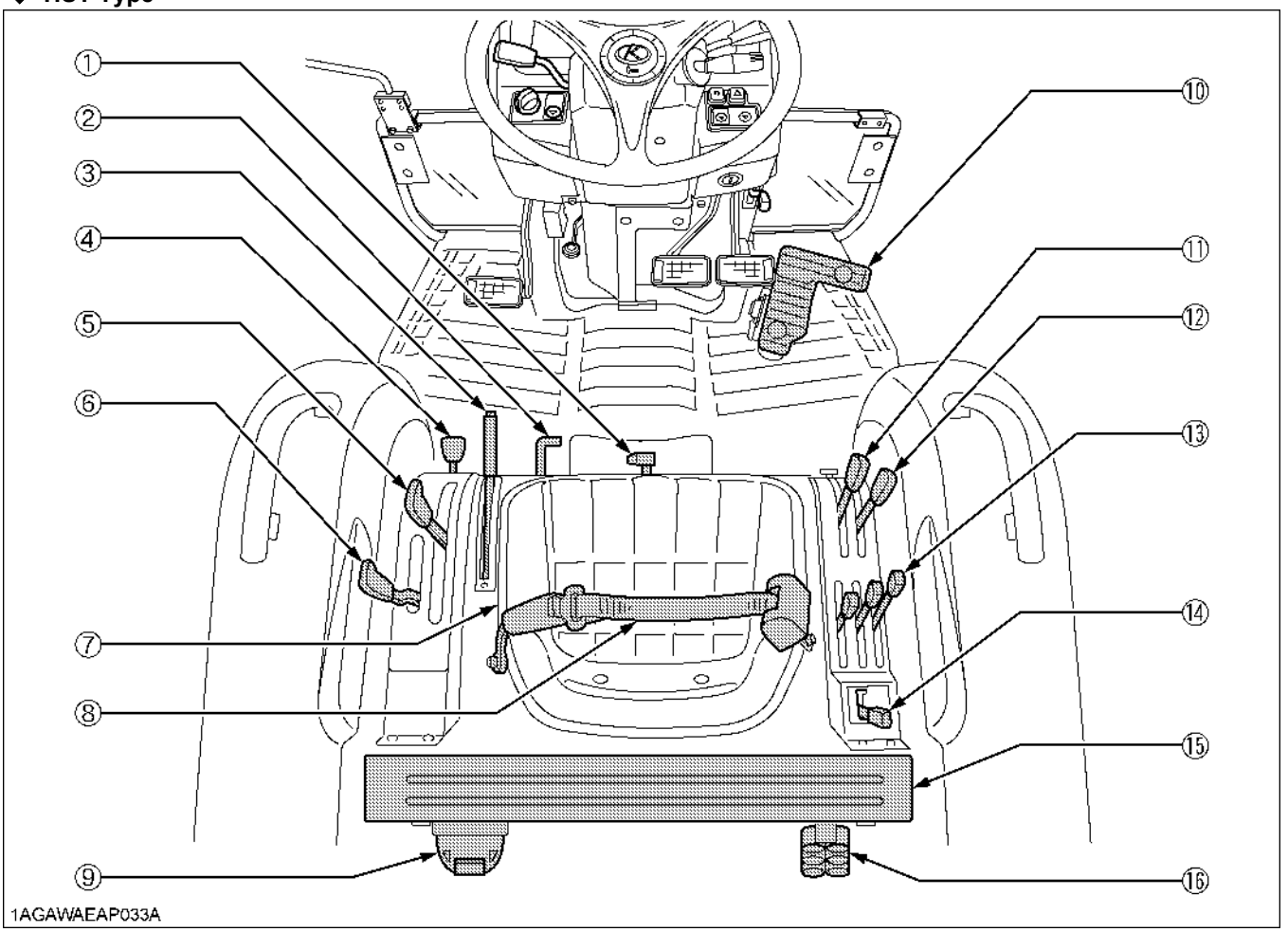


ILLUSTRATED CONTENTS

ILLUSTRATED CONTENTS

■ Foot and Hand Controls

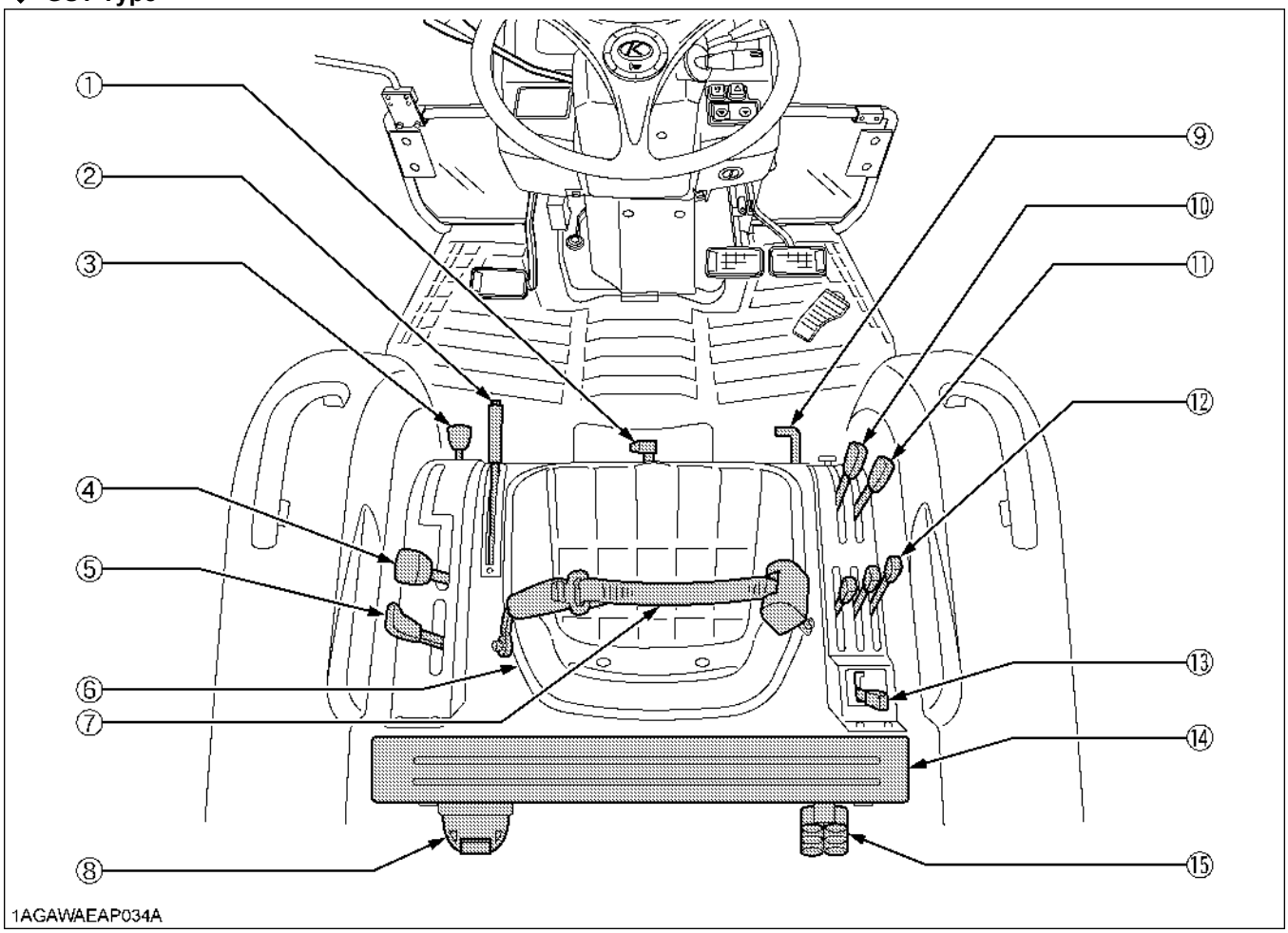
◆ HST Type



ILLUSTRATED CONTENTS

ILLUSTRATED CONTENTS

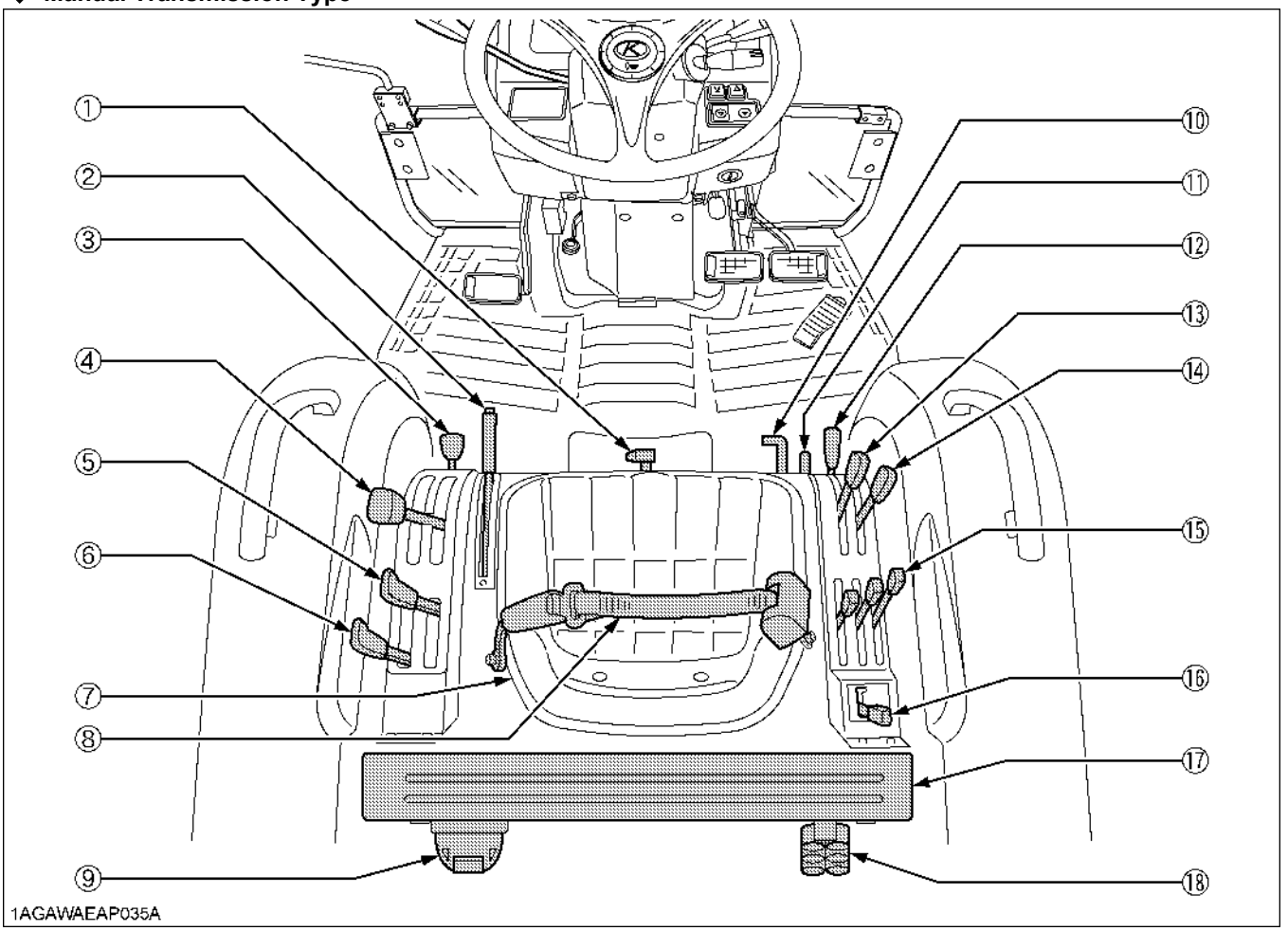
◆ **GST Type**



ILLUSTRATED CONTENTS

ILLUSTRATED CONTENTS

◆ **Manual Transmission Type**



ILLUSTRATED CONTENTS

ILLUSTRATED CONTENTS

PRE-OPERATION CHECK

DAILY CHECK

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

CAUTION

To avoid personal injury:

- **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 item

- Walk around inspection
- Check engine oil level
- Check transmission oil level
- Check coolant level
- Clean grill and radiator screen
- Clean oil cooler [HST model]
- Check air cleaner dust indicator
  (When used in a dusty place)
- Check brake and clutch pedal
- Check indicators, gauges and meter
- Check lights
- Check seat belt and ROPS
- Check movable parts
- Refuel
  (See "DAILY CHECK" in "PERIODIC SERVICE" section.)
- Care of pictorial safety labels
  (See "PICTORIAL SAFETY LABELS" in "SAFE OPERATION" section.)

ENGLISH

OPERATING THE ENGINE

CAUTION

To avoid personal injury:

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

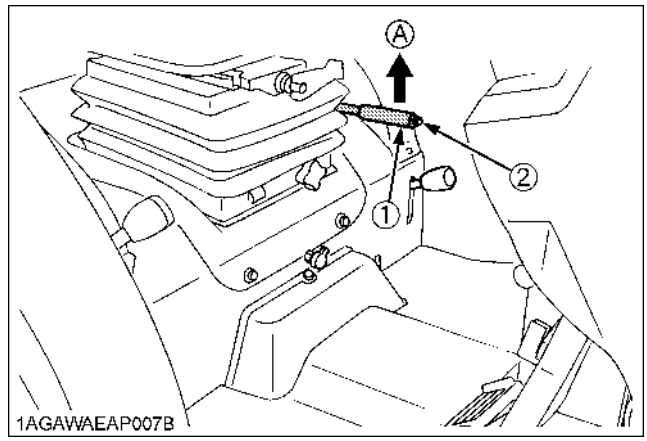
IMPORTANT :

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

STARTING THE ENGINE

1. Make sure the parking brake is set.

1. To set the parking brake;
   (1) Interlock the brake pedals.
   (2) Depress the brake pedals.
   (3) Pull the lever to park.
2. To release the parking brake, depress the brake pedals, push release button and push down parking brake lever.



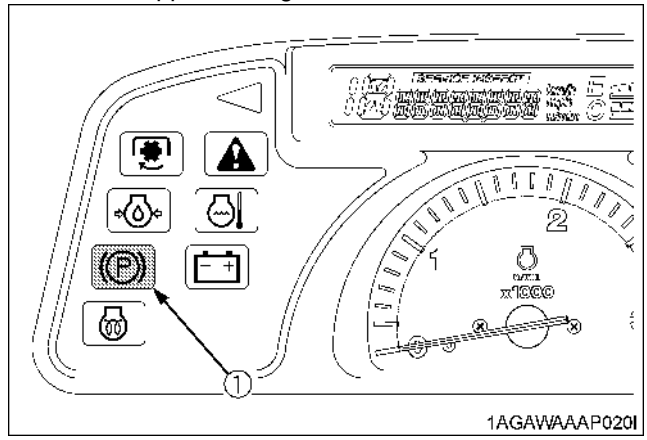
(1) Parking brake lever (A) "PULL"
(2) Release button

IMPORTANT :

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

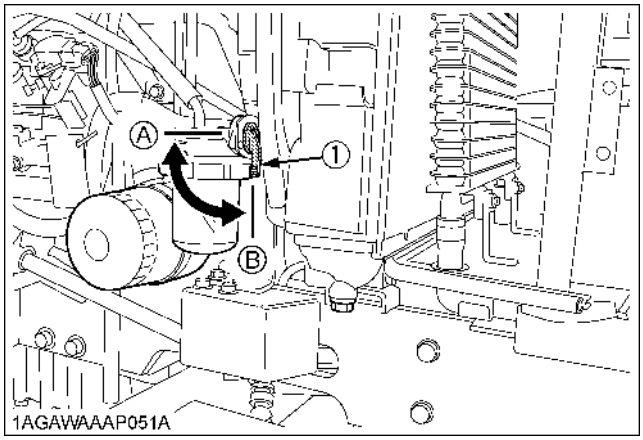
NOTE :

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



(1) Parking brake indicator

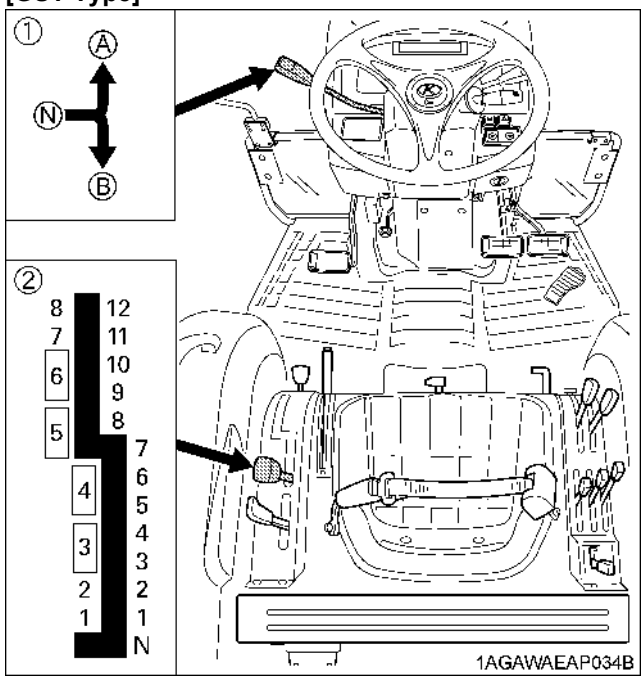
2. Make sure the fuel cock is in the open position.



(1) Fuel cock
(A) "CLOSE"
(B) "OPEN"

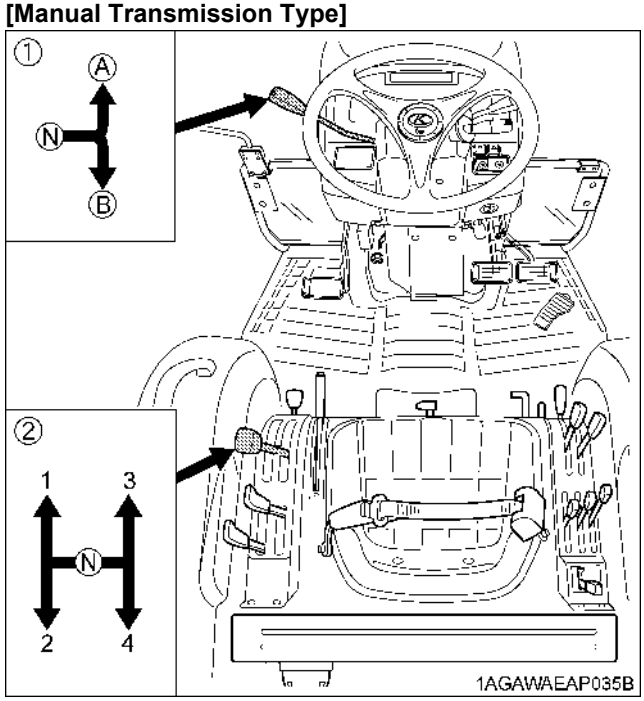
3. Place the shift levers in "NEUTRAL" position.

[GST Type]



(1) Shuttle shift lever
(2) Main gear shift lever
(A)"FORWARD"
(B)"REVERSE"
(N)"NEUTRAL POSITION"

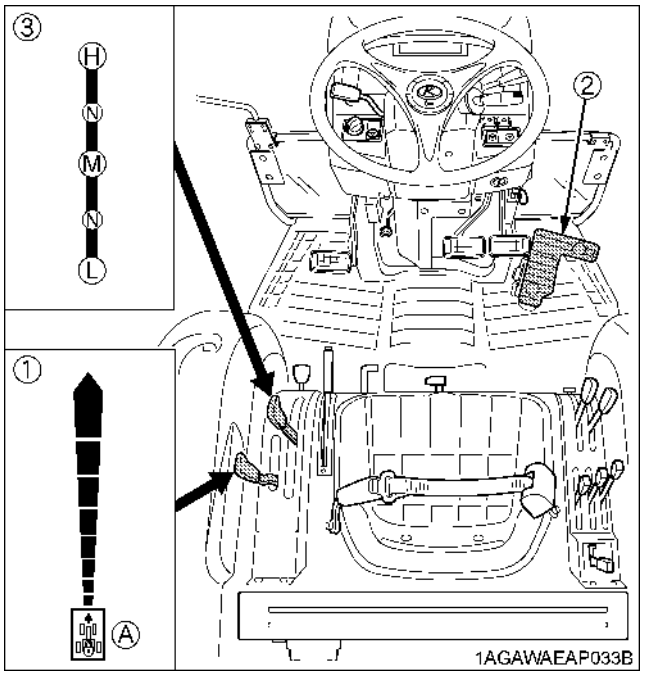
[Manual Transmission Type]



(1) Synchro shuttle shift lever
(2) Main gear shift lever
(A)"FORWARD"
(B)"REVERSE"
(N)"NEUTRAL POSITION"

3. Make sure the cruise control lever is in "NEUTRAL" position.
Place the Speed control Pedal in "NEUTRAL" position.
Place the range gear shift lever (L-M-H) in "NEUTRAL" position.

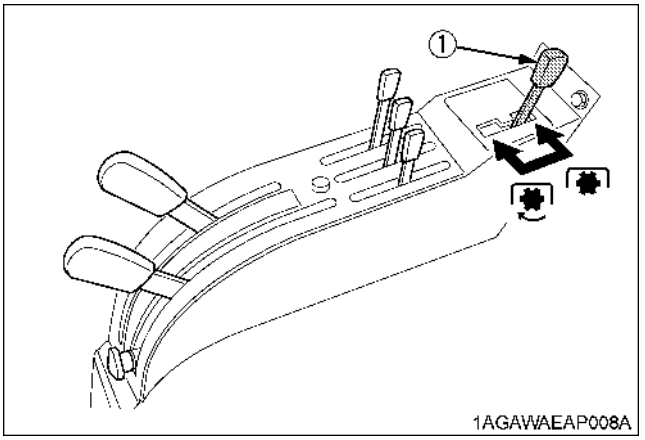
[HST Type]



(1) Cruise control lever
(2) Speed control pedal
(3) Range gear shift lever (L-M-H)
(N) "NEUTRAL POSITION"
(A) Cruise "NEUTRAL" POSITION

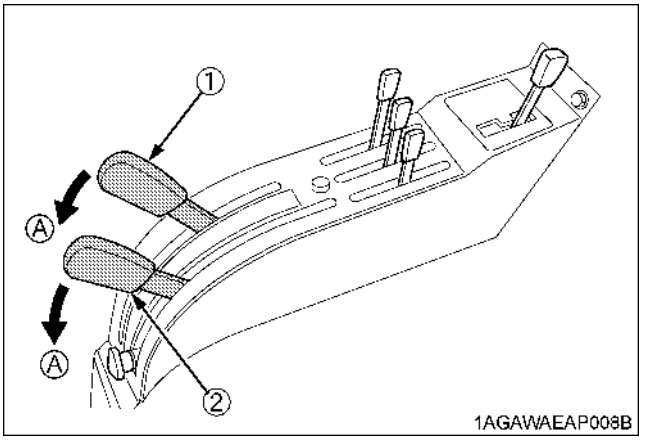
NOTE :
- When removing the foot from speed control pedal, the pedal automatically returns to the neutral position.

4. Place the PTO clutch control lever in "OFF" position.



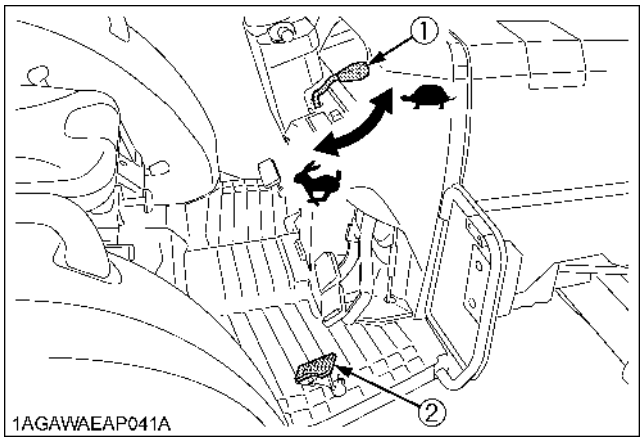
(1) PTO clutch control lever
"ON"
"OFF"

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



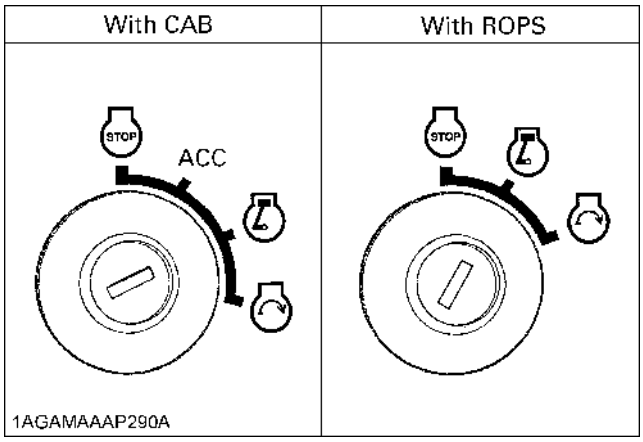
(1) Draft control lever (if equipped)
(2) Position control lever
(A) "DOWN"

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



(1) Hand throttle lever *"INCREASE"*
(2) Foot throttle *"DECREASE"*
[except HST Type]

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



"OFF" *"ON"* *"START"*

NOTE:

ACC... All the accessories can be used while the engine is stopped.

■Check Easy Checker(TM) Lamps

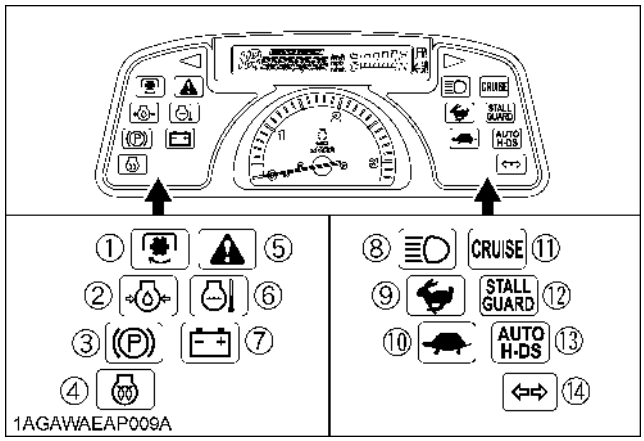
Turn the key to "ON" position and make sure the following indicators light up or stay off.

◆ **Indicators that light up:**

1. When the key is turned "ON", indicators(2)(7) should come on. If trouble should occur at any location while the engine is running, the indicator corresponding to that location comes on.
2. Suppose that the engine coolant temperature is not high enough yet. Glow plug indicator(4) also comes on when the key is turned "ON" to preheat the engine and goes off automatically when preheat is completed. Illumination time of indicator varies according to the temperature of coolant.
3. The parking brake indicator(3) comes on while parking brake is applied and goes off when it is released.
4. Turn on the key, and indicators(5)(6) stay on about 1 seconds.

◆ **Indicators that stay off:**

1. If the PTO indicator(1) stays on, disengage (OFF) the PTO.
2. If the cruise control indicator(11) stays on, place the cruise control lever in neutral (OFF) position.



(1) Rear PTO indicator
(2) Engine oil pressure indicator
(3) Parking brake indicator
(4) Glow plug indicator
(5) Warning indicator [HST / GST Type]
(6) Engine overheat indicator
(7) Electrical charge indicator
(8) High-beam indicator
(9) H-DS High speed range indicator [HST Type]
(10) H-DS Low speed range indicator [HST Type]
(11) Cruise control indicator [HST Type]
(12) Stall guard indicator [HST Type]
(13) Auto H-DS indicator [HST Type]
(14) Trailer indicator

IMPORTANT :

- Daily checks with the Easy Checker(TM) only, are not sufficient. Never fail to conduct daily checks carefully by referring to Daily Check. (See "DAILY CHECK" in "PERIODIC SERVICE" section.)

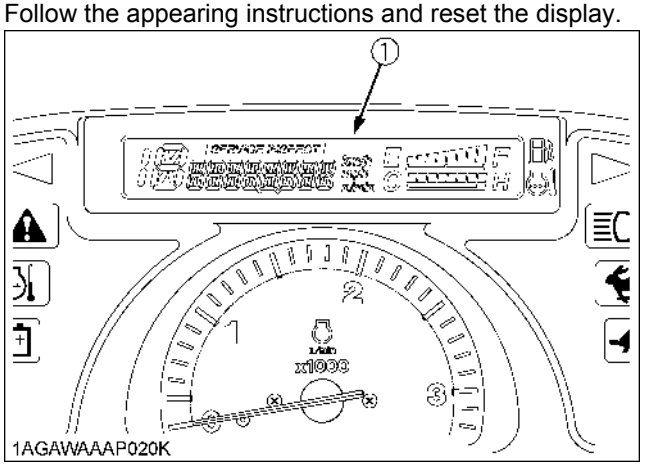
NOTE :
- Some of the Easy Checker(TM) lamps may light up or start flashing depending on the positions of the levers and switches on the instrument panel.

8. Fully depress the clutch pedal.

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

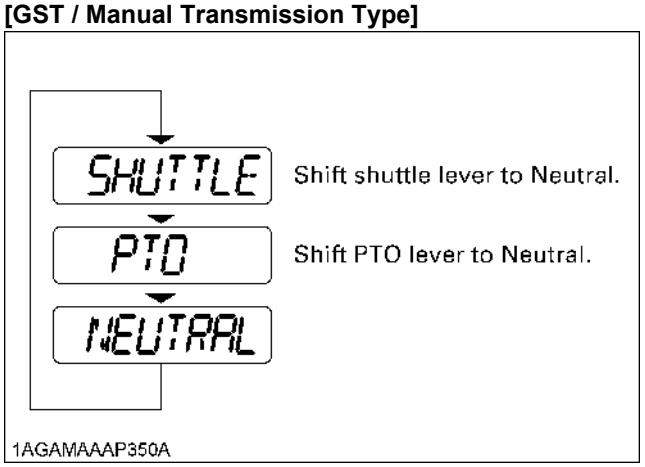
■IntelliPanel(TM) Message

If you try to start the engine but the following messages appear alternately in the display, the engine fails to start. Follow the appearing instructions and reset the display.

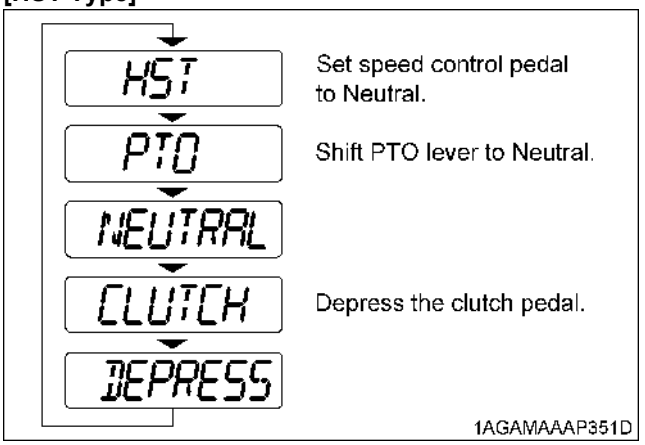


(1) Display

[GST / Manual Transmission Type]



[HST Type]



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

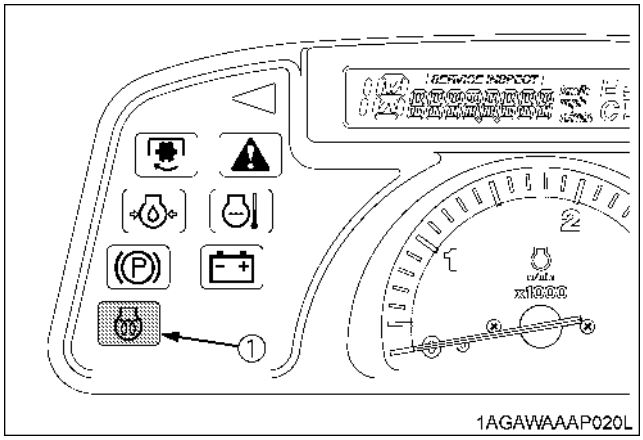
If the lamp is still on, immediately stop the engine and determine the cause.

11. Release the clutch pedal.

COLD WEATHER STARTING

If the ambient temperature is below -5℃ and the engine is very cold, follow the procedure below after taking the step 1 through 8 in the previous pages.

9. Turn the key to "ON" (glow plug) and keep it there until glow plug indicator goes off.



(1) Glow plug indicator

10. Turn the key to the start position and the engine should start.

(If the engine fails to start after 10 seconds, turn off the key for 30 seconds. Then repeat steps (9) and (10). To protect the battery and the starter, make sure that the starter is not continuously turned for more than 10 seconds.)

STOPPING THE ENGINE

[L3540, L4240]

1. **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.

[L5040, L5240, L5740]

1. **After slowing the engine to idle, wait 3 to 5 minutes for turbo to slow down then turn the key to "OFF".**
2. **Remove the key.**

NOTE :

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

WARMING UP

CAUTION

To avoid personal injury:

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

For 5 minutes after engine start-up, allow 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 in the Low Temperature Range

Hydraulic oil serves as transmission fluid. In cold weather, the oil may be cold with increased viscosity. This can cause delayed oil circulation 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 rpm according to the table below:

Ambient temperature	Warm-up time requirement
Higher than -10℃	Approx. 5 minutes
-15 to -10℃	5 to 10 minutes
-20 to -15℃	10 to 20 minutes
Below -20℃	More than 20 minutes

IMPORTANT :

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

JUMP STARTING

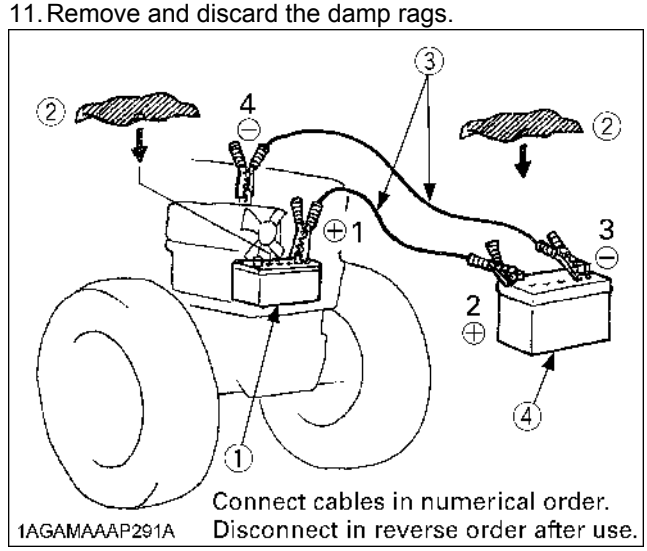
CAUTION

To avoid personal injury:

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

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

1. Bring helper vehicle with a battery of the same voltage as disabled tractor within easy cable reach. "THE VEHICLES MUST NOT TOUCH".
2. Engage the parking brakes of both vehicles and put the shift levers in neutral. Shut both engines off.
3. Put on safety goggles and rubber gloves.
4. Ensure the vent caps are securely in place. (if equipped)
5. Cover vent holes with damp rags. Do not allow the rag to touch the battery terminals.
6. Attach the red clamp to the positive (red, (+) or pos.) terminal of the dead battery and clamp the other end of the same cable to the positive (red, (+) or pos.) terminal of the helper battery.
7. Clamp the other cable to the negative (black, (-) or neg.) terminal of the helper battery.
8. Clamp the other end to the engine block or frame of the disabled tractor as far from the dead battery as possible.
9. Start the helper vehicle and let its engine run for a few moments. Start the disabled tractor.
10. Disconnect the jumper cables in the exact reverse order of attachment. (Steps 8, 7 and 6).
11. Remove and discard the damp rags.



(1) Dead battery
(2) Lay a damp rag over the vent caps
(3) Jumper cables
(4) 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 tractor's electrical system could result in severe damage to tractor's electrical system.
  Use only matching voltage source when "Jump starting" a low or dead battery condition.

OPERATING THE TRACTOR

OPERATING NEW TRACTOR

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

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 nor apply the brakes suddenly.
- In winter, operate the tractor after fully warming up the engine.
- Do not run the engine at speeds faster than necessary.
- On rough roads, slow down to suitable speeds.
  Do not operate the tractor at fast speed.

The above precautions are not limited 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 "broken-in" and are not accustomed to each other; small metal grit may develop during the operation of the tractor; and this may wear out or damage the parts. Therefore, care should be taken to change the lubricating oil a little earlier than would ordinarily be required.

For further details of change interval hours.

(See "MAINTENANCE" section.)

BOARDING AND LEAVING THE TRACTOR

1. Never try to get on or off a moving tractor or jump off the tractor to exit.
2. Face the tractor when getting into or out of the tractor. Do not use the controls as hand holds to prevent inadvertent machine movements.
3. Always keep steps and floor clean to avoid slippery conditions.

OPERATING FOLDABLE ROPS (if equipped)

⚠ CAUTION

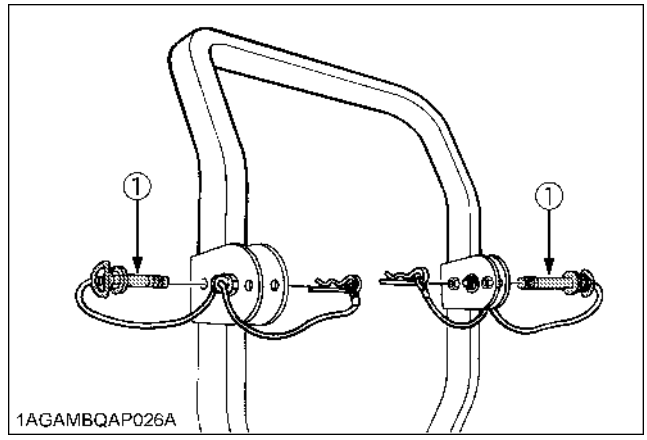
To avoid personal injury:

- **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 fold 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.

Rear Mount Type ROPS

■To Fold the ROPS

1. Remove both set bolts.



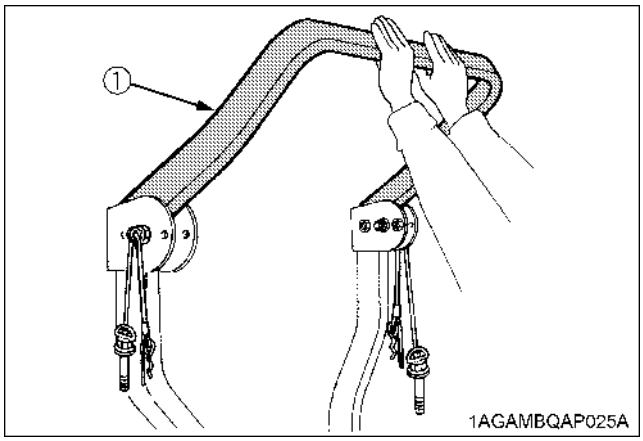
(1) Set bolt

2. Fold the ROPS.

CAUTION

To avoid personal injury:

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



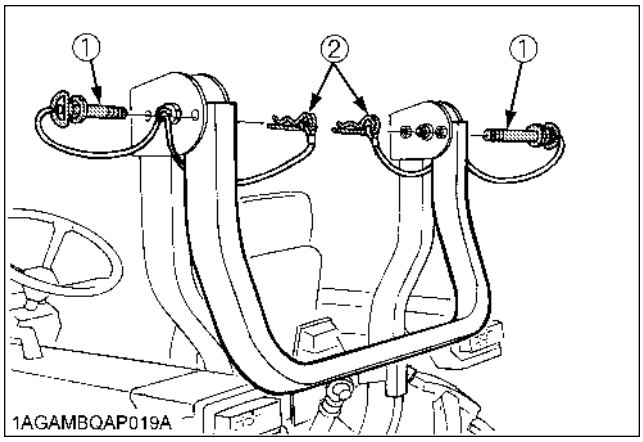
(1) ROPS

3. Align set bolt holes and insert both set bolts. Slightly tighten the set bolts and secure them with the hair pin cotters.

CAUTION

To avoid personal injury:

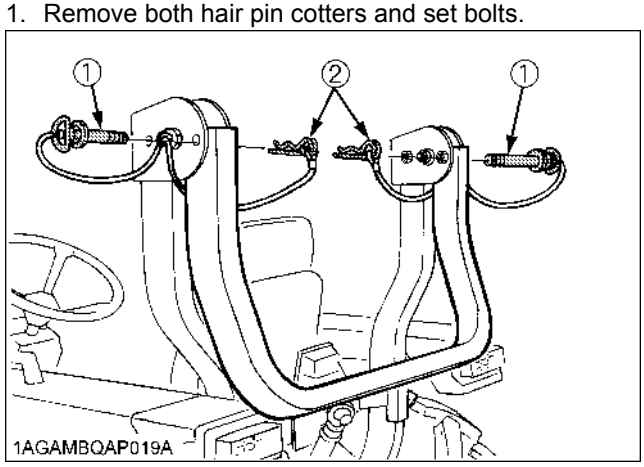
- **Make sure that both set bolts are properly installed and secured with the hair pin cotters.**



(1) Set bolt
(2) Hair pin cotter

■To Raise the ROPS to Upright Position

1. Remove both hair pin cotters and set bolts.



(1) Set bolt
(2) Hair pin cotter

2. Raise ROPS to the upright position.

CAUTION

To avoid personal injury:

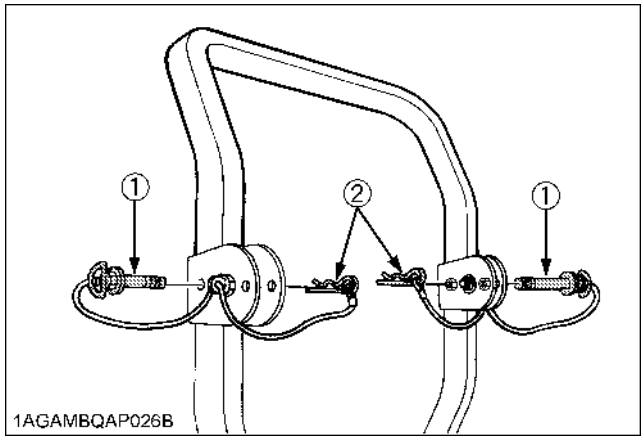
- **Raise the ROPS slowly and carefully.**

3. Align set bolt holes, insert both set bolts. Slightly tighten the set bolts and secure them with the hair pin cotters.

CAUTION

To avoid personal injury:

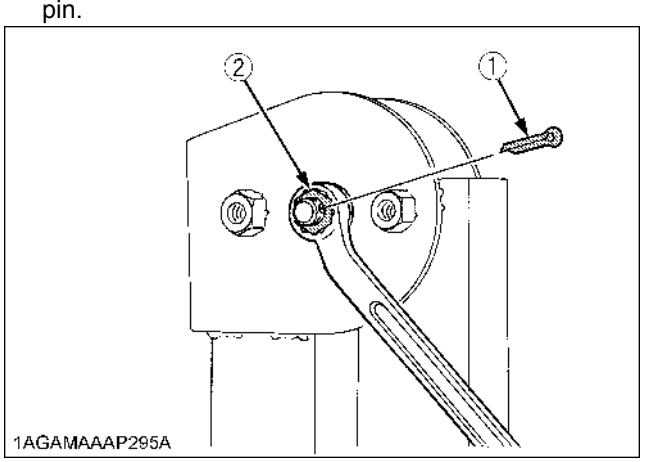
- **Make sure that both set bolts are properly installed as soon as the ROPS is in the upright position and secured with the hair pin cotters.**



(1) Set bolt
(2) Hair pin cotter

■Adjustment of Foldable ROPS

- Adjust free fall of the ROPS upper frame regularly.
- If you feel less friction in folding the ROPS, remove the cotter pin (1), tighten the nut (2) until you feel the right friction in the movement and then replace the cotter pin.

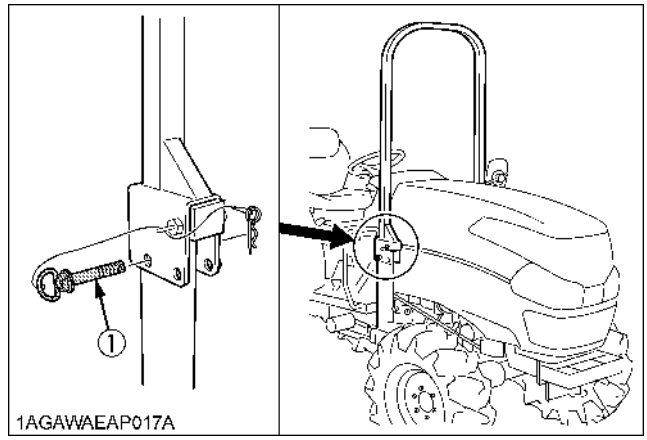


(1) Cotter pin
(2) Nut

Mid Mount Type ROPS

■To Fold the ROPS

1. Remove both set bolts.



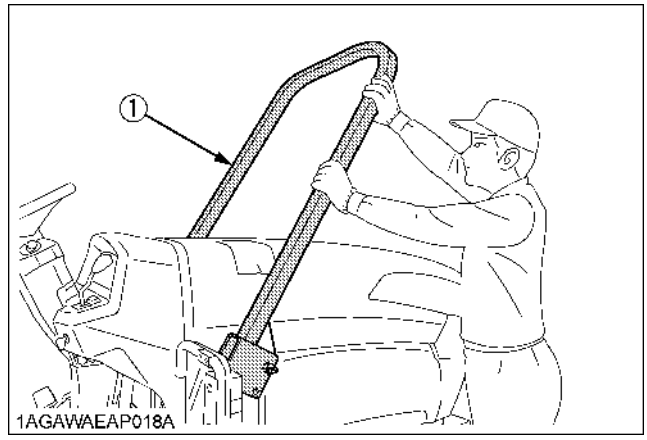
(1) Set bolt

2. Fold the ROPS.

CAUTION

To avoid personal injury:

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



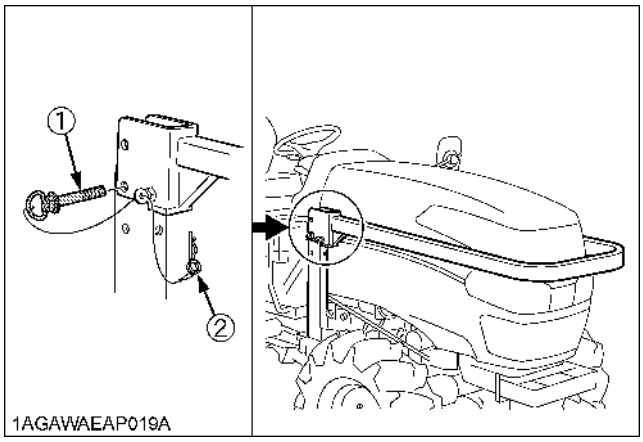
(1) ROPS

3. Align set bolt holes and insert both set bolts. Slightly tighten the set bolts and secure them with the hair pin cotters.

CAUTION

To avoid personal injury:

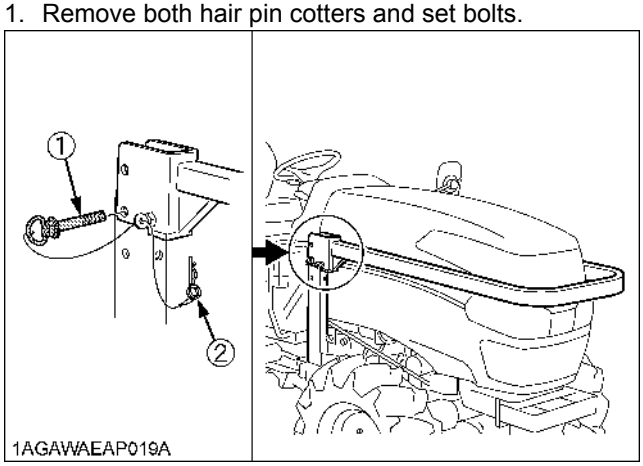
- **Make sure that both set bolts are properly installed and secured with the hair pin cotters.**



(1) Set bolt
(2) Hair pin cotter

■To Raise the ROPS to Upright Position

1. Remove both hair pin cotters and set bolts.



(1) Set bolt
(2) Hair pin cotter

2. Raise ROPS to the upright position.

CAUTION

To avoid personal injury:

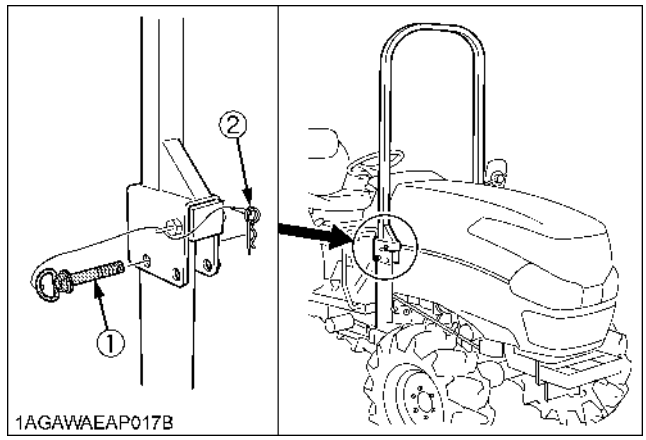
- **Raise the ROPS slowly and carefully.**

3. Align set bolt holes, insert both set bolts. Slightly tighten the set bolts and secure them with the hair pin cotters.

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 pin cotters.**



(1) Set bolt
(2) Hair pin cotter

STARTING

1. Adjusting the operator's position.

NOTE :

- The seat 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 body vibration.

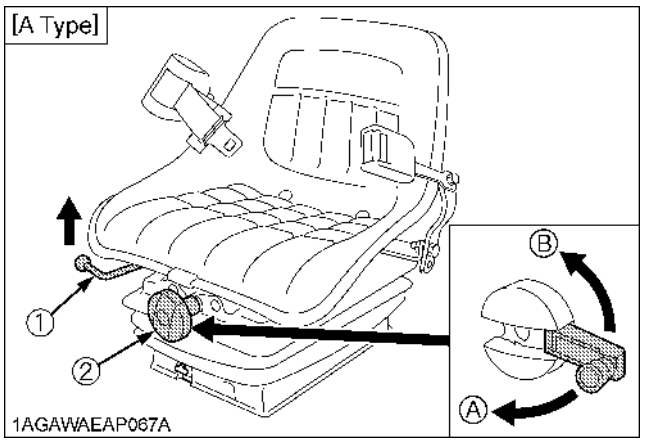
■Operator's Seat

CAUTION

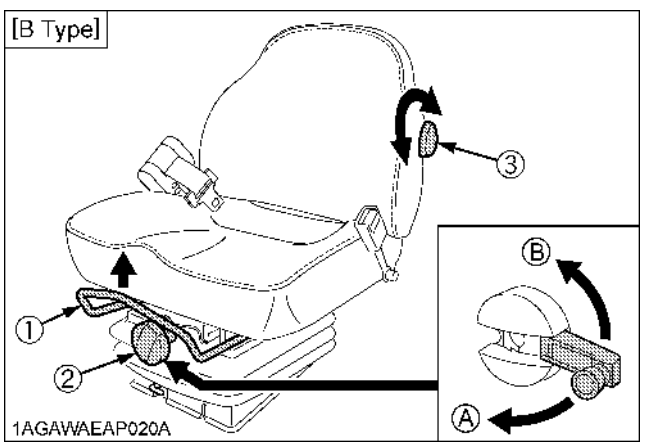
To avoid personal injury:

- **Make adjustments to the seat only while the tractor is stopped.**
- **Make sure that the seat is completely secured after each adjustment.**
- **Do not allow any person other than the operator to ride on the tractor.**

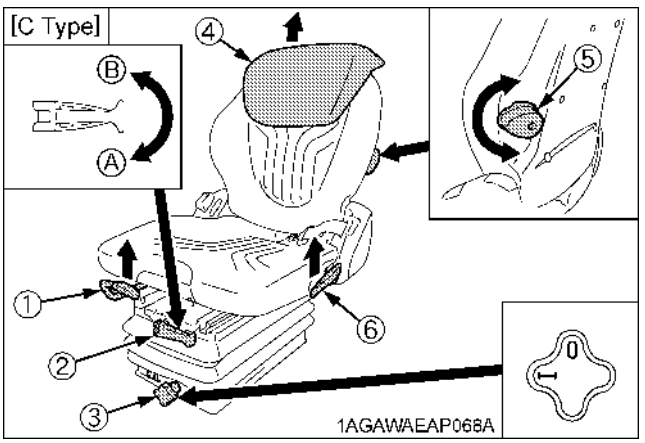
Mechanical Suspension Seat



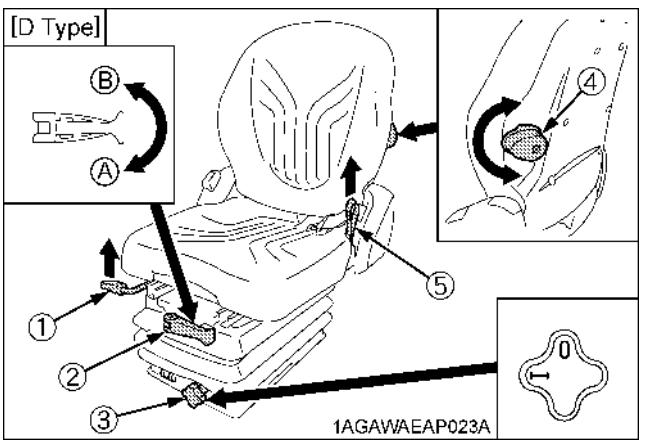
(1) Travel adjust lever
(2) Suspension adjust knob
(A) "TO INCREASE TENSION"
(B) "TO DECREASE TENSION"



(1) Travel adjust lever
(2) Suspension adjust knob
(3) Lumber support adjust knob
(A) "TO INCREASE TENSION"
(B) "TO DECREASE TENSION"

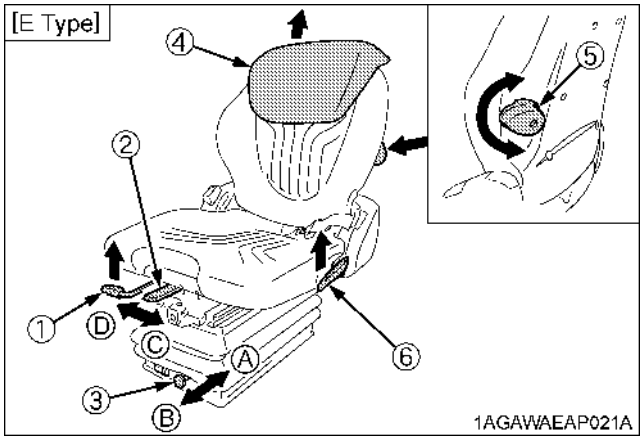


(1) Travel adjust lever
(2) Suspension adjust lever
(3) Height adjust knob
(4) Backrest extension
(5) Lumber support adjust knob
(6) Backrest tilt adjust lever
(A) "TO INCREASE TENSION"
(B) "TO DECREASE TENSION"
(I) "HIGH POSITION"
(O) "LOW POSITION"

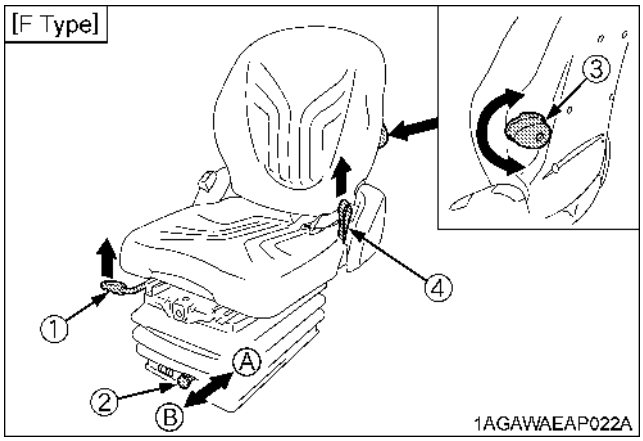


(1) Travel adjust lever
(2) Suspension adjust lever
(3) Height adjust knob
(4) Lumber support adjust knob
(5) Backrest tilt adjust strap
(A) "TO INCREASE TENSION"
(B) "TO DECREASE TENSION"
(I) "HIGH POSITION"
(O) "LOW POSITION"

Air Suspension Seat



(1) Travel adjust lever
(2) Fore / aft isolator
(3) Weight / Height adjust knob
(4) Backrest extension
(5) Lumber support adjust knob
(6) Backrest tilt adjust lever
(A) "TO INCREASE TENSION"
(B) "TO DECREASE TENSION"
(C) "ON"
(D) "OFF"



(1) Travel adjust lever
(2) Weight / Height adjust knob
(3) Lumber support adjust knob
(4) Backrest tilt adjust strap
(A) "TO INCREASE TENSION"
(B) "TO DECREASE TENSION"

◆ Travel adjustment

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

◆ Suspension adjustment

[A, B type]

Turn the suspension adjust knob to achieve the optimum suspension setting.

[C, D type]

Turn the suspension adjust lever to achieve the optimum suspension setting.

◆ Height adjustment

[C, D type]

Turn the height adjust knob to desired position while sitting in the seat.

◆ Weight and Height adjustment

[Air suspension type]

[E, F type]

Turn on the key switch. The seat should be adjusted for the operator's weight by briefly pulling out or pushing in the weight / height adjust knob with the tractor in a stationary position and the operator sitting on the seat.

IMPORTANT :

- In order to avoid damage of the seat, do not operate the weight / height adjust knob for more than 1 minute.

◆ Fore / aft isolator

[E type]

Set the isolator in "ON" position so that shock impacts in the direction of travel can be better absorbed by the seat.

◆ Tilt adjustment

[C, E type]

Pull the backrest tilt adjust lever and move the backrest to the desired angle.

[D, F type]

Pull the backrest tilt adjust strap and move the backrest to the desired angle.

◆ Lumbar support adjustment

[B, C, D, E, F type]

Turn the lumbar support adjust knob to the desired position.

IMPORTANT :

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

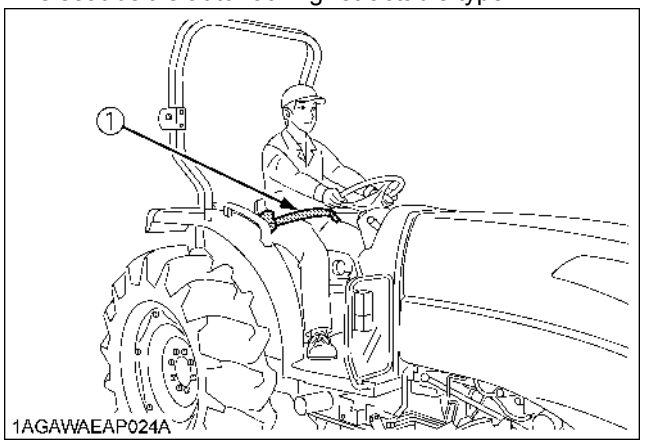
■Seat Belt

WARNING

To avoid personal injury:

- **Always use the seat belt when any ROPS or CAB are installed.**
- **Do not use the seat belt if a foldable ROPS is down or there is no ROPS.**

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



(1) Seat belt

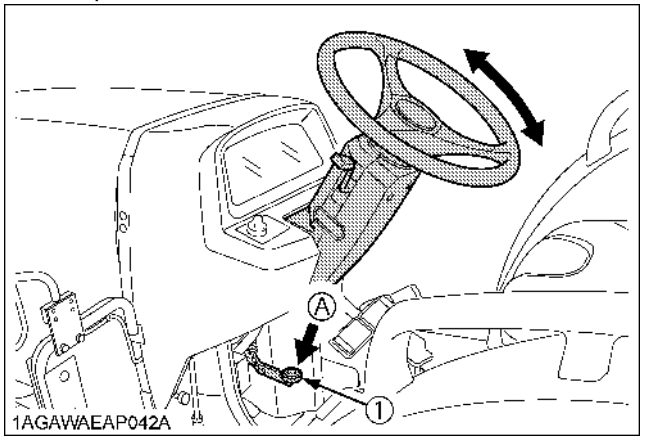
■Tilt Steering Adjustment

CAUTION

To avoid personal injury:

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

Press down the steering wheel tilt pedal, to release the lock so the steering wheel can be adjusted to one of 6 desired positions.

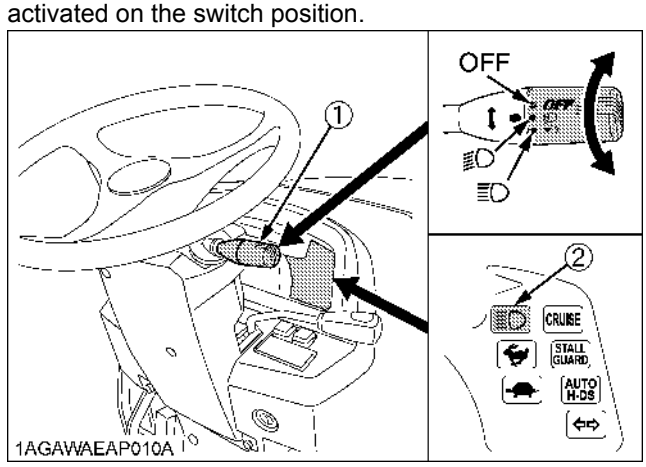


(1) Steering wheel tilt pedal (A) "PRESS DOWN"

2. Selecting light switch positions.

■Head Light Switch

Turn the light switch clockwise, and the following lights are activated on the switch position.



(1) Head light switch
(2) High beam indicator

Light name	Switch Position		
	OFF		
Head light (Low beam)	OFF	ON	---
Head light (High beam)	OFF	---	ON
Tail light	OFF	ON	ON
Number plate light	OFF	ON	ON
Sidemarker light	OFF	ON	ON
Meter board light	OFF	ON	ON

NOTE :

- High beam indicator will be on when head light switch is in "high beam" position.

■Turn Signal / Hazard Light Switch

◆ Turn Signal Light Switch

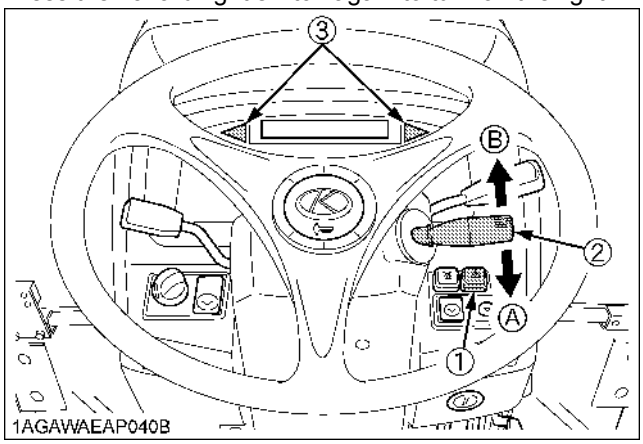
To indicate a right turn, turn the turn signal light switch clockwise. To indicate a left turn, turn the turn signal light switch counter-clockwise. The corresponding right and left turn signal lights and indicator on the instrument panel will flash. Turn signal is active when key switch is in the "ON" position.

NOTE :

- Be sure to return switch to center position after turning.

◆ Hazard Light Switch

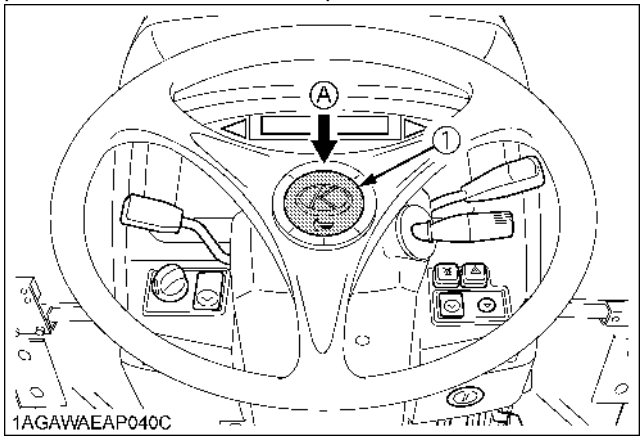
When hazard light switch is pushed, the hazard lights flash along with the indicator on the instrument panel. Press the hazard light switch again to turn off the light.



(1) Hazard light switch
(2) Turn signal light switch
(3) Hazard / Turn signal indicator
(A) "RIGHT TURN"
(B) "LEFT TURN

■Horn Button

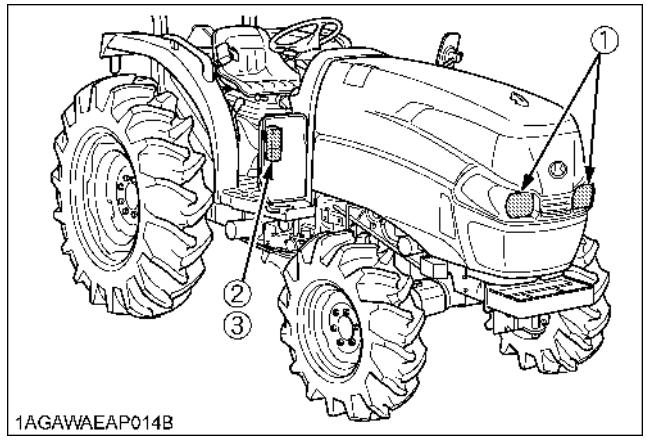
The horn will sound when the key switch is in the "ON" position and the horn button pressed.

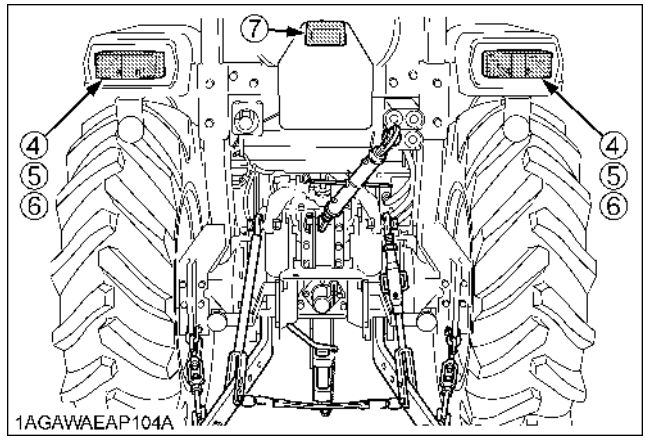


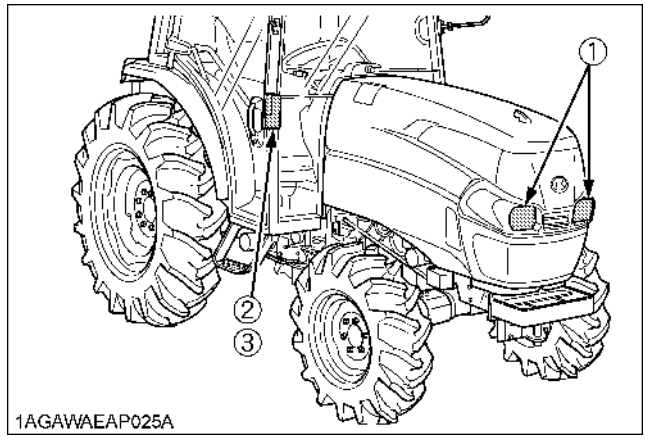
(1) Horn button
(A) "PUSH"

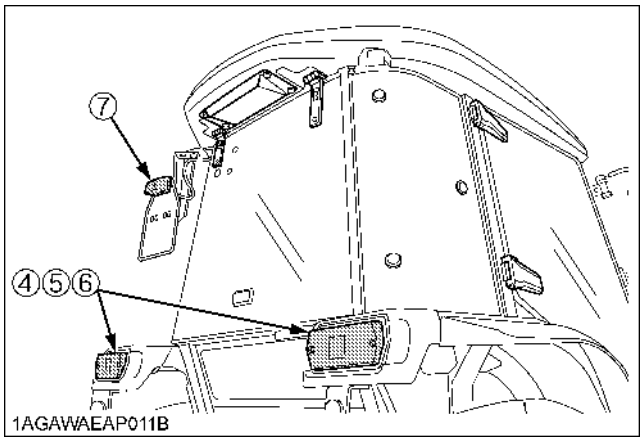
■Tractor Lights

(1) Head light
(2) Side turn signal / Hazard light
(3) Sidemarker light
(4) Tail light
(5) Rear turn signal / Hazard light
(6) Brake stop light
(7) Number plate light





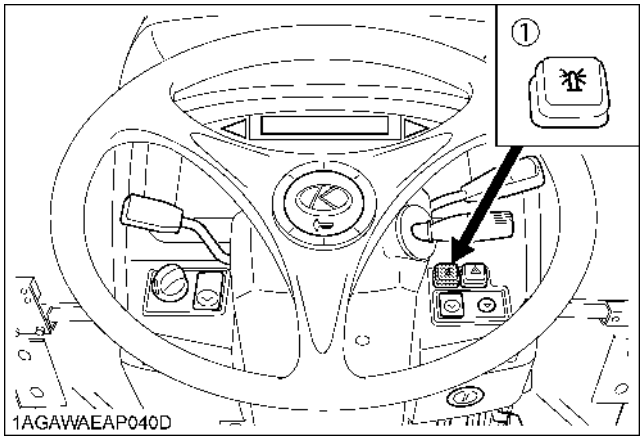




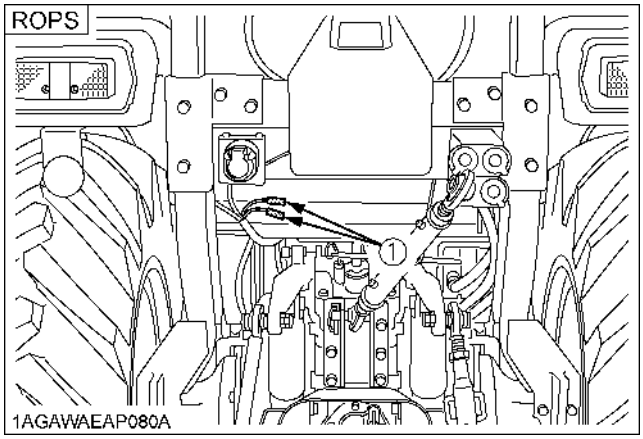
The number plate base is on the right hand for U.K models.

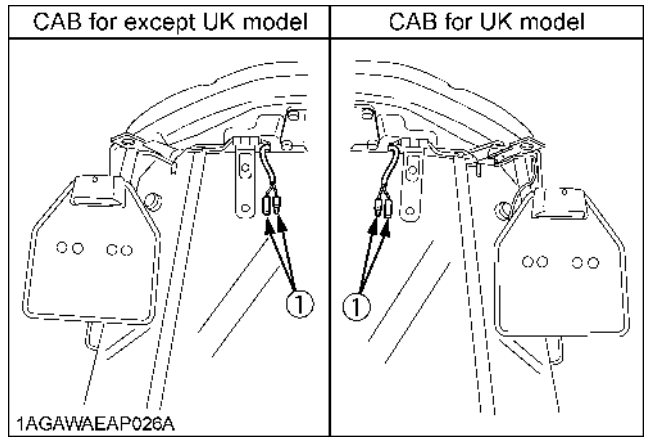
■Beacon Light Switch

The beacon light switch with wire harness for beacon light connection is equipped.
Turn on the key switch and press the beacon light switch. The beacon light and the switch's indicator light up.
Press the switch to turn off the light and indicator.



(1) Beacon light switch with indicator





(1) Beacon electrical outlet

3. Checking the brake pedal.

■Brake Pedals (Right and Left)

WARNING

To avoid personal injury:

- **Be sure to interlock the right and left pedals. Applying only one rear wheel brake at high speeds could cause the tractor to swerve or roll-over.**
- **Be sure brake pedals have equal adjustment when using locked together. Incorrect or unequal brake pedal adjustment can cause the tractor to swerve or roll-over.**

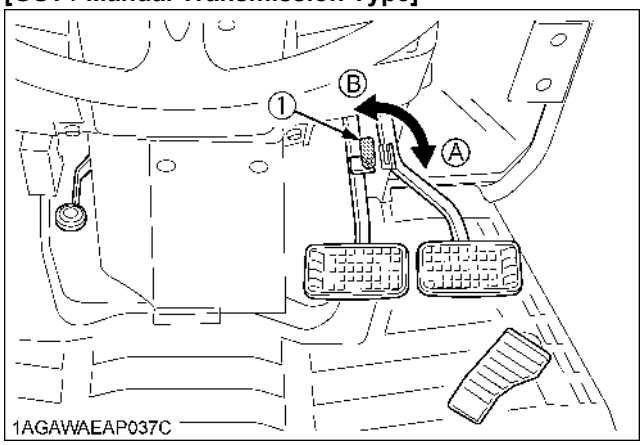
CAUTION

To avoid personal injury:

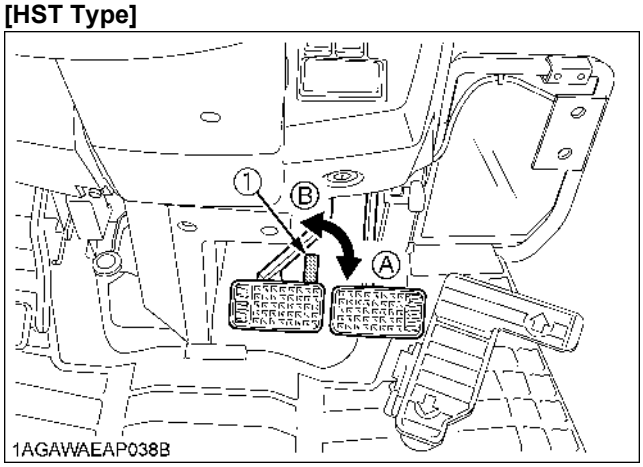
- **Do not make sudden braking. An accident may occur such as by heavy towed load shifting forward or loss of control.**
- **To avoid skidding and loss of steering control when driving on icy, wet, or loose surfaces, make sure the tractor is correctly ballasted, operated at reduced speed, operated with front wheel drive engaged (if equipped).**
- **The braking characteristics are different between 2 and 4-wheel drive. Be aware of the difference and use carefully.**

1. 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.
2. Use individual brakes to assist in making sharp turns at slow speeds (Field Operation Only). Disengage the brake pedal lock and depress only one brake pedal.
3. Be sure brake pedals have equal adjustment when using locked together.

[GST / Manual Transmission Type]

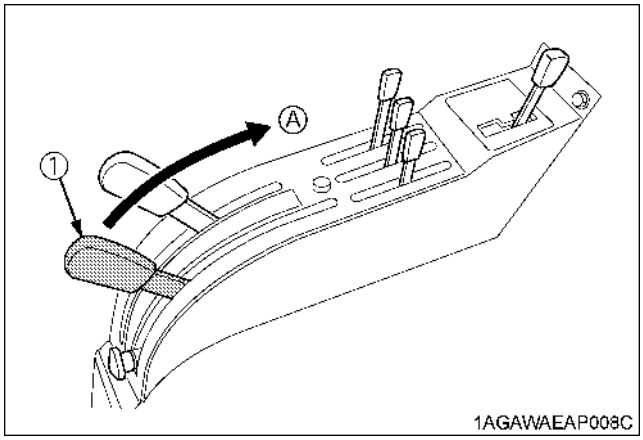


[HST Type]



(1) Brake pedal lock *(A) "LOCK"* *(B) "RELEASE"*

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



(1) Position control lever *(A) "UP"*

5. Depress the clutch pedal.

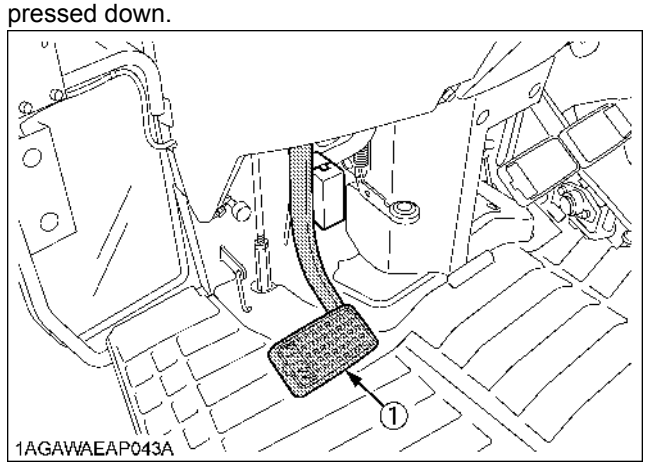
■Clutch Pedal

CAUTION

To avoid personal injury:

- **Sudden release of the clutch may cause the tractor to lunge in an unexpected manner.**

The clutch is disengaged when the clutch pedal is fully pressed down.



(1) Clutch pedal

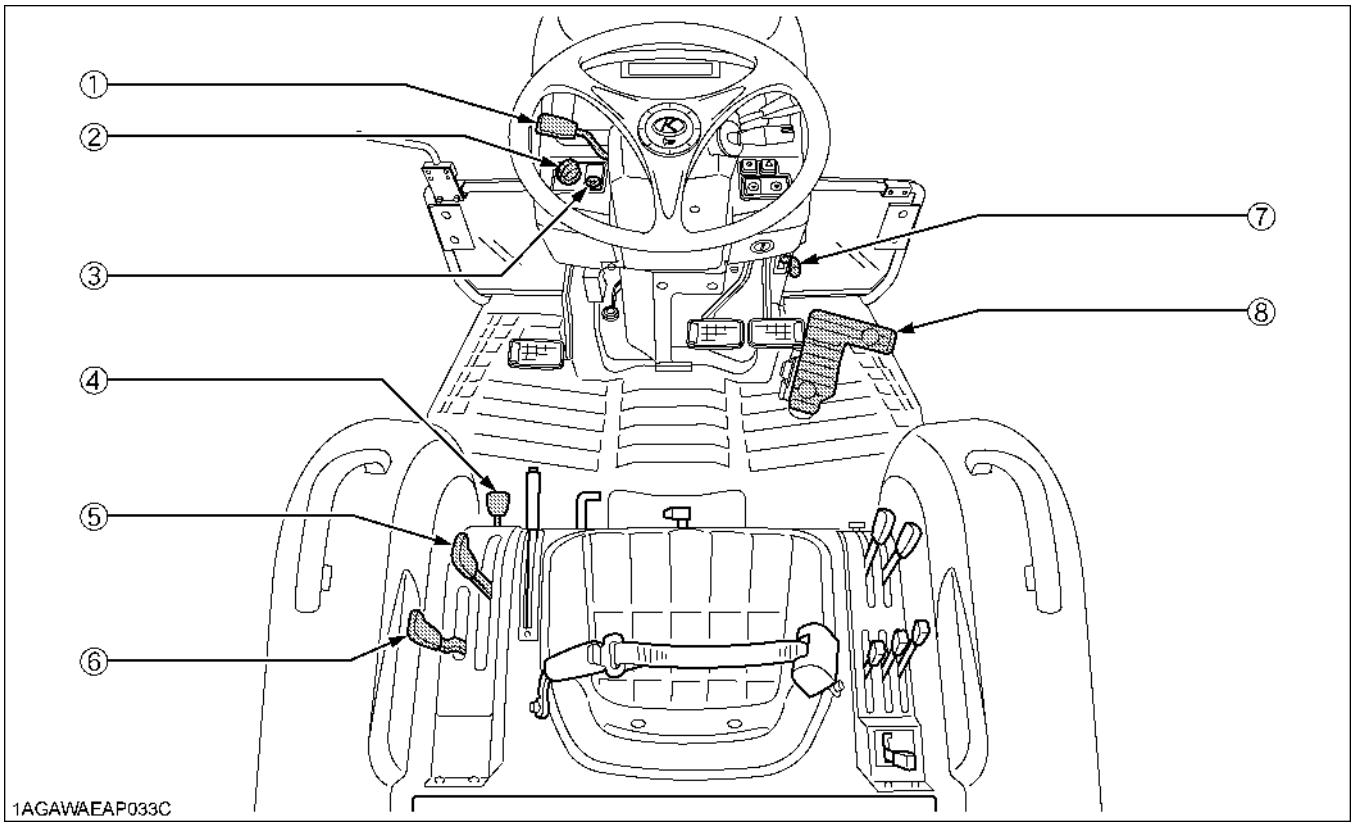
IMPORTANT :

To help prevent premature clutch wear:

- The clutch pedal must be quickly disengaged and be slowly engaged.
- Avoid operating the tractor with your foot resting on the clutch pedal.
- Select proper gear and engine speed depending on the type of job.

6. Selecting the Travel Speed.

[HST Type]



(1) H-DS lever
(2) HST response control dial
(3) HST mode select switch
(4) Front wheel drive lever
(5) Range gear shift lever
(6) Cruise control lever
(7) ATA lever
(8) Speed control pedal

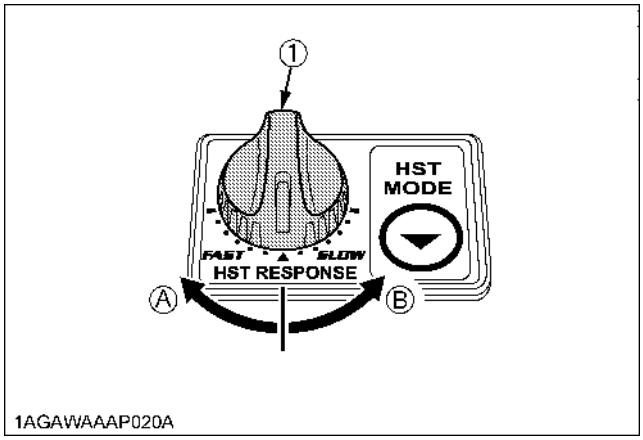
■HST Response Control Dial

This dial is used to set the start-up response when you step on the speed control pedal and the engine brake effect when you release the pedal.

Turn the dial toward "FAST", and the response level gets quicker. Turn it toward "SLOW" to have a slower response level.

When you move the tractor forward and backward repeatedly, during loader operations, for example, set the dial toward "FAST". It helps improve the working efficiency.

If the turf grass would be damaged by the tires at a start and stop, set the dial toward "SLOW".



(1) HST response control dial
(A) "FAST"
(B) "SLOW"

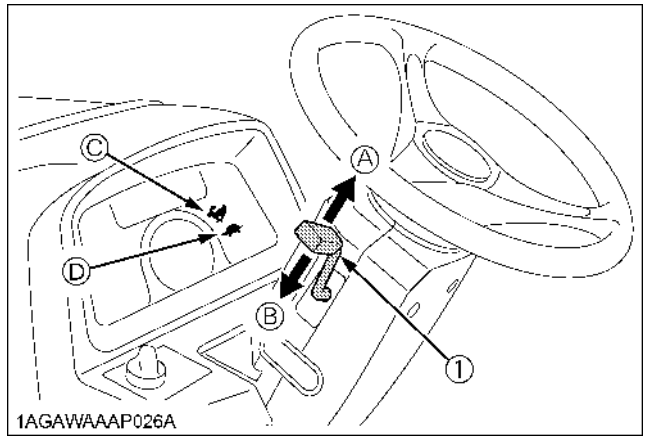
NOTE :

- This dial can be set whether the tractor is moving or not.

■H-DS (Hydro Dual Speed) Lever

This lever changes the tractor speed in 2 stages whether the tractor is moving or not.

Pull up the lever to increase the speed, and push it down to decrease the speed. The selected speed can be checked with the indicator on the meter panel.

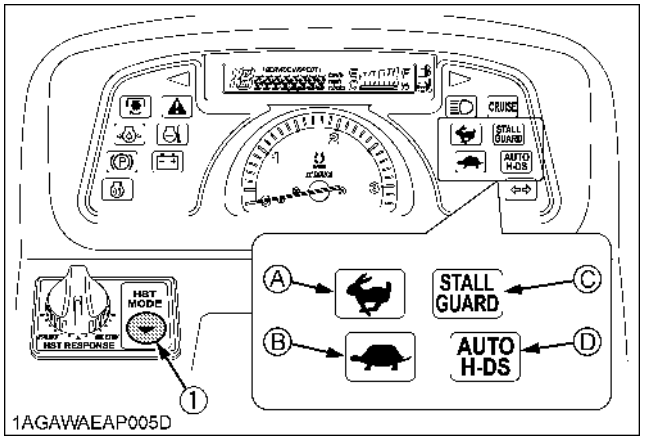


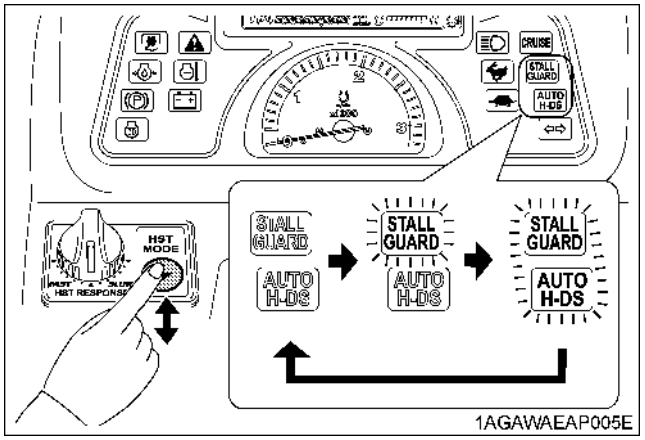
(1) H-DS lever
(A) "UP" (Hi)
(B) "DOWN" (Lo)
(C) " " (Hi)
(D) " " (Lo)

ENGLISH

■HST Mode Select Switch

Every time this switch is pushed, "MANUAL", "STALL GUARD" and "AUTO H-DS/STALL GUARD" are selected consecutively. Choose the best mode according to the type of job or your operating style. The selected mode is displayed on the indicator on the meter panel.





(1) HST mode select switch
(A) " " (Hi)
(B) " " (Lo)
(C) "STALL GUARD"
(D) "AUTO H-DS"

◆ STALL GUARD

1. Push the HST mode select switch until the "STALL GUARD" indicator lights up on the meter panel.
2. If the tractor gets overloaded and the engine rpm drops, the tractor automatically slows down in response to the load, which prevents an engine stall.

◆ AUTO H-DS/STALL GUARD

1. Push the HST mode select switch until the "STALL GUARD" and "AUTO H-DS" indicators light up on the meter panel.
2. Set the H-DS lever to the "UP" (Hi) position. Make sure the " " (Hi) lamp lights up on the meter panel.
3. If the tractor gets overloaded and the engine rpm drops, the tractor automatically slows down to the (Lo) low speed range.
   In this case, the " " (Hi) lamp goes out and the " " (Lo) lamp lights up instead.
4. When the engine rpm has come up again, the tractor automatically speeds up from the (Lo) low speed range to the (Hi) high speed range. (The tractor speed increases to match the speed control pedal.) If the load is rather heavy and the engine rpm drops further, "STALL GUARD" will still prevent engine stall.

NOTE :

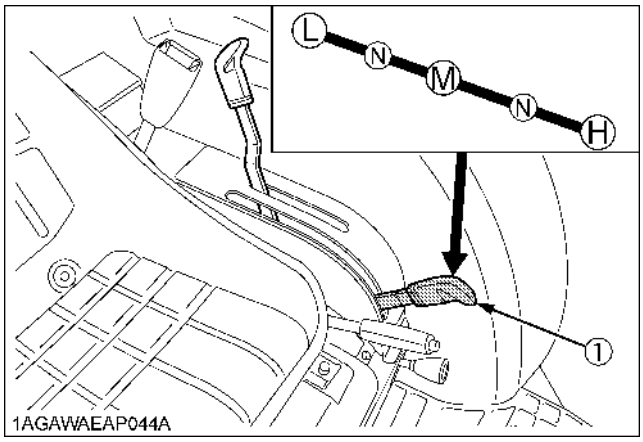
- When the H-DS lever is set at the "Lo" position, the "AUTO H-DS" system does not work. (If the " " (Lo) lamp stays up and the "AUTO H-DS" lamp is flashing, set the H-DS lever to the "Hi" position.)
- Even in the "AUTO H-DS/STALL GUARD" mode, the Hi-Lo speed change can be made with this lever. Return the lever to the "Hi" position when there is no more need to slow down.

◆ MANUAL

Push the HST mode select switch until the "STALL GUARD" and "AUTO H-DS" indicators go out on the meter panel. This provides for manual mode.
In this mode, any automatic control in response to the load does not activate.

■Range Gear Shift Lever (L-M-H)

The range gear shift can only be shifted when the tractor is completely stopped and the speed control pedal is in the neutral position.



(1) Range gear shift lever (L-M-H)
(H) "HIGH"
(M) "MIDDLE"
(L) "LOW"
(N) "NEUTRAL POSITION"

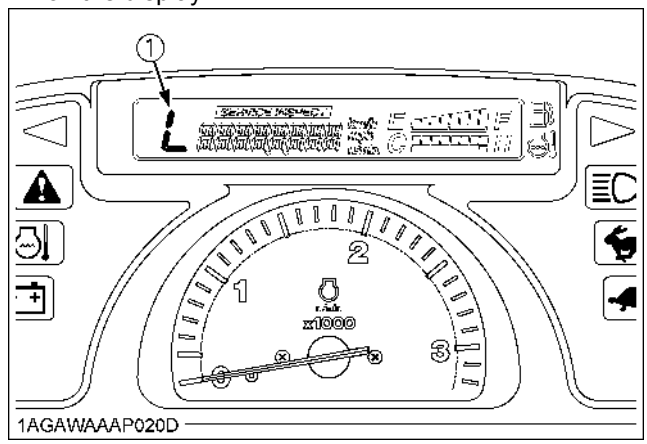
IMPORTANT:

To avoid transmission and shift linkage damage when shifting:

- Completely stop the tractor using the brake pedals.
- Do not force the range gear shift lever.
- If it is difficult to shift the lever into L, M, or H from neutral position:
  On slopes be sure to set the parking brake before starting the procedure.
  (1) Slightly depress the speed control pedal to rotate the gears inside of the transmission.
  (2) Release the speed control pedal to the neutral position.
  (3) Depress the clutch pedal, wait for a moment and then shift the lever.

NOTE :

- The range gear shift number being selected appears on the display.



(1) Gear shift number (H-M-L) *N: "NEUTRAL"*

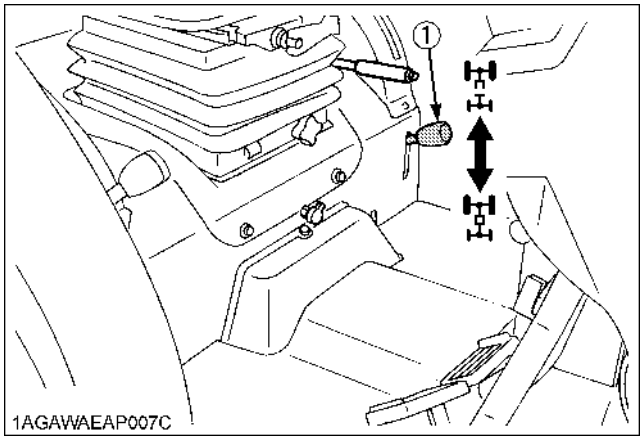
■Front Wheel Drive Lever

CAUTION

To avoid personal injury:

- **Do not engage the front wheel drive when traveling at 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) Front wheel drive lever *"ON"* *"OFF"*

IMPORTANT :

- Depress the clutch pedal before engaging the front wheel drive lever.
- If the front wheel drive lever is difficult to set to OFF, stop the tractor, turn the steering wheel and move the lever.
- Tires will wear quickly if front wheel drive is engaged on paved roads.

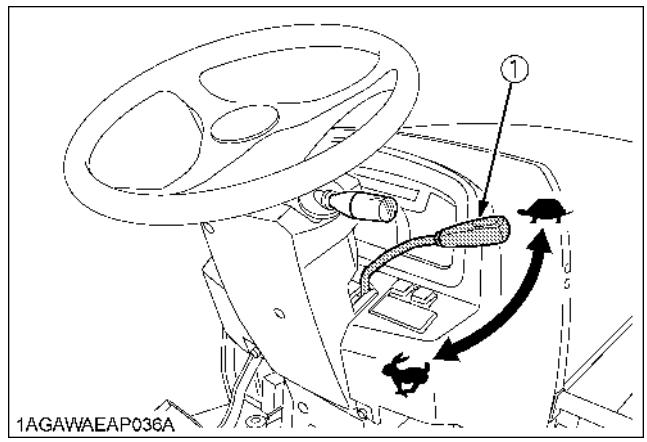
◆ **Front wheel drive is effective for the following jobs:**

1. When greater pulling force is needed, such as working in a wet field, when pulling a trailer, or when working with a front-end loader.
2. When working in sandy soil.
3. When working on a hard soil where a rotary tiller might push the tractor forward.
4. For increased braking at reduced speed.

7. Accelerate the engine.

■Hand Throttle Lever

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

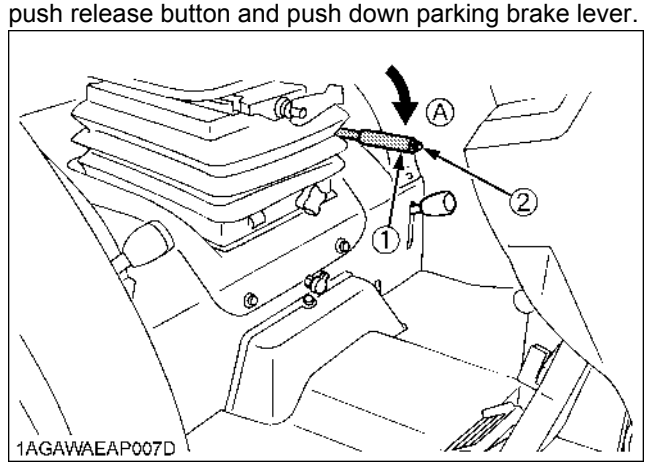


(1) Hand throttle lever *"INCREASE"* *"DECREASE"*

8. Unlock the parking brake and slowly release the clutch.

■Parking Brake Lever

To release the parking brake, depress the brake pedals, push release button and push down parking brake lever.



(1) Parking brake lever *(A) "RELEASE"*
(2) Release button

9. Depress the Speed Control Pedal.

■Speed Control Pedal

WARNING

To avoid personal injury:

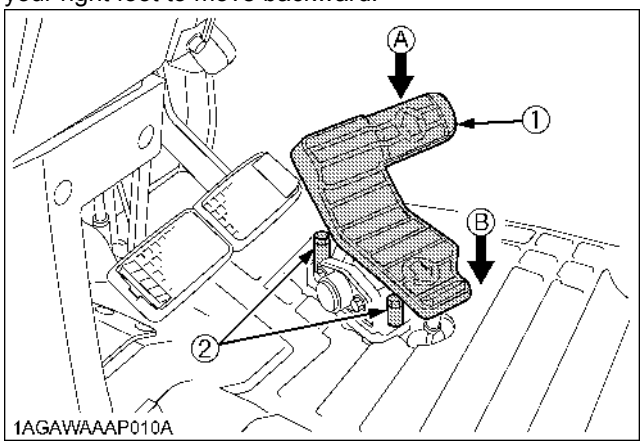
- **Do not operate if tractor moves on level ground with foot off of Speed Control Pedal.**
- **Consult your local KUBOTA Dealer.**

Forward Pedal

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

Reverse Pedal

Depress the speed control pedal with the heel or toe of your right foot to move backward.



(1) Speed control Pedal *(A) "FORWARD"*
(2) Stopper bolt *(B) "REVERSE"*

IMPORTANT :

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

NOTE :

- 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 become the tractor is equipped with Operator Presence Control system (OPC).

■Cruise Control Lever

CAUTION

To avoid personal injury:

- **Pull the cruise control lever completely to the rear before starting the engine.**
- **Do not use the cruise control when driving on the road.**
- **Be sure to connect both the left and the right brakes when driving on the road. The speed cruise control won't be released with single brake activation.**

Cruise control is designed for tractor operating efficiency and operator comfort, This device will provide a constant forward operating speed by holding the cruise control lever at the selected position.

◆ **To engage Cruise Control Device**

1. The proper forward speed will be maintained if you apply the cruise control lever at any position.
2. To operate faster than the set speed, depress the speed control pedal further down in this condition. The set speed will be resumed if you release the pedal.

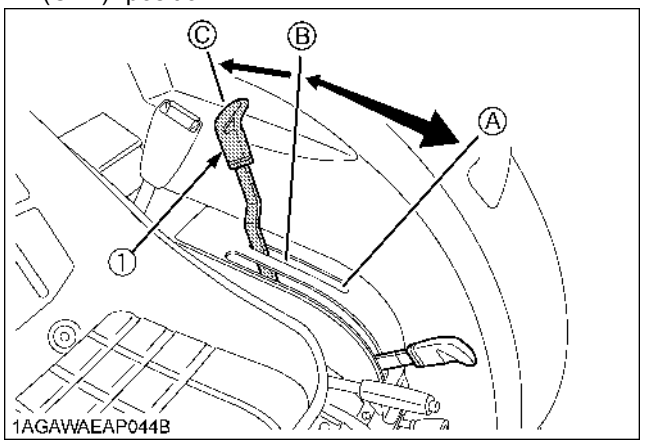
◆ **To disengage Cruise Control Device**

- Move the lever all the way back and then to "NEUTRAL" position to release the cruise control.
- Depress both brake pedals.
- Depress the speed control pedal in reverse.

NOTE :

- Cruise control will be disengaged automatically when both brake pedals are depressed.
- The cruise control device does not disengage when the individual right or left brake is applied.
- Cruise control device will not operate in reverse.

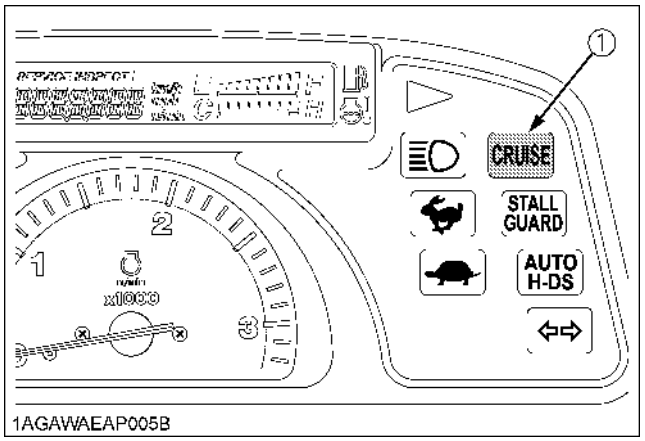
- When the brake pedal or the reverse pedal has been depressed to release the cruise control, move the cruise control lever by hand back to the "NEUTRAL (OFF)" position.



(1) Cruise control lever
(A) "INCREASE"
(B) "DECREASE"
(C) "NEUTRAL"

◆ **IntelliPanel(TM) Message**

1. The cruise control indicator stays on while the tractor is running under cruise control.

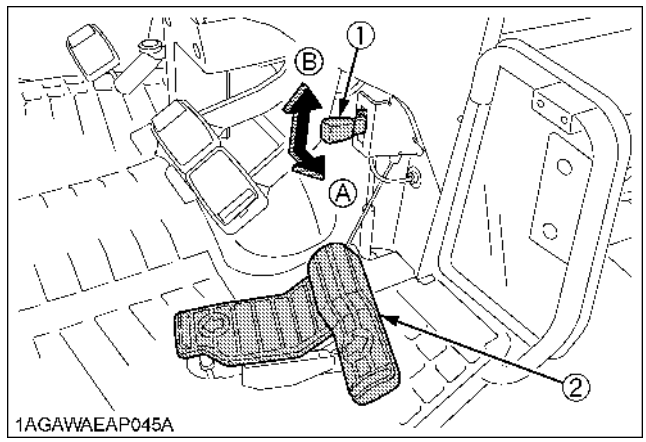


(1) Cruise control indicator

2. Step on the speed control pedal until the tractor goes beyond the cruise speed. Now the indicator starts flashing.
3. It goes out when the cruise control is released with setting the cruise control lever to "NEUTRAL (OFF)" or depressing the brake pedal or reverse pedal.

■ATA (Auto Throttle Advance) Lever

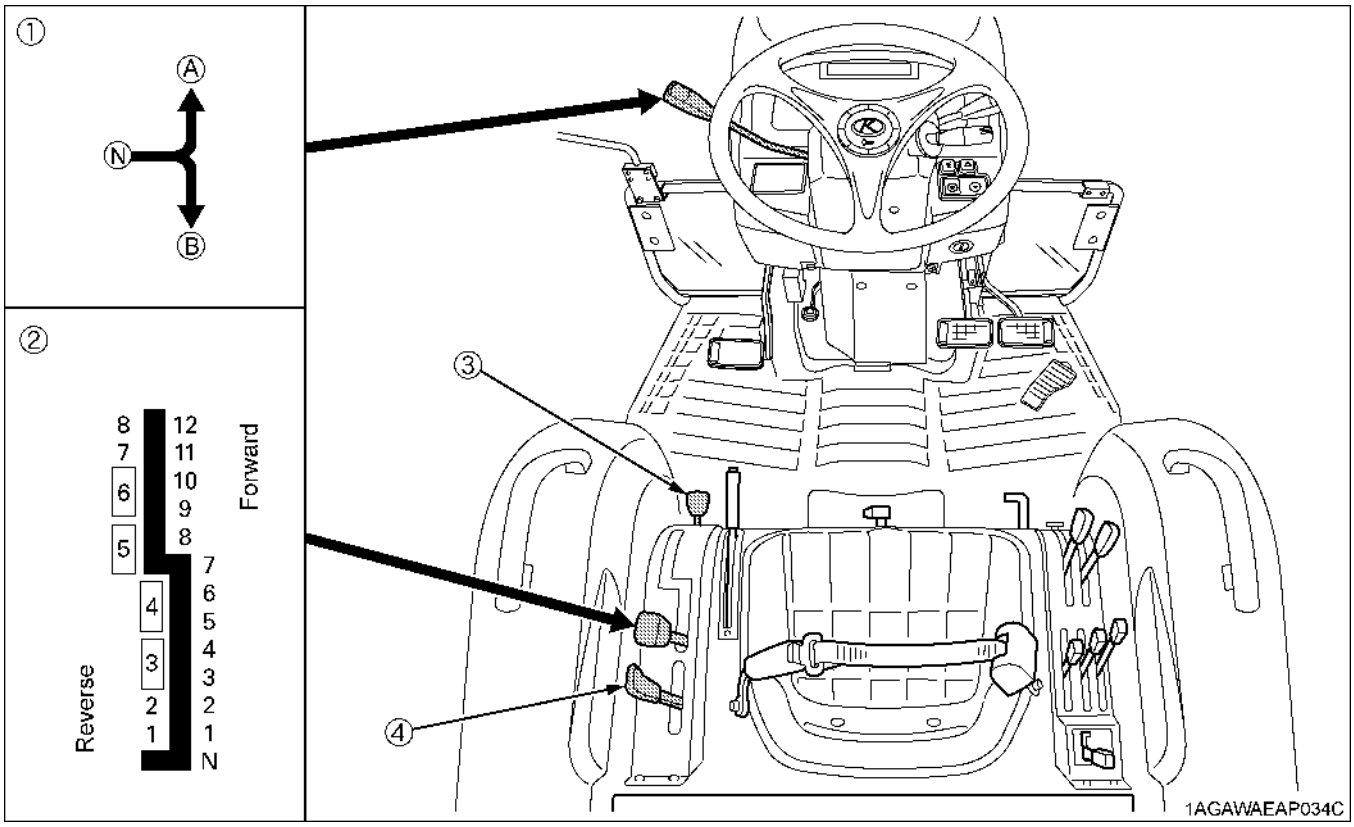
Get this lever engaged (ON), and the tractor speed and the engine rpm can be controlled with the speed control pedal. It helps pull a trailer or the like more easily.
Before moving the lever, be sure to return the speed control pedal to "NEUTRAL" position.



(1) ATA lever
(2) Speed control pedal
(A) "ENGAGE" (ON)
(B) "DISENGAGE" (OFF)

6. Selecting the Travel Speed.

[GST Type]



(1) Shuttle shift lever
(2) Main gear shift lever
(3) Front wheel drive lever
(4) Creep gear shift lever
(A) "FORWARD"
(B) "REVERSE"
(N) "NEUTRAL POSITION"

■Shuttle Shift Lever

WARNING

To avoid personal injury:
BEFORE DISMOUNTING TRACTOR:

- **ALWAYS SET PARKING BRAKE**
  Leaving transmission in gear with the engine stopped will not prevent tractor with GST transmission from rolling.
- **STOP THE ENGINE AND REMOVE THE KEY**

Raise up and shift the shuttle shift lever forward to obtain forward speeds and shift it backward to obtain reverse speeds without using the clutch pedal.

IMPORTANT :

- Reduce engine speed to low idle before shifting the shuttle shift lever.
- Shuttle shift change should not be done all at one time. Move the shuttle shift lever to the neutral position momentarily before you accomplish the shuttle change, hard or sudden gear shift may cause transmission damage.

■Main Gear Shift Lever

CAUTION

To avoid personal injury:

- **Use the clutch when making an emergency stop or working in confined areas, such as getting tractor in position to attach an implement.**
- **An accident may occur with erratic shifting operation.**
  For safe operation, move main gear shift lever only one gear at a time.
- **Shift the main gear shift lever firmly and without hesitation. Improper shift lever position will cause the tractor to momentarily coast on slopes.**
- **Avoid changing gears when climbing or descending a slope.**
- **Before ascending or descending a slope, shift to a gear low enough to control tractor speed without using brakes.**
  If you shift gears while ascending or descending a slope, be prepared to use the brakes to maintain control.
- **Operate in reverse at slow speeds to maintain control.**

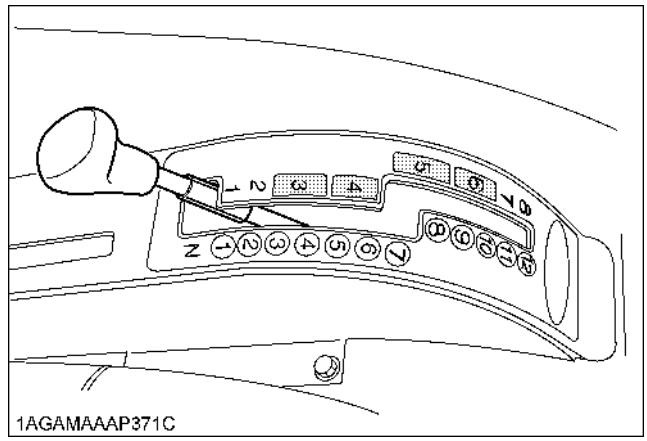
By combination of using the main gear shift lever and the shuttle shift lever, 12 forward speeds and 8 reverse speeds are obtained.
With the Glide Shift Transmission, you can shift at any time, stopped or on-the-go. The Shuttle Shift lever must be in forward or reverse.
There is no need to use the clutch when starting out or shifting up or down.
Before dismounting tractor, shift the main gear shift lever and the shuttle lever to the neutral position and set parking brake.

IMPORTANT :

- Start in lower gears and shift one gear at a time until desired gear is obtained.
- To prolong clutch life, avoid slipping the hydraulic clutch. Pay attention to the following points:
  - Select proper gear and engine speed depending on the type of job.
  - Avoid lugging the engine, especially in higher gears. If RPM's drop excessively, shift to a lower gear.
- In cold climate, it may take longer for the tractor to move after the main shift lever is moved. This is because the transmission oil must warm up.
  - Warm up the tractor sufficiently. If there is not enough time to do so, start the tractor with the shuttle shift lever or the clutch.
  - There is no problem with a delay in starting. The tractor will start as the oil temperature increases.

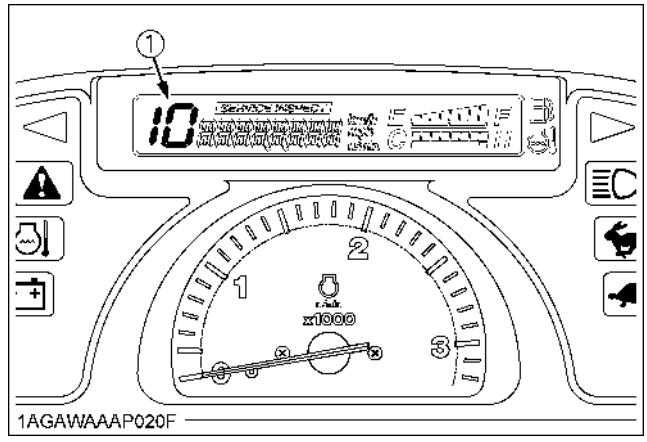
NOTE :

- 2 speed steps are assigned to each of the backward speed labels 3 thru 6. While using the main gear shift lever in this range for backward movement, however, each label gives just one speed, not two.



◆ IntelliPanel(TM) Message

The main gear shift number being selected appears on the display.



(1) Gear shift number (1 thru 12) N: "NEUTRAL"

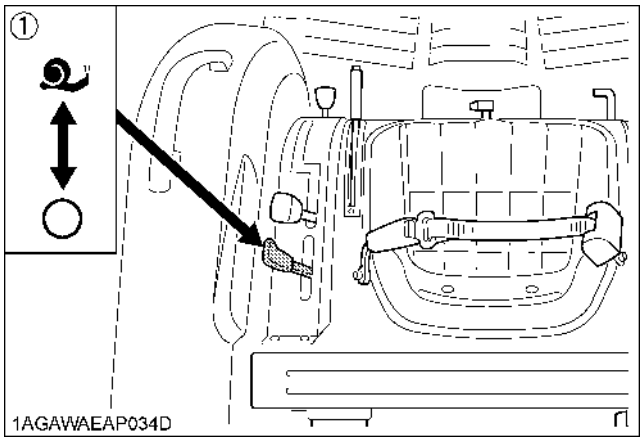
■Creep Gear Shift Lever

CAUTION

To avoid personal injury:

- **When you leave the tractor, be sure to apply the parking brake and stop the engine.**
- **IN APPLYING THE BRAKES:**
  - **The torque of wheel axle is extremely high while creep speed is being used. Be sure to step down on the clutch pedal completely before applying the brakes, or they will not work.**
  - **When starting to operate the tractor, be sure to release the parking brakes.**
    Misuse of the brakes may cause damage to the transmission and is therefore not acceptable to KUBOTA for coverage under the warranty.

Shift the creep gear shift lever at "○" to obtain high speeds and shift it "🐌" to obtain low speeds.
This shifting requires clutch operation.



(1) Creep gear shift lever

🐌 .....*Creep ON*
○ .....*Creep OFF*

◆ **Creep speed (attained by shifting the creep gear shift lever to "🐌") should be used only when doing one of the following jobs:**

1. Deep rotary-tilling and harrowing
2. Planting
3. Turf application

◆ **Creep speed can not be used for any of the following:**

1. Pulling a trailer
2. Front-loader operation
3. Front-blade operation
4. Earth-moving
5. Entering and leaving a field
6. Loading onto and unloading from a truck

IMPORTANT :

- Press the clutch pedal completely down and stop the tractor's motion before shifting the creep gear shift lever.

NOTE :

- 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 become the tractor is equipped with Operator Presence Control system (OPC).

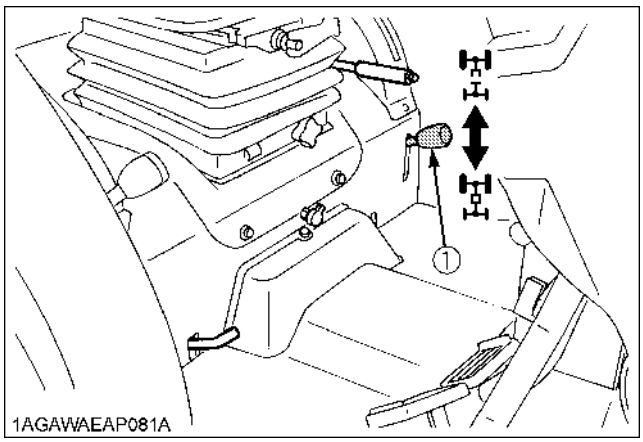
■Front Wheel Drive Lever

CAUTION

To avoid personal injury:

- **Do not engage the front wheel drive when traveling at 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) Front wheel drive lever *"ON" "OFF"*

IMPORTANT :

- Depress the clutch pedal before engaging the front wheel drive lever.
- If the front wheel drive lever is difficult to set to OFF, stop the tractor, turn the steering wheel and move the lever.
- Tires will wear quickly if front wheel drive is engaged on paved roads.

◆ **Front wheel drive is effective for the following jobs:**

1. When greater pulling force is needed, such as working in a wet field, when pulling a trailer, or when working with a front-end loader.
2. When working in sandy soil.
3. When working on a hard soil where a rotary tiller might push the tractor forward.
4. For increased braking at reduced speed.

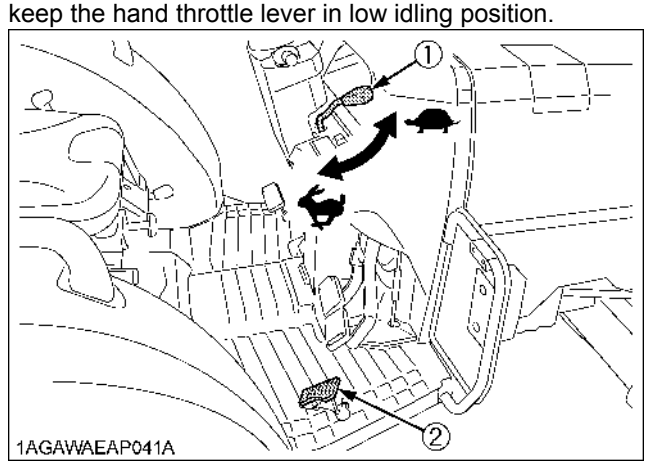
7. Accelerate the engine.

■Hand Throttle Lever

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

■Foot Throttle

Use the foot throttle when traveling on the road. Press down on it for higher speed. The foot throttle is interlocked with the hand throttle lever; when using the foot throttle, keep the hand throttle lever in low idling position.

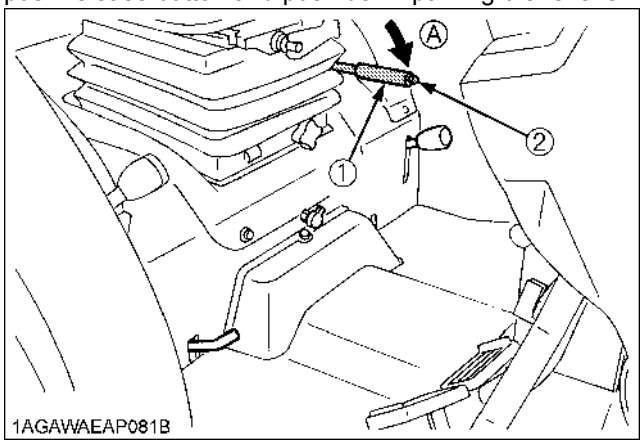


(1) Hand throttle lever *"INCREASE"*
(2) Foot throttle *"DECREASE"*

8. Unlock the parking brake and slowly release the clutch.

■Parking Brake Lever

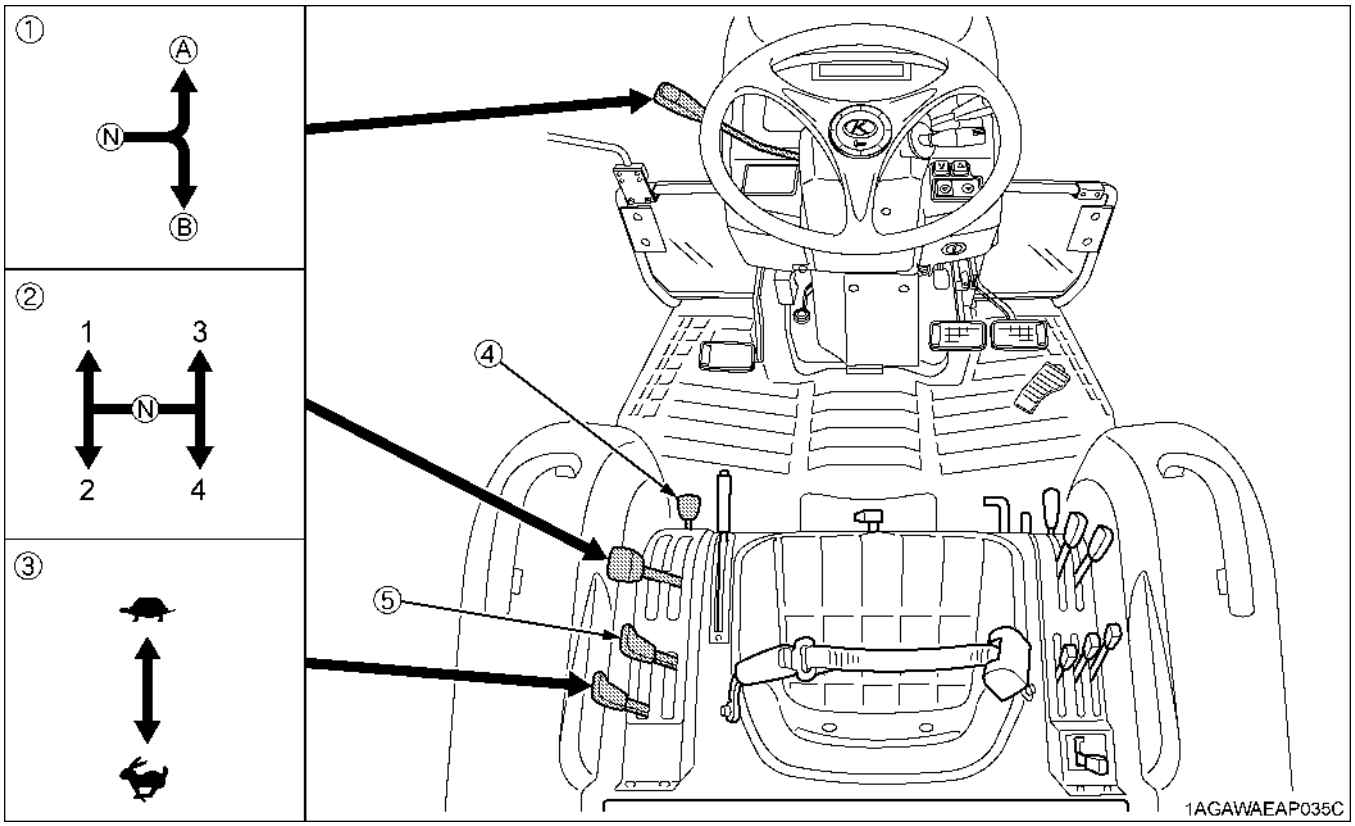
To release the parking brake, depress the brake pedals, push release button and push down parking brake lever.



(1) Parking brake lever
(2) Release button
(A) "RELEASE"

6. Selecting the Travel Speed.

[Manual Transmission Type]



(1) Synchro-shuttle shift lever
(2) Main gear shift lever
(3) Range gear shift lever (Hi-Lo)
(4) Front wheel drive lever
(5) Creep gear shift lever
(A) "FORWARD"
(B) "REVERSE"
(N) "NEUTRAL POSITION"
"HIGH"
"LOW"

■Main Gear Shift Lever

The main gear shift is fully synchronized to shift without stopping.

IMPORTANT :

- The main gear shift may be shifted between speeds on-the-go, but the clutch must be depressed.

■Range Gear Shift Lever (Hi-Lo)

The range gear shift can only be shifted when the tractor is completely stopped and clutch is depressed.

IMPORTANT :

- To avoid transmission damage, depress the clutch pedal and stop tractor before shifting between ranges.

■Synchro-Shuttle Shift Lever

Raise up and shift the shuttle shift lever forward to obtain forward speeds and shift back to obtain reverse speeds. This shifting requires clutch operation.

IMPORTANT :

- The synchro-shuttle shift lever may be shifted while the tractor is moving slowly and the clutch is depressed, but sudden gear shifting may cause transmission damage.

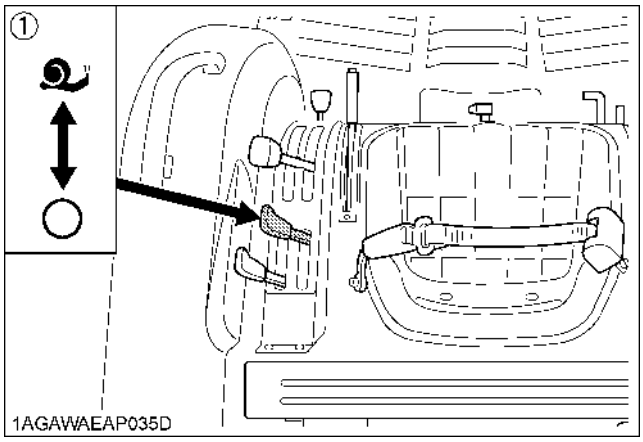
■Creep Gear Shift Lever

CAUTION

To avoid personal injury:

- **When you leave the tractor, be sure to apply the parking brake and stop the engine.**
- **IN APPLYING THE BRAKES:**
  - **The torque of wheel axle is extremely high while creep speed is being used. Be sure to step down on the clutch pedal completely before applying the brakes, or they will not work.**
  - **When starting to operate the tractor, be sure to release the parking brakes.**
    Misuse of the brakes may cause damage to the transmission and is therefore not acceptable to KUBOTA for coverage under the warranty.

Shift the creep gear shift lever at "○" to obtain high speeds and shift it "🐌" to obtain low speeds.
This shifting requires clutch operation.



(1) Creep gear shift lever

🐌 .....Creep ON
○ .....Creep OFF

◆ **Creep speed (attained by shifting the creep gear shift lever to "🐌") should be used only when doing one of the following jobs:**

1. Deep rotary-tilling and harrowing
2. Planting
3. Turf application

◆ **Creep speed can not be used for any of the following:**

1. Pulling a trailer
2. Front-loader operation
3. Front-blade operation
4. Earth-moving
5. Entering and leaving a field
6. Loading onto and unloading from a truck

IMPORTANT :

- Press the clutch pedal completely down and stop the tractor's motion before shifting the creep gear shift lever.

NOTE :

- 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 become the tractor is equipped with Operator Presence Control system (OPC).

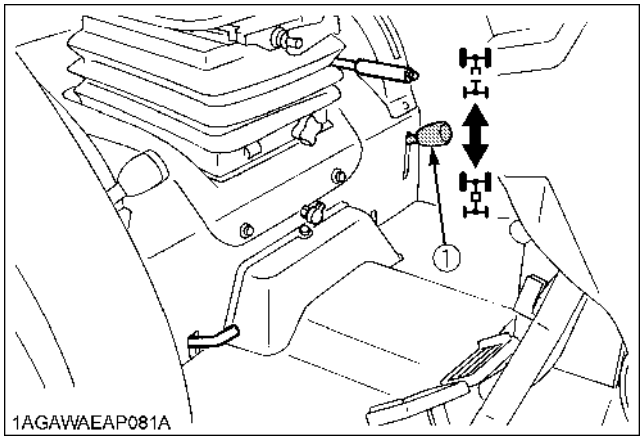
■Front Wheel Drive Lever

CAUTION

To avoid personal injury:

- **Do not engage the front wheel drive when traveling at 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) Front wheel drive lever *"ON"* *"OFF"*

IMPORTANT :

- Depress the clutch pedal before engaging the front wheel drive lever.
- If the front wheel drive lever is difficult to set to OFF, stop the tractor, turn the steering wheel and move the lever.
- Tires will wear quickly if front wheel drive is engaged on paved roads.

◆ **Front wheel drive is effective for the following jobs:**

1. When greater pulling force is needed, such as working in a wet field, when pulling a trailer, or when working with a front-end loader.
2. When working in sandy soil.
3. When working on a hard soil where a rotary tiller might push the tractor forward.
4. For increased braking at reduced speed.

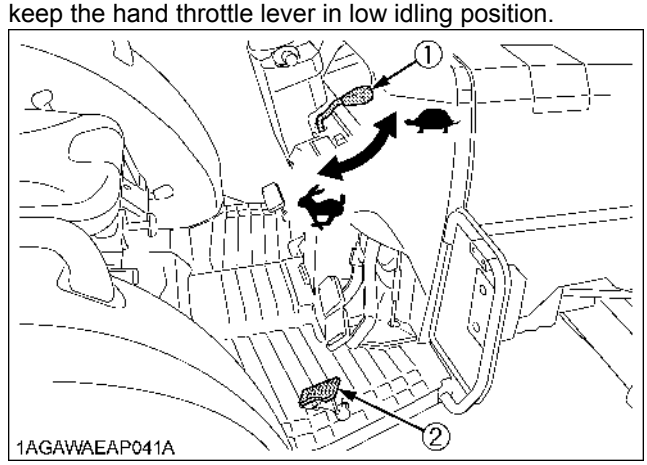
7. Accelerate the engine.

■Hand Throttle Lever

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

■Foot Throttle

Use the foot throttle when traveling on the road. Press down on it for higher speed. The foot throttle is interlocked with the hand throttle lever; when using the foot throttle, keep the hand throttle lever in low idling position.

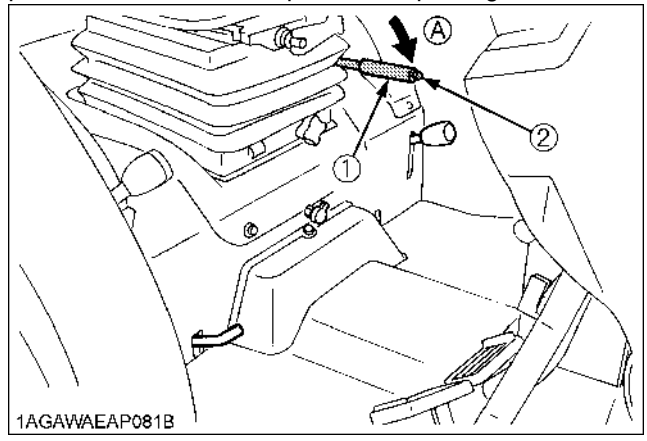


(1) Hand throttle lever *"INCREASE"*
(2) Foot throttle *"DECREASE"*

8. Unlock the parking brake and slowly release the clutch.

■Parking Brake Lever

To release the parking brake, depress the brake pedals, push release button and push down parking brake lever.



(1) Parking brake lever *(A) "RELEASE"*
(2) Release button

STOPPING

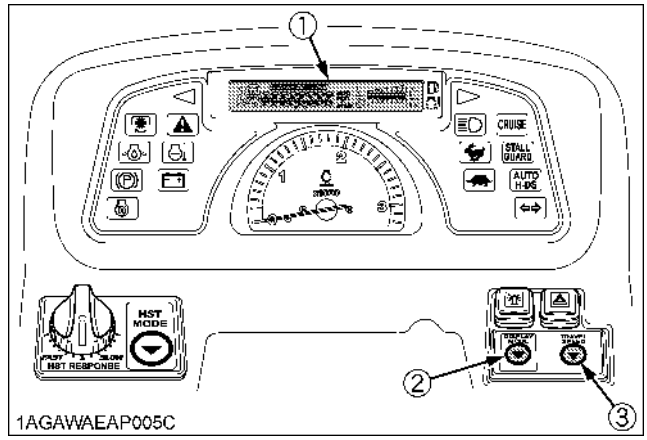
■Stopping

1. Slow down the engine.
2. Step on the clutch and brake pedal.
3. After the tractor has stopped, disengage the PTO, lower the implement to the ground, shift the transmission to neutral, release the clutch pedal, and set the parking brake.

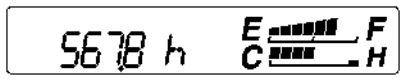
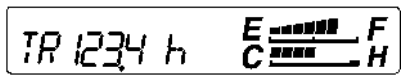
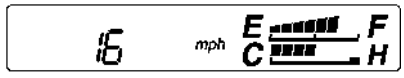
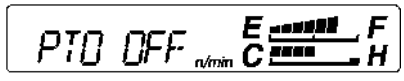
INTELLIPANEL (TM)

■Changing Display Mode

1. Each time the display mode button is pressed, the IntelliPanel(TM) display mode changes from 1 thru 5. Select the display mode appropriate for the work in question.
2. When the key switch is set to "ON", the IntelliPanel(TM) will return to the last display mode used.
3. If the display is in any mode other than the traveling speed mode. Press the travel speed button, and the display switches to the traveling speed mode. To get back to the original display mode, use the display mode button.



(1) IntelliPanel(TM) display
(2) Display mode button
(3) Travel speed button

Display 1 : Hour meter mode		The tractor's total operating hours are displayed.
Display 2 : Trip meter mode		Hold down the display mode button for 2 seconds or longer, and the trip meter resets to [0.0].
Display 3 : Travelling speed mode (mph)		
Display 4 : Travelling speed mode (km/h)		
Display 5 : PTO speed mode		The PTO is disengaged (OFF).
		The speed of the rear PTO, when engaged (ON), is displayed. *1

NOTE :

- At the leftmost end of the display, the main gear shift number appears on GST type machines, whereas the range gear shift number appears on HST type machines.
- In cold weather the LCD meter response will normally be slower and the visibility be less, than in warmer weather.

*1 Let's suppose that the PTO gear shift lever is at the neutral position. When you turn ON the PTO clutch control lever, the PTO shaft stays off but the meter displays the rpm at the L position. This is normal, not a machine failure.

CHECK DURING DRIVING

■IntelliPanel(TM) Message

If any of the following messages appears during operation, immediately stop the machine and follow the message's instructions. If the cause of trouble has not been pinpointed, consult your local KUBOTA Dealer.

◆ Engine over heat

If the engine gets overheated, the lamp on the meter panel lights up and the following messages appear alternately.

OVERHEAT ⟷ ENG SLOW

1. Stop operation and set the engine to the idling speed.
2. When the coolant temperature has dropped, the following messages appear instead.

ENG STOP ⟷ CHECK

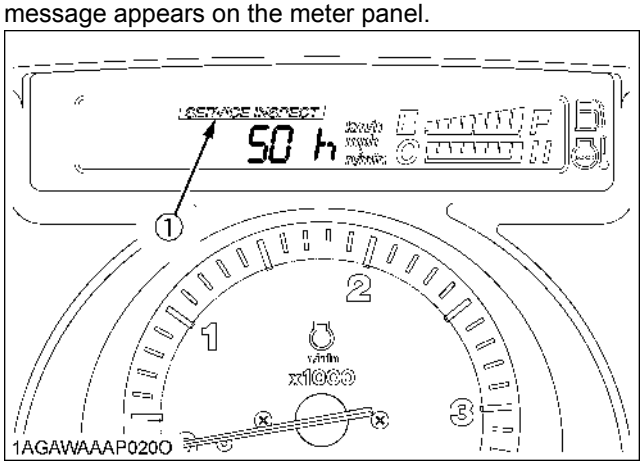
3. Stop the engine, wait for 30 minutes until the machine cools down, and check the following points.
   (1) Check the reserve tank and radiator for cooling water shortage or leak.
   (2) Check the insect screening and radiator for chaff and dust deposits.
   (3) Check the fan belt for slack.

IMPORTANT :

- If steam gushes out of the reserve tank's overflow pipe, take the measure discussed above.

◆ SERVICE INSPECT

Every 50 operating hours, the "SERVICE INSPECT" message appears on the meter panel.



(1) "SERVICE INSPECT"

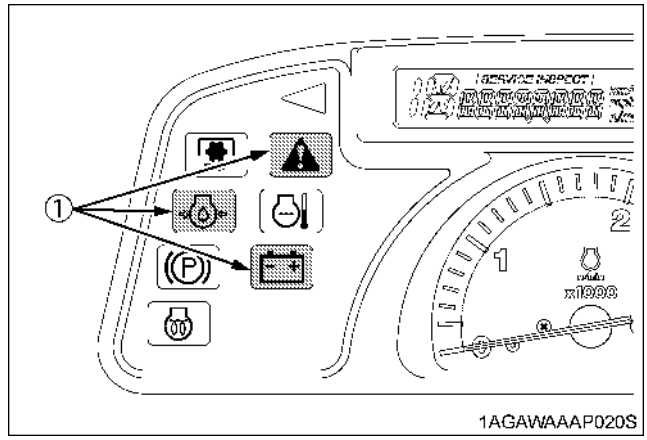
1. Finish the job in hand, and do the routine inspection referring to the hours being displayed.
   (See "SERVICE INTERVALS" in "MAINTENANCE" section.)
2. Reset the "SERVICE INSPECT" message as follows.
   Keep pushing both display mode button and travel speed button for 2 seconds or more while HOUR METER MODE.

■Immediately Stop the Engine if:

- The engine suddenly slows down or accelerates,
- Unusual noises are suddenly heard,
- Exhaust fumes suddenly become very dark,

■Easy Checker(TM)

If the indicators in the Easy Checker(TM) come on during operation, immediately stop the engine, and find the cause as shown below.
Never operate the tractor while Easy Checker(TM) lamp is on.



(1) Easy checker(TM)

Engine oil pressure
If the oil pressure in the engine goes below the prescribed level, the indicator in the Easy Checker(TM) will come on.
If this should happen during operation, and it does not go off when the engine is accelerated to more than 1000 rpm, check level of engine oil.
(See "Checking Engine Oil Level" in "DAILY CHECK" in "PERIODIC SERVICE" section.)

Electrical charge
If the alternator is not charging the battery, the indicator in the Easy Checker(TM) will come on.
If this should happen during operation, check the electrical charging system or consult your local KUBOTA Dealer.

If the HST or GST Transmission malfunctions, the indicator in the Easy Checker(TM) will blink. If this should happen during operation, carefully move the tractor to a safe place, contact your local KUBOTA Dealer for repairs.

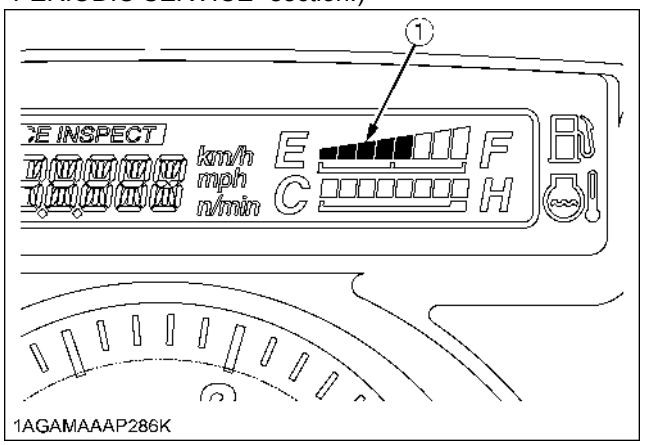
NOTE :
- For checking and servicing of your tractor, consult your local KUBOTA Dealer for instructions.

■Fuel Gauge

When the key switch is on, the liquid crystal blocks indicate the fuel level.

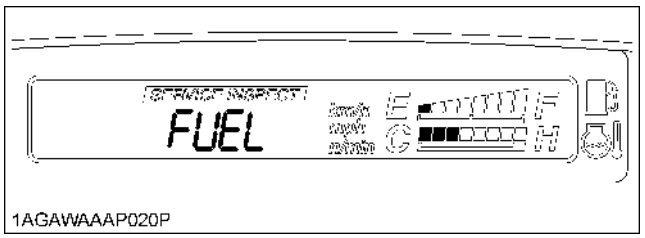
Be careful not to empty the fuel tank. Otherwise air may enter the fuel system.

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



(1) Fuel gauge *(E) "EMPTY"* *(F) "FULL"*

NOTE :
- When all the liquid crystal blocks but the leftmost one of the fuel gauge go out, "FUEL" appears in the liquid crystal display.
  If this should happen during operation, refuel as soon as possible. (See "Checking and Refueling" in "DAILY CHECK" in "PERIODIC SERVICE" section.)

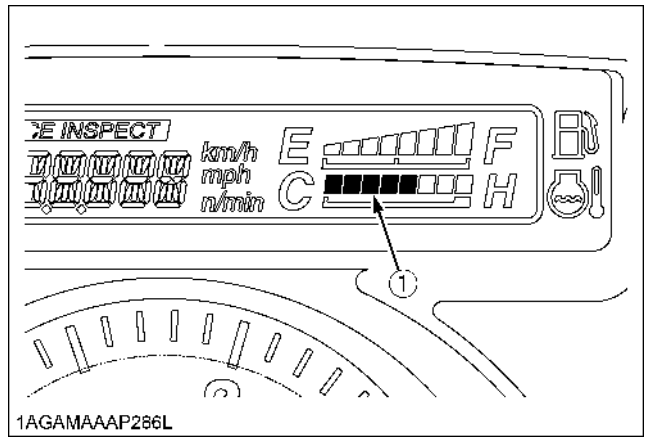


■Coolant Temperature Gauge

CAUTION

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

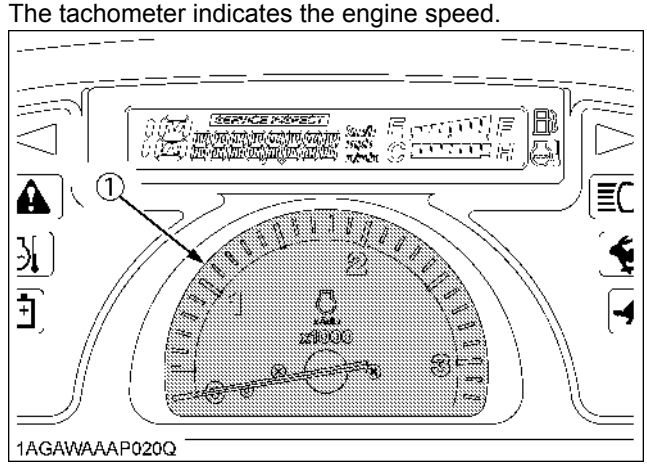
1. With the key switch at "ON" the liquid crystal blocks indicate the temperature of the coolant. "C" for "cold" and "H" for "hot."
2. If the indicator reaches the "H" position, engine coolant is overheated. Check the tractor by referring to "TROUBLESHOOTING" section.



(1) Coolant temperature gauge

■Tachometer

The tachometer indicates the engine speed.



(1)Engine revolution

PARKING

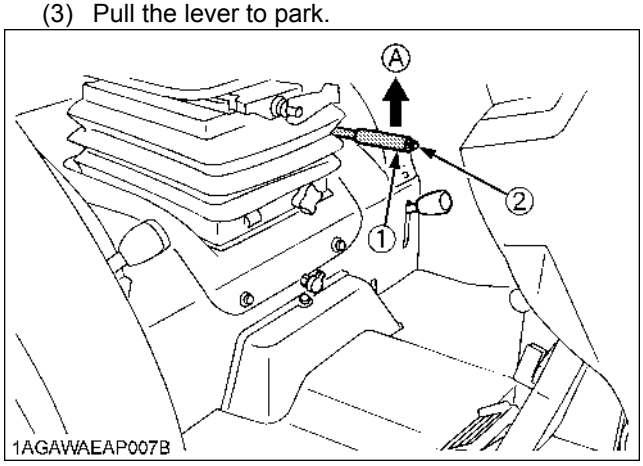
■Parking

CAUTION

To avoid personal injury:
BEFORE DISMOUNTING TRACTOR

- **ALWAYS SET PARKING BRAKE AND LOWER ALL IMPLEMENTS TO THE GROUND.**
  Leaving transmission in gear with the engine stopped will not prevent tractor with GST and HST transmission from rolling.
- **STOP THE ENGINE AND REMOVE THE KEY.**

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



(1) Parking brake lever (A) "PULL"
(2) Release button

2. Before getting off the tractor, disengage the PTO, lower all implements, place all control levers in their neutral positions, set the parking brake, stop the engine and remove the key.
3. 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

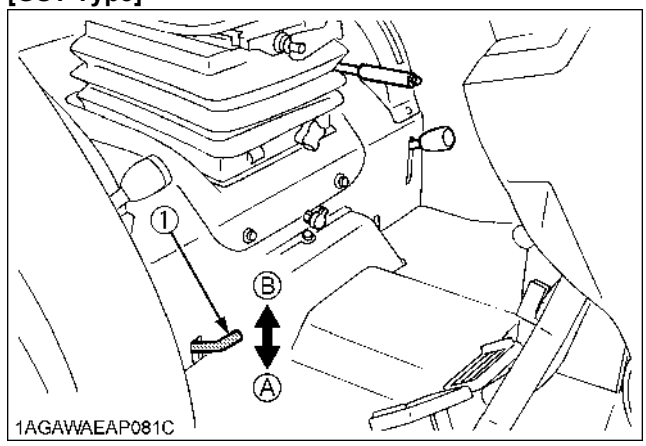
WARNING

To avoid personal injury due to loss of steering control:

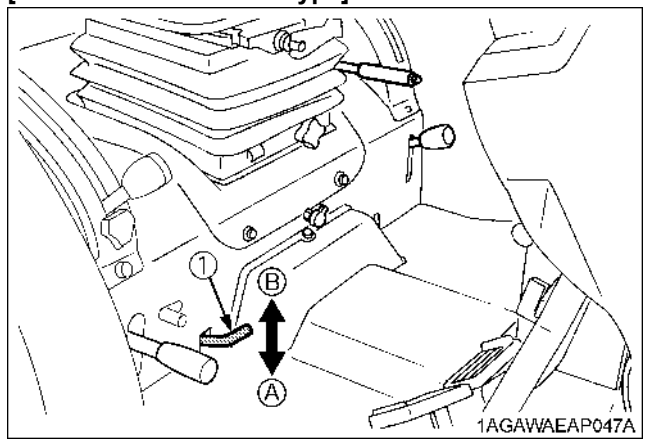
- **Do not operate the tractor at high speed with differential lock engaged.**
- **Do not attempt to turn with the differential lock engaged.**
- **Be sure to release the differential lock before making a turn in field conditions.**

If one of the rear wheels should slip, step on the differential lock pedal. Both wheels will turn together, then reduce slippage.
Differential lock is maintained only while the pedal is depressed.

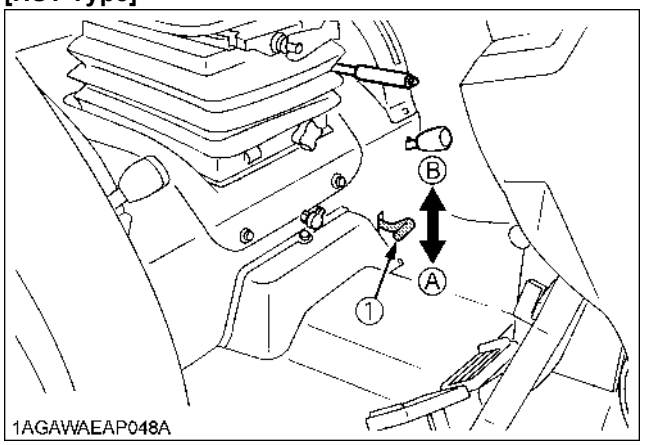
[GST Type]



[Manual Transmission Type]



[HST Type]



(1) Differential lock pedal *(A) Press to "ENGAGE"* *(B) Release to "DISENGAGE"*

IMPORTANT :

- When using the differential lock, 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 the differential lock cannot be released, step lightly on the brake pedals alternately.

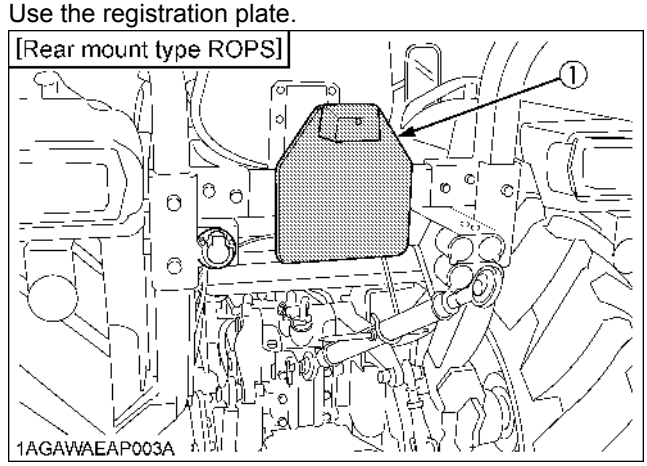
■Operating the Tractor on a Road

CAUTION

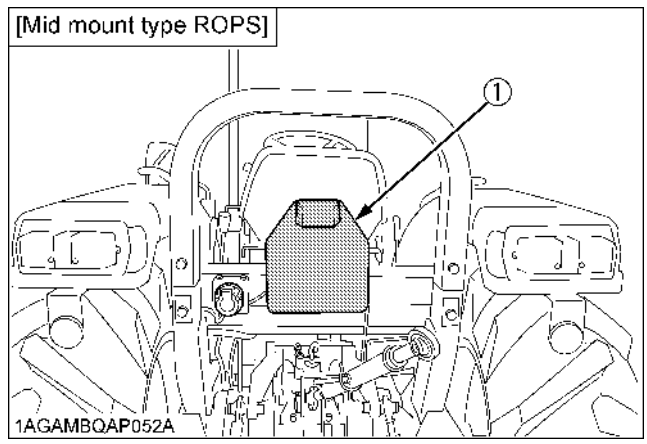
To avoid personal injury:

- **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.**

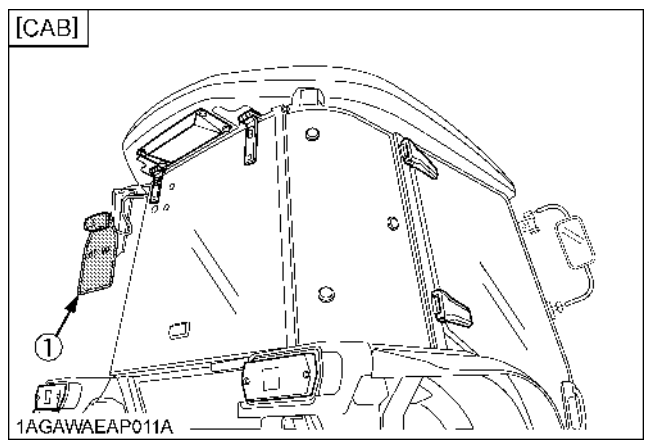
Observe all local traffic and safety regulations.
Use the registration plate.



(1) Registration plate



(1) Registration plate



(1) Number plate

The number plate base is on the right hand for U.K models.

■Operating on Slopes and Rough Terrain

CAUTION

To avoid personal injury:

- **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 the clutch or 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 wet.**

1. Be sure wheel tread is adjusted to provide maximum stability.
   (See "WHEEL ADJUSTMENT" in "TIRES, WHEELS AND BALLAST" section.)
2. Slow down for slopes, rough ground, or sharp turns, especially when transporting heavy, rear mounted equipment.
3. Before descending a slope, shift to a gear low enough to control speed without using brakes.

■Transport the Tractor Safely

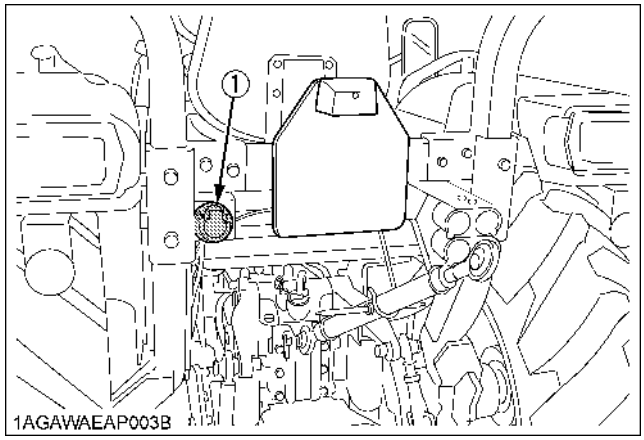
1. The tractor, if damaged, must be carried on a truck. Secure the tractor tightly with ropes.
2. Follow the instruction below when towing the tractor: Otherwise, the tractor's powertrain may get damaged.
   - Set the all shift levers to "NEUTRAL" position.
   - If possible, start engine and select 2WD,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

■Directions for Use of Power Steering

1. Power steering is activated only while the engine is running. Slow engine speeds make the steering a little heavier. While the engine is stopped, the tractor functions in the same manner as tractors without power steering.
2. When the steering wheel is turned all 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.
3. Avoid turning the steering wheel while the tractor is stopped, or tires may wear out sooner.
4. The power steering mechanism makes the steering easier. Be careful when driving on a road at high speeds.

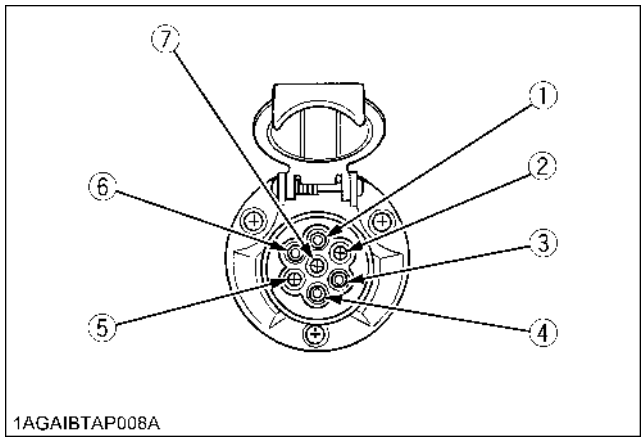
■Trailer Electrical Outlet

A trailer electrical outlet is supplied for use with trailer or implement.



(1) Trailer electrical outlet

◆ **Function of each terminals in trailer electrical outlet**



Terminal	Function
(1)	Turn signal light (LH)
(2)	---
(3)	Ground
(4)	Turn signal light (RH)
(5)	Tail light Sidemarker light Parking light
(6)	Brake stop light
(7)	Registration plate light

ENGLISH

PTO

PTO OPERATION

CAUTION

To avoid personal injury:

- **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 Gear Shift Lever

[if equipped]

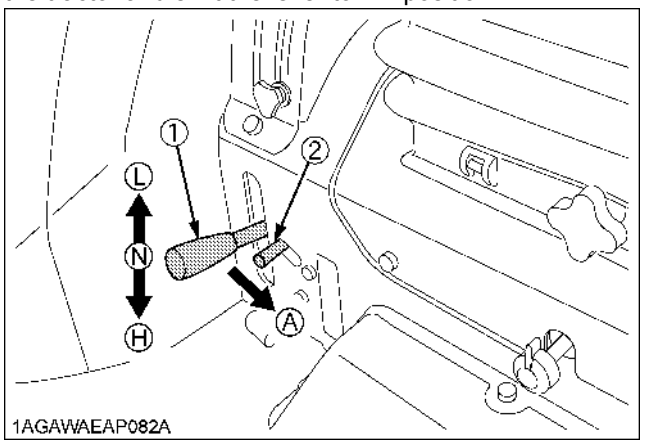
WARNING

To avoid personal injury:

- **Be sure to observe the PTO shaft speed prescribed for the individual implements. It is extremely dangerous to run an implement at high speed that is meant to be operated at low speed. Use only when this higher rpm is specifically recommended by the implement manufacturer.**

The tractor has two speeds 540 & 750 rpm.

To use 750 rpm, release restrictor lever toward inside of the tractor and shift the lever to "H" position.



(1) PTO gear shift lever
(2) Restricting lever
(A) "PULL"
(L) 540 rpm
(N) "NEUTRAL POSITION"
(H) 750 rpm

IMPORTANT :

- Disengage "OFF" the PTO clutch control lever before shifting PTO gear shift lever.

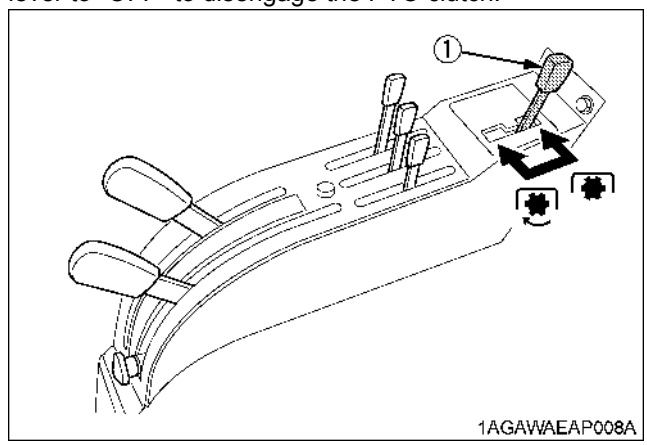
NOTE :

- Release the restricting lever before shifting the PTO gear shift lever 750 rpm speed position. However when shifting to 540 rpm speed position, the restricting lever operation is not required.

■PTO Clutch Control Lever

The PTO clutch control lever engages or disengages the PTO clutch 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 control lever *"ON"* *"OFF"*

IMPORTANT :

- To avoid shock loads to the PTO, reduce engine speed when engaging the PTO, then open the throttle to the recommended speed.
- To avoid damage of PTO clutch and implement, shift the PTO clutch control lever slowly, when engaging the PTO clutch. Do not keep the PTO clutch control lever half way.
  Proper warm up is strongly recommended in cold weather.
  Do not continuously shift the PTO clutch control lever.

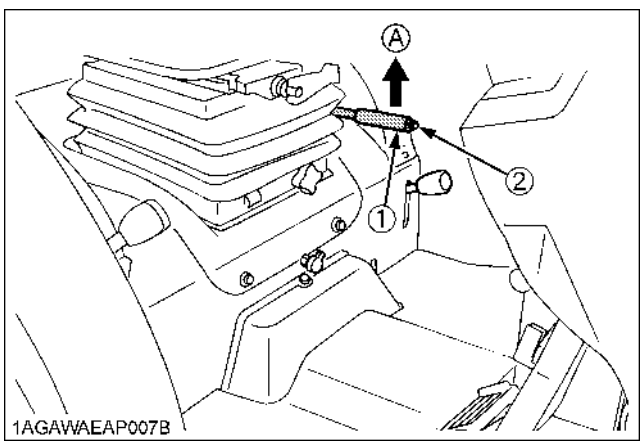
NOTE :

- Tractor engine will not start if the PTO clutch control lever is in the engaged "ON" position.
- When the clutch pedal is depressed, the PTO disengages. [HST Type]
- When the clutch pedal is depressed, the PTO engages. [GST, Manual Transmission Type]

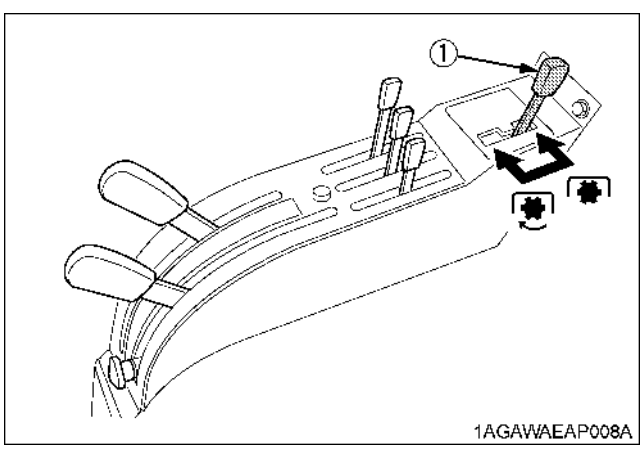
■Stationary PTO

To park the tractor and use the PTO system (for chipper or pump, for example), start the PTO system in the following steps.

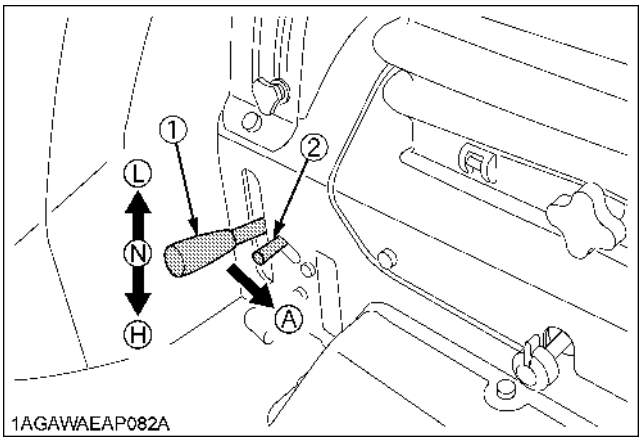
1. Apply the parking brake and place blocks at the tires.
2. Make sure that the speed control pedal and all shift levers are at "NEUTRAL", and start the engine.
3. Set the PTO gear shift lever to either "540 rpm" or "750 rpm" position, and set the PTO clutch control lever to "ON" position.
4. Set the engine speed to provide recommended PTO speed.
5. Get off the tractor.



(1) Parking brake lever
(2) Release button
(A) "PULL"



(1) PTO clutch control lever
"ON" *"OFF"*



(1) PTO gear shift lever
(2) Restricting lever
(A) "PULL"
(L) 540 rpm
(N) "NEUTRAL POSITION"
(H) 750 rpm

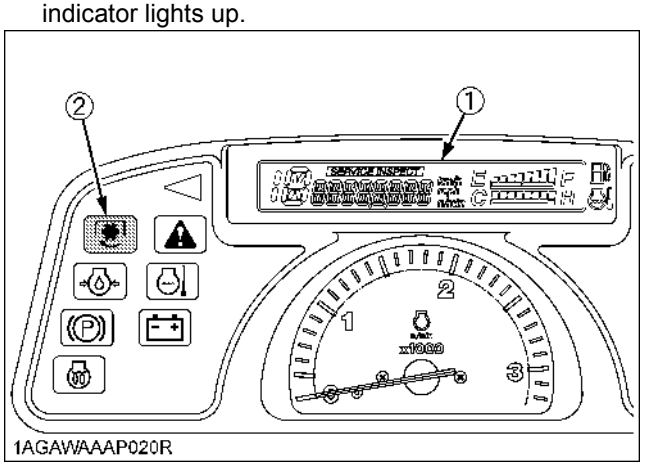
NOTE :

- If the PTO system is engaged and the parking brake is released, the engine stops automatically.

ENGLISH

■IntelliPanel (TM) Message

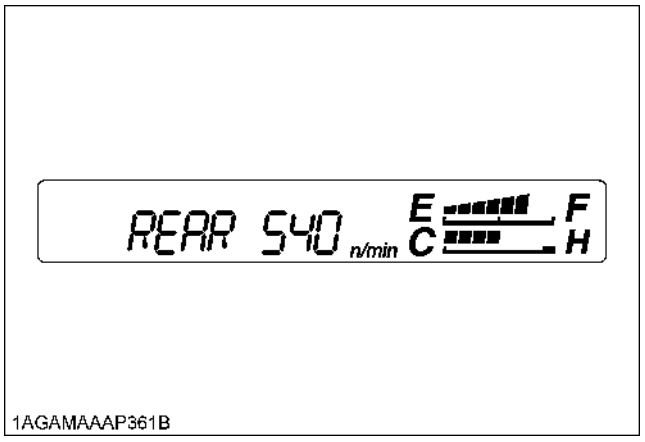
1. The PTO rpm can be checked in the display. (See "INTELLIPANEL (TM)" in "OPERATING THE TRACTOR" section.)
2. When the PTO system gets engaged (ON), the indicator lights up.



(1) Display
(2) Rear PTO indicator

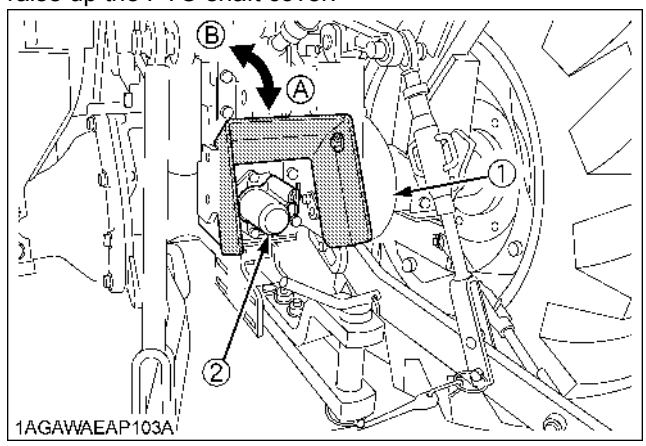
NOTE :

- Rear PTO "ON"



■PTO Shaft Cover and Shaft Cap

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

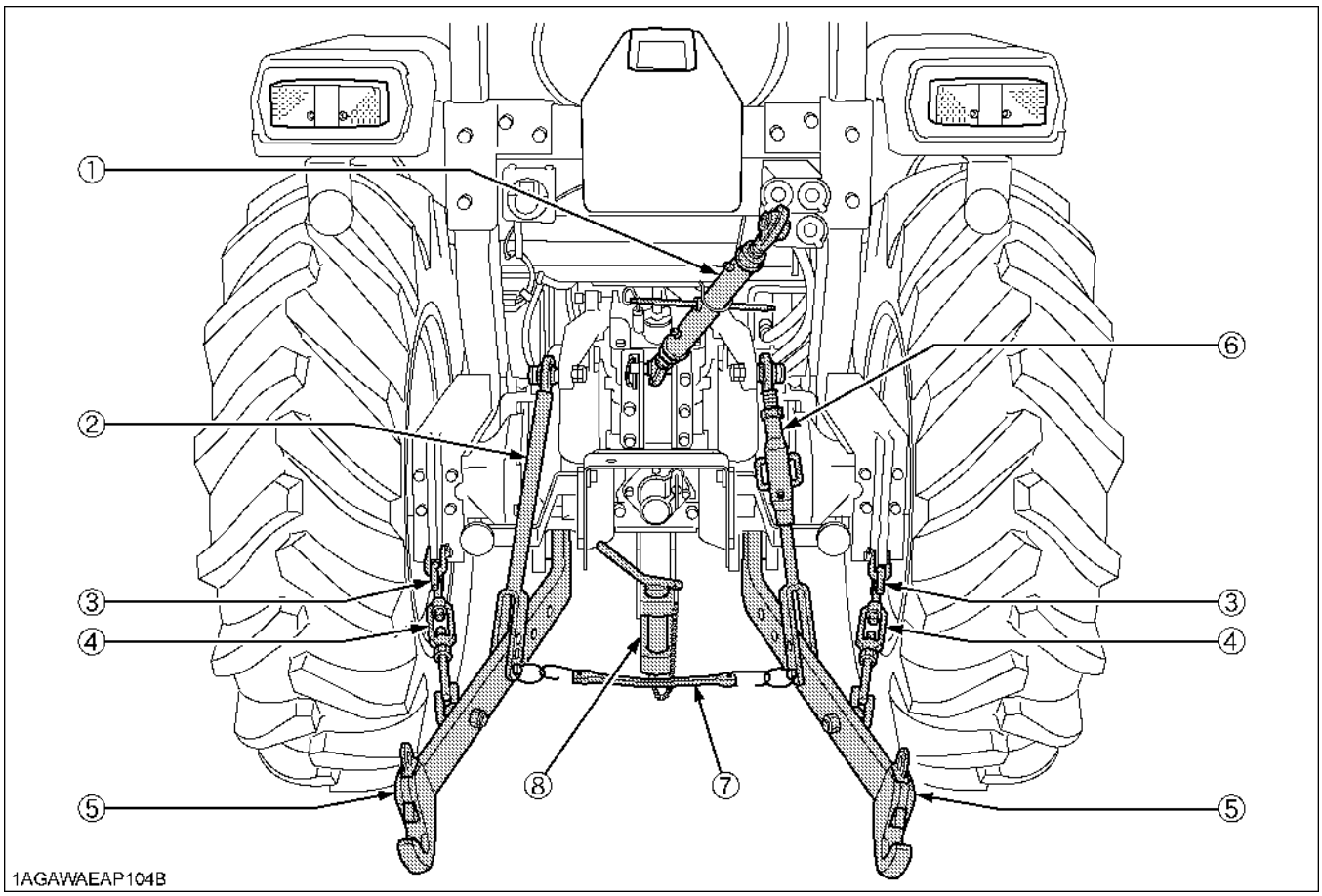


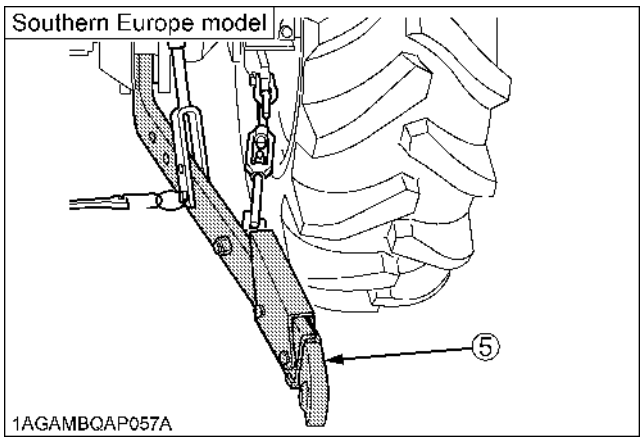
(1) PTO shaft cover
(2) PTO shaft cap
(A) "NORMAL POSITION"
(B) "RAISED POSITION"

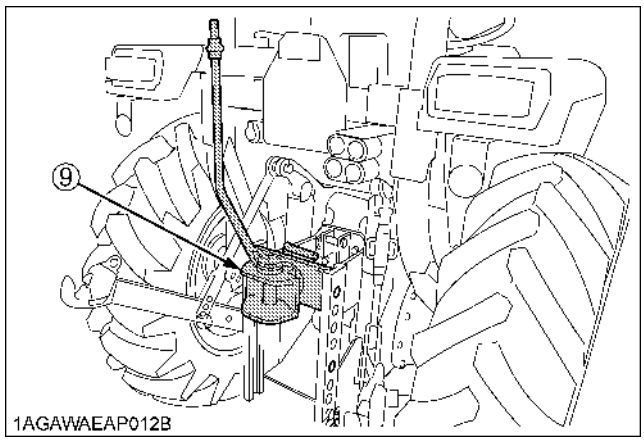
IMPORTANT :

- The universal joint of the PTO drive shaft is technically limited in its moving angle. Refer to the PTO Drive Shaft Instructions for proper use.

THREE-POINT HITCH & DRAWBAR







(1) Top link
(2) Lifting rod (Left)
(3) Check chains
(4) Turn buckle
(5) Lower link
(6) Lifting rod (Right)
(7) Lower link holder
(8) Drawbar
(9) High-hitch

ENGLISH

3-POINT HITCH

1. Make preparations for attaching implement.

■Category 1 & 2

[Southern Europe model with L5040 telescopic lower links]

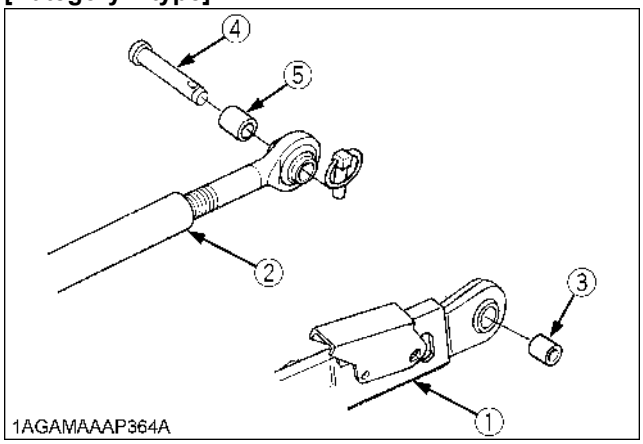
The standard tractor has both category 1 & 2.

Category 1 type is standard and assemble all parts shown as below.

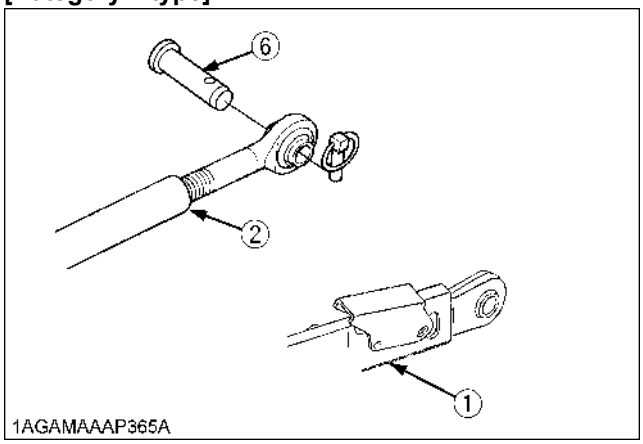
To change from category 1 to category 2.

1. Remove adjusting collar from the lower link.
2. Remove adjusting collar from the rear top link pin.
3. Use the correct rear top link pin for category 2.

[Category 1 type]



[Category 2 type]

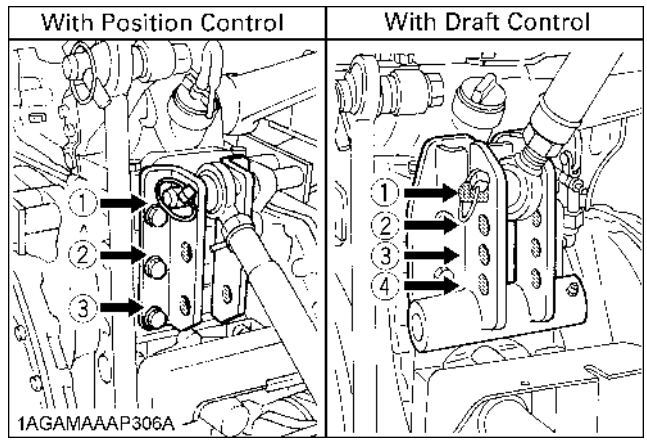


(1) Lower link
(2) Top link
(3) Collar, lower link (1)
(4) Top link rear pin (1)
(5) Collar, top link (1)
(6) Top link rear pin (2)

■Selecting the top link mounting holes

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

If the hydraulic unit is set for draft control, draft response is more sensitive when an implement is connected to the upper set of top link mounting holes. If draft control is not required, it is recommended to use the low set (4).



■Drawbar

Remove the drawbar if a close mounted implement is attached.

2. Attaching and detaching implements

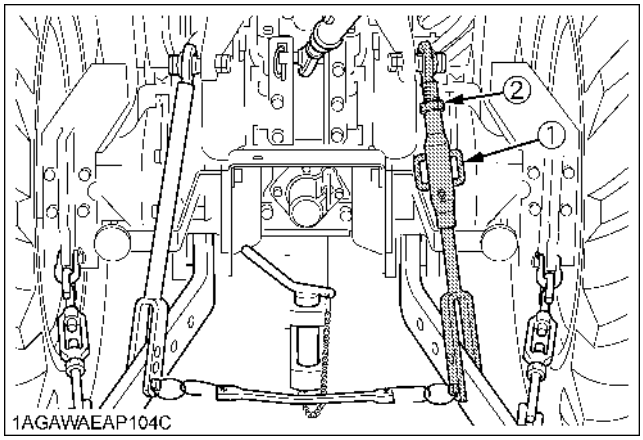
CAUTION

To avoid personal injury:

- **Be sure to stop the engine.**
- **Do not stand between tractor and implement unless parking brake is applied.**
- **Before attaching or detaching implement, locate the tractor and implement on a firm 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 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 lock nut securely.



(1) Adjusting handle
(2) Lock nut

■Top Link

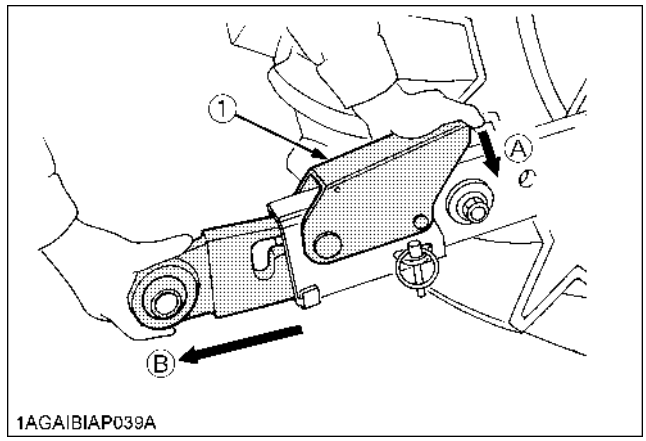
1. Adjust the angle of the implement to the desired position by shortening or lengthening the top link.
2. The proper length of the top link varies according to the type of implement being used.

■Telescopic Lower Links

[Southern Europe model]

To attach an implement, follow the instructions below:

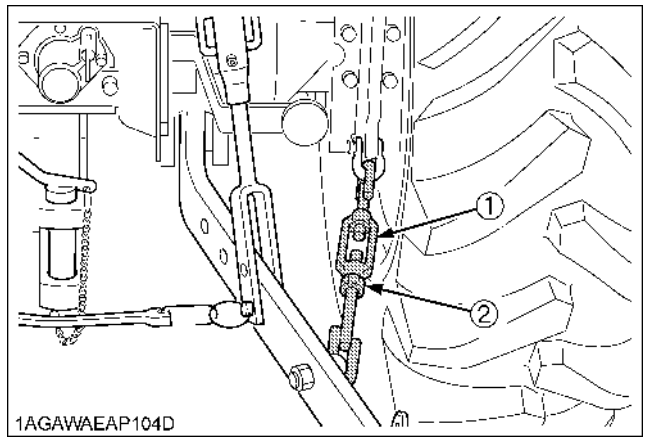
1. Push the levers, pull out the lower link ends, and attach to the implement.
2. Back up the tractor slightly to make sure the lower links are pushed in securely.



(1) Lever
(A) "PUSH"
(B) "PULL OUT"

■Check Chains

Adjust the turnbuckle to control horizontal sway of the implement.
After adjustment, retighten the lock nut.



(1) Turnbuckle
(2) Lock nut

■Quick Hitch (Hook type)

CAUTION

To avoid personal injury:

Confirm the under mentioned matter when installing the implement:

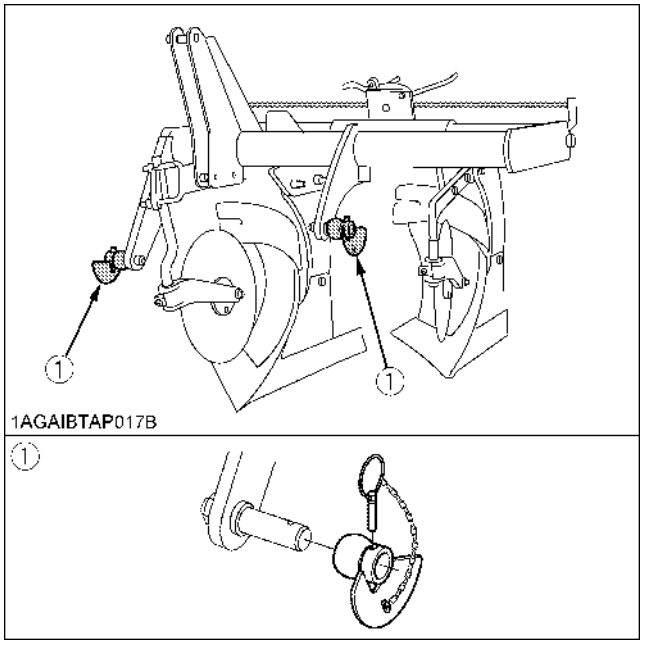
- **Make sure the hook of a quick coupler is surely locked.**

The 3-point hitch with quick-hitch, all of which have claw ends that permit rapid attaching and detaching of implements.

◆ Installing Ball-joint to Implement

Before the implement is installed on the 3-point hitch with quick couplers, it is necessary to install the ball-joints to the implement according to the following instructions.

1. The ball-joints with guide cones should be installed on the lower hitch pins with the cones in the lowest position.

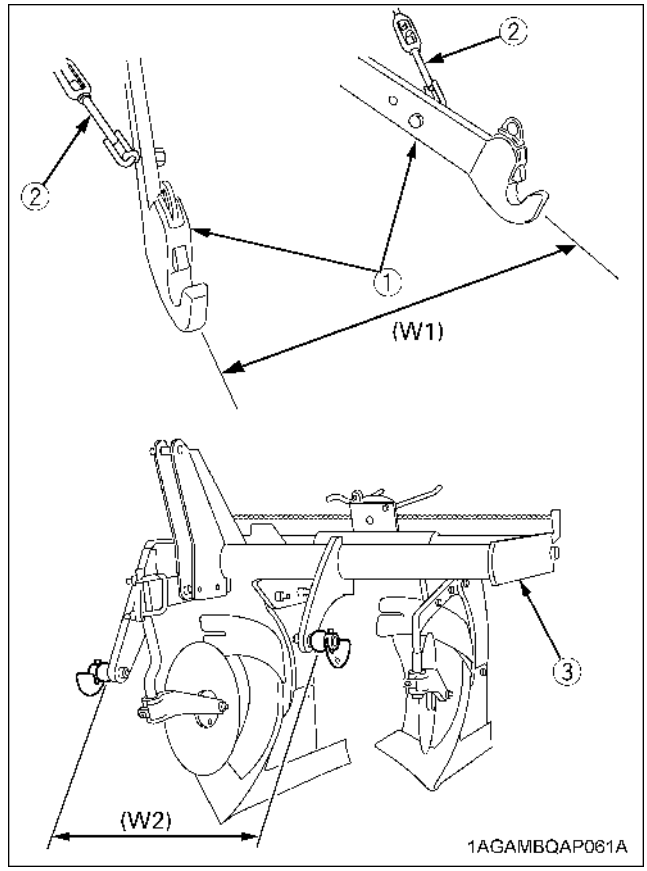


(1) Ball-joint with guide cone

◆ Adjusting Lower Link Width

Set the width (W1) of lower links to be the same as width (W2) of the implement.

(See "Check Chains" in this section to adjust the width (W1) of lower links.



(1) Lower link
(2) Check chain
(3) Implement

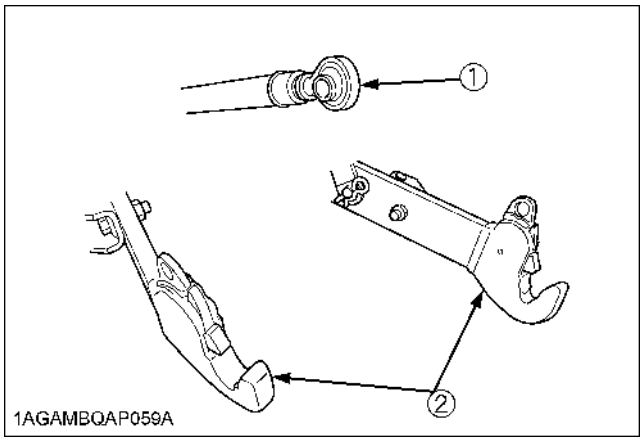
◆ **Attaching implement to Tractor**

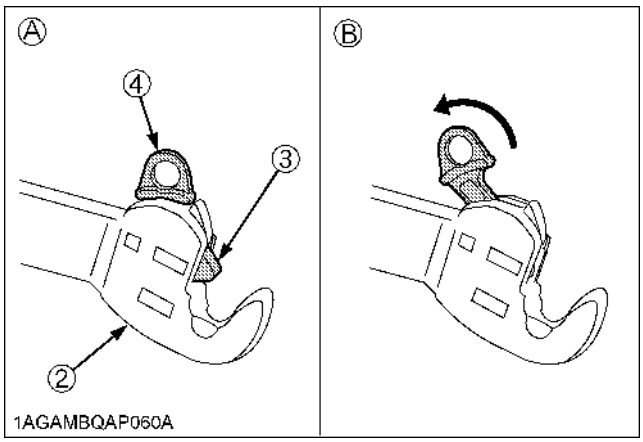
1. Set the release lever on the hooks to "LOCK" position, if its lever is in "UNLOCK" position.
   (Self-locking latches are closed)
2. With the lower links fully lowered, reverse the tractor until the lower link hooks are beneath the implement ball-joints.
3. Raise the lower links using the hydraulic control lever until the hook couplers engage the ball-joints.

NOTE :

- An audible click will be heard as the self-locking latches engage the implement ball-joint.

4. Connect the top link to the implement. If necessary, adjust the top link length.





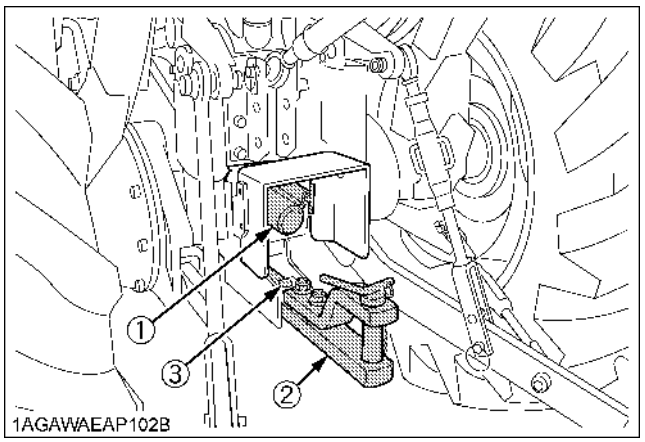
(1) Top link
(2) Lower link
(3) Latch
(4) Release lever
(A) "LOCK" position
(B) "UNLOCK" position

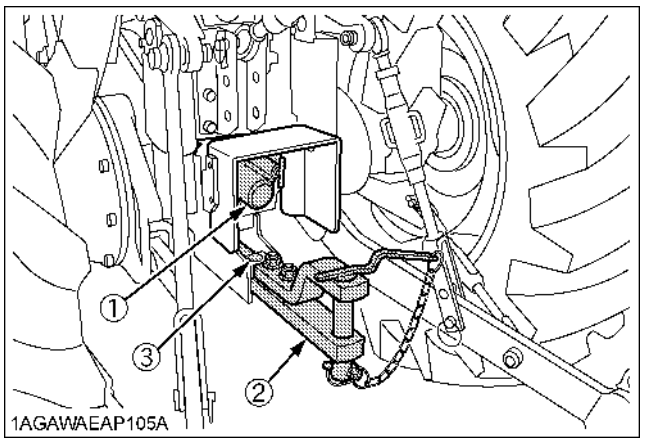
◆ **Detaching Implement from Tractor**

1. Fully lower the implement to the ground.
   Support the implement with parking stand. (if equipped) If necessary, adjust the top link and or lifting rod length so that the implement may stabilize on the ground.
2. Detach the top link from implement.
   Hook the top link in the top link support.
3. Pull the release levers on both lower links to release the hooks from implement ball-joints.
   The latches will disengage and allow the lower links to lower and detaching the implement.

DRAWBAR
[if equipped]

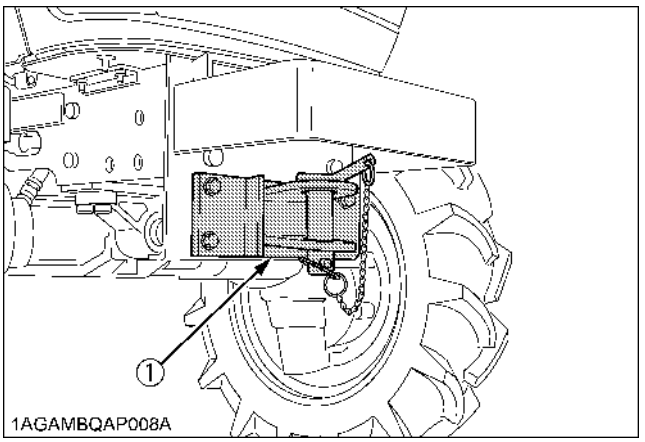
WARNING
To avoid personal injury:
- **Never pull from the top link, the rear axle or any point above the drawbar. Doing so could cause the tractor to tip over rearward causing personal injury or death.**





(1) PTO shaft
(2) Drawbar
(3) Drawbar pin

FRONT HITCH
[if equipped]



(1) Front hitch

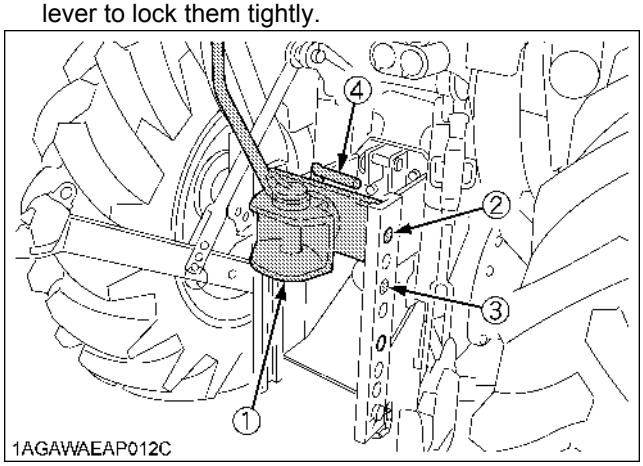
HIGH-HITCH
[if equipped]

WARNING
To avoid personal injury:
- **Never pull from the top link, the rear axle or any point above the hitch. Doing so could cause the tractor to tip over rearward causing personal injury or death.**

■High-Hitch
The high-hitch can be adjusted for 3 steps depending on an attachment to pull behind. The high hitch may get in the way when connecting the universal joint. In such case, either set the high hitch to its uppermost position or remove it.

◆ **Adjusting the high-hitch level**

1. Tilt up the lock lever to unlock them. Move the lever up and down to change the hitch height.
2. Align the lock pin with the lock hole. Tilt down the lock lever to lock them tightly.



(1) High-hitch
(2) Lock pin
(3) Lock hole
(4) Lock lever

NOTE :

- The drawbar was tested and approved in accordance with the EEC Directive 89/173 Annex 4 dynamic method.

[Drawbar]

EEC Approved No.	D e4 0113
Value of D	24.0 kN
Vertical Load, S	588 daN

[High-hitch]

EEC Approved No.	D e4 0104
Value of D	24.2 kN
Vertical Load, S	600 daN

HYDRAULIC UNIT

The tractor has 5 hydraulic control systems as shown below. Therefore, use the most appropriate system for the implement you are using.

◆ **3-Point Hitch Control System**
1. Position Control
2. Draft Control (if equipped)
3. Mixed Control (if equipped)
4. Float Control

◆ **Remote Hydraulic Control System**

IMPORTANT :
- Do not operate until the engine is warmed up. If operation is attempted when the engine is still cold, the hydraulic system may be damaged.
- If noises are heard when implement is lifting after the hydraulic control lever has been activated, the hydraulic mechanism is not adjusted properly. Unless corrected, the unit will be damaged. Contact your KUBOTA Dealer for adjustment.

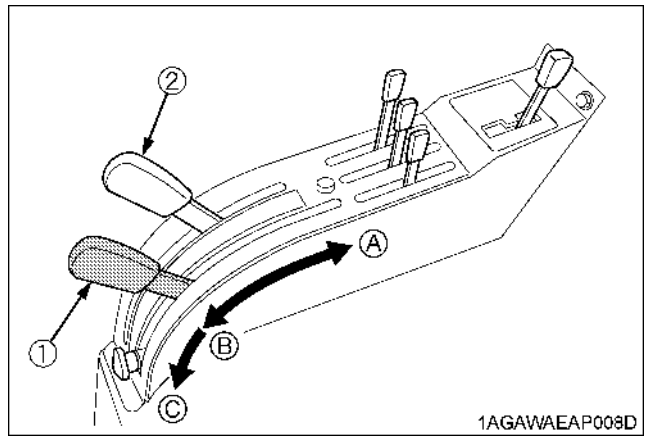
3-POINT HITCH CONTROL SYSTEM

⚠ CAUTION

To avoid personal injury:
- **Before using the 3-point hitch controls, ensure that no person or object is in the area of the implement or 3-point hitch. Do not stand on or near the implement or between the implement and tractor when operating the 3-point hitch controls.**

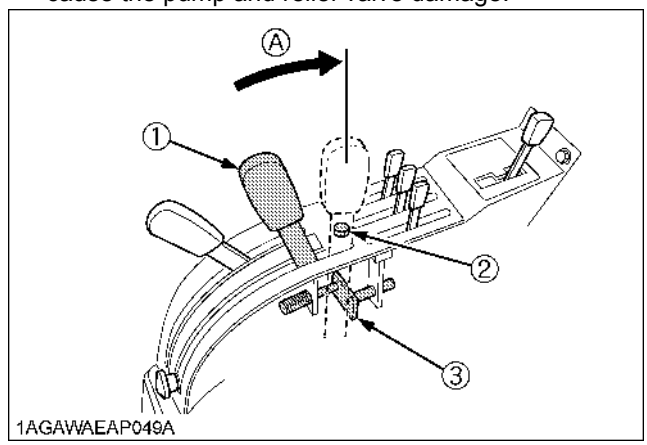
■Position Control

This will control the working depth of 3-point implements regardless of the amount of pull required.
Place the draft control lever in the lowest position and set the implement working depth with the position control lever.



(1) Position control lever
(2) Draft control lever [if equipped]
(A) "UP"
(B) "DOWN"
(C) "FLOAT"

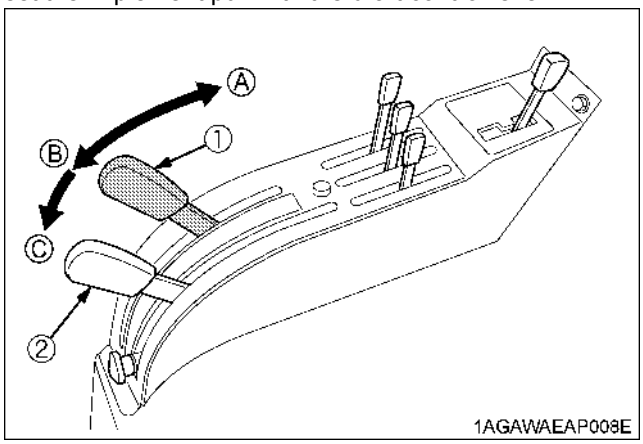
IMPORTANT :
- Do not hold the position lever at the raised position, or the relief valve continues to work and that will possibly cause the pump and relief valve damage.



(1) Position lever
(2) Bolt
(3) Spring holder
(A) In case of taking the oil out of the hydraulic cylinder head

■Draft Control (if equipped)

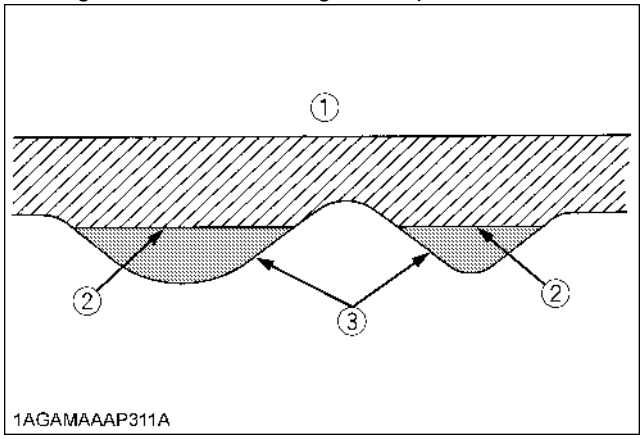
This will control the pull of the 3-point implement. As the load on the 3-point hitch changes due to various soil conditions, the draft control system automatically responds to these changes by either raising or lowering the implement slightly to maintain a constant pull.
Place the position control lever in the lowest position and set the implement pull with the draft control lever.



(1) Draft control lever
(2) Position control lever
(A) "SENSITIVE"
(B) "INSENSITIVE"
(C) "FLOAT"

■Mixed Control

In draft control, when draft decreases, the implement automatically lowers to increase draft. However, the implement sometimes lowers too much. To limit the degree, the implement can be lowered, set the position control lever at the lowest working depth desired for the implement. Lower the draft control lever to the point where the implement is at the desired depth.
This stops the implement from going too deep and causing loss of traction and ground speed.



(1) Ground surface
(2) Implement penetrate limit
(3) Light soil

■Float Control

Place both the draft control lever and the position control lever in the float position to make the lower links move freely along with the ground conditions.

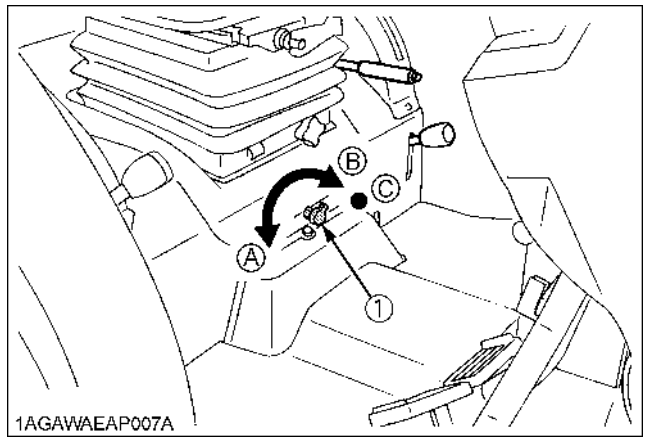
■3-point Hitch Lowering Speed

⚠ CAUTION

To avoid personal injury:

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

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



(1) 3-point hitch lowering speed knob
(A) "FAST"
(B) "SLOW"
(C) "LOCK"

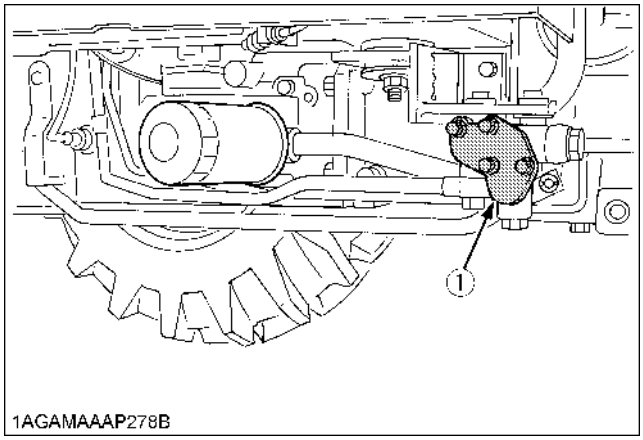
AUXILIARY HYDRAULICS

■Hydraulic Block Type Outlet

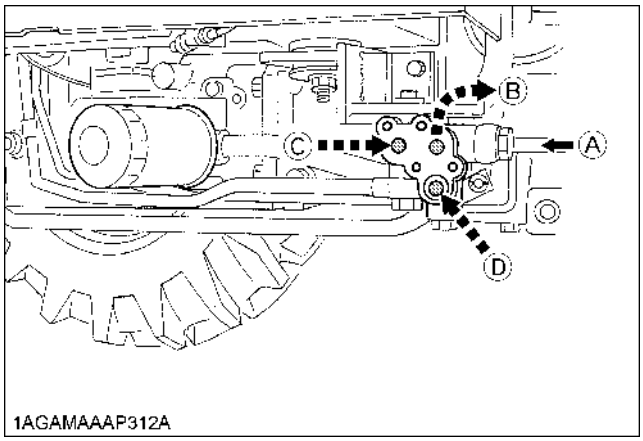
Hydraulic block type outlet is useful when adding hydraulically operated implement such as: front end loader, front blade, etc.

When implement is attached

1. Remove the block cover.
2. Route the implement inlet, outlet, and return hoses as shown in the illustration.



1AGAMAAAP278B



1AGAMAAAP312A

(1) Block cover

(A) From gear pump
(B) To implement
Max flow
31.5 L/min [L3540]
35.6 L/min [L5040, L5240]
37.0 L/min [L4240, L5740]
Max pressure
17.7 MPa (180 kgf/cm²)
(C) From implement (Outlet)
(D) From implement (Tank port)

REMOTE HYDRAULIC CONTROL SYSTEM (if equipped)

The hydraulic auxiliary control valves can be installed up to triple segments.

■Remote Control Valve

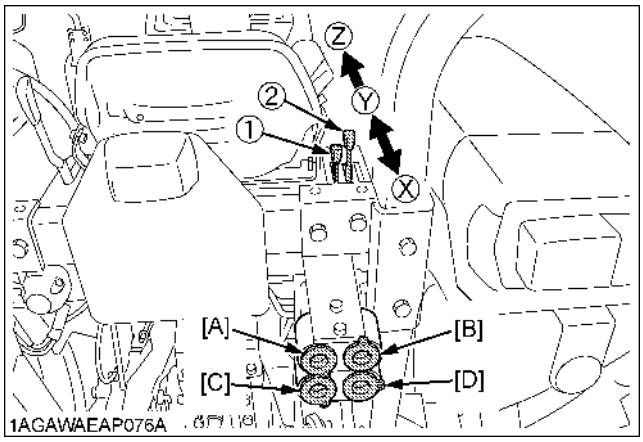
There are three types of remote valves available for these models.

- Double acting valve:
- Double acting valve with float position:
  This valve may be placed in the float mode with the control lever all the way forward. The cylinder is free to extend or retract, letting an implement such as a loader bucket follow the ground.
- Single acting valve:

■Remote Control Valve Lever

The remote control valve lever directs pressurized oil flow to the implement hydraulic system.

[EU model]



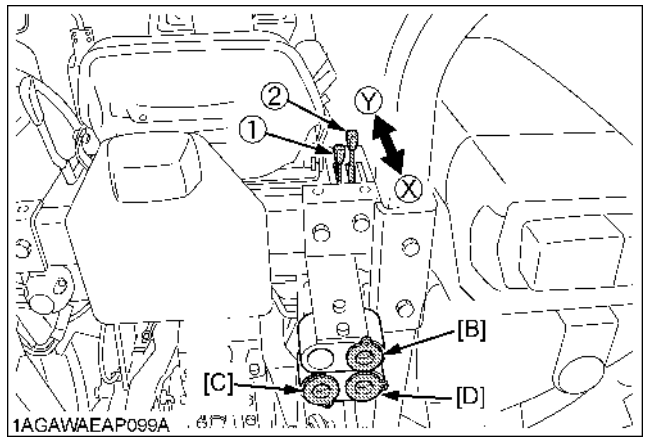
(1) Remote control valve lever with Double acting valve
(2) Remote control valve lever with Double acting valve / Float position
(X) "REARWARD"
(Y) "FORWARD"
(Z) "FULL FORWARD"

Pressure →
Returning ←

Lever (1)		---		Forward		Rearward	
Port	[A]	---		In	←	Out	→
	[B]	---		Out	→	In	←
Lever (2)		Full Forward		Forward		Rearward	
Port	[C]	In	Float	In	←	Out	→
	[D]	Out		Out	→	In	←

	Coupler size
Port [A] [B] [C] [D]	PT 1/2

[UK model]



(1) Remote control valve lever with Single acting valve
(2) Remote control valve lever with Double acting valve
(X) "REARWARD"
(Y) "FORWARD"

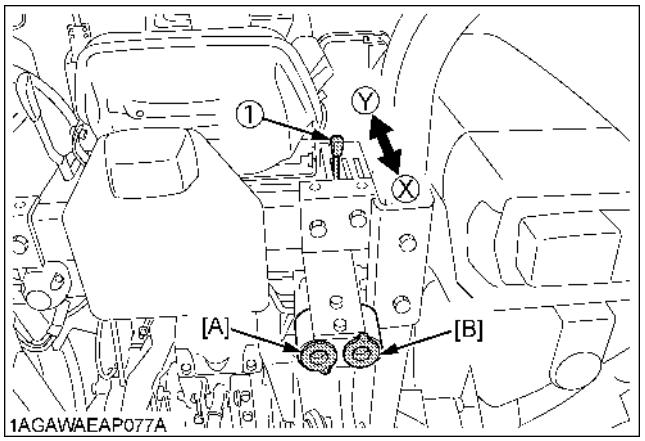
Pressure →
Returning ←

Lever (1)		Forward		Rearward	
Port	[B]	Out	→	In	←
Lever (2)		Forward		Rearward	
Port	[C]	In	←	Out	→
	[D]	Out	→	In	←

	Coupler size
Port [A] [C] [D]	PT 1/2

ENGLISH

[SEU model]



(1) Remote control valve lever with Double acting valve
(X) "REARWARD"
(Y) "FORWARD"

Pressure ⟶
Returning ⟵

Lever (1)		Forward		Rearward	
Port	[A]	In	⟵	Out	⟶
	[B]	Out	⟶	In	⟵

	Coupler size
Port [A] [B]	PT 1/2

IMPORTANT :
- Do not hold the lever in the "REARWARD" or "FORWARD" position once the remote cylinder has reached the end of the stroke, as this will cause oil to flow through the relief valve. Forcing oil through the relief valve for extended periods will overheat the oil.
- When using the tractor hydraulic system to power front loader, do not operate boom and bucket cylinders simultaneously.

NOTE :
- To use the single-acting cylinder with the float valve, connect this cylinder to the [C] port.
  To extend a single-acting cylinder, pull the remote control valve lever rearward. To retract a cylinder, push it fully forward to the "FLOAT" position. Do not hold it in the down position, the transmission fluid may be overheat.

■Remote Control Valve Coupler Connecting and Disconnecting

CAUTION

To avoid personal injury:
- **Stop the engine and relieve pressure before connecting or disconnecting lines.**
- **Do not use your hand to check for leaks.**

◆ Connecting

1. Clean both couplers.
2. Remove dust plugs.
3. Insert the implement coupler to the tractor hydraulic coupler.
4. Pull the implement coupler slightly to make sure couplers are firmly connected.

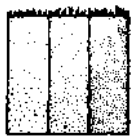
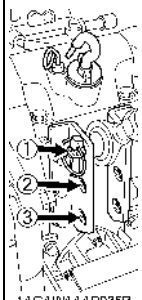
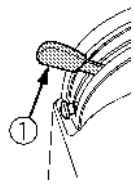
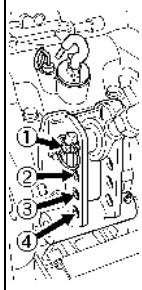
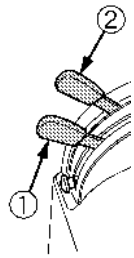
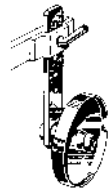
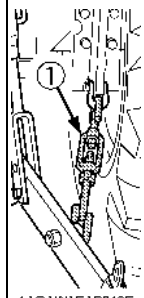
◆ Disconnecting

1. Lower the implement first to the ground to release hydraulic pressure in the hoses.
2. Clean the couplers.
3. Relieve pressure by moving hydraulic control levers with engine shut off. Pull the hose straight from the hydraulic coupler to release it.
4. Clean oil and dust from the coupler, then replace the dust plugs.

NOTE :
- Your local KUBOTA Dealer can supply parts to adapt couplers to hydraulic hoses.

■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		with Position control		with Draft control				Remarks
	 1AGAMAAAP314A Soil condition	 1AGAWAAAP035B Top link mounting holes	 1AGAWAEAP008F (1) Position control lever	 1AGAWAAAP035C Top link mounting holes	 1AGAWAEAP008G (1) Position control lever (2) Draft control lever	 1AGAMAAAP316A Gauge wheel	 1AGAWAEAP046E (1) Check chains	
Moldboard plow	Light soil Medium soil Heavy soil	1 or 2 2 or 3 3	Position control	1 or 2 2 or 3 3	Draft and Mixed control	YES/NO	Loose	Adjust the check chains so that the implement can move 5 to 6 cm laterally. Check chains should be tight enough to prevent excessive implement movement when implement is in raised position.
Disc plow	---	2 or 3		2 or 3	Place the draft control lever to the suitable position and set the implement pull with the position control lever			
Harrow (spike, springtooth, disc type)	---	2 or 3		2 or 3				
Sub-soiler ...								
Weeder, ridger...	---	3		4	Position control Hold the draft control lever at the most front position during operation.	YES	Tighten	
Earthmover, digger, scraper, manure fork, rear carrier.....						YES/NO		With implements with gauge wheels, lower the position control lever all the way.
Mower (mid- and rear-mount type)						NO		

TIRES, WHEELS AND BALLAST

TIRES

WARNING

To avoid personal injury:

- **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 :

- Do not use tires other than those approved by KUBOTA.
- When you intend to mount different size of tires from equipped ones, consult your dealer about front drive gear ratio for details.
  Excessive wear of tires may occur due to improper gear ratio.

■Inflation Pressure

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

	Tire sizes	Inflation Pressure
Rear	11.2 - 24, 4PR	120 kPa (1.2 kgf/cm²)
	12.4 - 24, 4PR	100 kPa (1.0 kgf/cm²)
	13.6 - 24, 4PR	100 kPa (1.0 kgf/cm²)
	13.6 - 26, 4PR	100 kPa (1.0 kgf/cm²)
	13.6 - 28, 6PR	140 kPa (1.4 kgf/cm²)
	355/80 - D20, 4PR	100 kPa (1.0 kgf/cm²)
	475/65 - D20, 4PR	80 kPa (0.8 kgf/cm²)
	360/70R24	80 kPa (0.8 kgf/cm²)
	440/65R24	80 kPa (0.8 kgf/cm²)
Front	7 - 16, 4PR	180 kPa (1.8 kgf/cm²)
	8 - 16, 4PR	160 kPa (1.6 kgf/cm²)
	9.5 - 16, 4PR	220 kPa (2.2 kgf/cm²)
	212/80 -D15, 4PR	160 kPa (1.6 kgf/cm²)
	29 x 12.00 - 15, 4PR	140 kPa (1.4 kgf/cm²)
	260/70R16	160 kPa (1.6 kgf/cm²)
	280/70R16	160 kPa (1.6 kgf/cm²)

NOTE :

- Maintain the maximum pressure in front tires, if using a front loader or when equipped with a full load of front weights.

■Dual Tires

Dual tires are not approved.

WHEEL ADJUSTMENT

CAUTION

To avoid personal injury:

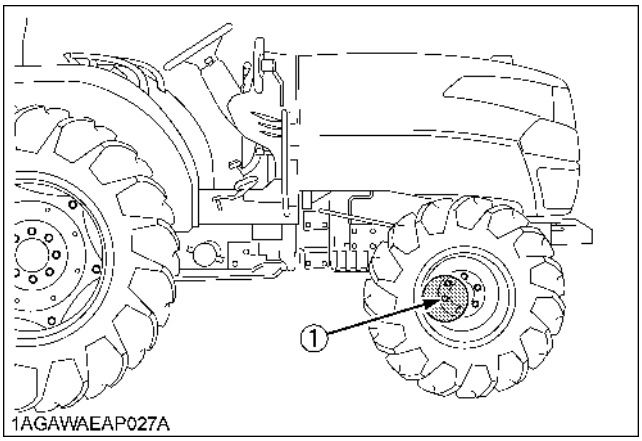
- **When working on slopes or when working with trailer, set the wheel tread as wide as practical for maximum stability.**
- **Support tractor securely on stands before removing a wheel.**
- **Do not work under any hydraulically supported devices. They can settle, suddenly leak down, or be accidentally 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 axle.**

■Front Wheels (with four wheel drive)

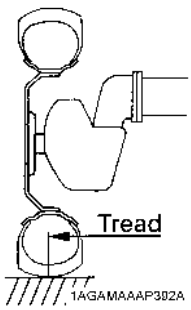
Front tread can not be adjusted.

IMPORTANT :

- Do not turn front discs to obtain wider tread.
- 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 movement by 5 m (5 yards), and thereafter according to service interval.
  (See "MAINTENANCE" section.)



(1) [L3540, L4240] 137 N-m (14 kgf-m)
[L5040, L5240, L5740] 185 N-m (19 kgf-m)

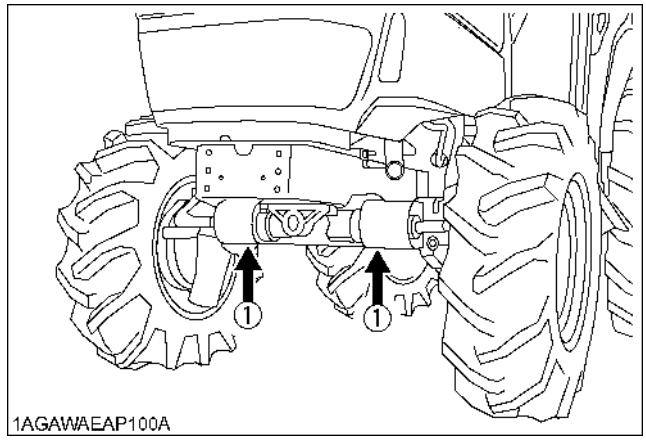


Models							
	L3540						
Tires	---	---	7 - 16 Farm	---	212/80 - D15 Turf	260/70R16 Turf	---
Tread	---	---	1150 mm	---	1180 mm	1200 mm	---
Models	**L4240**						
Tires	---	8 - 16 Farm	7 - 16 Farm	---	212/80 - D15 Turf	260/70R16 Turf	29 x 12.00 - 15 Turf
Tread	---	1145 mm	1150 mm	---	1180 mm	1200 mm	1270 mm
Models	**L5040, L5240, L5740**						
Tires	9.5 - 16 Farm	---	---	280/70R16 Turf	---	---	29 x 12.00 - 15 Turf
Tread	1135 mm	---	---	1150 mm	---	---	1210 mm

⚠ CAUTION

To avoid personal injury:

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



(1) Jack points

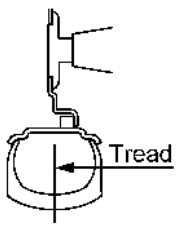
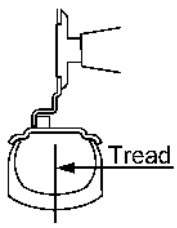
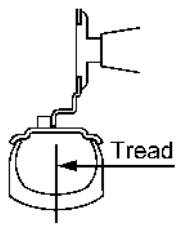
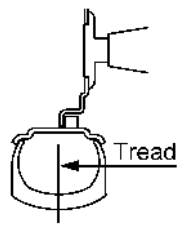
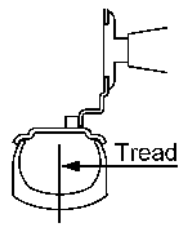
ENGLISH

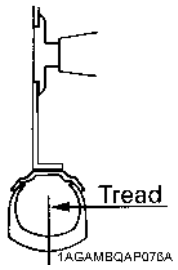
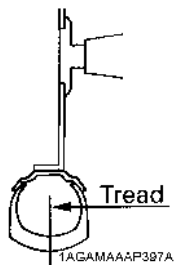
■Rear Wheels

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

To change the tread width

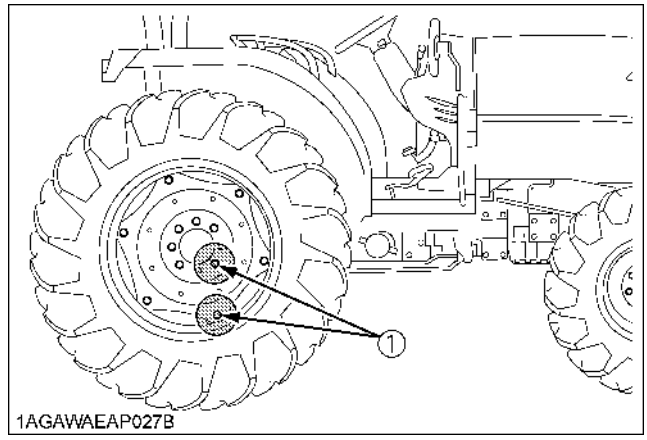
1. Remove the wheel rim and / or disk mounting bolts.
2. Change the position of the rim and / or disk (right and left) to the desired position, and tighten the bolts.

Models		 1AGAWAEAP098A	 1AGAWAEAP094A	 1AGAWAEAP095A	 1AGAWAEAP096A	 1AGAWAEAP097A
L3540	11.2 - 24 Farm	1110 mm	1205 mm	1300 mm	1385 mm	---
	12.4 - 24 Farm	1110 mm	1205 mm	1300 mm	1385 mm	---
	360/70R24 Farm	---	1205 mm	---	1420 mm	1515 mm
L4240	12.4 - 24 Farm	1130 mm	1220 mm	1320 mm	1400 mm	---
	13.6 - 24 Farm	1140 mm	1210 mm	1310 mm	1410 mm	---
	13.6 - 26 Farm	1140 mm	1210 mm	1310 mm	1335 mm	---
	440/65R24 Farm	---	---	1285 mm	---	---
L5040 L5240 L5740	13.6 - 28 Farm	1125 mm	1225 mm	1325 mm	---	
	440/65R24 Farm	---	1180 mm	1285 mm	---	---

Models	 1AGAMBQAP076A	 1AGAMAAAP397A
L3540 355/80-D20 Turf	1125 mm	1190 mm
L4240 355/80-D20 Turf	1140 mm	1210 mm
L4240, L5040, L5240, L5740 475/65 - D20 Turf	---	1285 mm

IMPORTANT :

- Always attach wheels as shown in the drawings.
- If not attached as illustrated, transmission parts may be damaged.
- 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 movement by 5 m (5 yards), and thereafter according to service interval.
  (See "MAINTENANCE" section.)

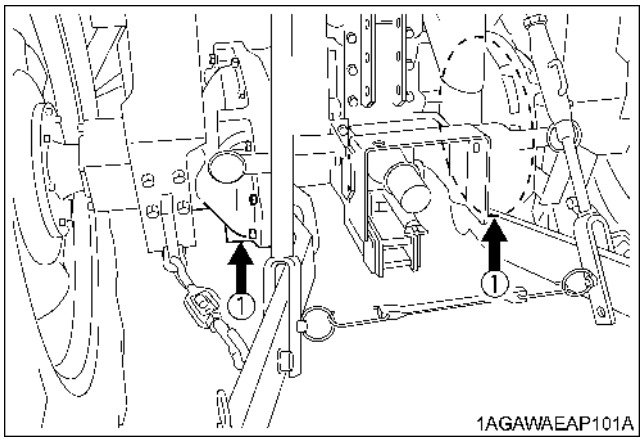


(1) 215 N-m (22 kgf-m)

CAUTION

To avoid personal injury:

- **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 a jack that withstands the machine weight and set it up as shown below.**



(1) Jack point

BALLAST

CAUTION

To avoid personal injury:

- **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 to maintain steering control.**

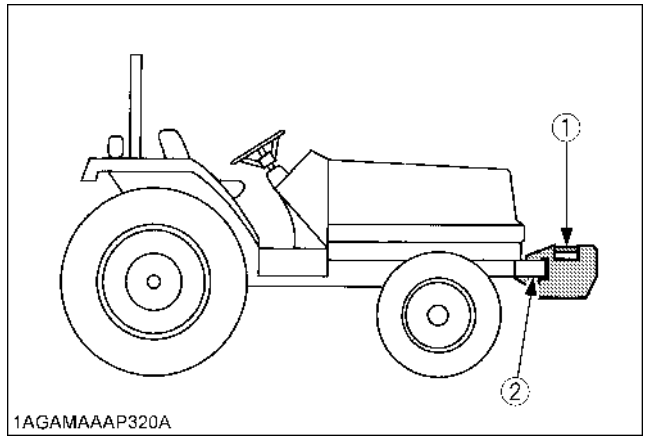
■Front Ballast

Add weights if needed for stability and improve traction. Heavy pulling and heavy rear mounted implements tend to lift front wheels.

Add enough ballast to maintain steering 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 Dealer to use.



(1) Front end weights
(2) Bumper

IMPORTANT :

- Do not overload tires.
- Add no more weight than indicated in chart.

Maximum weight	25 kg x 5 Pieces

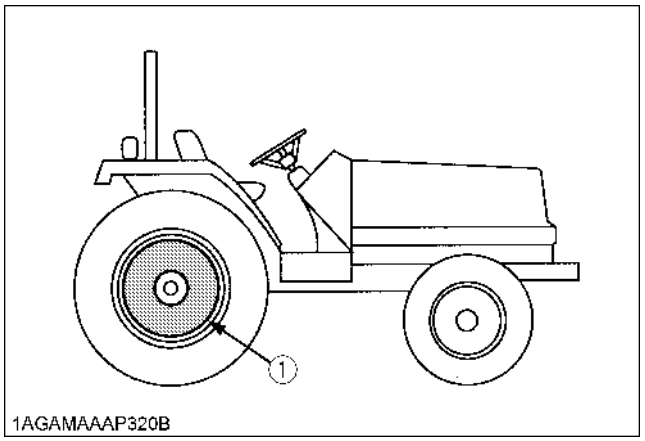
■Rear Ballast

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

The weight should be added to the tractor in the form of liquid ballast, rear wheel weights or a combination of both.

◆ Rear Wheel Weights (option)

The rear wheel weights can be attached to the rear wheel. See your implement operator's manual for required number of weights or consult your local KUBOTA Dealer to use.



(1) Rear wheel weights

IMPORTANT :

- Do not overload tires.
- Add no more weight than indicated in chart.

Model	Maximum weight per wheel
L3540, L4240	28 kg x 3 Pieces
L5040, L5240, L5740	47kg x 3 Pieces

■Liquid Ballast in Rear Tires

Water and calcium chloride solution provides safe economical ballast. Used properly, it will not damage tires, tubes or rims. 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 dealer for this service.

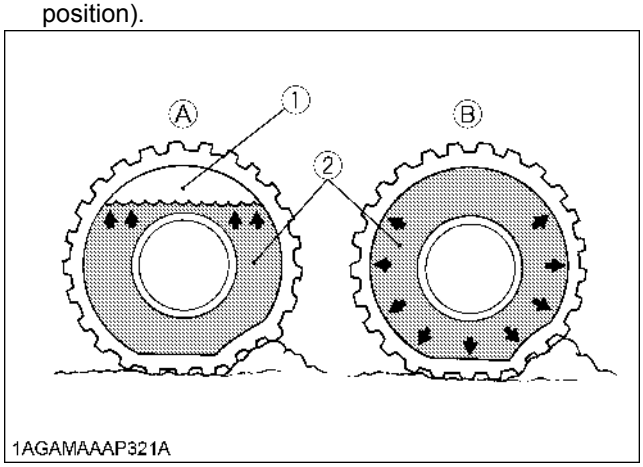
Liquid weight per tire (75 Percent filled)

Tire sizes	11.2 - 24	12.4 - 24	13.6 - 24
Slush free at -10 ℃ Solid at -30 ℃ [Approx. 1 kg $CaCl_2$ per 4 L of water]	103 kg	117 kg	153 kg
Slush free at -24 ℃ Solid at -47 ℃ [Approx. 1.5 kg $CaCl_2$ per 4 L of water]	108 kg	125 kg	160 kg
Slush free at -47 ℃ Solid at -52 ℃ [Approx. 2.25 kg $CaCl_2$ per 4 L of water]	115 kg	133 kg	170 kg

Tire sizes	13.6 - 26	13.6 - 28
Slush free at -10 ℃ Solid at -30 ℃ [Approx. 1 kg $CaCl_2$ per 4 L of water]	172 kg	185 kg
Slush free at -24 ℃ Solid at -47 ℃ [Approx. 1.5 kg $CaCl_2$ per 4 L of water]	181 kg	200 kg
Slush free at -47 ℃ Solid at -52 ℃ [Approx. 2.25 kg $CaCl_2$ per 4 L of water]	192 kg	215 kg

IMPORTANT :

- Do not fill tires with water or solution more than 75% of full capacity (to the valve stem level at 12 o'clock position).



(1) Air
(2) Water
(A) Correct-75% Air compresses like a cushion
(B) Incorrect-100% Full Water can not be compressed

■Maximum Masses

(See "APPENDICES" section.)

ENGLISH

MAINTENANCE

SERVICE INTERVALS

No.	Items		Indication on hour meter														Interval	Ref. page	
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
1	Engine start system	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	92	
2	Wheel bolt torque	Check	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	93	
3	Greasing	-	○	○	○	○	○	○	○	○	○	○	○	○	○	○	every 50 Hr	91	
4	Battery condition	Check		○		○		○		○		○		○		○	every 100 Hr	97	*4
5	Fan belt	Adjust		○		○		○		○		○		○		○	every 100 Hr	95	
6	Brake	Adjust		○		○		○		○		○		○		○	every 100 Hr	96	
7	Clutch	Adjust	◘	○		○		○		○		○		○		○	every 100 Hr	96	
8	Air cleaner element [Double type] Primary element	Clean		○		○		○		○		○		○		○	every 100 Hr	94	*1
		Replace															every 1 year	106	*2
	Secondary element	Replace															every 1 year	106	
9	Fuel line	Check		○		○		○		○		○		○		○	every 100 Hr	95	
		Replace															every 2 year	109	*3
10	Fuel filter element	Clean		○		○		○		○		○		○		○	every 100 Hr	94	
		Replace								○							every 400 Hr	105	
11	Parking brake (cable)	Adjust		○		○		○		○		○		○		○	every 100 Hr	98	
		Replace															every 2 year	109	
12	Engine oil	Change	◘			○				○				○			every 200 Hr	99	
13	Engine oil filter	Replace	◘			○				○				○			every 200 Hr	99	
14	Transmission oil filter [HST]	Replace	◘			○				○				○			every 200 Hr	100	
15	Toe-in	Adjust				○				○				○			every 200 Hr	103	

No.	Items		Indication on hour meter														Interval	Ref. page	
			50	100	150	200	250	300	350	400	450	500	550	600	650	700			
16	Power steering oil line	Check				○				○				○			every 200 Hr	103	
		Replace															every 2 year	109	*3
17	Radiator hose and clamp	Check				○				○				○			every 200 Hr	101	
		Replace															every 2 year	109	
18	Intake air line	Check				○				○				○			every 200 Hr	102	
		Replace															every 2 year	109	*3
19	HST oil line [HST]	Check				○				○				○			every 200 Hr	102	
		Replace															every 2 year	109	*3
20	Hydraulic oil filter	Replace	◎							○							every 400 Hr	104	
21	Transmission fluid	Change								○							every 400 Hr	104	
22	Front axle case oil	Change								○							every 400 Hr	105	
23	Front axle pivot	Adjust												○			every 600 Hr	106	
24	Engine valve clearance	Adjust															every 800 Hr	106	*3
25	Fuel injection nozzle Injection pressure	Check															every 1500 Hr	106	*3
26	Injection pump	Check															every 3000 Hr	106	*3
27	Turbo charger	Check															every 3000 Hr	106	*3
28	Lift cylinder hose	Replace															every 2 year	109	*3
29	Cooling system	Flush															every 2 year	107	
30	Coolant	Change															every 2 year	107	
31	Fuel system	Bleed															Service as required	109	
32	Clutch housing water	Drain																110	
33	Fuse	Replace																110	
34	Light bulb	Replace																112	

IMPORTANT :

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

*1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.

*2 Every year or every 6 times of cleaning.

*3 Consult your local KUBOTA Dealer for this service.

*4 When the battery is used for less than 100 hours per year, check the battery condition by reading the indicator annually.

LUBRICANTS

<table>
<tr><th rowspan="2">No.</th><th rowspan="2">Locations</th><th colspan="5">Capacities</th><th rowspan="2" colspan="2">Lubricants</th></tr>
<tr><th>L3540</th><th>L4240</th><th>L5040</th><th>L5240</th><th>L5740</th></tr>
<tr><td>1</td><td>Fuel</td><td colspan="2">44 L</td><td colspan="2">50 L</td><td colspan="2">54 L</td><td colspan="2">No. 2-D diesel fuel
No. 1-D diesel fuel if temperature is below -10℃</td></tr>
<tr><td rowspan="2">2</td><td rowspan="2">Coolant</td><td colspan="3">7.5 L</td><td colspan="3">8.2 L</td><td colspan="2" rowspan="2">Fresh clean soft water with anti-freeze</td></tr>
<tr><td colspan="6">Recovery tank: 1.0 L</td></tr>
<tr><td rowspan="4">3</td><td rowspan="4">Engine crankcase (with filter)</td><td rowspan="4">6.7 L</td><td rowspan="4">8.2 L</td><td rowspan="4" colspan="3">9.4 L</td><td colspan="2">• Engine oil : Refer to next page</td></tr>
<tr><td>Above 25℃</td><td>SAE30, SAE10W-30 or 15W-40</td></tr>
<tr><td>-10 to 25℃</td><td>SAE20, SAE10W-30 or 15W-40</td></tr>
<tr><td>Below -10℃</td><td>SAE10W-30</td></tr>
<tr><td>4</td><td>Transmission case</td><td colspan="2">42 L</td><td colspan="2">43 L</td><td colspan="3">45 L</td><td colspan="2">• KUBOTA UDT or SUPER UDT fluid*</td></tr>
<tr><td>5</td><td>Front axle case [4WD]</td><td colspan="3">6.5 L</td><td colspan="3">6.0 L</td><td colspan="2">• KUBOTA UDT or SUPER UDT fluid* or SAE80-SAE90 gear oil</td></tr>
<tr><td rowspan="8">6</td><td>Greasing</td><td colspan="6">No. of greasing points</td><td>Capacity</td><td>Type of grease</td></tr>
<tr><td>Front wheel case support</td><td>----</td><td colspan="5">2</td><td rowspan="6">Until grease overflows.</td><td rowspan="7">Multipurpose Grease NLGI-2 OR NLGI-1 (GC-LB)</td></tr>
<tr><td>Front axle support [4WD]</td><td colspan="6">2</td></tr>
<tr><td>Top link</td><td colspan="6">2</td></tr>
<tr><td>Top link bracket</td><td colspan="6">2 [with Draft Control (if equipped)]</td></tr>
<tr><td>Lift rod</td><td colspan="6">1</td></tr>
<tr><td>Lift cylinder</td><td colspan="6">4</td></tr>
<tr><td>Battery terminal</td><td colspan="6">2</td><td rowspan="2">moderate amount</td></tr>
<tr><td>Throttle cable</td><td colspan="6">Oiling</td><td>Engine oil</td></tr>
</table>

NOTE: *KUBOTA UDT or SUPER UDT fluid---KUBOTA original transmission hydraulic fluid

NOTE :

◆ **Engine Oil:**

- Oil used in the engine should have an American Petroleum Institute (API) service classification and Proper SAE Engine Oil according to the ambient temperatures as shown above:
- With the emission control now in effect, the CF-4 and CG-4 lubricating oils have been developed for use of a low-sulfur fuel on on-road vehicle engines. When an off-road vehicle engine runs on a high-sulfur fuel, it is advisable to employ the "CF or better" lubricating oil with a high Total Base Number (TBN of 10 minimum).

- Refer to the following table for the suitable API classification engine oil according to the engine type (with internal EGR, external EGR or non-EGR) and the fuel (low-sulfur or high-sulfur fuel).

Fuel used	Engine oil classification (API classification)	
	Oil class of engines except external EGR	Oil class of engines with external EGR
High Sulfur Fuel [≧ 0.05% (500 ppm)]	**CF** (If the "CF-4, CG-4, CH-4 or CI-4" lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals. (approximately half))	---
Low Sulfur Fuel [<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 DPF (Diesel Particulate Filter) type engines, and cannot be used on this tractor.

	without EGR	with external EGR
Models	L3540, L4240, L5040	L5240, L5740

◆ **Fuel:**

- Cetane number of 45 minimum. Cetane number greater than 50 is preferred, especially for temperatures below -20℃ or elevations above 1500 m.
- If diesel fuel with sulfur content greater than 0.5% (5000 ppm) sulfur content is used, reduce the service interval for engine oil and filter by 50%.
- NEVER use diesel fuel with sulfur content greater than 0.05% (500 ppm) for EXTERNAL EGR type engine.
- DO NOT use diesel fuel with sulfur content greater than 1.0% (10000 ppm).
- Diesel fuels specified to EN 590 or ASTM D975 are recommended.
- No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)
- Since this engine adopts EPA Tier 4 and Interim Tier 4 standards, the use of low sulfur fuel or ultra low sulfur fuel is mandatory in EPA regulated area (North America). Therefore, please use No.2-D S500 or S15 diesel fuel as an alternative to No.2-D, or use No.1-D S500 or S15 diesel fuel as an alternative to No.1-D if outside air temperature is below -10℃.

◆ **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 lubrication of the transmission, it is important that a multi-grade 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.)
Do not mix different brands together.

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

ENGLISH

PERIODIC SERVICE

CAUTION

To avoid personal injury:

- **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.**

HOW TO OPEN THE HOOD

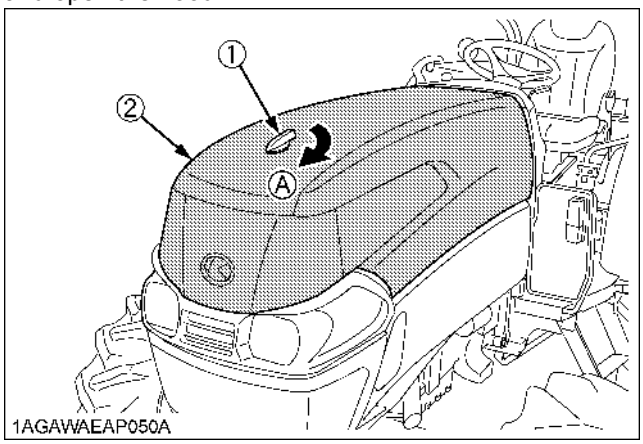
CAUTION

To avoid personal injury from contact with moving parts;

- **Never open the hood 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 link.**

■Hood

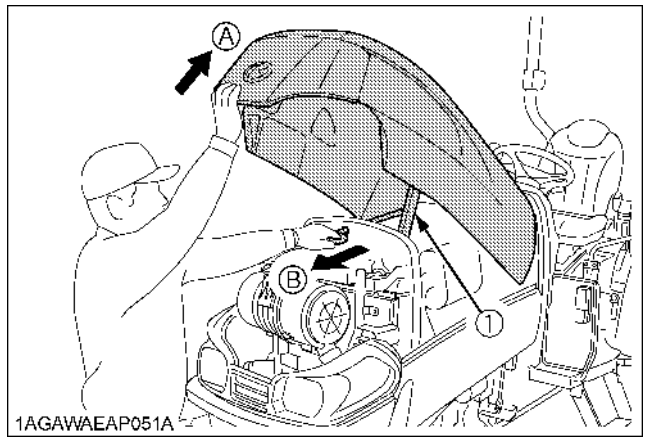
To open the hood, twist the mascot to release the latch and open the hood.



(1) Mascot
(2) Hood
(A) "OPEN"

NOTE :

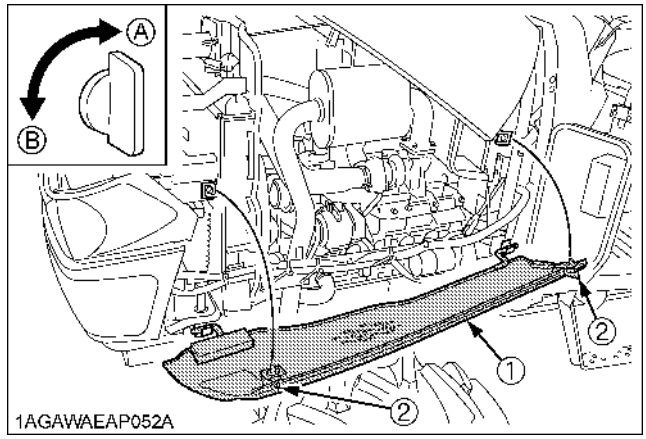
- To close the hood, hold the hood and release the support link.



(1) Support link
(A) "HOLD"
(B) "PULL"

■Side Cover

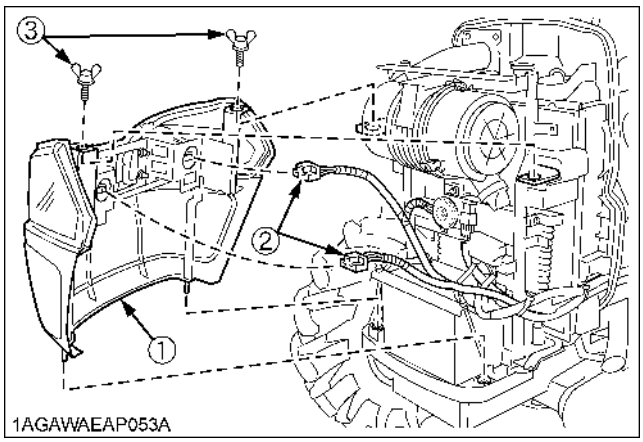
To remove the side cover, turn the 2 lock screws counterclockwise by 90°, and then raise and take away the side cover.



(1) Side cover
(2) Lock screw
(A) "LOCK POSITION"
(B) "UNLOCK POSITION"

■Front Cover

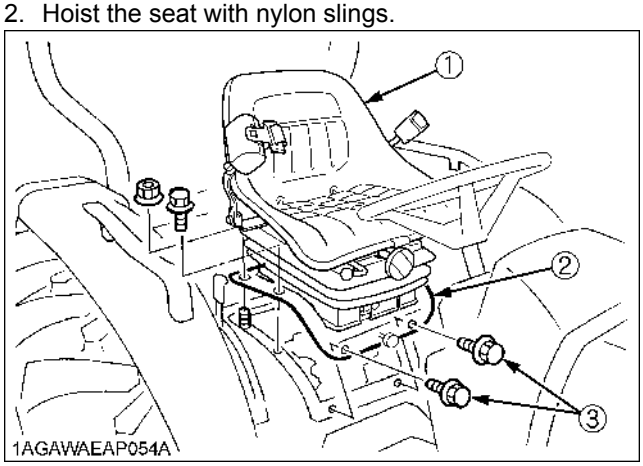
1. While pushing the right and left lock buttons, pull and remove the electrical connector.
2. Remove the bolts at both sides and detach the front cover.



(1) Front cover
(2) Electrical connector
(3) Wing bolt

■Floor Sheet

1. Remove the bolts on the floor sheet cover.
2. Hoist the seat with nylon slings.



(1) Seat
(2) Floor sheet cover
(3) Bolt

DAILY CHECK

For your own safety and maximum service life of the machine, make a thorough daily inspection before operating the machine to start the engine.

CAUTION

To avoid personal injury:
Take the following precautions when checking the tractor.

- **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, oil or coolant leaks, broken or worn parts.

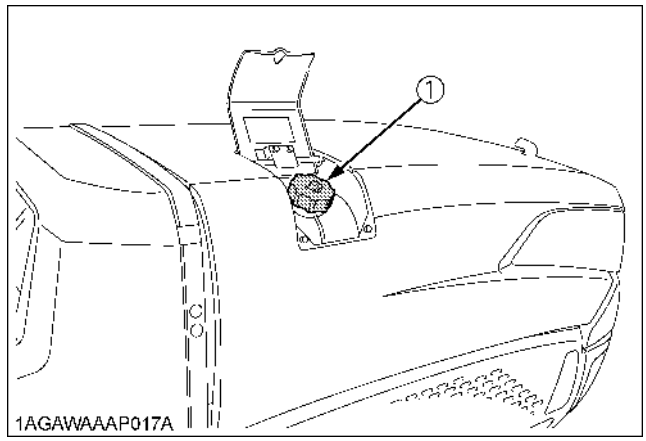
■Checking and Refueling

CAUTION

To avoid personal injury:

- **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 fuel gauge.
2. Fill fuel tank when fuel gauge shows 1/4 or less fuel in tank.



(1) Fuel tank cap

◆ **Refueling alarm**

Suppose that you try to refuel with the key switch at ON. When you start refueling, the buzzer sounds intermittently.

When the tank gets close to full, the buzzer starts sounding continuously. Stop refueling just when the buzzer sound turns from intermittent to continuous.

Fuel tank capacity	L3540	44L
	L4240	50 L
	L5040, L5240, L5740	54 L

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 refueling. If should spill, wipe it off at once, or it may cause a fire.
- To prevent condensation (water) accumulation in the fuel tank, fill the tank before parking overnight.

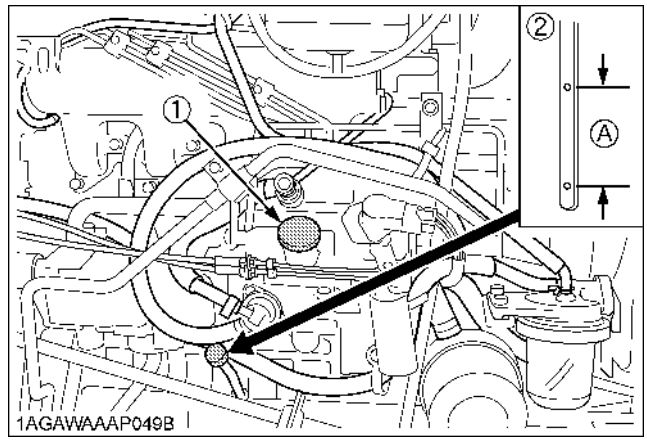
■Checking Engine Oil Level

CAUTION

To avoid personal injury:

- **Be sure to stop the engine before checking the oil level.**

1. Park the machine on a flat surface.
2. Check engine oil before starting the engine or 5 minutes or more after the engine has stopped.
3. 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 between the two notches.
   If the level is too low, add new oil to the prescribed level at the oil inlet.
   (See "LUBRICANTS" in "MAINTENANCE" section.)



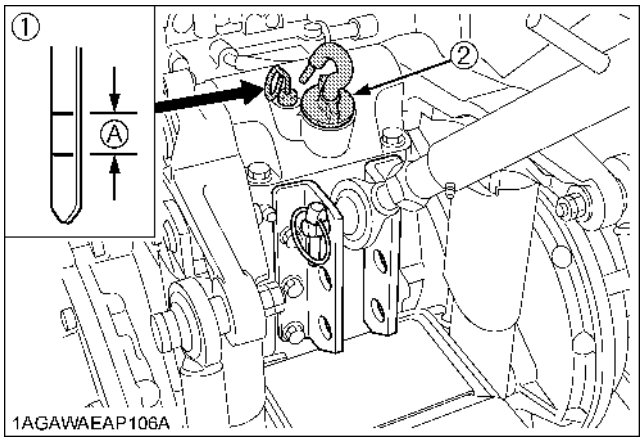
(1) Oil inlet (A) Oil level is acceptable within this range.
(2) Dipstick

IMPORTANT :

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

■Checking Transmission Fluid Level

1. Park the machine on a flat surface, lower the implement and shut off engine.
2. 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 between the two notches.
   If the level is too low, add new oil to the prescribed level at the oil inlet.
   (See "LUBRICANTS" in "MAINTENANCE" section.)



(1) Gauge *(A) Oil level is acceptable within this range.*
(2) Oil inlet

IMPORTANT :
- If oil level is low, do not run engine.

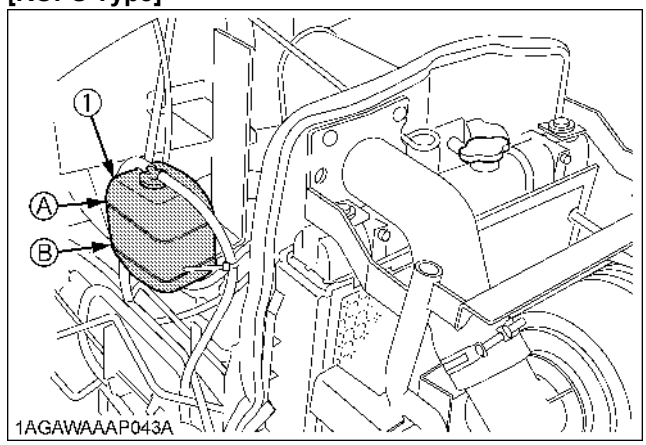
■Checking Coolant Level

CAUTION

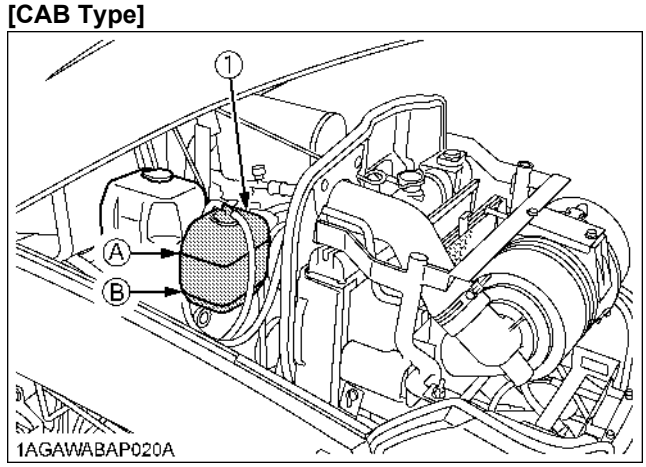
To avoid personal injury:
- **Do not remove radiator cap while coolant is hot. When cool, slowly rotate cap to the first stop and allow sufficient time for excess pressure to escape before removing the cap completely.**

1. Check to see that the coolant level is between the "FULL" and "LOW" marks of recovery tank.
2. When the coolant level drops due to evaporation, add soft 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 SERVICE" section.)

[ROPS Type]



[CAB Type]



(1) Recovery tank *(A) "FULL"*
(B) "LOW"

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

ENGLISH

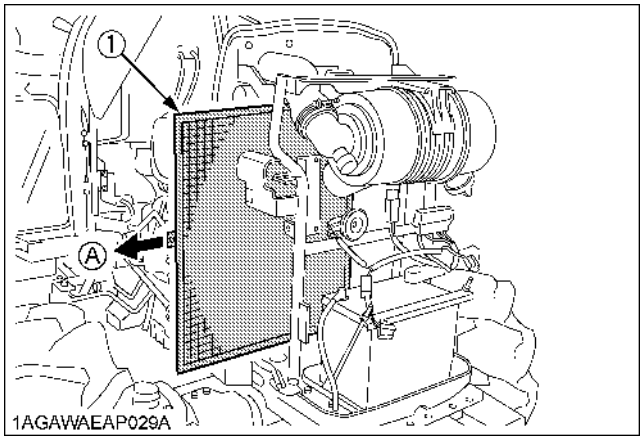
■Cleaning Grill, Radiator Screen and Oil Cooler

CAUTION

To avoid personal injury:

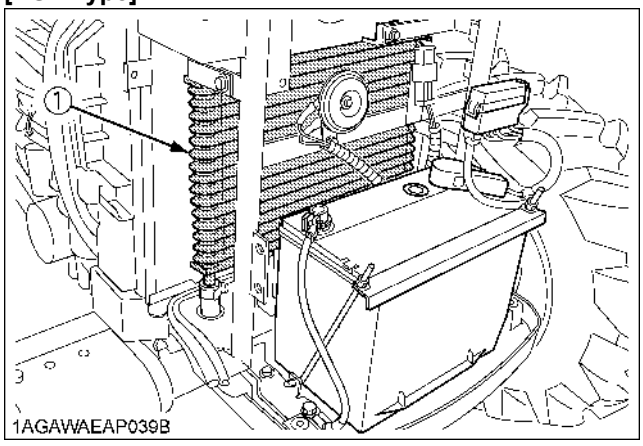
- **Be sure to stop the engine before removing the screen.**

1. Check front grill and side screens to be sure they are clean of debris.
2. Detach the screen and remove all foreign materials.



(1) Radiator screen *(A) "DETACH"*

[HST Type]



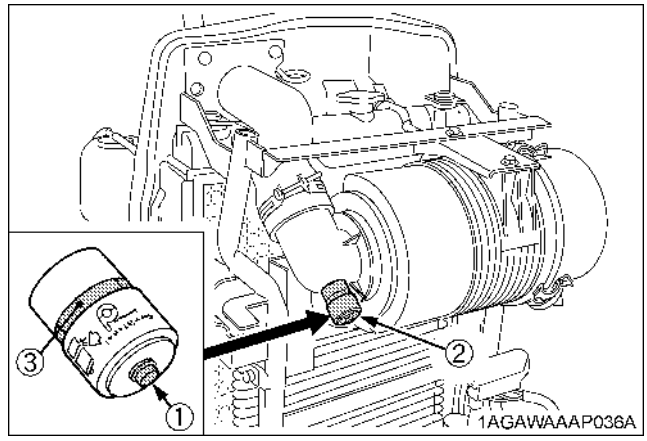
(1) Oil cooler

IMPORTANT :

- Grill and screen must be clean from debris to prevent engine from overheating and to allow good air intake for the air cleaner.

■Checking Dust Indicator

There is a dust indicator on the air cleaner body. If the red signal on the dust indicator is visible, clean the element immediately. (See "Cleaning Air Cleaner Primary Element" in "EVERY 100 HOURS" in "PERIODIC SERVICE" section.) Reset the red signal by pushing a "RESET" button after cleaning.



(1) "RESET" button
(2) Dust indicator
(3) Red signal

■Checking Brake Pedals and Clutch Pedal

WARNING

To avoid personal injury:

- **Be sure brake pedals have equal adjustment when using locked together. Incorrect or unequal brake pedal adjustment can cause the tractor to swerve or roll-over.**

1. Inspect the brake and clutch pedals for free travel, and smooth operation.
2. Adjust if incorrect measurement is found:
   (See "Adjusting Clutch Pedal" and "Adjusting Brake Pedal" in "EVERY 100 HOURS" in "PERIODIC SERVICE" section.)

■Checking Gauges, Meter and Easy Checker(TM)

1. Inspect the instrument panel for broken gauge(s), meter(s) and Easy Checker(TM).
2. 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 ROPS

1. Always check condition of seat belt and ROPS attaching hardware before operating tractor.
2. Replace if damaged.

■Checking Movable Parts

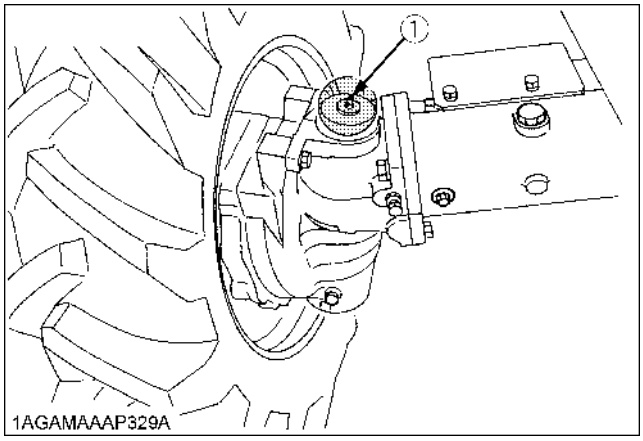
If any of the movable parts, such as levers and pedals, is not smoothly moved because of rust or anything sticky, do not attempt to force it into motion.
In the above case, remove the rust or the sticky thing, and apply oil or grease on the relevant spot.
Otherwise, the machine may get damaged.

EVERY 50 HOURS

■Lubricating Grease Fittings

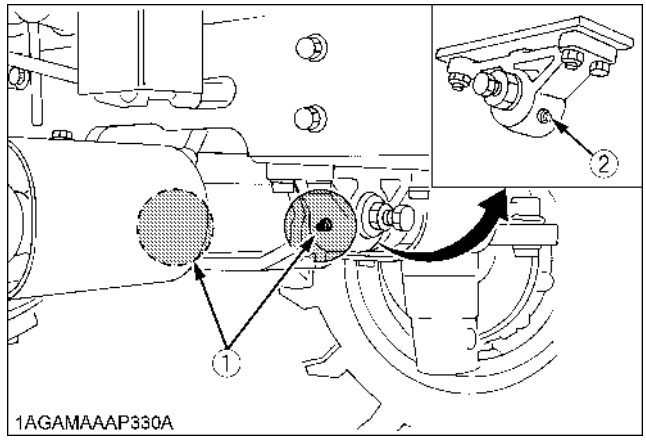
Apply a small amount of multipurpose grease to the following points every 50 hours:
If you operated the machine in extremely wet and muddy conditions, lubricate grease fittings more often.

[L4240, L5040, L5240, L5740]

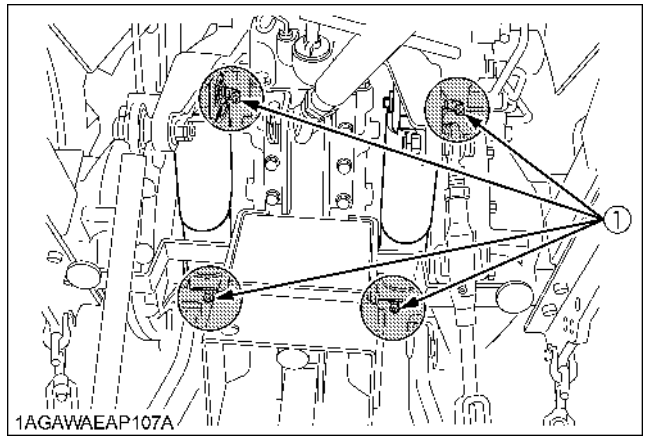


(1) Grease fitting (Front wheel case support)[RH, LH]

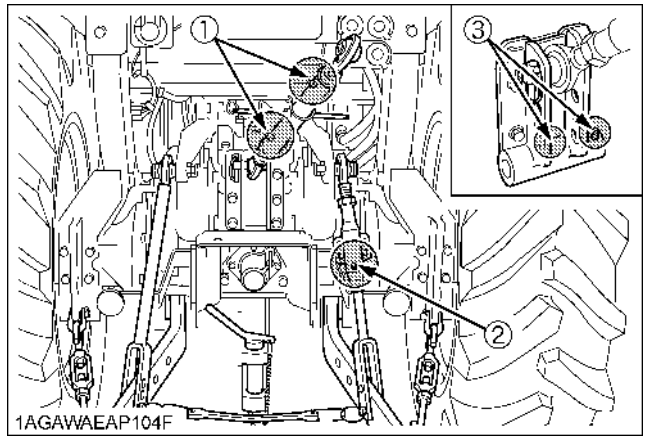
When apply a grease to forward front axle support, remove the breather plug and apply a grease until grease overflows from breather plug port.
After greasing reinstall the breather plug.



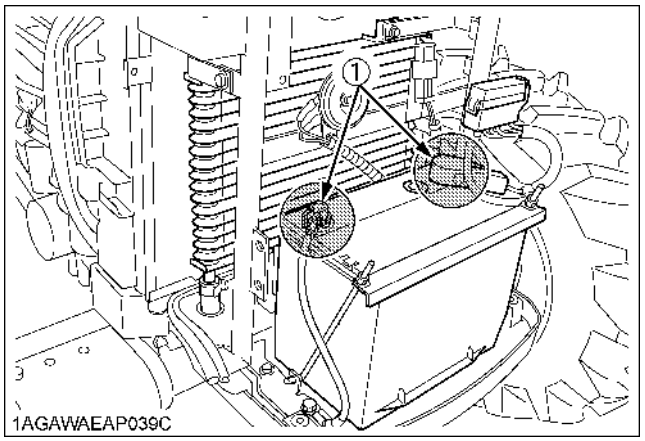
(1) Grease fitting (Front axle support)
(2) Breather plug



(1) Grease fitting (Lift cylinder)



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



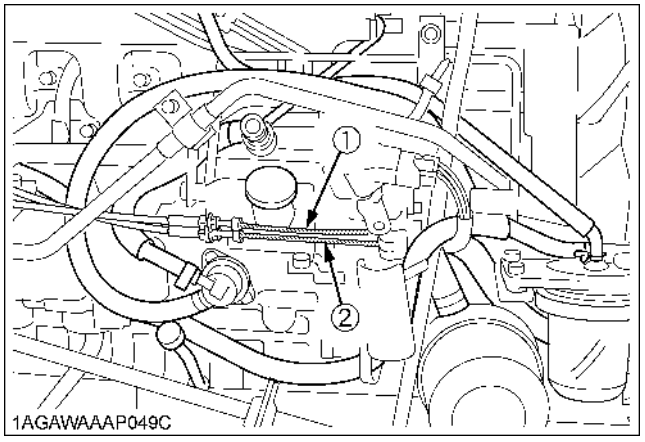
(1) Battery terminals

■Oiling

CAUTION

To avoid personal injury:

- **Be sure to stop the engine and remove the key before oiling.**



(1) Hand throttle cable
(2) Foot throttle cable

■Checking Engine Start System

CAUTION

To avoid personal injury:

- **Do not allow anyone near the tractor while testing.**
- **If the tractor does not pass the test, do not operate the tractor.**

◆ **Preparation before testing.**

1. Place all control levers in the "NEUTRAL" position.
2. Set the parking brake and stop the engine.

[GST / Manual Transmission Type]

◆ **Test: Switch for the shuttle shift lever.**

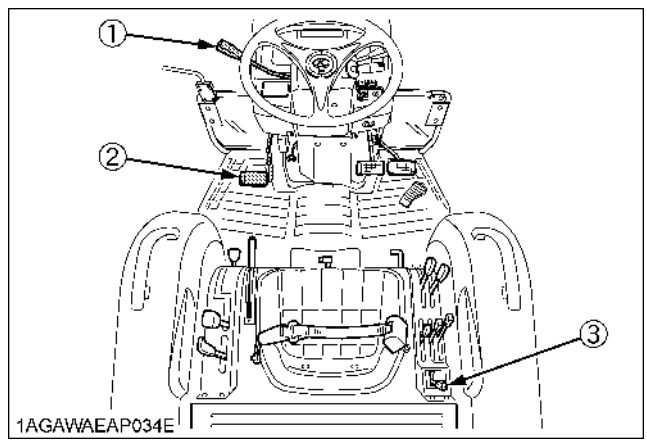
1. Sit on the operator's seat
2. Shift the shuttle shift lever to the forward or reverse position.
3. Depress the clutch pedal fully.
4. Disengage the PTO clutch control switch or lever.
5. Turn the key to "START" position.
6. The engine must not crank.
7. If it cranks, consult your local KUBOTA Dealer for this service.

◆ **Test: Switch for the PTO clutch control switch or lever.**

1. Sit on the operator's seat.
2. Engage the PTO clutch control switch or lever.
3. Depress the clutch pedal fully.
4. Shift the shuttle shift lever to the neutral position.
5. Turn the key to "START" position.
6. The engine must not crank.
7. If it cranks, consult your local KUBOTA Dealer for this service.

◆ **Test: Switch for the operator's seat.**

1. Sit on the operator's seat.
2. Start the engine.
3. Engage the PTO clutch control switch or lever.
4. Release the parking brake.
5. Stand up. (Do not get off the machine.)
6. The engine must shut off after approximately 1 second.
7. If it does not stop, consult your local KUBOTA Dealer for this service.



(1) Shuttle shift lever
(2) Clutch pedal
(3) PTO clutch control lever

[HST Type]

◆ **Test: Switch for the speed control pedal.**

1. Sit on the operator's seat.
2. Depress the speed control pedal to the desired direction.
3. Depress the clutch pedal fully.
4. Disengage the PTO clutch control switch or lever.
5. Turn the key to "START" position.
6. The engine must not crank.
7. If it cranks, consult your local KUBOTA Dealer for this service.

◆ **Test: Switch for the PTO clutch control switch or lever.**

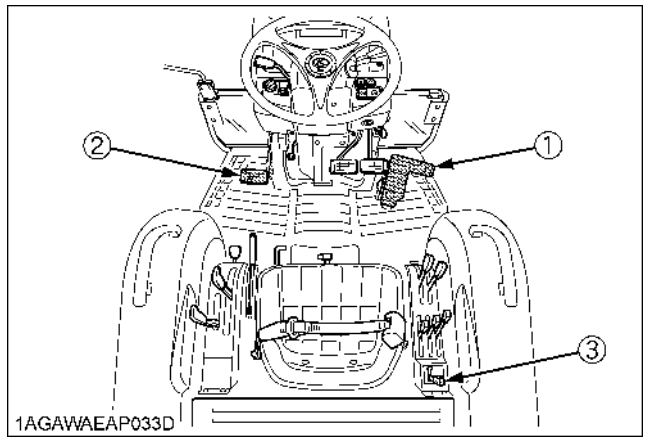
1. Sit on the operator's seat.
2. Engage the PTO clutch control switch or lever.
3. Depress the clutch pedal fully.
4. Place the speed control pedal in neutral position.
5. Turn the key to "START" position.
6. The engine must not crank.
7. If it cranks, consult your local KUBOTA Dealer for this service.

◆ **Test: Switch for the clutch pedal.**

1. Sit on the operator's seat.
2. Disengage the PTO clutch control switch or lever.
3. Place the speed control pedal in neutral position.
4. Release the clutch pedal.
5. Turn the key to "START" position.
6. The engine must not crank.
7. If it cranks, consult your local KUBOTA Dealer for this service.

◆ **Test: Switch for the operator's seat.**

1. Sit on the operator's seat.
2. Start the engine.
3. Engage the PTO clutch control switch or lever.
4. Release the parking brake.
5. Stand up. (Do not get off the machine.)
6. The engine must shut off after approximately 1 second.
7. If it does not stop, consult your local KUBOTA Dealer for this service.



(1) Speed control pedal
(2) Clutch pedal
(3) PTO clutch control lever

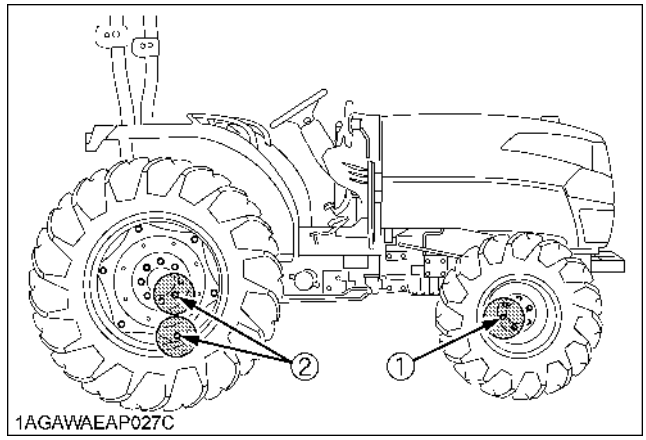
■Checking Wheel Bolt Torque

CAUTION

To avoid personal injury:

- **Never operate tractor with a loose rim, wheel, or axle.**
- **Any time bolts and nuts are loosened, retighten to specified torque.**
- **Check all bolts and nuts frequently and keep them tight.**

Check wheel bolts and nuts regularly especially when new. If they are loose, tighten them as follows.



(1) [L3540, L4240] 137 N-m (14 kgf-m)
[L5040, L5240, L5740] 185 N-m (19 kgf-m)
(2) 215 N-m (22 kgf-m)

ENGLISH

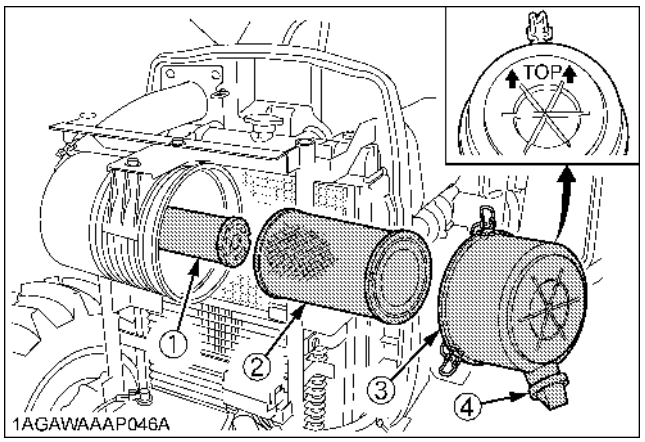
EVERY 100 HOURS

■Cleaning Air Cleaner Primary Element

1. Remove the air cleaner cover and primary element.
2. Clean the primary element:
   (1) When dry dust adheres to the element, blow compressed air from the inside, turning the element. Pressure of compressed air must be under 205 kPa (2.1 kgf/cm², 30 psi).
   (2) When carbon or oil adheres to the element, soak the element in detergent for 15 minutes then wash it several times in water, rinse with clean water and dry it naturally. After element is fully dried, inspect inside of the element with a light and check if it is damaged or not.
3. Replace air cleaner primary element:
   Once yearly or after every sixth cleaning, whichever comes first.

NOTE :

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



(1) Secondary (safety) element
(2) Primary element
(3) Cover
(4) Evacuator valve

IMPORTANT :

- The air cleaner uses a dry element, never apply oil.
- Do not run the engine with filter element removed.
- Be sure to refit 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.)

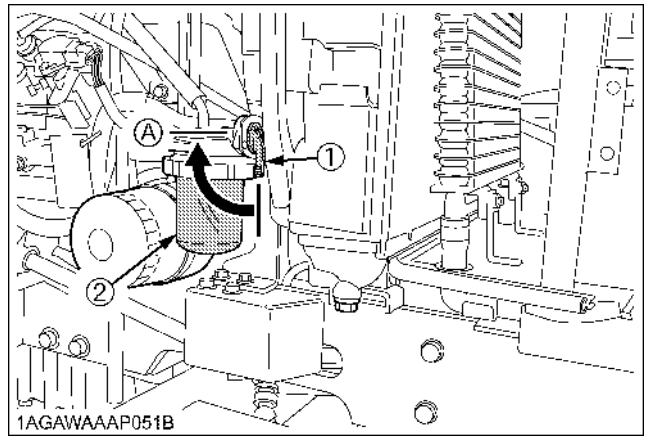
◆ Evacuator Valve

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.

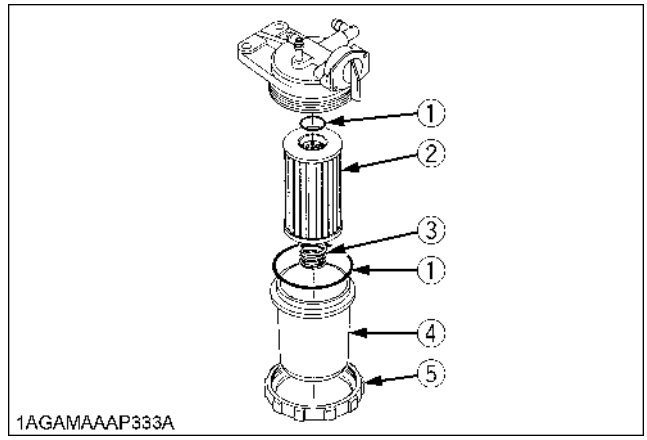
■Cleaning Fuel Filter

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

1. Close the fuel cock.
2. Unscrew the screw ring and remove the filter bowl, and rinse the inside with kerosene.
3. Take out the element and dip it in the kerosene to rinse.
4. After cleaning, reassemble the fuel filter, keeping out dust and dirt.
5. Bleed the fuel system.
   (See "Bleeding Fuel System" in "SERVICE AS REQUIRED" in "PERIODIC SERVICE" section.)



(1) Fuel cock *(A) "CLOSE"*
(2) Fuel filter bowl



(1) O ring
(2) Filter element
(3) Spring
(4) Filter bowl
(5) Screw ring

IMPORTANT :

- If dust and dirt 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

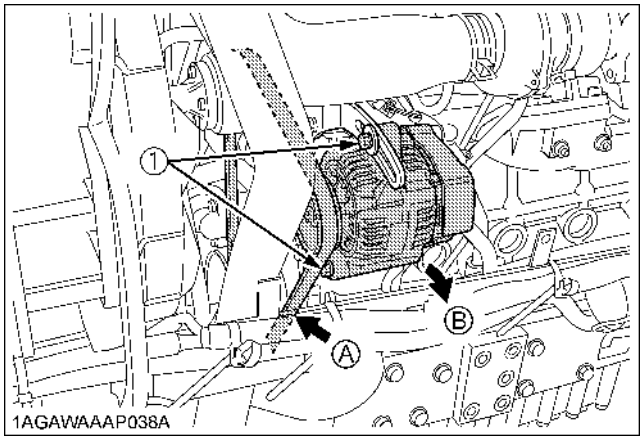
CAUTION

To avoid personal injury:

- **Be sure to stop the engine before checking belt tension.**

Proper fan belt tension	A deflection of between 7 to 9 mm when the belt is pressed in the middle of the span.

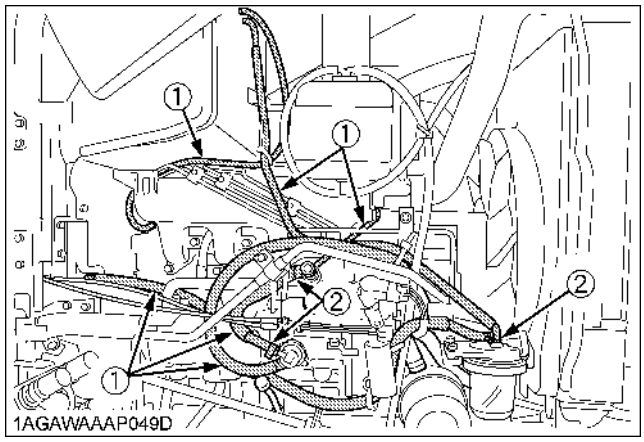
1. Stop the engine and remove the key.
2. Apply moderate thumb pressure to belt between pulleys.
3. If tension is incorrect, loosen the alternator mounting bolts and, using a lever placed between the alternator and the engine block, pull the alternator out until the deflection of the belt falls within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



(1) Bolt
(A) Check the belt tension
(B) To tighten

■Checking Fuel Line

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



(1) Fuel lines
(2) Clamp bands

NOTE :

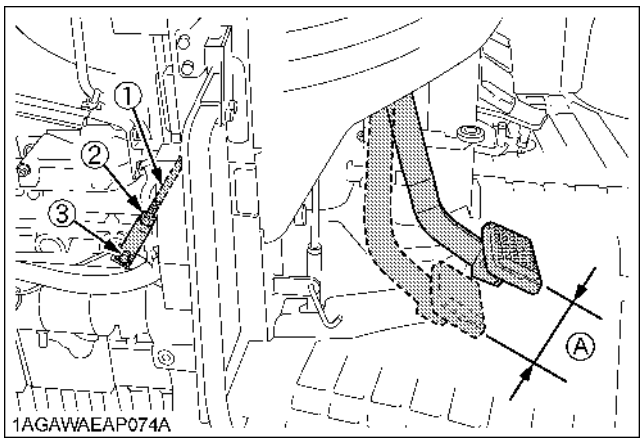
- If the fuel line is removed, be sure to properly bleed the fuel system.
  (See "Bleeding Fuel System" in "SERVICE AS REQUIRED" in "PERIODIC SERVICE" section.)

■Adjusting Clutch Pedal

Proper clutch pedal free travel	20 to 30 mm on the pedal

◆ **Adjusting procedure**

1. Stop the engine and remove the key.
2. Slightly depress the clutch pedal and measure free travel at top of pedal stroke.
3. If adjustment is needed, loosen the lock nut, remove the clevis pin and adjust the rod length within acceptable limits.
4. Retighten the lock nut and split the cotter pin.



(1) Clutch rod
(2) Nut
(3) Clevis pin
(A) "FREE TRAVEL"

■Adjusting Brake Pedal

CAUTION

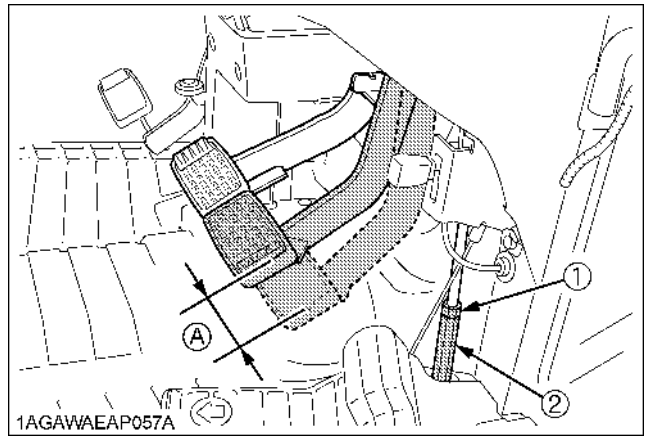
To avoid personal injury:

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

Proper brake pedal free travel	15 to 20 mm on the pedal.
	Keep the free travel in the right and left brake pedals equal.

◆ **Adjusting procedure**

1. Release the parking brake.
2. Slightly depress the brake pedals and measure free travel at the top of pedal stroke.
3. If adjustment is needed, loosen the lock nut and turn the turnbuckle to adjust the rod length within acceptable limits.
4. Retighten the lock nut.



(1) Lock nut
(2) Turnbuckle
(A) "FREE TRAVEL"

■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.**

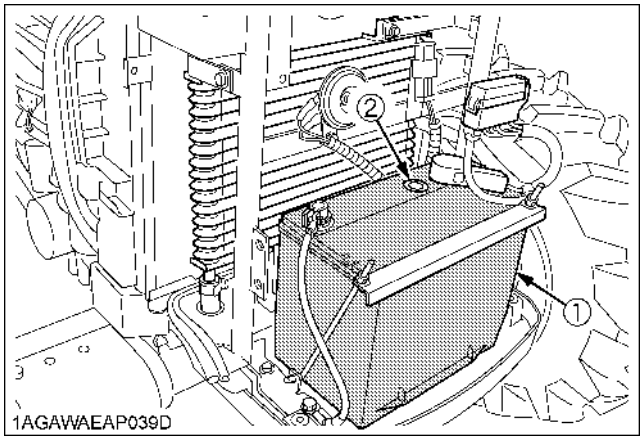
CAUTION

To avoid personal injury:

- **Never remove the vent caps 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.**
- **Wear eye protection and rubber gloves when working around the 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) Battery
(2) Indicator

◆ **How to read the indicator**
Check the battery condition by reading the indicator.

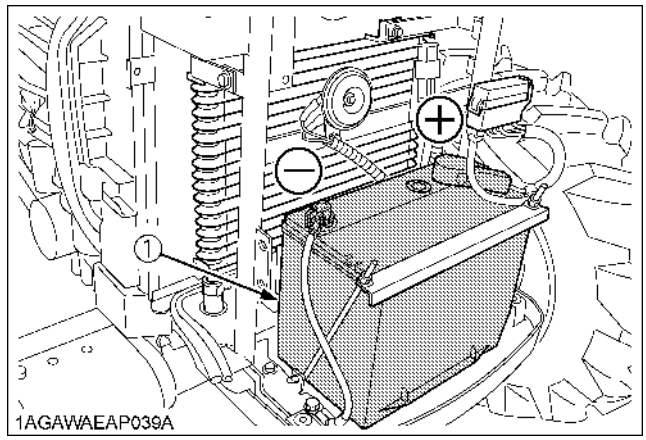
State of indicator display	
Green	Specific gravity of electrolyte and quality of electrolyte are both in good condition.
Black	Needs charging battery.
White	Needs replacing battery.

◆ **Battery Charging**

CAUTION

To avoid personal injury:

- **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) Battery

1. To slow charge the battery, connect the battery positive terminal to the charger positive terminal and the negative to the negative, then recharge in the standard fashion.
2. A boost charge is only for emergencies. It will partially charge the 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 battery's service life.
3. The battery is charged if the indicator display turns green from black.

4. When exchanging an old battery for a new one, use battery of equal specification shown in **table 1**.

Table 1

Battery Type	Volts (V)	Capacity at 5H.R(A.H)
80D26R	12	55

Reserve Capacity (min)	Cold Cranking Amps	Normal Charging Rate (A)
133	582	6.5

◆ **Direction for Storage**

1. 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.
2. The battery self-discharges while it is stored. Recharge it once every 3 months in hot seasons and once every 6 months in cold seasons.

■Adjusting Parking Brake Lever

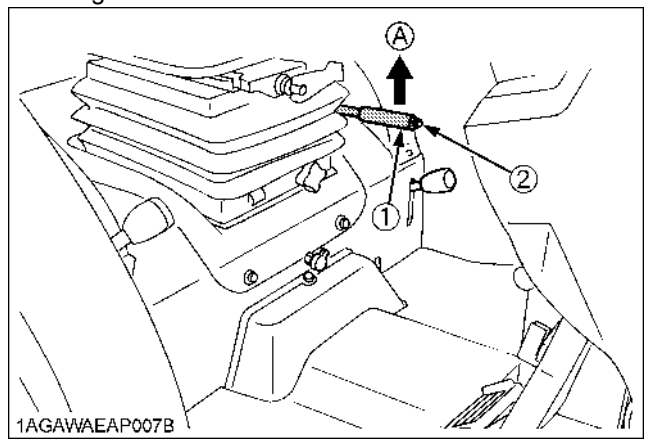
CAUTION

To avoid personal injury:

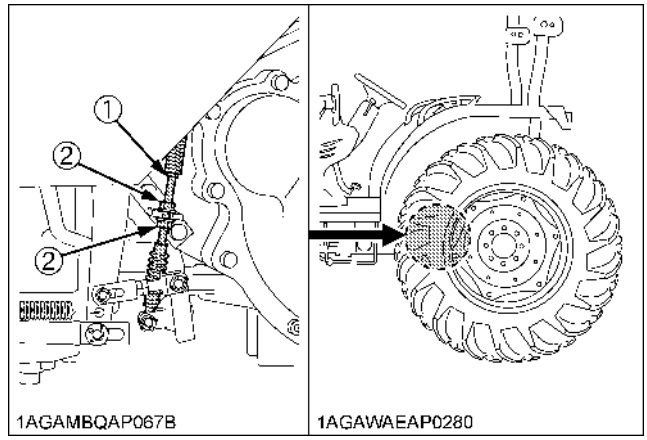
- **Stop the engine and chock the wheels before checking parking brake.**

Proper parking brake lever free travel	2 notches (Ratchet sound 2).

1. Raise the parking brake lever to the parking position while counting the ratchet sound made by the parking brake lever.
2. If adjustment is needed, loosen the lock nut and adjust the parking brake cable length with in acceptable limit.
3. Retighten the lock nut.



(1) Parking brake lever *(A) "PULL"*
(2) Release button



(1) Parking brake cable
(2) Lock nut

EVERY 200 HOURS

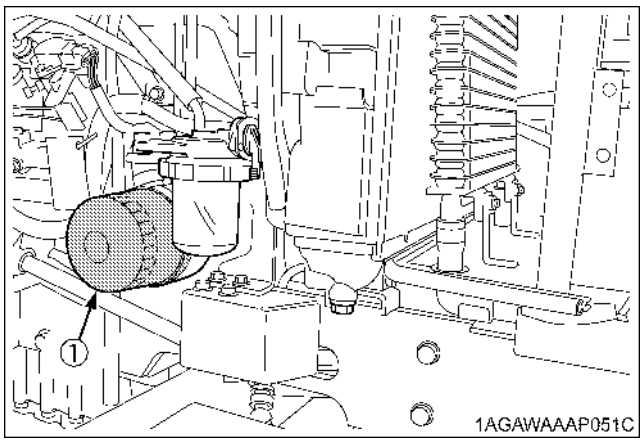
■Replacing Engine Oil Filter

CAUTION

To avoid personal injury:

- **Be sure to stop the engine before changing the oil filter cartridge.**
- **Allow engine to cool down sufficiently, oil can be hot and can burn.**

1. Remove the oil filter.
2. Put a film of clean engine oil on the rubber seal of the new filter.
3. Tighten the filter quickly until it contacts the mounting surface.
   Tighten filter by hand an additional 1/2 turn only.
4. After the new filter has been replaced, the engine oil normally decreases a little. Make sure that the engine oil does not leak through the seal and be sure to check the oil level on the dipstick. 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

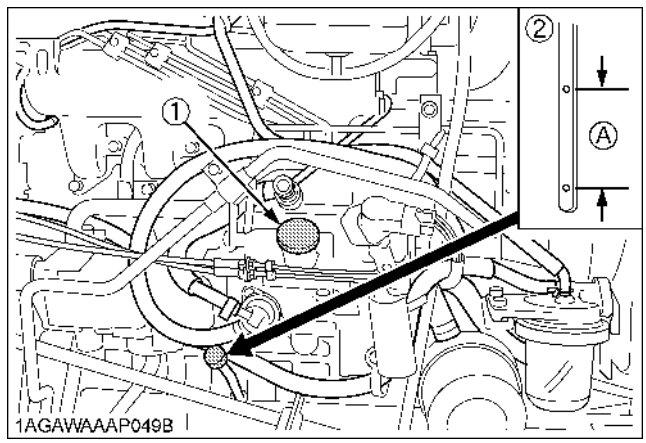
CAUTION

To avoid personal injury:

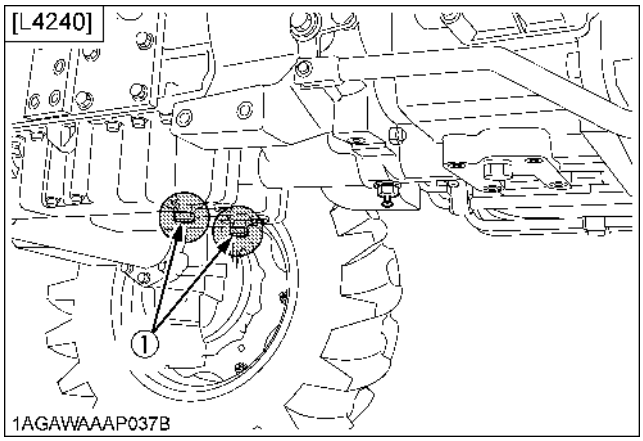
- **Be sure to stop the engine before changing the oil.**
- **Allow engine to cool down sufficiently, oil can be hot and can burn.**

1. To drain the used oil, remove the drain plug at the bottom of the engine and drain the oil completely into the oil pan.
   All the used oil can be drained out easily when the engine is still warm.
2. After draining reinstall the drain plug.
3. Fill with the new oil up to the upper notch on the dipstick.
   (See "LUBRICANTS" in "MAINTENANCE" section.)

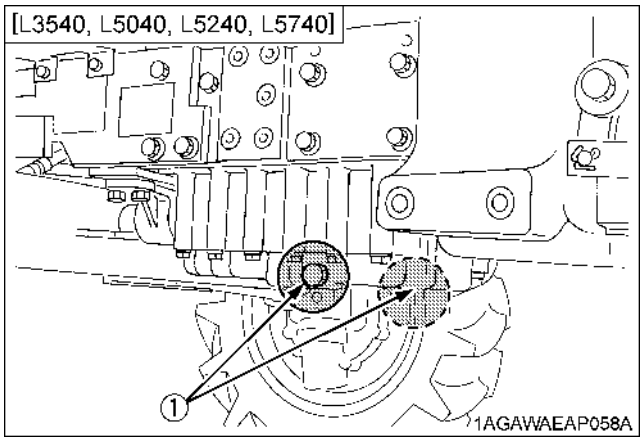
Oil capacity with filter	L3540	6.7 L
	L4240	8.2 L
	L5040, L5240, L5740	9.4 L



(1) Oil inlet
(2) Dipstick
(A) Oil level is acceptable within this range



(1) Drain plug



(1) Drain plug

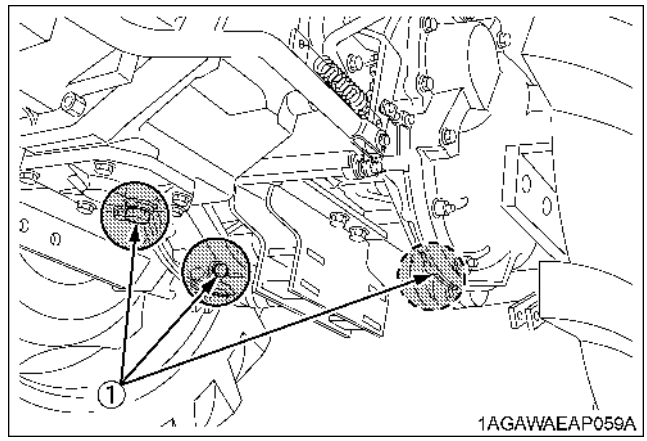
■Replacing Transmission Oil Filter [HST Type]

CAUTION

To avoid personal injury:

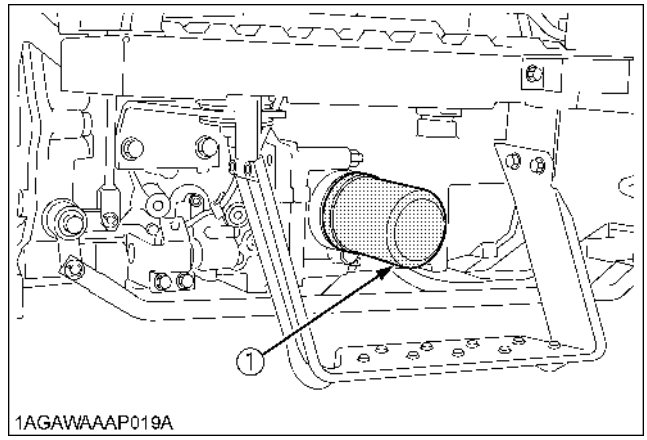
- **Be sure to stop the engine before changing the oil filter cartridge.**
- **Allow engine to cool down sufficiently, oil can be hot and can burn.**

1. Remove the drain plugs at the bottom of the transmission case and drain the oil completely into the oil pan.
2. After draining reinstall the drain plugs.



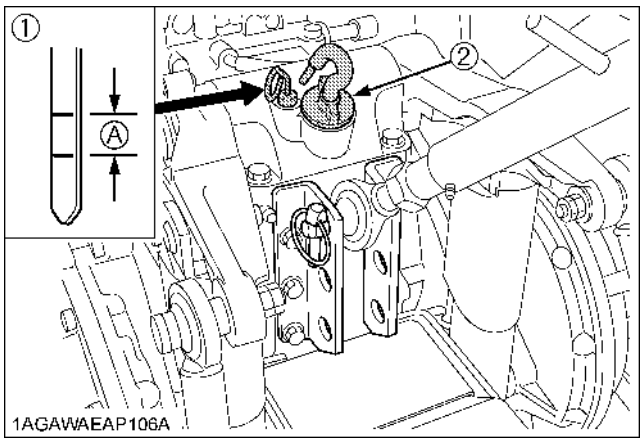
(1) Drain plugs

3. Remove the oil filter.



(1) Transmission oil filter [HST Type]

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



(1) Gauge (A) Oil level is acceptable within this range.
(2) Oil inlet

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

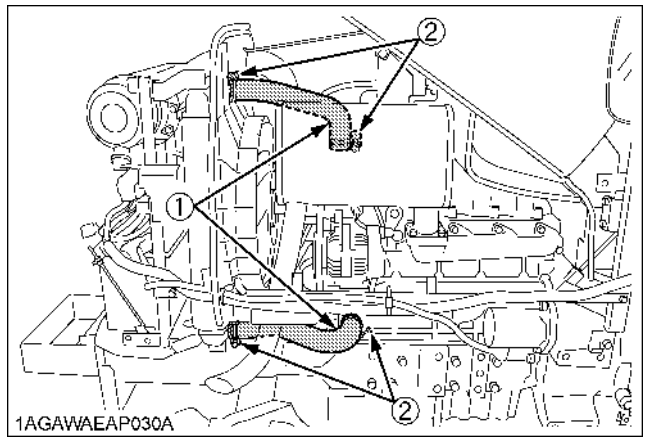
IMPORTANT :
- To prevent serious damage to the hydraulic system, use only a KUBOTA genuine filter.
- Do not operate the tractor immediately after changing the transmission fluid.
  Run the engine at medium speed for a few minutes to prevent damage to the transmission.

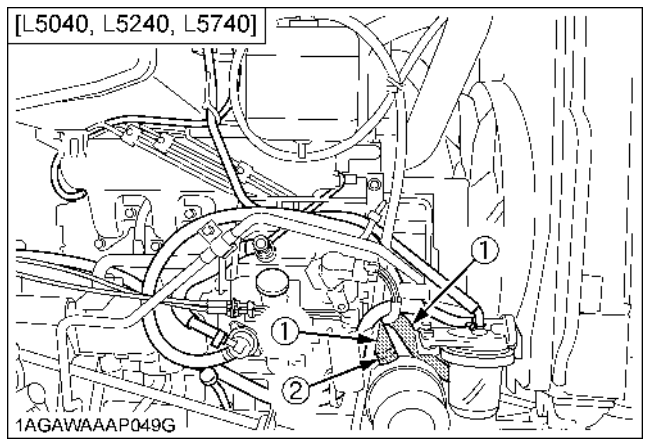
■Checking Radiator Hose and Clamp

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

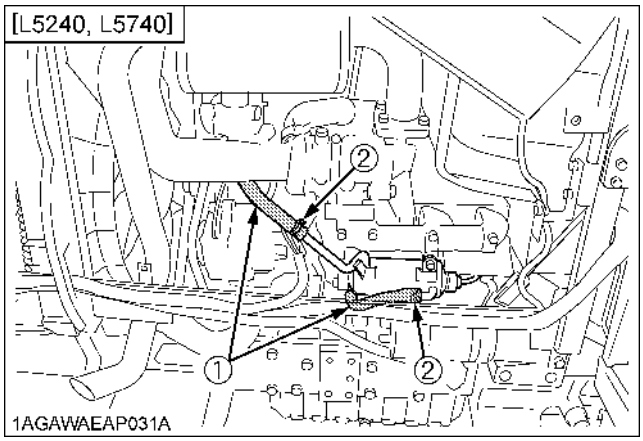
1. If hose clamps are loose or water leaks, tighten bands securely.
2. Replace hoses and tighten hose clamps securely, if radiator hoses are swollen, hardened or cracked.

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





(1) Radiator hoses
(2) Clamp bands



(1) Radiator hoses
(2) Clamp bands

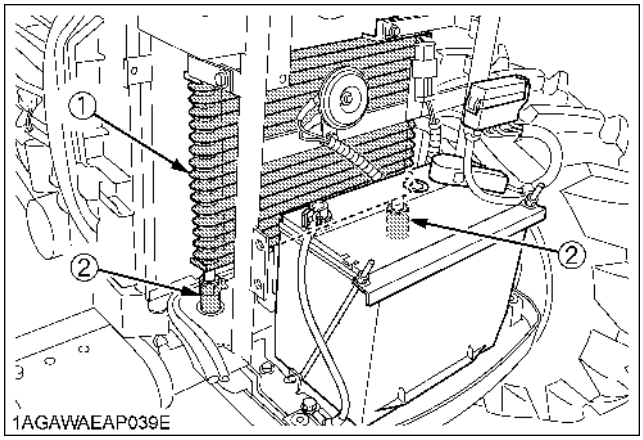
◆ **Precaution at Overheating**

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

1. Park the tractor in a safe place and keep the engine unloaded idling.
2. Don't stop the engine suddenly, but stop it after about 5 minutes of unloaded idling.
3. Keep yourself well away from the machine for further 10 minutes or while the steam blows out.
4. Check that there are no dangers such as burns. Get rid of the causes of overheating according to the manual, see "TROUBLESHOOTING" section, and then, start again the engine.

■Checking HST Oil Line

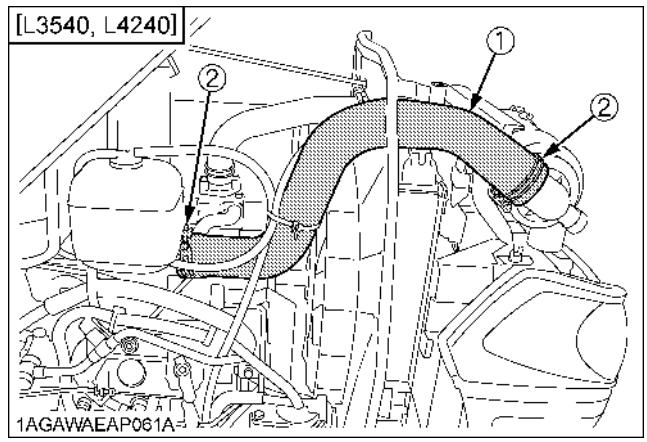
1. Check to see that all lines and hose clamps are tight and not damaged.
2. If hoses and clamps are found worn or damaged, replace or repair them at once.

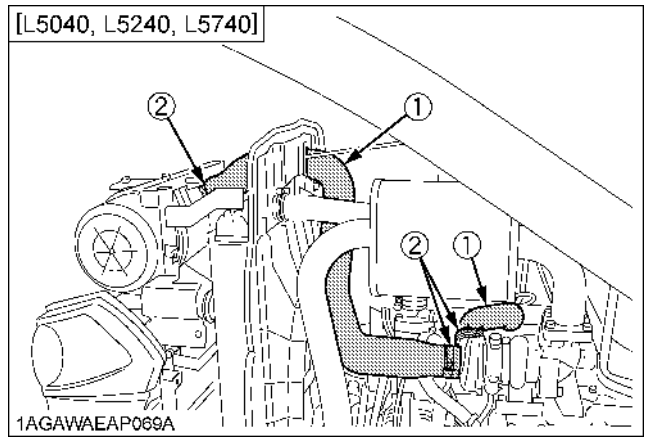


(1) Oil cooler
(2) Oil cooler line

■Checking Intake Air Line

1. 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 once.

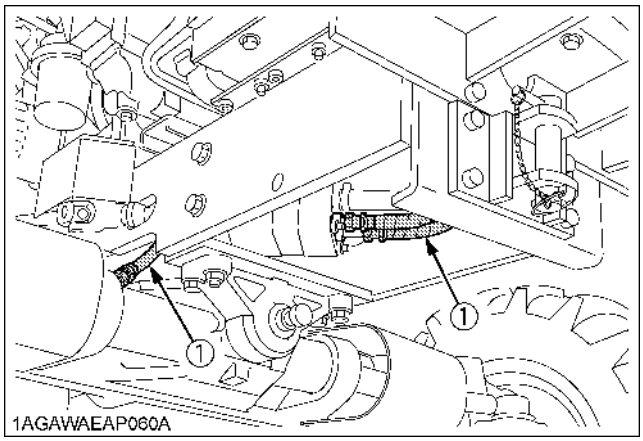




(1) Hose
(2) Hose clamps

■Checking Power Steering Line

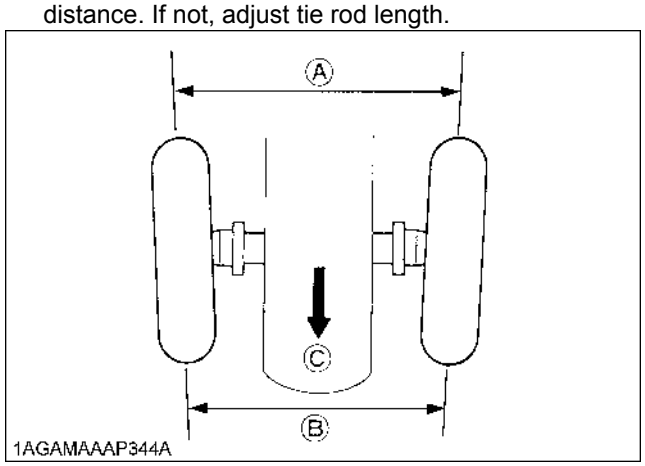
1. Check to see that all lines and hose clamps are tight and not damaged.
2. If hoses and clamps are found worn or damaged, replace or repair them at once.



(1) Power steering pressure hoses

■Adjusting Toe-in

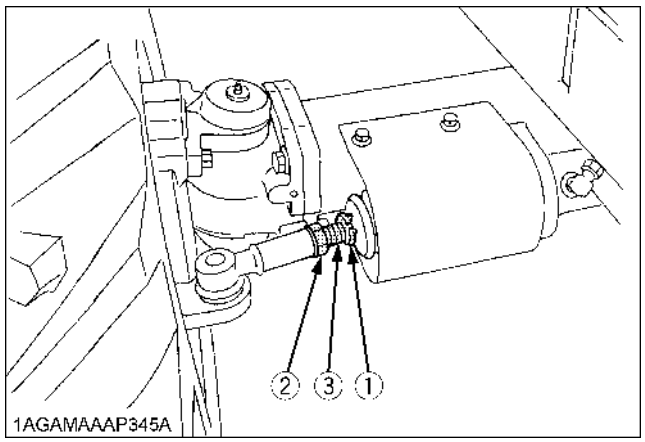
1. Park tractor on a flat place.
2. Turn steering wheel so front wheels are in the straight ahead position.
3. Lower the implement, lock the park brake and stop the engine.
4. Measure distance between tire beads at front of tire, hub height.
5. Measure distance between tire beads at rear of tire, hub height.
6. Front distance should be 2 to 8 mm less than rear distance. If not, adjust tie rod length.



(A) Wheel - to - wheel distance at rear
(B) Wheel - to - wheel distance at front
(C) "FRONT"

◆ Adjusting procedures

1. Detach the snap ring.
2. Loosen the tie-rod nut.
3. Turn the tie-rod joint to adjust the rod length until the proper toe-in measurement is obtained.
4. Retighten the tie-rod nut.
5. Attach the snap ring of the tie-rod joint.



(1) Snap ring
(2) Tie-rod nut
(3) Tie-rod joint

ENGLISH

EVERY 400 HOURS

■Changing Transmission Fluid / Replacing Hydraulic Oil Filter

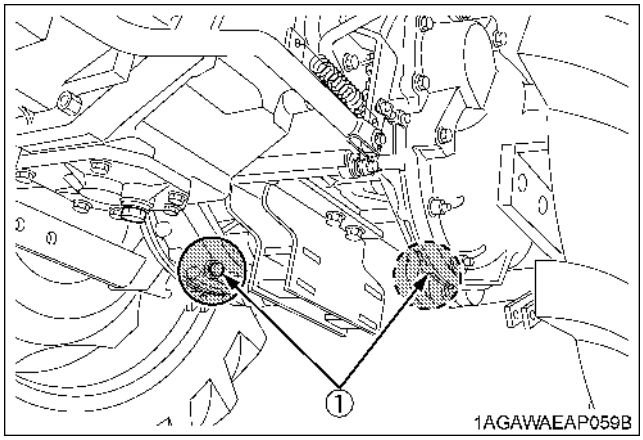
◆ **Cleaning Magnetic Filter**

CAUTION

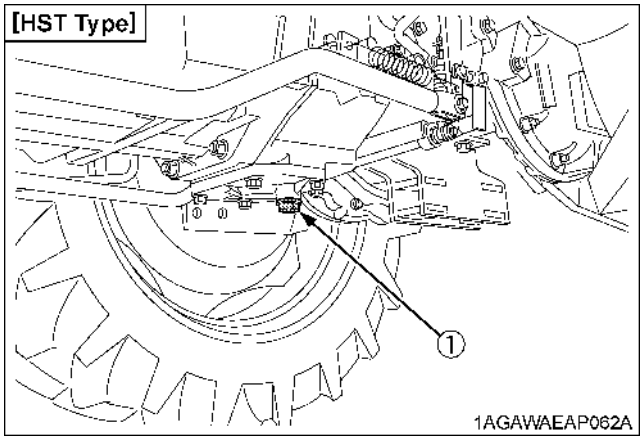
To avoid personal injury:

- **Be sure to stop the engine before changing the oil filter cartridge.**
- **Allow engine to cool down sufficiently, oil can be hot and can burn.**

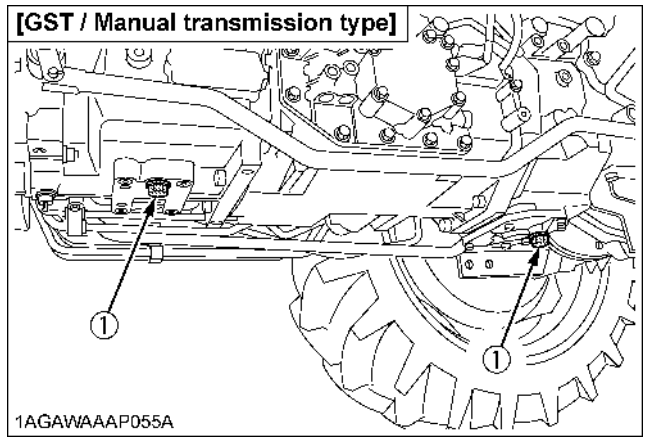
1. Remove the drain plugs at the bottom of the transmission case and drain the oil completely into the oil pan.
2. After draining reinstall the drain plugs.



(1) Drain plugs

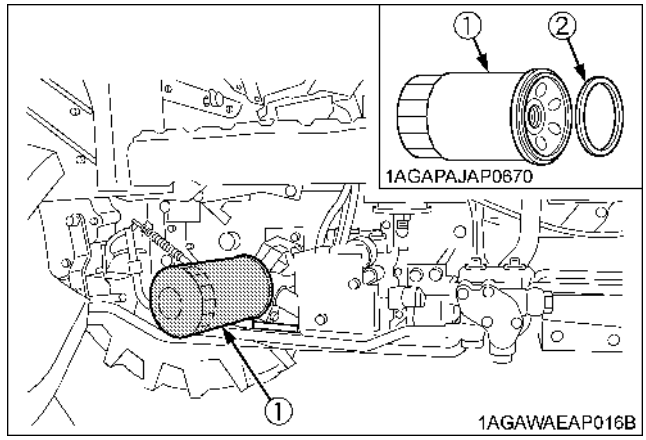


(1) Drain plug



(1) Drain plugs

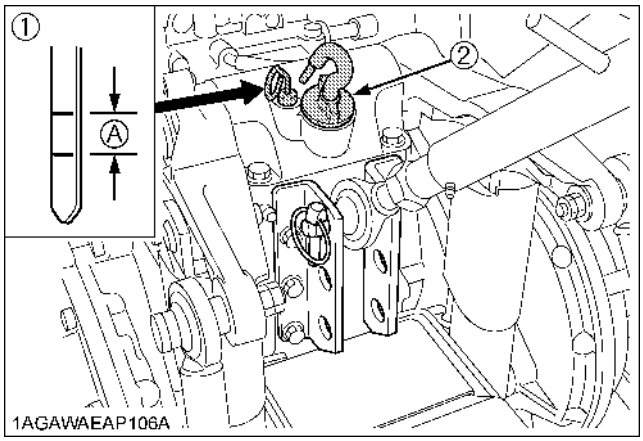
3. Remove the oil filter.
4. Wipe off metal filings from the magnetic filter with a clean rag.



(1) Hydraulic oil filter
(2) Magnetic filter (Wipe off metal filings)

5. Put a film of clean transmission oil on the rubber seal of the new filter.
6. Quickly tighten the filter until it contacts the mounting surface, then tighten it by hand an additional 1/2 turn only.
7. Fill with the new KUBOTA SUPER UDT fluid up to the upper notch on the dipstick.
   (See "LUBRICANTS" in "MAINTENANCE" section.)

Oil Capacity	L3540	42 L
	L4240	43 L
	L5040, L5240, L5740	45 L



(1) Gauge (A) Oil level is acceptable within this range.
(2) Oil inlet

8. After running the engine for a few minutes, stop the engine and check the oil level again, add oil to the prescribed level.
9. 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 at medium speed for a few minutes to prevent damage to the transmission.

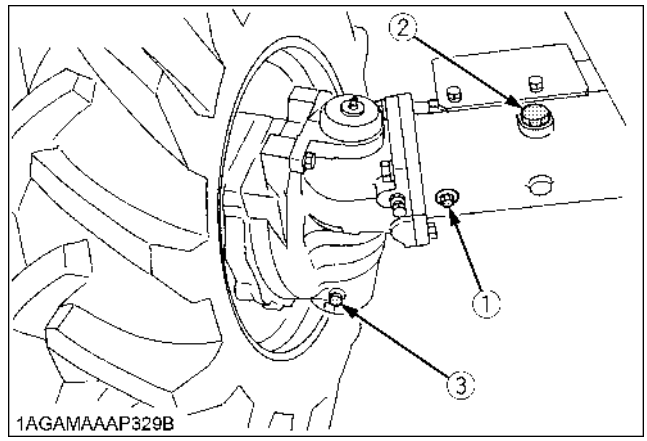
■Replacing Fuel Filter Element

(See "Cleaning Fuel Filter" in "EVERY 100 HOURS" in "PERIODIC SERVICE" section.)

■Changing Front Axle Case Oil

1. To drain the used oil, remove the right and left drain plugs and filling plug at the front axle case and let out the oil completely into the oil pan.
2. After draining, reinstall the drain plugs.
3. Gently pour new oil through the filling port. Required oil quantities are written in the table below. Make sure to pour the specified amounts. If oil overflows before pouring any of the specified amounts, wait a couple of minutes and try again.
   (See "LUBRICANTS" in "MAINTENANCE" section.)
4. After filling, reinstall the filling plug.
5. Run the vehicle a few minutes in order for the oil to flow through the font axle case.
6. Remove the oil level check plug and check to see if the oil flows out of its port. If not, add the oil through the filling port until it flows out of the oil level check port.
7. Reinstall and tighten the oil level check plug and filling plug.

Oil capacity	L3540, L4240	6.5 L
	L5040, L5240, L5740	6.0 L



(1) Check plug
(2) Filling plug
(3) Drain plug

ENGLISH

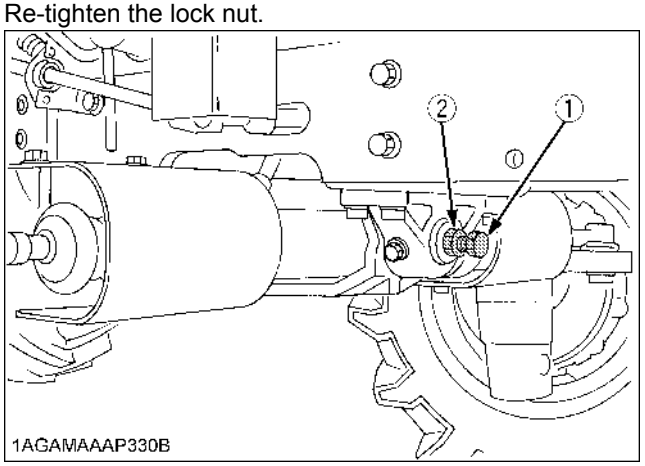
EVERY 600 HOURS

■Adjusting Front Axle Pivot

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

◆ **Adjusting procedure**

Loosen the lock nut, screw-in the adjusting screw until seated, then tighten the screw with an additional 1/6 turn. Re-tighten the lock nut.



(1) Adjusting screw
(2) Lock nut

EVERY 800 HOURS

■Adjusting Engine Valve Clearance

Consult your local KUBOTA Dealer for this service.

EVERY 1500 HOURS

■Checking Fuel Injection Nozzle Injection Pressure

Consult your local KUBOTA Dealer for this service.

EVERY 3000 HOURS

■Checking Turbocharger

[L5040, L5240, L5740]

Consult your local KUBOTA Dealer for this service.

■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.)

EVERY 2 YEARS

■Flushing Cooling System and Changing Coolant

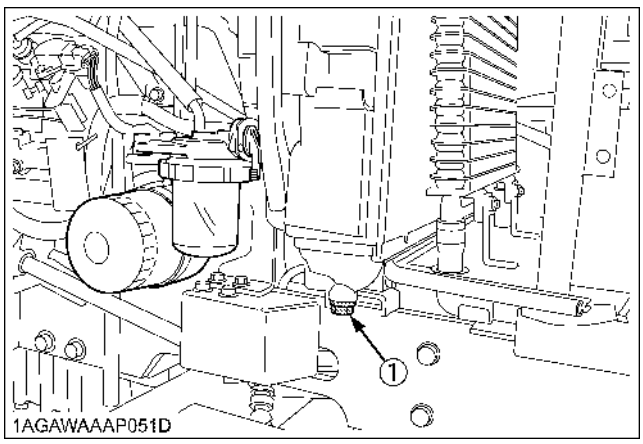
CAUTION

To avoid personal injury:

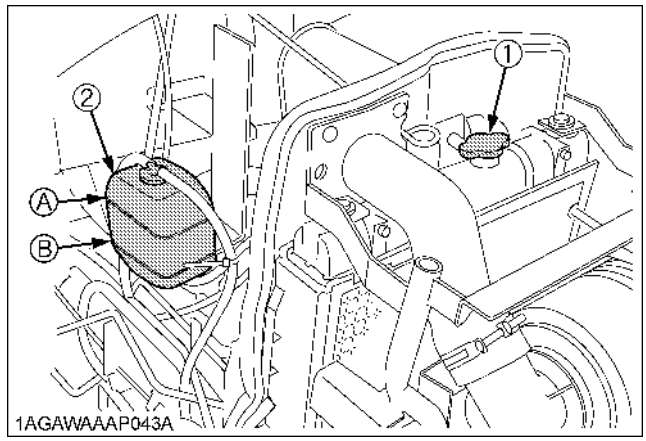
- **Do not remove radiator cap while coolant is hot. When cool, slowly rotate cap to the first stop and allow sufficient time for excess pressure to escape before removing the cap completely.**

1. Stop the engine and let cool down.
2. To drain the coolant, open the radiator drain plug and remove radiator cap. The radiator cap must be removed to completely drain the coolant.
3. After all coolant is drained, close the drain plug.
4. Fill with clean soft water and cooling system cleaner.
5. Follow directions of the cleaner instruction.
6. After flushing, fill with clean soft water and anti-freeze until the coolant level is just below the radiator cap. Install the radiator cap securely.
7. Fill with coolant up to the "FULL" mark on the recovery tank.
8. Start and operate the engine for few minutes.
9. Stop the engine and let cool.
10. Check coolant level of recovery tank and add coolant if necessary.

Coolant capacity	L3540, L4240	7.5 L
	L5040, L5240, L5740	8.2 L



(1) Drain plug



(1) Radiator cap
(2) Recovery tank
(A) "FULL"
(B) "LOW"

IMPORTANT :

- Do not start engine without coolant.
- Use clean, fresh soft water and anti-freeze to fill the radiator 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 loose or improperly fitted, water may leak out and the engine could overheat.

NOTE :

- On cab type machines, coolant circulates through the heater. This means that one more liter or so of coolant is required.
  In changing coolant, pour coolant up to the filler port of the recovery tank. Turn ON the heater (shift the temperature control dial toward WARM), and run the engine for a while in order to warm coolant. Then stop the engine.
  When coolant has cooled down, some of the coolant in the recovery tank is sucked. Now the recovery tank is appropriately filled with coolant.

■Anti-Freeze

CAUTION

To avoid personal injury:

- **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 it off immediately.**
- **Do not mix different types of Antifreeze. 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 underneath 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 coolant and clean soft water in KUBOTA engines.
Consult your local KUBOTA Dealer concerning coolant for extreme conditions.

1. Long-life coolant (hereafter LLC) comes in several types. Use ethylene glycol (EG) type for this engine.
2. Before employing LLC-mixed cooling water, fill the radiator with fresh water and empty it again.
   Repeat this procedure 2 or 3 times to clean up the inside.
3. Mixing the LLC
   Premix 50% LLC with 50% clean soft water. When mixing, stir it up well, and then fill into the radiator.
4. 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 % Anti-freeze	Freezing Point	Boiling Point*
	℃	℃
50	-37	108

∗ At 1.013 x 10^5Pa (760mmHg) pressure (atmospheric). A higher boiling point is obtained by using a radiator pressure cap which permits the development of pressure within the cooling system.

5. Adding the LLC
   (1) Add 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.)
6. When the LLC is mixed, do not employ any radiator cleaning agent. The LLC contains anticorrosive agent. If mixed with the cleaning agent, sludge may build up, adversely affecting the engine parts.
7. Kubota's genuine long-life coolant has a service life of 2 years. Be sure to change the coolant every 2 years.

NOTE :

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

■Replacing Radiator Hose (Water pipes)
Replace the hoses and clamps.
(See "Checking Radiator Hose and Clamp" in "EVERY 200 HOURS" in "PERIODIC SERVICE" section.)

■Replacing Power Steering Hose
Consult your local KUBOTA Dealer for this service.

■Replacing HST Oil Line [HST Type]
Consult your local KUBOTA Dealer for this service.

■Replacing Fuel Hose
Consult your local KUBOTA Dealer for this service.

■Replacing Intake Air Line
Consult your local KUBOTA Dealer for this service.

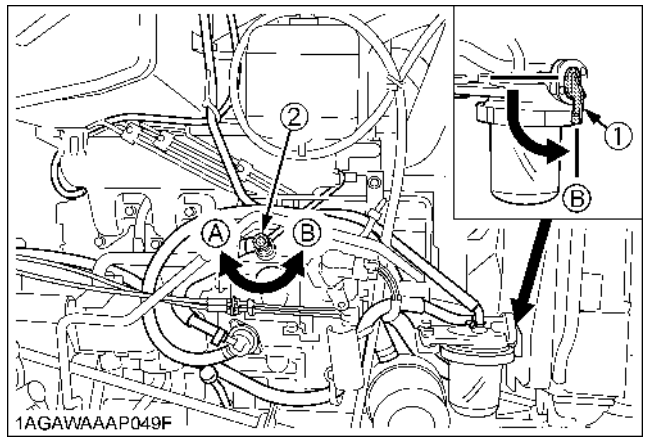
■Replacing Lift Cylinder Hose
Consult your local KUBOTA Dealer for this service.

■Replacing Parking Brake Cable
Replace the cable.
(See "Adjusting Parking Brake Lever" in "EVERY 100 HOURS" in "PERIODIC SERVICE" section.)

SERVICE AS REQUIRED

■Bleeding Fuel System
Air must be removed:
1. When the fuel filter or lines are removed.
2. When tank is completely empty.
3. After the tractor has not been used for a long period of time.

◆ **Bleeding procedure is as follows:**
1. Fill the fuel tank with fuel, and open the fuel cock.



(1) Fuel cock *(A) "CLOSE"*
(2) Air vent cock *(B) "OPEN"*

2. Open the air vent cock on the fuel injection pump.
3. Start the engine and run for about 30 seconds, and then stop the engine.
4. Close the air vent cock.

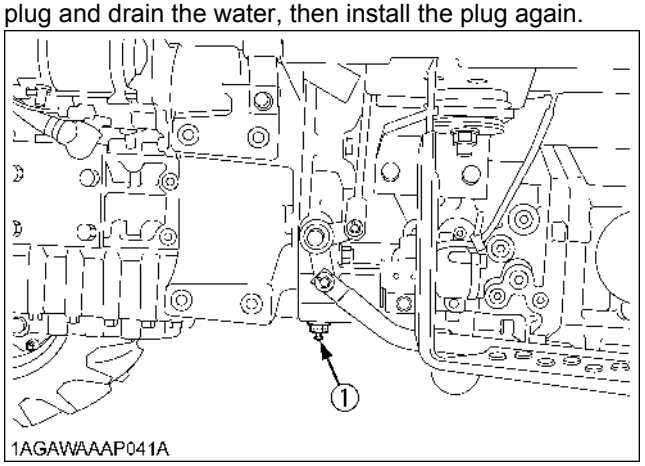
IMPORTANT :
- Always close the air vent cock except for bleeding fuel lines.
  Otherwise, engine runs irregularly or stalls frequently.

■Draining Clutch Housing Water

The tractor is equipped with split pin plug under the clutch housing.

After operating in rain, snow or tractor has been washed, water may get into the clutch housing. Check it by pushing in the split pin.

If water has entered into the clutch housing, remove the plug and drain the water, then install the plug again.



(1) Split pin plug

■Replacing Fuse

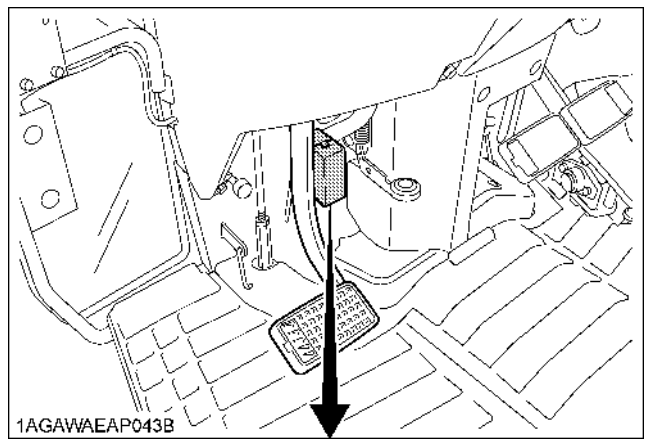
The tractor electrical system is protected from potential damage by fuses.

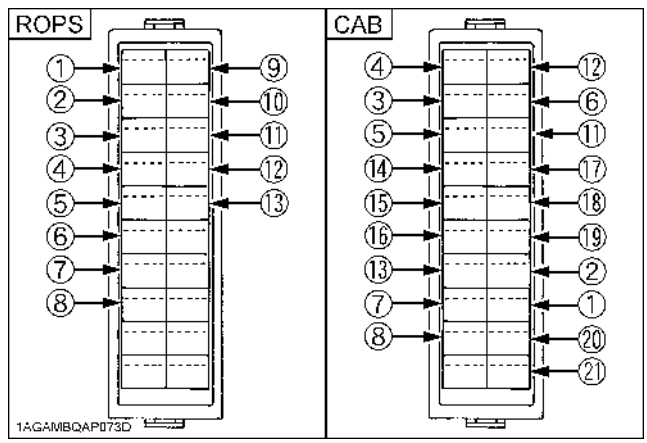
A blown fuse indicates that there is an overload or short somewhere in the electrical system.

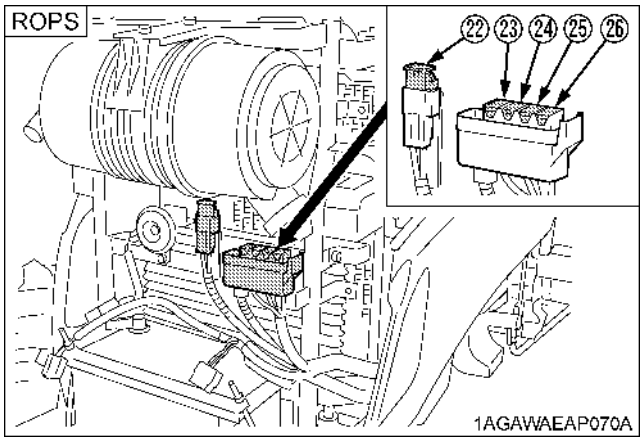
If any of the fuses should blow, replace with a new one of the same capacity.

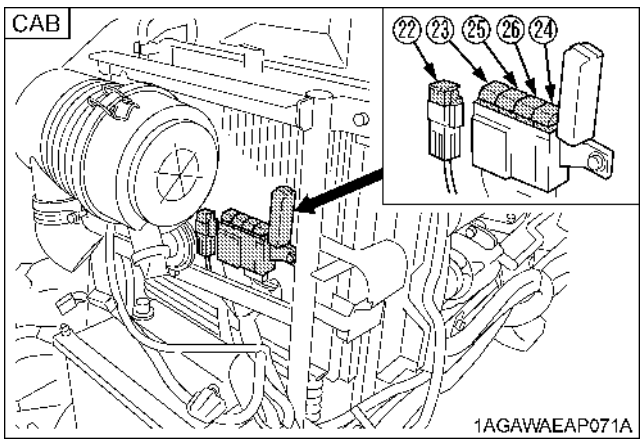
IMPORTANT :

- Before replacing a blown fuse, determine why the fuse blew and make any necessary repairs. Failure to follow this procedure may result in serious damage to the tractor electrical system. Refer to the "TROUBLESHOOTING" section of this manual or your local KUBOTA Dealer for specific information dealing with electrical problems.









◆ **Protected circuit**

Fuse No.	Capacity (A)	Protected circuit	ROPS	CAB
(1)	25	Head light	O	O
(2)	20	Flasher	O	O
(3)	20	Hazard	O	O
(4)	5	Panel	O	O
(5)	5	T/M controller 1 [GST/HST type]	O	O
(6)	7.5	Alternator	O	O
(7)	5	Lamp relay	O	O
(8)	10	Patrol lamp	---	O
(9)	7.5	Work light	O	---
(10)	5	Brake lamp switch	O	---
(11)	10	T/M controller 2 [GST/HST type], OPC[MT type]	O	O
(12)	5	Key stop	O	O
(13)	30	Starter relay	O	O
(14)	10	Dome lamp	---	O
(15)	20	Aircon blower	---	O
(16)	10	Radio cassette	---	O
(17)	20	Cigar lighter	---	O
(18)	7.5	Aircon compressor	---	O
(19)	30	Wiper	---	O
(20)	15	Work light	---	O
(21)	30	Defogger	---	O
(22)	45	Head light	O	O
(23)	60	Main	O	---
	80		---	O
(24)	30	Key stop	O	O
(25)	50	Alternator	O	---
	60		---	O
(26)	40	Glow	O	---
	50		---	O

■Replacing Light Bulb

Light	Capacity	
	ROPS	CAB
Head light	45W / 40W	
Tail light	10W	
Hazard and Turn signal light (rear)	21W	
Hazard and Turn signal light (front)	21W	
Side marker light	5W	
Room light	---	10W
Work light	---	35W
Instrument panel light	1.1W	
Brake stop light	21W	
Number plate light	10W	

STORAGE

CAUTION

To avoid personal injury:

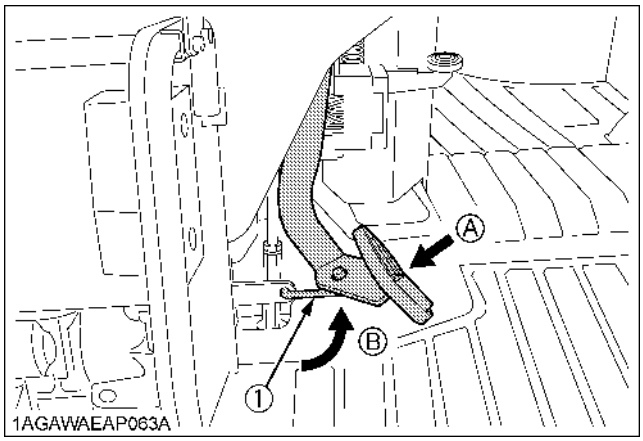
- **Do not clean the machine while the engine is running.**
- **To avoid the danger of exhaust fume poisoning, do not operate the engine in a closed building without proper ventilation.**
- **When storing, remove the key from the key switch to avoid unauthorized persons from operating the tractor and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

1. Check the bolts and nuts for looseness, and tighten if necessary.
2. Apply grease to tractor areas where bare metal will rust also to pivot areas.
3. Detach the weights from the tractor body.
4. Inflate the tires to a pressure a little higher than usual.
5. Change the engine oil and run the engine to circulate oil throughout the engine block and internal moving parts for about 5 minutes.
6. Keep the clutch disengaged. If the clutch is left engaged for a long period of time, the clutch plate may rust, making clutch disengagement impossible at the next operation.



(1) Lock plate
(A) "DEPRESS"
(B) "HOOK TO LOCK"

7. With all implements lowered to the ground, coat any exposed hydraulic cylinder piston rods with grease.
8. Remove the battery from the tractor. Store the battery following the battery storage procedures.
   (See "Checking Battery Condition" in "EVERY 100 HOURS" in "PERIODIC SERVICE" section.)
9. Keep the tractor in a dry place where the tractor is sheltered from the elements. Cover the tractor.
10. 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 axles 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 cool before washing.
- Cover the tractor after the muffler and the engine have cooled down.

REMOVING THE TRACTOR FROM STORAGE

1. Check the tire air pressure and inflate the tires if they are low.
2. Jack the tractor up and remove the support blocks from under the front and rear axles.
3. Install the battery. Before installing the battery, be sure it is fully charged.
4. Check the fan belt tension.
5. Check all fluid levels (engine oil, transmission/ hydraulic oil, 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 looking for evidence of oil or water leaks.
7. 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

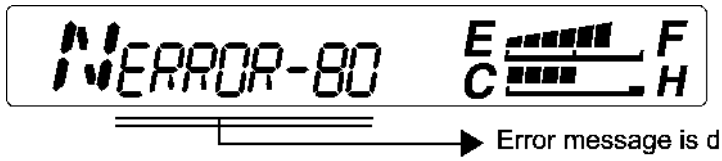
ENGINE TROUBLESHOOTING

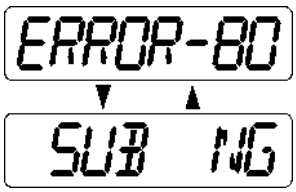
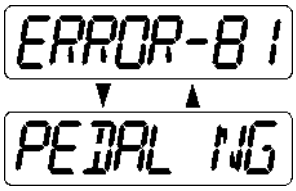
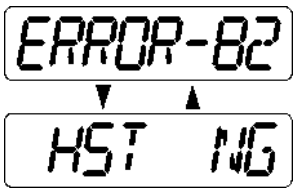
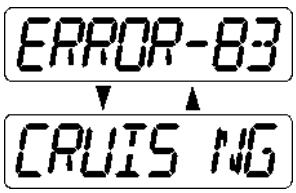
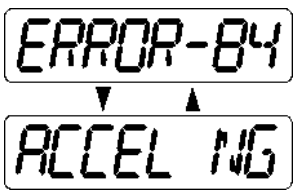
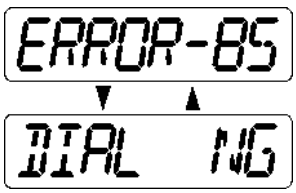
If something is wrong with the engine, refer to the table below for the cause and its corrective measure.

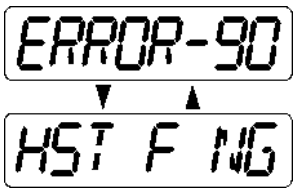
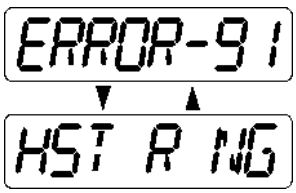
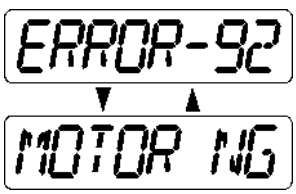
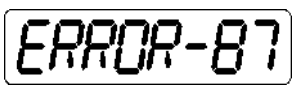
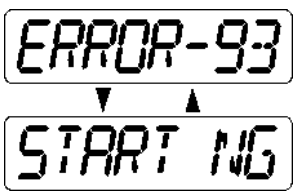
Trouble		Cause	Countermeasure
Engine is difficult to start or won't start.		● No fuel flow.	● Check the fuel tank and the fuel filter. Replace filter if necessary.
		● Air or water is in the fuel system.	● Check to see if the fuel line coupler bolt and nut are tight. ● Bleed the fuel system (See "Bleeding Fuel System" in "SERVICE AS REQUIRED" in "PERIODIC SERVICE" section.)
		● In winter, oil viscosity increases, and engine revolution is slow.	● Use oils of different viscosities, depending on ambient temperatures. ● Use engine block heater. (Option)
		● Battery becomes weak and the engine does not turn over quick enough.	● Clean battery cables & terminals. ● Charge the battery. ● In cold weather, always remove the battery from the engine, charge and store it indoors. Install it on the tractor only when the tractor is going to be used.
Insufficient engine power.		● Insufficient or dirty 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 fumes are colored.	Black	● Fuel quality is poor. ● Too much oil. ● The air cleaner is clogged.	● Change the fuel and fuel filter. ● Check the proper amount of oil. ● Clean or replace the element.
	Blue white	● The inside of exhaust muffler is dumped with fuel. ● 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 overheats		● Engine overloaded	● Shift to lower gear or reduce load.
		● Low coolant level	● Fill cooling system to the correct level; check radiator and hoses for loose connections or leaks.
		● Loose or defective fan belt	● Adjust or replace fan belt.
		● Dirty radiator core or grille screens	● Remove all trash.
		● Coolant flow route corroded	● Flush cooling system.

If you have any questions, consult your local KUBOTA Dealer.

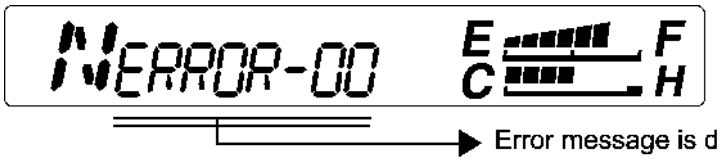
HST (Hydrostatic Transmission) TROUBLESHOOTING

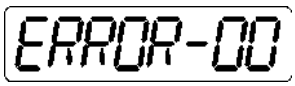
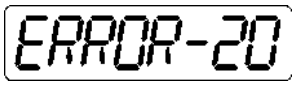
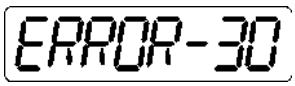
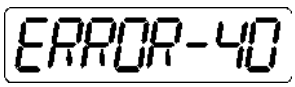
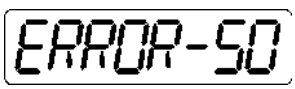
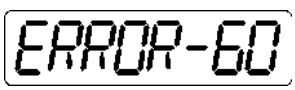
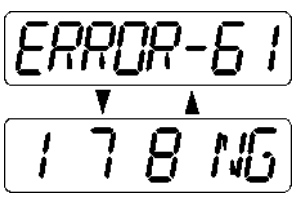
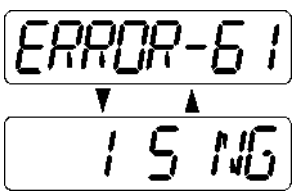
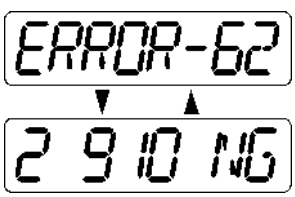


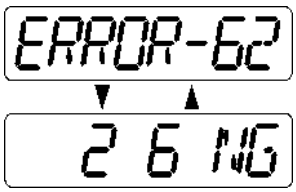
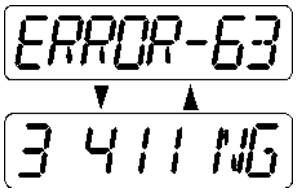
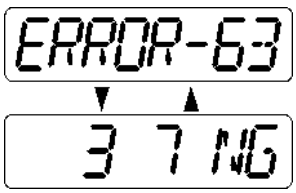
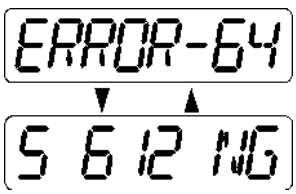
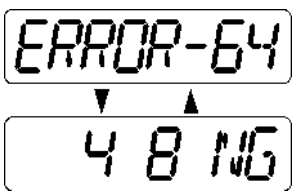
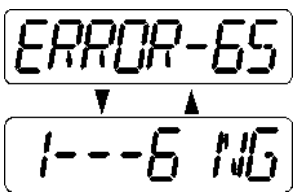
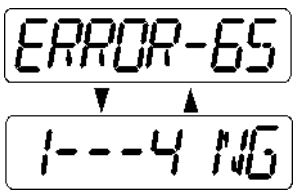
Display on LCD Screen	Trouble Item (Affected Model)	Operator's action
	Sensor for range gear shift lever is in trouble	Contact your local KUBOTA Dealer. The speed range (H, M and L) is not displayed in the LCD screen. The range gear shift lever still works to select the H, M and L speeds. In selecting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

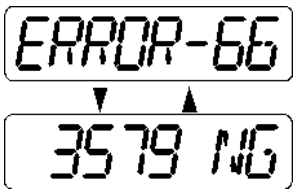
Display on LCD Screen	Trouble Item (Affected Model)	Operator's action
	Proportional valve for forward is in trouble	Contact your local KUBOTA Dealer. The tractor cannot travel forward (backward only).
	Proportional valve for reverse is in trouble	Contact your local KUBOTA Dealer. The tractor cannot travel backward (forward only).
	Motor for Hi-Lo shift is in trouble	Contact your local KUBOTA Dealer. Using the H-DS lever, the Lo speed alone can be selected (Hi speed not selectable). Using the HST mode select switch, only the STALL GUARD and MANUAL modes can be selected.
	Sensor for engine revolution is in trouble	Contact your local KUBOTA Dealer. With the STALL GUARD or AUTO H-DS/STALL GUARD mode being selected, the tractor automatically gets in the MANUAL mode.
	Relay for engine starter motor is in trouble	Contact your local KUBOTA Dealer. The engine cannot start.

GST (Glide Shift Transmission)
TROUBLESHOOTING



Display on LCD Screen	Trouble Item (Affected Model)	Operator's action
	IntelliPanel(TM)'s memory device is in trouble	Contact your local KUBOTA Dealer.
	Communication error between ECU and IntelliPanel(TM)	Contact your local KUBOTA Dealer.
	ECU's memory device is in trouble	Contact your local KUBOTA Dealer.
	Input voltage of lever sensor from ECU is in trouble	Contact your local KUBOTA Dealer.
	GST lever sensor is in trouble	Contact your local KUBOTA Dealer.
	Proportional valve is in trouble	Contact your local KUBOTA Dealer.
	Solenoid 1 is in trouble (At forward or neutral)	If the shift solenoid gets in trouble, the gearshift lever remains at the same position but the real speed is automatically changed to an operable speed range or neutral. Such a self-changed speed range will be displayed on the panel. Take note of what is displayed and then contact your dealer.
	Solenoid 1 is in trouble (At reverse)	If the shift solenoid gets in trouble, the gearshift lever remains at the same position but the real speed is automatically changed to an operable speed range or neutral. Such a self-changed speed range will be displayed on the panel. Take note of what is displayed and then contact your dealer.
	Solenoid 2 is in trouble (At forward or neutral)	If the shift solenoid gets in trouble, the gearshift lever remains at the same position but the real speed is automatically changed to an operable speed range or neutral. Such a self-changed speed range will be displayed on the panel. Take note of what is displayed and then contact your dealer.

Display on LCD Screen	Trouble Item (Affected Model)	Operator's action
	Solenoid 2 is in trouble (At reverse)	If the shift solenoid gets in trouble, the gearshift lever remains at the same position but the real speed is automatically changed to an operable speed range or neutral. Such a self-changed speed range will be displayed on the panel. Take note of what is displayed and then contact your dealer.
	Solenoid 3 is in trouble (At forward or neutral)	If the shift solenoid gets in trouble, the gearshift lever remains at the same position but the real speed is automatically changed to an operable speed range or neutral. Such a self-changed speed range will be displayed on the panel. Take note of what is displayed and then contact your dealer.
	Solenoid 3 is in trouble (At reverse)	If the shift solenoid gets in trouble, the gearshift lever remains at the same position but the real speed is automatically changed to an operable speed range or neutral. Such a self-changed speed range will be displayed on the panel. Take note of what is displayed and then contact your dealer.
	Solenoid 4 is in trouble (At forward or neutral)	If the shift solenoid gets in trouble, the gearshift lever remains at the same position but the real speed is automatically changed to an operable speed range or neutral. Such a self-changed speed range will be displayed on the panel. Take note of what is displayed and then contact your dealer.
	Solenoid 4 is in trouble (At reverse)	If the shift solenoid gets in trouble, the gearshift lever remains at the same position but the real speed is automatically changed to an operable speed range or neutral. Such a self-changed speed range will be displayed on the panel. Take note of what is displayed and then contact your dealer.
	Solenoid 5 (Hi-Lo) is in trouble (At forward or neutral)	If the shift solenoid gets in trouble, the gearshift lever remains at the same position but the real speed is automatically changed to an operable speed range or neutral. Such a self-changed speed range will be displayed on the panel. Take note of what is displayed and then contact your dealer.
	Solenoid 5 (Hi-Lo) is in trouble (At reverse)	If the shift solenoid gets in trouble, the gearshift lever remains at the same position but the real speed is automatically changed to an operable speed range or neutral. Such a self-changed speed range will be displayed on the panel. Take note of what is displayed and then contact your dealer.

Display on LCD Screen	Trouble Item (Affected Model)	Operator's action
	Solenoid 6 (H-L) is in trouble	If the shift solenoid gets in trouble, the gearshift lever remains at the same position but the real speed is automatically changed to an operable speed range or neutral. Such a self-changed speed range will be displayed on the panel. Take note of what is displayed and then contact your dealer.

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OPTIONS

Consult your local KUBOTA Dealer for further detail.

- Work Light
  High visibility for night work
- Double Acting Remote Hydraulic Control Valve
- Single Acting Remote Hydraulic Control Valve
- Draft Control
- Front end weights
  For front ballast
- Rear Wheel Weights
  For rear ballast

APPENDICES

MAXIMUM MASSES

■Maximum Permissible Load of The Tire

◆ L5740*-*, L5240*-*, L5040*-*

Tire combination 1. kg

	Front tire	Rear tire	Technically permissible maximum laden mass	Tractor payload
Tire size	9.5-16	13.6-28	-	-
Maximum permissible load of the tire	725	1355	-	-
Maximum axle load	1450	2710	4160	2165-2355
Minimum limit percentages	34.9%	65.1%	100%	-

Tire combination 2. kg

	Front tire	Rear tire	Technically permissible maximum laden mass	Tractor payload
Tire size	29x12.00-15	475/65-D20	-	-
Maximum permissible load of the tire	680	1180	-	-
Maximum axle load	1360	2360	3720	1795-1985
Minimum limit percentages	36.6%	63.4%	100%	-

Tire combination 3. kg

	Front tire	Rear tire	Technically permissible maximum laden mass	Tractor payload
Tire size	280/70R16	440/65R24	-	-
Maximum permissible load of the tire	940	1395	-	-
Maximum axle load	1450	2710	4160	2120-2310
Minimum limit percentages	34.9%	65.1%	100%	-

◆ L4240*-*

Tire combination 1. kg

	Front tire	Rear tire	Technically permissible maximum laden mass	Tractor payload
Tire size	7-16	12.4-24	-	-
Maximum permissible load of the tire	405	880	-	-
Maximum axle load	810	1760	2570	780-955
Minimum limit percentages	31.5%	68.5%	100%	-

Tire combination 2. kg

	Front tire	Rear tire	Technically permissible maximum laden mass	Tractor payload
Tire size	8-16	13.6-24	-	-
Maximum permissible load of the tire	475	1030	-	-
Maximum axle load	950	2060	3010	1200-1375
Minimum limit percentages	31.6%	68.4%	100%	-

Tire combination 3. kg

	Front tire	Rear tire	Technically permissible maximum laden mass	Tractor payload
Tire size	8-16	13.6-26	-	-
Maximum permissible load of the tire	475	1060	-	-
Maximum axle load	950	2120	3070	1250-1425
Minimum limit percentages	30.9%	69.1%	100%	-

Tire combination 4. kg

	Front tire	Rear tire	Technically permissible maximum laden mass	Tractor payload
Tire size	212/80-D15	355/80-D20	-	-
Maximum permissible load of the tire	435	825	-	-
Maximum axle load	870	1650	2520	750-925
Minimum limit percentages	34.5%	65.5%	100%	-

Tire combination 5.

kg

	Front tire	Rear tire	Technically permissible maximum laden mass	Tractor payload
Tire size	29x12.00-15	475/65-D20	-	-
Maximum permissible load of the tire	680	1180	-	-
Maximum axle load	1360	2140	3500	1690-1865
Minimum limit percentages	38.9%	61.1%	100%	-

Tire combination 6.

kg

	Front tire	Rear tire	Technically permissible maximum laden mass	Tractor payload
Tire size	260/70R16	440/65R24	-	-
Maximum permissible load of the tire	870	1395	-	-
Maximum axle load	1360	2140	3500	1580-1755
Minimum limit percentages	38.9%	61.1%	100%	-

◆ L3540*-*

Tire combination 1. kg

	Front tire	Rear tire	Technically permissible maximum laden mass	Tractor payload
Tire size	7-16	11.2-24	-	-
Maximum permissible load of the tire	405	845	-	-
Maximum axle load	810	1690	2500	965-985
Minimum limit percentages	32.4%	67.6%	100%	-

Tire combination 2. kg

	Front tire	Rear tire	Technically permissible maximum laden mass	Tractor payload
Tire size	7-16	12.4-24	-	-
Maximum permissible load of the tire	405	880	-	-
Maximum axle load	810	1760	2570	1005-1025
Minimum limit percentages	31.5%	68.5%	100%	-

Tire combination 3. kg

	Front tire	Rear tire	Technically permissible maximum laden mass	Tractor payload
Tire size	212/80-D15	355/80-D20	-	-
Maximum permissible load of the tire	435	825	-	-
Maximum axle load	870	1650	2520	970-990
Minimum limit percentages	34.5%	65.5%	100%	-

Tire combination 4. kg

	Front tire	Rear tire	Technically permissible maximum laden mass	Tractor payload
Tire size	260/70R16	360/70R24	-	-
Maximum permissible load of the tire	870	1170	-	-
Maximum axle load	810	1760	2570	955-975
Minimum limit percentages	31.5%	68.5%	100%	-

■Trailer Load Capacity

kg

L5740*-* L5240*-* L5040*-*	Permissible towable masses	Total technically permissible mass of the tractor-trailer combination
Unbraked towable mass	3000	7160
Independently braked towable mass	3000	7160
Inertia-braked towable mass	6000	10160
Towable mass when fitted with hydraulic or pneumatic braking	-	-

kg

L4240*-*	Permissible towable masses	Total technically permissible mass of the tractor-trailer combination
Unbraked towable mass	3000	6500
Independently braked towable mass	3000	6500
Inertia-braked towable mass	6000	9500
Towable mass when fitted with hydraulic or pneumatic braking	-	-

kg

L3540*-*	Permissible towable masses	Total technically permissible mass of the tractor-trailer combination
Unbraked towable mass	3000	5570
Independently braked towable mass	3000	5570
Inertia-braked towable mass	6000	8570
Towable mass when fitted with hydraulic or pneumatic braking	-	-

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