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KUBOTA Corporation

English (Oceania)
Code No. TC437-5971-1

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OPERATOR'S MANUAL

KUBOTA TRACTOR

MODEL L4600



1AGAPBYAP0010

READ AND SAVE THIS MANUAL

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 of Testing and Materials, USA
DIN	Deutsches 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
r/s	Revolutions Per Second
SAE	Society of Automotive Engineers, USA
SMV	Slow Moving Vehicle

KUBOTA Corporation is ...

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

To achieve this status, the company has through the years diversified the range of its products and services to a remarkable extent. Nineteen plants and 16,000 employees produce over 1,000 different items, large and small.

All these products and all the services which accompany them, however, are unified by one central commitment. KUBOTA makes products which, taken on a national scale, are basic necessities. Products which are indispensable. Products which are intended to help individuals and nations fulfill the potential inherent in their environment. KUBOTA is the Basic Necessities Giant.

This potential includes water supply, food from the soil and from the sea, industrial development, architecture and construction, and transportation.

Thousands of people depend on KUBOTA's know-how, technology, experience and customer service. You too can depend on KUBOTA.

FOREWORD


Thank you very much for choosing the L series tractor.


This operator's manual covers the operation, inspection and preventive maintenance instructions that is specific to the oceania models. For other information and instructions, refer to the separately issued operator's manual for the sister model. (L series tractor)


Please read both manuals carefully, to operate the machine properly and safely. Proper daily inspection, servicing and lubrication keeps your machine in good condition.

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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SAFE OPERATION

1. DANGER, WARNING AND CAUTION LABEL(S)

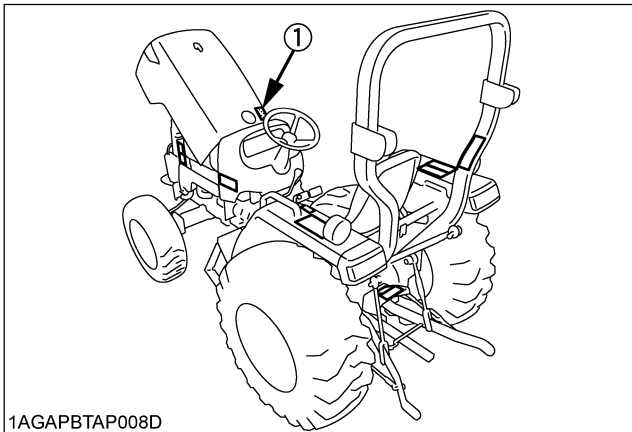
(1) Part No. TC230-4956-1

Diesel fuel only.

No fire



1AGAPAJAP068A



1AGAPBTAP008D

2. CARE OF DANGER, WARNING AND CAUTION LABEL(S)

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

SPECIFICATIONS

SPECIFICATION TABLE

Model			L4600		
			Manual Transmission	HST	
			4WD		
Engine	Model		V2203-M-E3-LB3		
	Type		Indirect injection, Vertical, Water-Cooled 4 cycle diesel		
	Number of cylinders		4		
	Total displacement	L	2.197		
	Bore and stroke	mm	87 x 92.4		
	Rated revolution	rpm	2600		
	Low idling revolution	rpm	900 - 1000		
	Net power*	kW (HP) / rpm	32.7 / 2600		
	PTO power* (factory observed)	kW (HP) / rpm	28.6 / 2600	27.4 / 2600	
	Maximum torque : Gross	N-m	143.2		
Battery capacity		12V, RC : 133min, CCA : 582A			
Capacities	Fuel tank	L	48		
	Engine crankcase (with filter)	L	7.6		
	Engine coolant	L	6.5		
	Transmission case	L	40		
Dimensions	Overall length (without 3p)		mm	3120	
	Overall width (min. tread)		mm	1585	
	Overall height (with ROPS)		mm	2330	
	Wheel base		mm	1845	
	Min. ground clearance		mm	385	
	Tread	Front	mm	1155	
Rear		mm	1180, 1200, 1300, 1450, 1545		
Weight (with ROPS)		kg	1445	1450	
Traveling system	Standard tire size	Front	8.3 - 16		
		Rear	14.9 - 24		
	Clutch		Dry type single stage		
	Steering		Hydrostatic power steering		
	Transmission		Gear shift, 8 forward and 8 reverse	Hydrostatic transmission 3 range speed	
	Braking system		Mechanical, Wet disk type		
Min. turning radius (with brake)		m	2.6		

2 SPECIFICATIONS







Model			L4600		
			Manual Transmission	HST	
			4WD		
Hydraulic unit	Hydraulic control system		Position control		
	Pump capacity	L / min	29.4		
	Three point hitch		Category 1		
	Max. lift force	At lift points	kg	1300	
		24 in. behind lift points	kg	1053	
System pressure		MPa (kgf / cm ²)	17.7 (180)		
PTO	Rear PTO		SAE 1-3/8, 6-splines		
	PTO / Engine speed	rpm	540 / 2475	540 / 2640	

NOTE: *Manufacturer's estimate The company reserves the right to change the specifications without notice.

TRAVELING SPEEDS

[Manual Transmission Type]



(At rated engine rpm)

Model			L4600
Tire size (Rear)			14.9-24
	Range gear shift lever	Main gear shift lever	km/h
Forward 	Low 	1	2.2
		2	2.8
		3	4.6
		4	6.7
	High 	1	8.0
		2	10.0
		3	16.3
		4	24.0
Reverse 	Low 	1	2.1
		2	2.7
		3	4.4
		4	6.4
	High 	1	7.7
		2	9.6
		3	15.6
		4	23.0

The company reserves the right to change the specifications without notice

[HST Type]

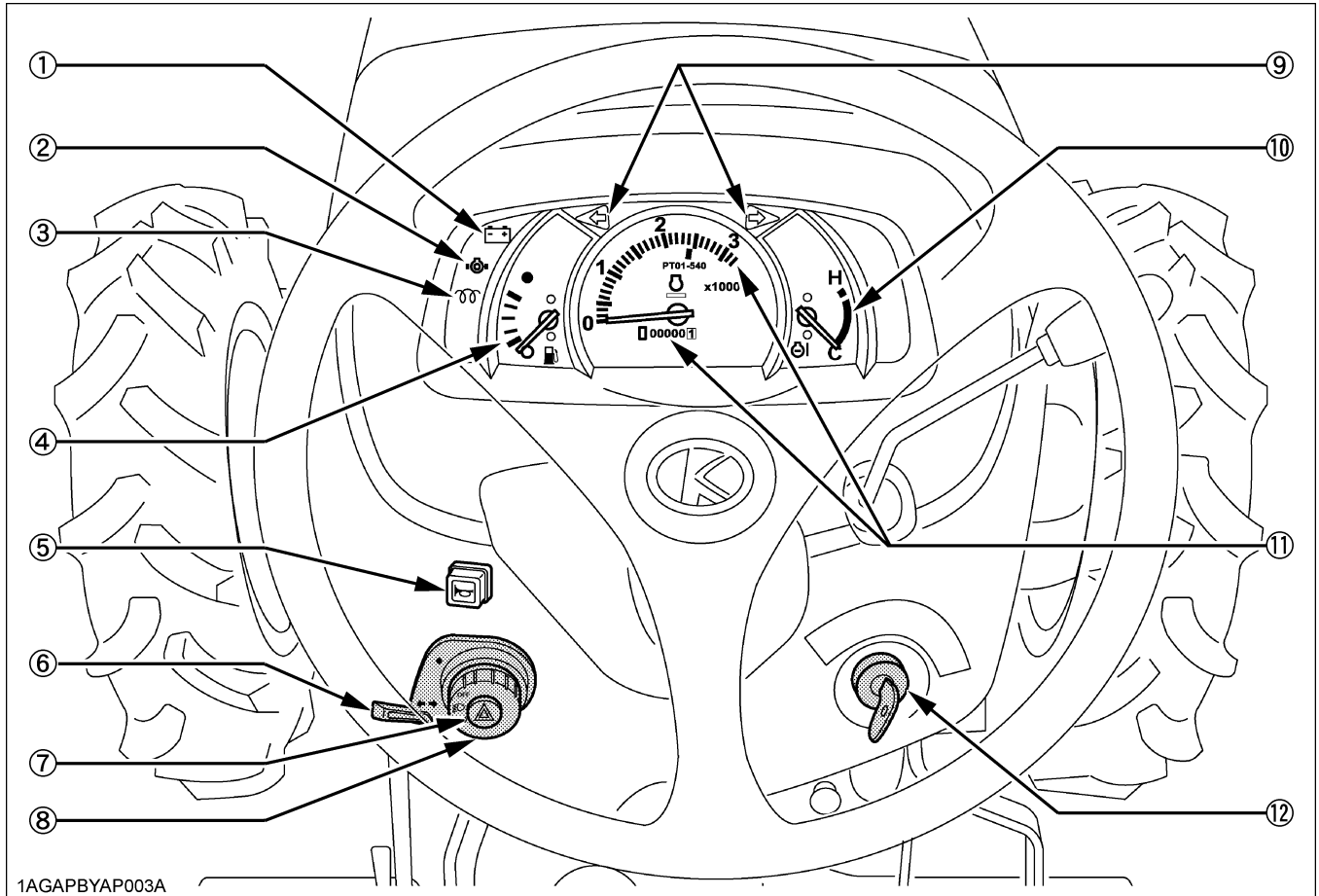
(At rated engine rpm)

Model		L4600
Tire size (Rear)		14.9-24
	Range shift lever	km/h
Forward 	L	5.9
	M	12.2
	H	25.4
Reverse 	L	5.3
	M	11.0
	H	22.9

The company reserves the right to change the specifications without notice

INSTRUMENT PANEL AND CONTROLS

■ Instrument Panel, Switches and Hand Controls



1AGAPBYAP003A

ILLUSTRATED CONTENTS

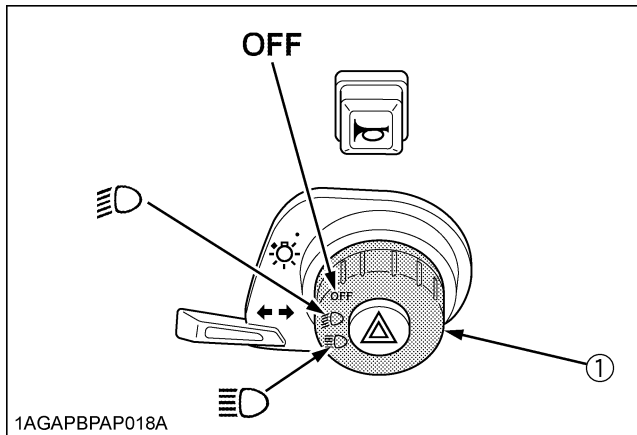
(1)	Electrical charge lamp.....	-
(2)	Engine oil pressure lamp.....	-
(3)	Glow plug indicator.....	-
(4)	Fuel gauge.....	-
(5)	Horn button.....	5
(6)	Turn signal switch.....	-
(7)	Head light switch.....	-
(8)	Hazard light switch.....	-
(9)	Turn signal / Hazard light indicator.....	-
(10)	Coolant temperature gauge.....	-
(11)	Hourmeter / Tachometer.....	-
(12)	Key switch.....	-

OPERATING THE TRACTOR



STARTING

■ Head Light Switch

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



(1) Head light switch

Light name	Switch Position		
	OFF		
Head light (Low beam)	OFF	ON	---
Head light (High beam)	OFF	---	ON
Tail light	OFF	ON	ON

■ Turn Signal / Hazard Light Switch

◆ Turn Signal Light Switch

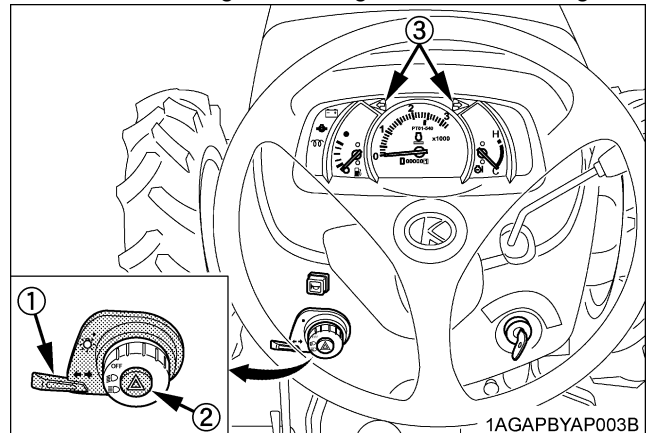
To indicate a right turn, turn the turn signal light switch clockwise. To indicate a left turn, turn the turn signal light switch counter-clockwise. The corresponding right and left turn signal lights and indicator on the instrument panel will flash. Turn signal is active when key switch is in the "ON"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

NOTE :

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

◆ Hazard Light Switch

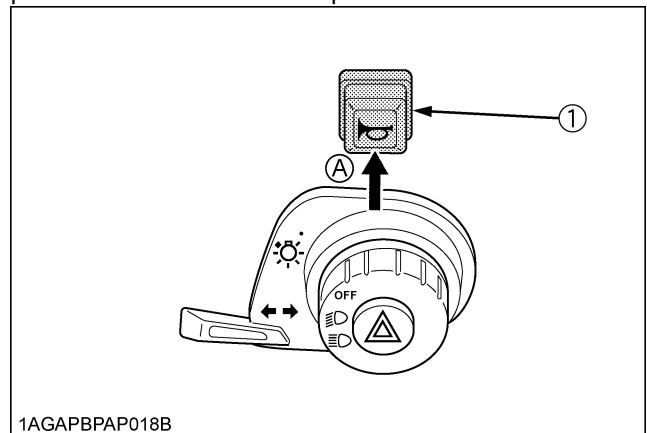
When hazard light switch is pushed, the hazard lights flash along with the indicator on the instrument panel. Press the hazard light switch again to turn off the light.



- (1) Turn signal light switch
- (2) Hazard light switch
- (3) Hazard / Turn signal indicator

■ Horn Button

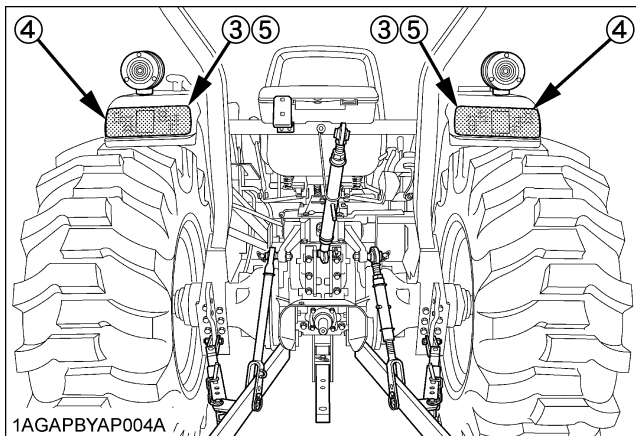
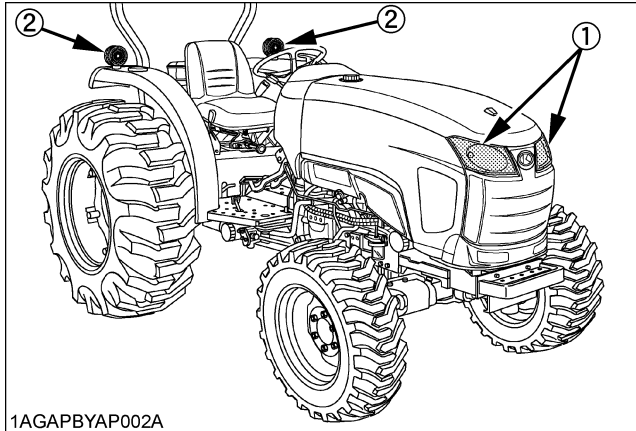
The horn will sound when the key switch is in the "ON" position and the horn button pressed.



- (1) Horn button
- (A) "PUSH"

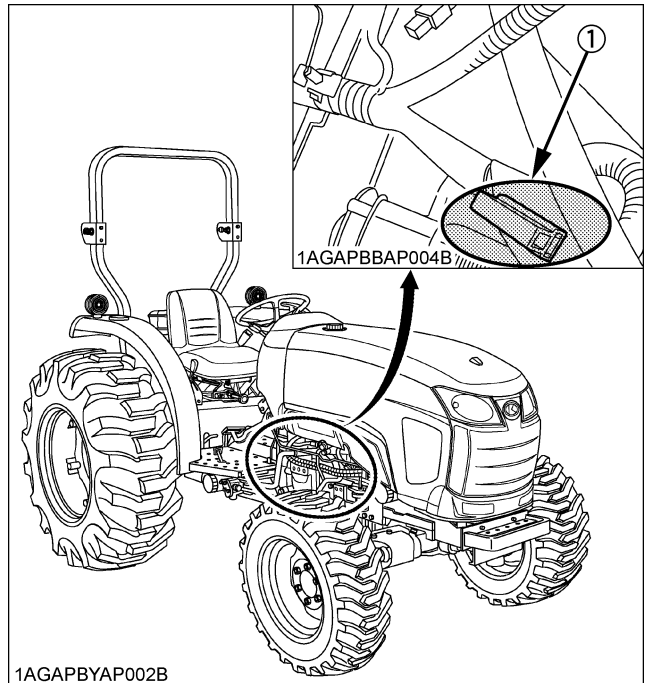
■ Tractor Lights

- (1) Head light
- (2) Side turn signal / Hazard light
- (3) Tail light
- (4) Rear turn signal / Hazard light
- (5) Brake stop light



■ Electrical Outlet

An electrical outlet is supplied for use with front loader.



(1) Front loader 3rd function solenoid valve : Green



CAUTION

To avoid personal injury:

- When using the power takeout, do not use the convex connector. When not using the power takeout, connect the convex connector.

THREE-POINT HITCH & DRAWBAR

DRAWBAR



WARNING

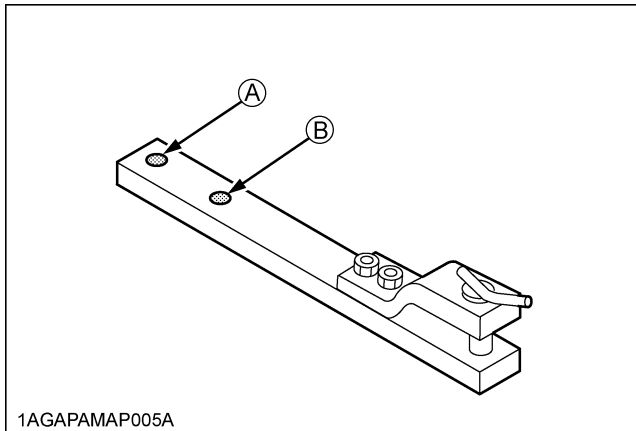
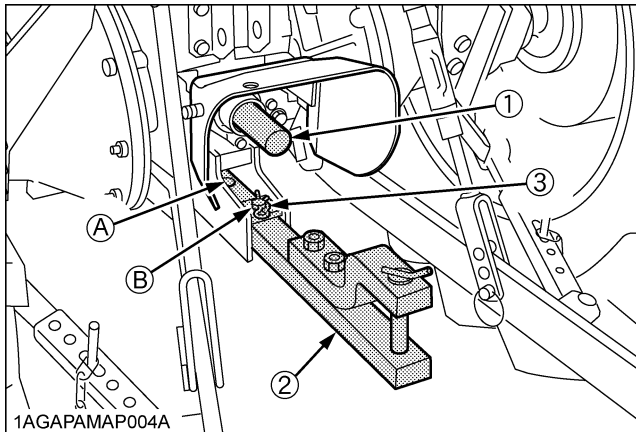
To avoid personal injury:

- 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.

■ Adjusting Drawbar Length

When towing an implement, recommend use of (B) hole in drawbar.

The drawbar load is referred to "IMPLEMENT LIMITATIONS" section of the separately issued manual.



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

Holes : (A),(B)

PERIODIC SERVICE

SERVICE AS REQUIRED

■ Replacing Fuse

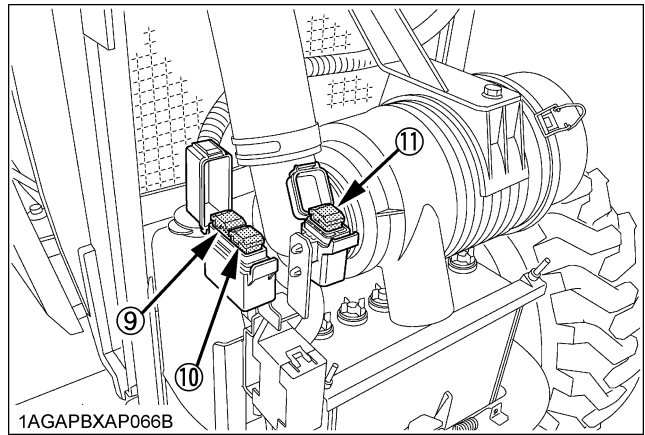
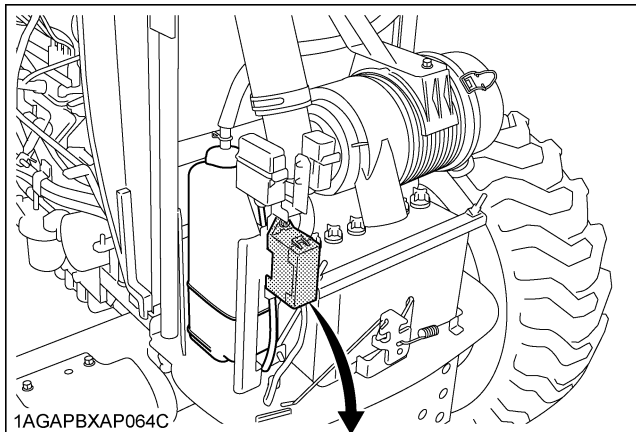
The tractor electrical system is protected from potential damage by fuses.

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

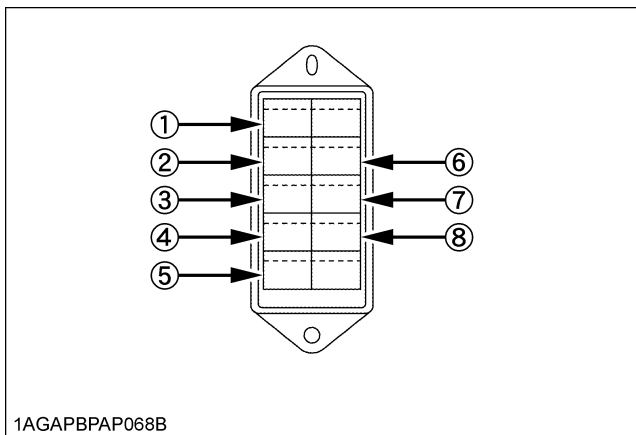
If any of the fuses should blow, replace with a new one of the same capacity.

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 the separately issued manual or your local KUBOTA Dealer for specific information dealing with electrical problems.



FUSE No.	CAPACITY(A)	Protected circuit
(1)	15	Hazard
(2)	5	Work light
(3)	5	Panel
(4)	15	Head light
(5)	5	OPC CONTROLLER
(6)	5	Glow lamp
(7)	10	Brake lamp
(8)	10	Electrical outlet
(9)	50	Main
(10)	40	Key stop
(11)	40	Key switch



■ Replacing Light Bulb

1. Head light and rear combination lights :
Take the bulb out of the light body and replace with a new one.
2. Other lights :
Detach the lens and replace the bulb.

Light	Capacity
Head light	25 W / 25 W
Tail light	5 W
Turn signal / Hazard light (rear)	21 W
Turn signal / Hazard light (front)	23 W
Instrument panel light	1.7 W
Brake stop light	21 W