



Beyond 130





# Sales training material

- New **KX060-5 / U56-5** versus:
  - Kubota KX057-4 / U55-4
- New **KX060-5 / U56-5** versus:
  - Yanmar SV60
  - Takeuchi TB260
  - Hitachi ZX55
  - CAT 305.5 E2CR



SMGB171016BLA



# Presentation

**Par1. Comparison : KX060-5/U56-5  
VS KX057-4/U55-4**

**Part2. Comparison with competitor's machines**

**Part3. VAL overview**





# Part 1

## Comparison : KX060-5/U56-5 VS KX057-4/U55-4

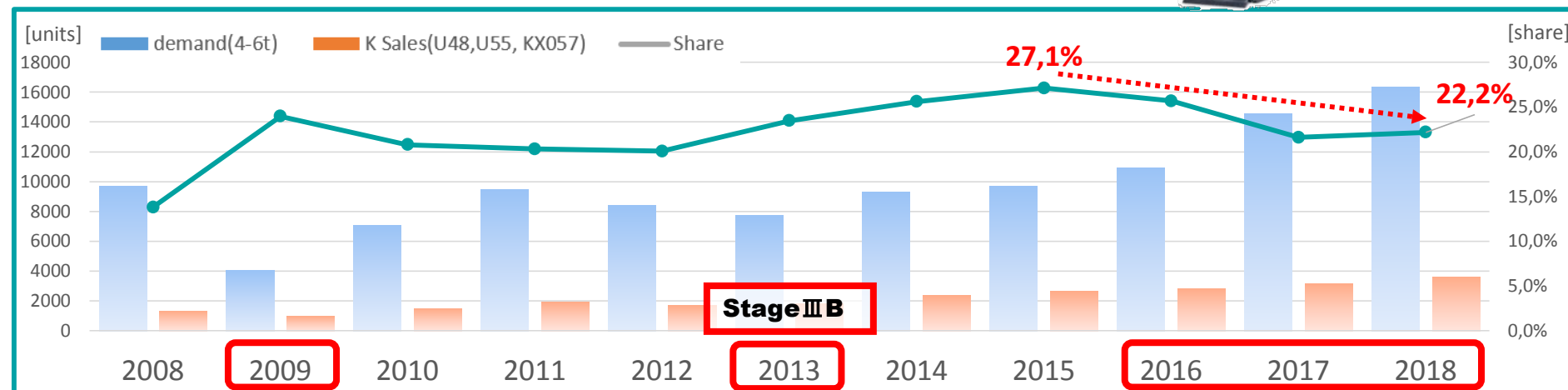


**VS**



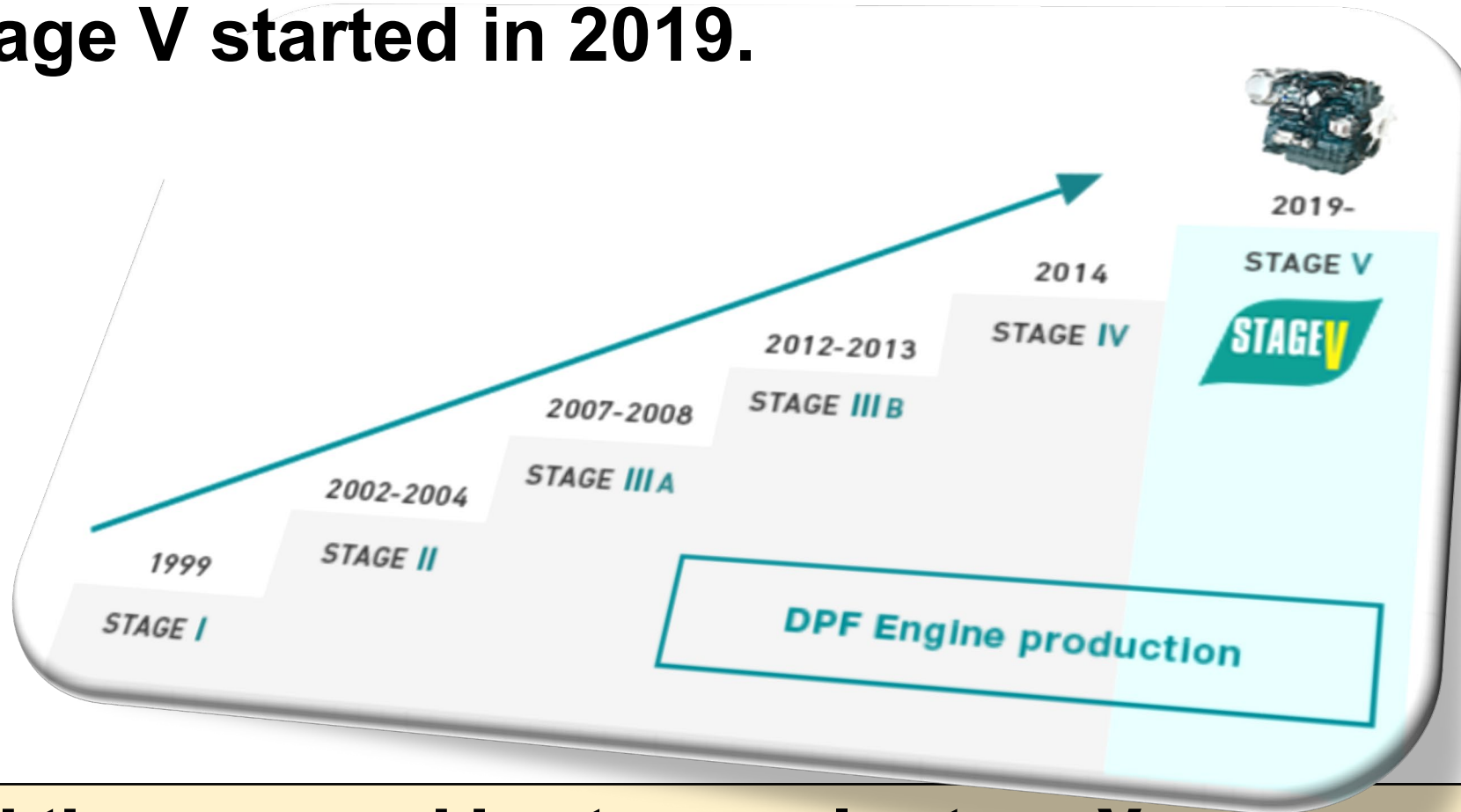


# Business situation in 5-6t class.



# Stage V engine exhaust emission regulation

**Stage V started in 2019.**



**Need the new machine to comply stage V.**



# Evaluation of our current machines from the market



## Positive points of current machine

Most customers were satisfied with basic spec. for 5 – 5.5 t.

- ***machine size***
- ***machine performance***
- ***smooth operation***



**Succeed KUBOTA's strong points**





# Evaluation of our current machines from the market



## Negative points of current machine

Current Kubota machines is behind to competitors from the point of view of operator comfortability .

- ***CAB space***
- ***Noise***
- ***User interface (panel, console)***



**Realize the advanced operator comfortability.**



# Product Concept

Environmental  
conservation  
(StageV)

Superior Comfort  
&  
Advanced Utility  
(CAB space, noise, etc.)

Succeed Excellent  
Performance  
(Machine size, etc.)

Safety

Design quality

Serviceability

+



# Summary of main sales points (Exterior front)

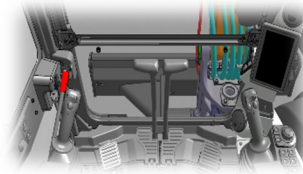
Arm safety valve  
STD



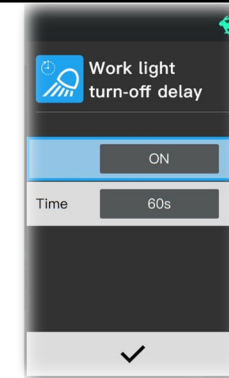
Third line  
hydraulic return



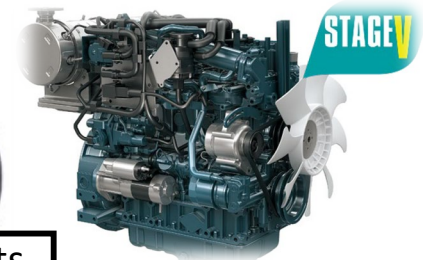
Good visibility



LED light with turn  
off delay function



StageV engine



Tie down points  
on the top frame



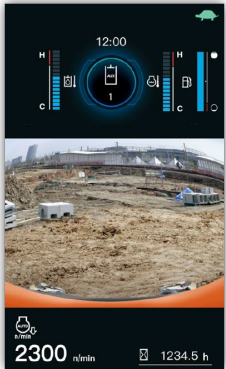
Dozer float





# Summary of main sales points (Exterior rear)

Rear-view camera



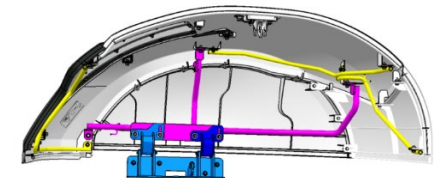
Radiator and oil cooler side by side layout



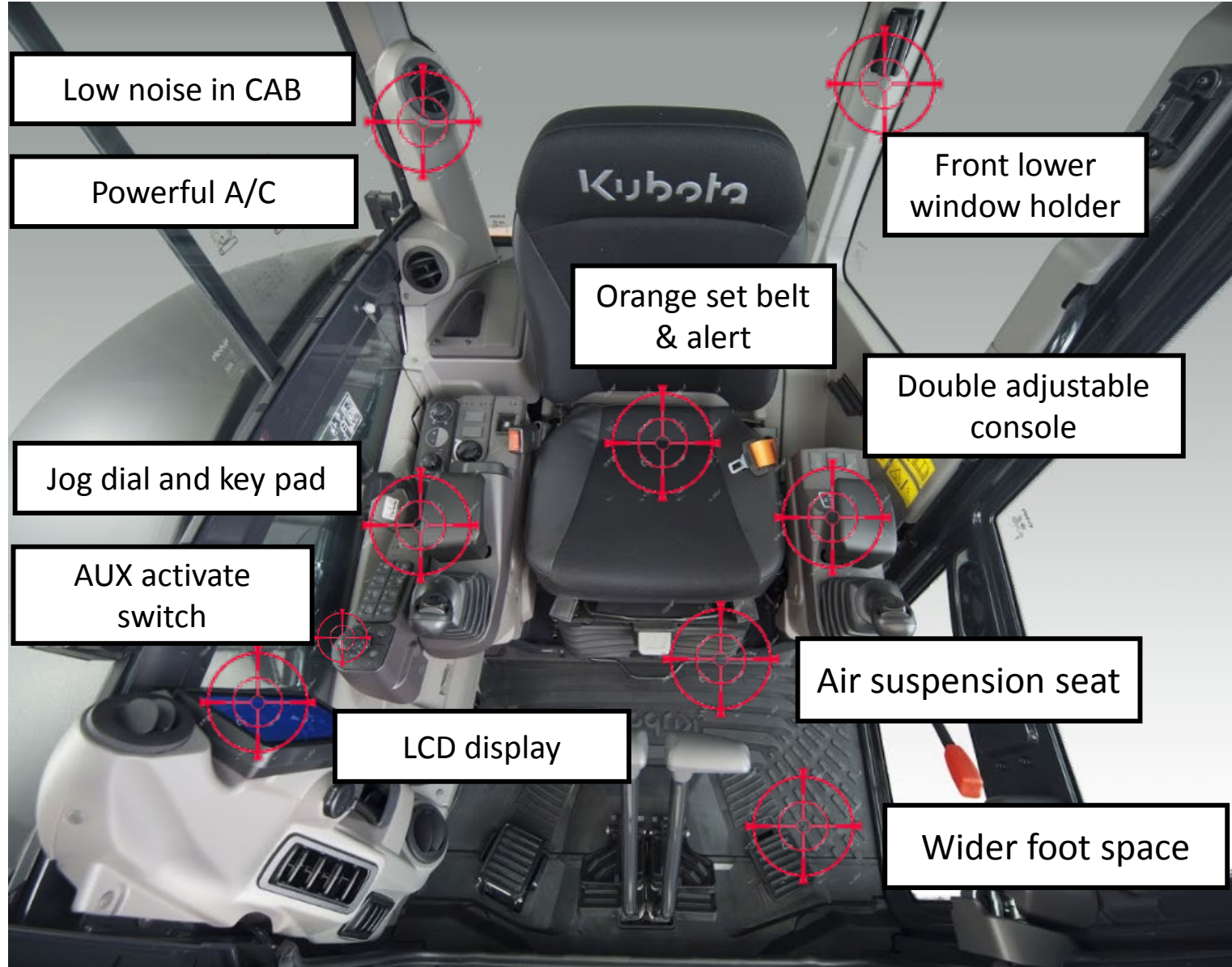
Wide vertical open bonnet



Bonnet with support frame



## Summary of main sales points (In CAB)



# Index of Part1

## Comparison : KX060-5/U56-5 VS KX057-4/U55-4

- I . Specification and Performance Data
- II . New functions and improved points
  - II -1 Environmental conservation
  - II -2 Comfortability and Utility (Cabin)
  - II -3 Comfortability and Utility (Operation)
  - II -4 Safety equipment
  - II -5 Serviceability
  - II -6 Design quality





# Index of Part1

## Comparison : KX060-5/U56-5 VS KX057-4/U55-4

### I . Specification and Performance Data

#### II . New functions and improved points

- II -1 Environmental conservation
- II -2 Comfortability and Utility (Cabin)
- II -3 Comfortability and Utility (Operation)
- II -4 Safety equipment
- II -5 Serviceability
- II -6 Design quality



# KX060 / U56 vs KX057 / U55 basic info

Model version			KUBOTA KX057	KUBOTA KX060	KUBOTA U55	KUBOTA U56
Production country			Japan	Japan	Japan	Japan
Tail swing			Conventional (290mm)	Conventional (290mm)	Short tail (65mm)	Short tail (85mm)
Operating weight(cabin/rubber shoe)			5545 (long arm)	5635 (long arm)	5400	5595
Arm length (short/long)		mm	1570 / 1820	1570 / 1820	1570	1635
Bucket	Width	mm	650	600	600	600
	Weight(Bucket)	kg	135	119	130	119
Engine	Supplier		KUBOTA	KUBOTA	KUBOTA	KUBOTA
	Type		V2607-DI	V2607-CR-E5-BH2	V2607-DI	V2607-CR-E5-BH2
	Emission		stage III B	stage V	stage III B	stage V
	Power(Net)	kW	33.8 (ISO9249)	35.0 (ISO9249)	33.8 (ISO9249)	35,0 (ISO9249)
	Engine speed	rpm	2200	2200	2200	2200
	Cylinders	No.	4	4	4	4
Pump	HYD System		3P LS	3P LS	3P LS	3P LS
	Type		var2,gear1	var2,gear1	var2,gear1	var2,gear1
	Displacement P1/P2	L/min	56.1× 2	56.1× 2	56.1× 2	56.1× 2
	Displacement P3	L/min	37	37	37	37



**Basic specifications of new 5t models such as engine power and hydraulic system are same as current ones.**



## KX060 / U56 vs KX057 / U55 dimensions

Model version		KUBOTA KX057	KUBOTA KX060	KUBOTA U55	KUBOTA U56
Overall length (short arm / long arm)	mm	5505 / 5520	<b>5490 / 5520</b>	5500	<b>5490</b>
Overall height	mm	2550	<b>2550</b>	2550	<b>2550</b>
Overall width(crawler)	mm	1960	<b>1960</b>	1960	<b>1960</b>
Ground clearance	mm	310	<b>310</b>	310	<b>310</b>
Crawler length	mm	2500	<b>2500</b>	2500	<b>2500</b>



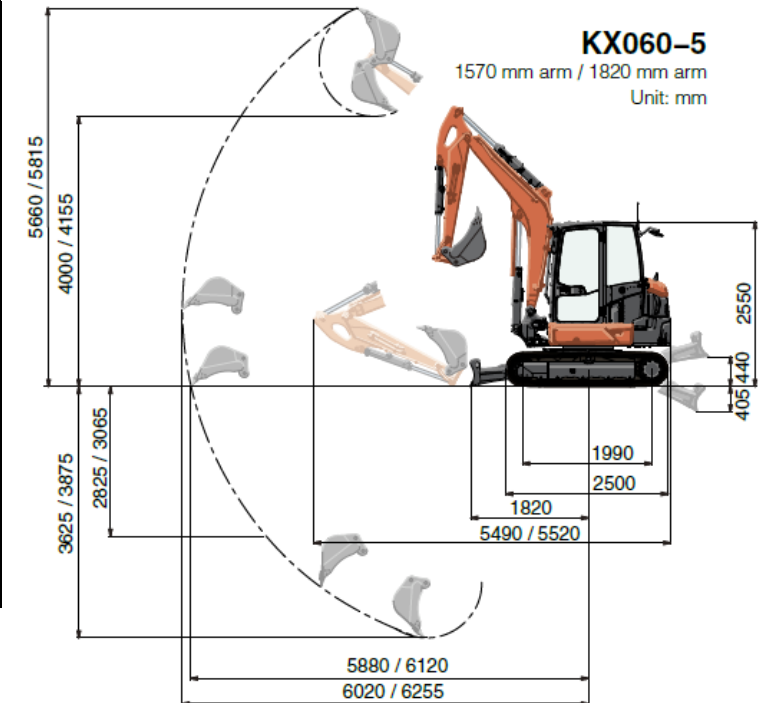
**The machine dimensions of new machines are basically same as current ones.**





## KX060 / U56 vs KX057 / U55 working range

Model version		KUBOTA KX057	KUBOTA KX060	KUBOTA U55	KUBOTA U56
Max digging height (short arm/long arm)	mm	5665 / 5820	<b>5660 / 5815</b>	5665	<b>5670</b>
Max dump height (short arm/long arm)	mm	4005 / 4160	<b>4000 / 4155</b>	4005	<b>4000</b>
Max digging radius (short arm/long arm)	mm	6025 / 6260	<b>6020 / 6255</b>	6105	<b>6105</b>
Max digging radius at GL (short arm/long arm)	mm	5880 / 6130	<b>5880 / 6120</b>	5960	<b>5965</b>
Max digging depth (short arm/long arm)	mm	3630 / 3890	<b>3625 / 3875</b>	3630	<b>3630</b>



**The working range of new 5t machines are basically same as current one.**



# KX060 / U56 AUX 1 & 2

Model version			KUBOTA KX057	KUBOTA KX060	KUBOTA U55	KUBOTA U56
AUX1	Max. flow rate	l/min	75.0	<b>75.0</b>	75.0	<b>75.0</b>
	Hydraulic pressure	Mpa	20.6	<b>20.6</b>	20.6	<b>20.6</b>
	Direct return to tank		Mechanical	<b>Electrical</b>	Mechanical	<b>Electrical</b>
	Proportional		Yes	<b>Yes</b>	Yes	<b>Yes</b>
	Adjustable (flow rate)		Yes	<b>Yes</b>	Yes	<b>Yes</b>
	How to make flow adjustment		Panel	<b>Panel</b>	Panel	<b>Panel</b>
	Holding function		Yes	<b>Yes</b>	Yes	<b>Yes</b>
AUX2	Max. flow rate	l/min	37	<b>37</b>	37	<b>37</b>
	Hydraulic pressure	Mpa	19.1	<b>19.1</b>	19.1	<b>19.1</b>
	Proportional		Yes	<b>Yes</b>	Yes	<b>Yes</b>
	Adjustable (flow rate)		Yes	<b>Yes</b>	Yes	<b>Yes</b>
	How to make flow adjustment		Panel	<b>Panel</b>	Panel	<b>Panel</b>



**Basic AUX functions are same as current ones, but third line hydraulic return can be controlled electrically on control panel.**



# KX060 / U56 cylinder speed

Model version			KUBOTA KX057	KUBOTA KX060	KUBOTA U55	KUBOTA U56-5
Boom speed*	up/down	sec	2.6 / 3.3	<b>2.7 / 3.2</b>	2.8 / 3.4	<b>2.8 / 3.1</b>
Arm speed*	crowd/dump	sec	2.9 / 2.7	<b>2.6 / 2.6</b>	3.1 / 2.7	<b>2.6 / 2.8</b>
Bucket speed*	crowd/dump	sec	2.8 / 1.9	<b>2.8 / 2.0</b>	2.9 / 2.0	<b>2.7 / 1.9</b>
Dozer speed*	(Full)up/down	sec	2.0 / 2.7	<b>2.0 / 2.8</b>	2.0 / 2.8	<b>2.0 / 2.8</b>
Swivel speed*	(L/R)	rpm	9.1	<b>9.4</b>	9.1	<b>9.2</b>

(\*)Actual measured figure

**Thanks to arm regeneration circuit, the arm crowd speed of KX060 / U56 is faster than current models.**





# Index of Part1

## Comparison : KX060-5/U56-5 VS KX057-4/U55-4

I . Specification and Performance Data

### **II . New functions and improved points**

- II -1 Environmental conservation
- II -2 Comfortability and Utility (Cabin)
- II -3 Comfortability and Utility (Operation)
- II -4 Safety equipment
- II -5 Serviceability
- II -6 Design quality



# Summary of new functions

Functions / Equipment		U55	U56	KX057	KX060
Comfort & Utility (CAB)	Enlarged&Closed CAB	-	std	-	std
	Air suspension seat	-	L model	-	L model
	Double adjustable console	-	std	-	std
	7" Color LCD monitor	-	std	-	std
	Key pad & Jog dial	-	std	-	std
	Air conditioning	-	L model	-	L model
	Mobile phone strage space	-	std	-	std
	Front lower window strage space	-	std	-	std
Comfort & Utility (operation)	Rear view camera	-	opt	-	opt
	AUX activate switch on right pilot lever	-	std	-	std
	Erectrical third line hydraulic return	-	M & L model	-	M & L model
	Work light turn off delay	-	std	-	std
	Dozer float	-	std	-	std

Functions / Equipment		U55	U56	KX057	KX060
Safety	High visibility seat belt with warning alert	-	std	-	std
	Arm safety valve	opt	std	opt	std
	Harness for green beacon ready	-	std	-	std
	Tie down on upper frame	-	std	-	std
Service ability	Vertical opened rear bonnet	-	std	-	std
	Radiator, Oil cooler side by side layout	-	std	-	std
	Double fuel filter	-	std	-	std
	Bolt on handrail on CAB	-	std	-	std



# Index of Part1

## Comparison : KX060-5/U56-5 VS KX057-4/U55-4

I . Specification and Performance Data

### II . New functions and improved points

#### II -1 Environmental conservation

II -2 Comfortability and Utility (Cabin)

II -3 Comfortability and Utility (Operation)

II -4 Safety equipment

II -5 Serviceability

II -6 Design quality



## Ⅱ -1. Environmental conservation





## Stage V engine

KX060 / U56



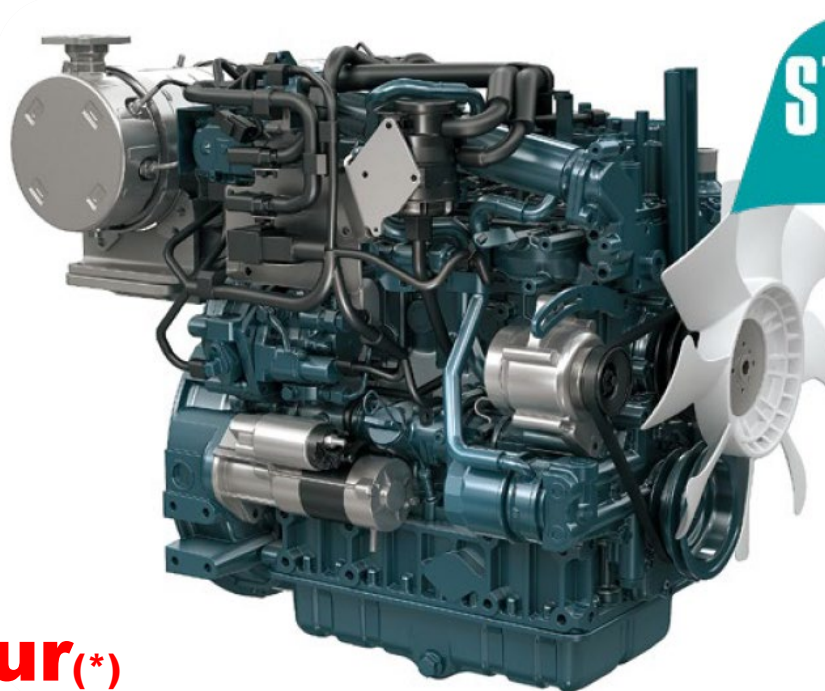
DOC + DPF

**Regeneration  
interval**

**About 60 hour(\*)**

**+200% UP**

**VS Previous Kubota DPF(20h)**



**STAGEV**

**Ash Cleaning  
interval**

**6000 hour(\*)**

**+100% UP**

**VS Previous Kubota  
DPF (3000h)**

(\*)Actual interval would be changed  
depending on the working condition.

**New 5t models comply with stage V regulation.**



# Index of Part1

## Comparison : KX060-5/U56-5 VS KX057-4/U55-4

I . Specification and Performance Data

### **II . New functions and improved points**

II -1 Environmental conservation

### **II -2 Comfortability and Utility (Cabin)**

II -3 Comfortability and Utility (Operation)

II -4 Safety equipment

II -5 Serviceability

II -6 Design quality



## II -2. Comfortability and Utility (Cabin)





# CAB structure



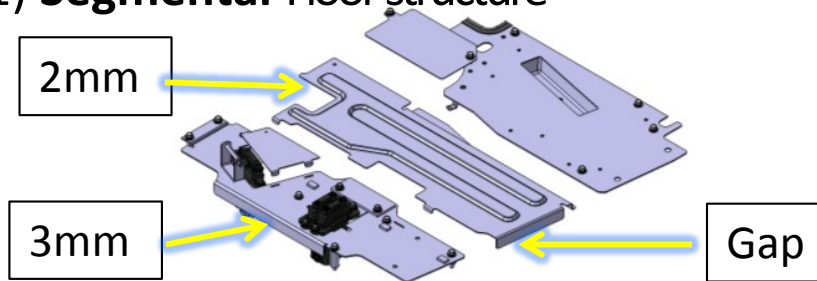


# New CAB structure for noise reduction

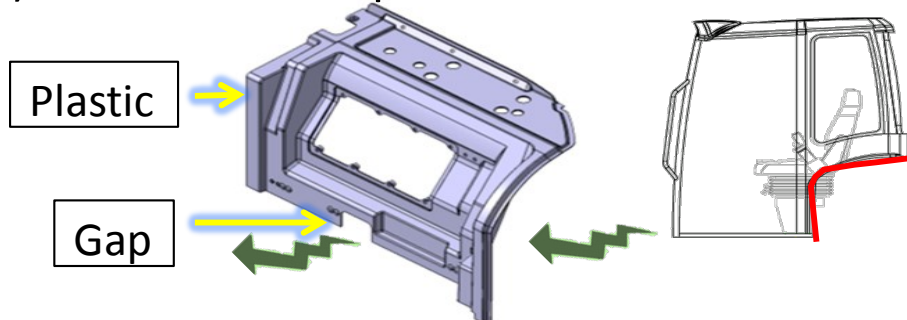
KX057 / U55

**79dB in CAB noise**

1) **Segmental** Floor structure



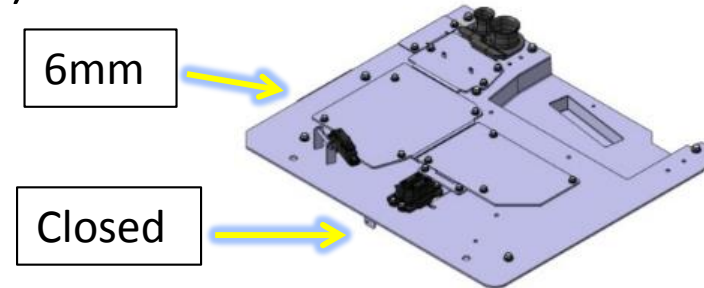
2) **Plastic** division plate of rear CAB



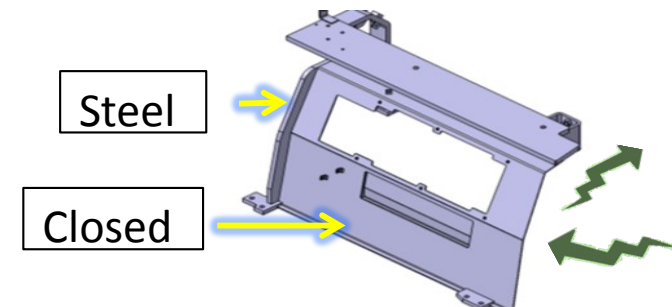
KX060 / U56

**74dB** in CAB noise

1) **Unified** Floor structure



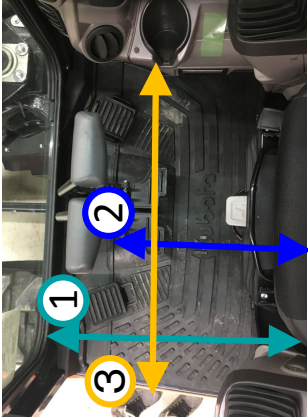




2) **Steel** division plate of rear CAB



**New CAB structure reduce the annoying noise for Operator.**



# Foot space

Model version			KUBOTA KX057	KUBOTA KX060		KUBOTA U55	KUBOTA U56	
								
①	Length : seat support to CAB frame	mm	540	<b>629</b>	<b>+89</b>	503	<b>530</b>	<b>+27</b>
②	Length : seat support to travel lever	mm	450	<b>494</b>	<b>+44</b>	390	<b>410</b>	<b>+20</b>
③	Width : Entrance to right wall limit usable space.	mm	730	<b>919</b>	<b>+189</b>	730	<b>919</b>	<b>+189</b>

**Enlarged foot space realizes more comfortable operation.**



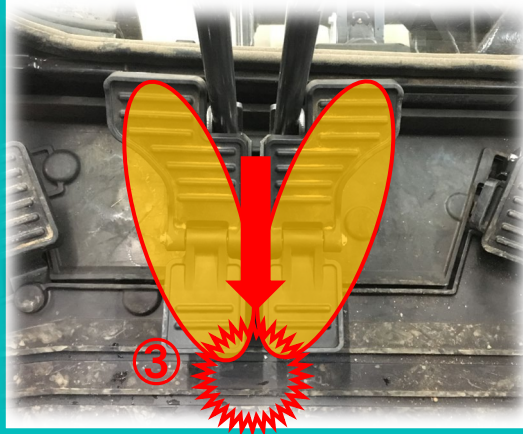
# New foot pedal shape

KX057 / U55



① Toes hit the front glass.

② The bend of pedal is too sharp. Operator feels cramped.



③ When operator use foot pedal for traveling, the travel levers touch to the knee.

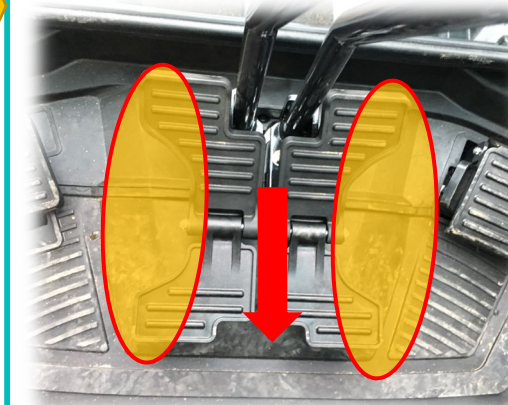


KX060 / U56



① The pedal size has been bigger for idle foot position.

② The bend of pedal has become more gentle.



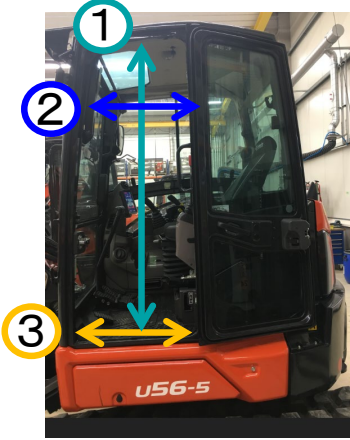


③ Heel position has been newly set to avoid hitting the knee with travel lever.

**New pedal shape doesn't give the narrow feeling and reduce the stress for operator.**





## Wider entrance

Model version			KUBOTA KX057	KUBOTA KX060	
					
①	Total entrance height	mm	1350	<b>1460</b>	<b>+110</b>
②	At less 30cm from above	mm	547	<b>594</b>	<b>+47</b>
③	Bottom tread	mm	620	<b>724</b>	<b>+104</b>

Model version			KUBOTA U55	KUBOTA U56	
					
			1350	<b>1460</b>	<b>+110</b>
			473	<b>485</b>	<b>+12</b>
			544	<b>583</b>	<b>+39</b>

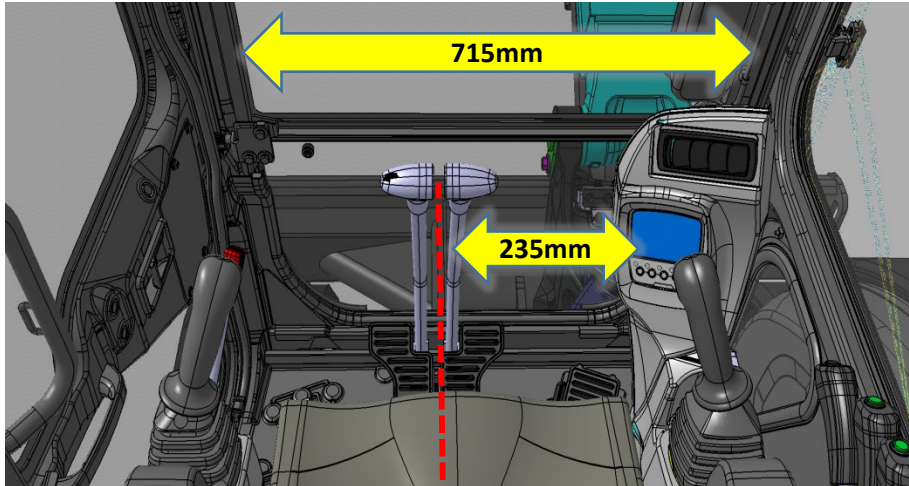
**Wider entrance provide easier getting on / off the machine.**



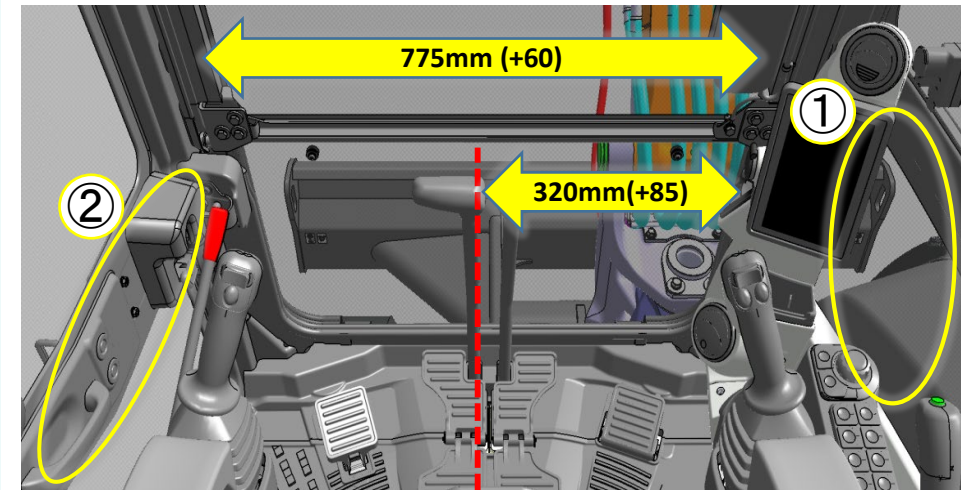


## Improved visibility (Front glass)

KX057 / U55



KX060 / U56



Wider Glass area in CAB: **+20%**

Thanks to : ①New right side lower window  
②Narrow door frame

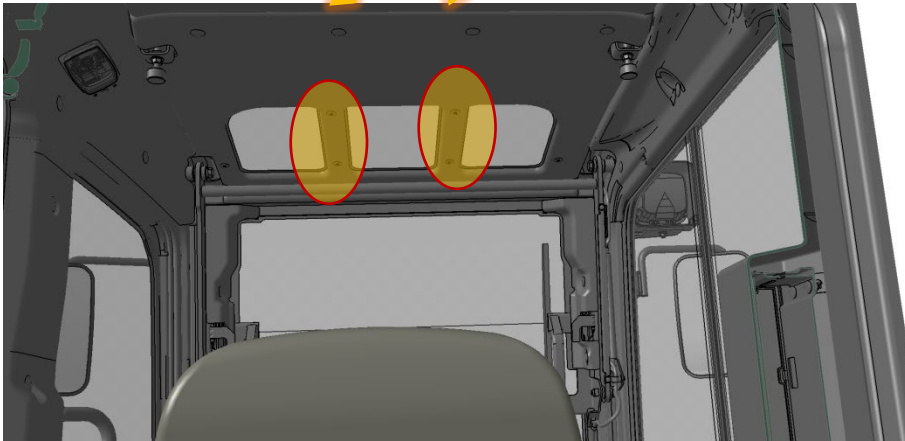
**New 5t machines ensure superior visibility.  
It helps more precise and comfortable operation.**



## Improved visibility (Top window)

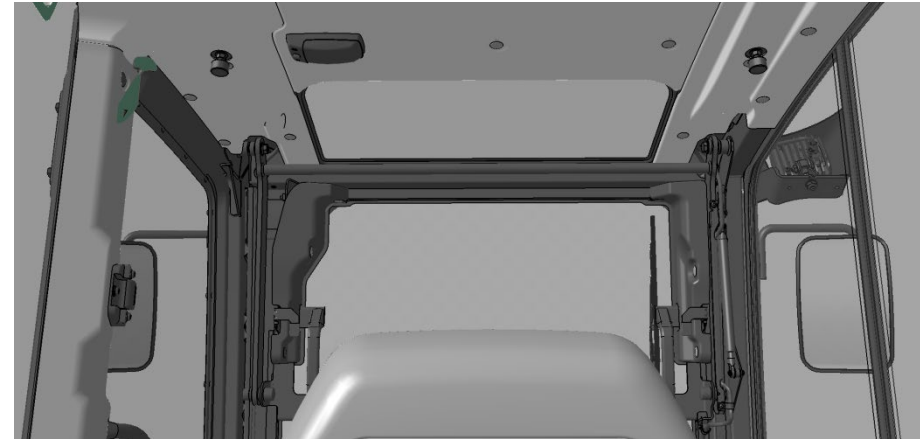
KX057 / U55

Sash Bar



KX060 / U56

No sash bar  
- clear visibility

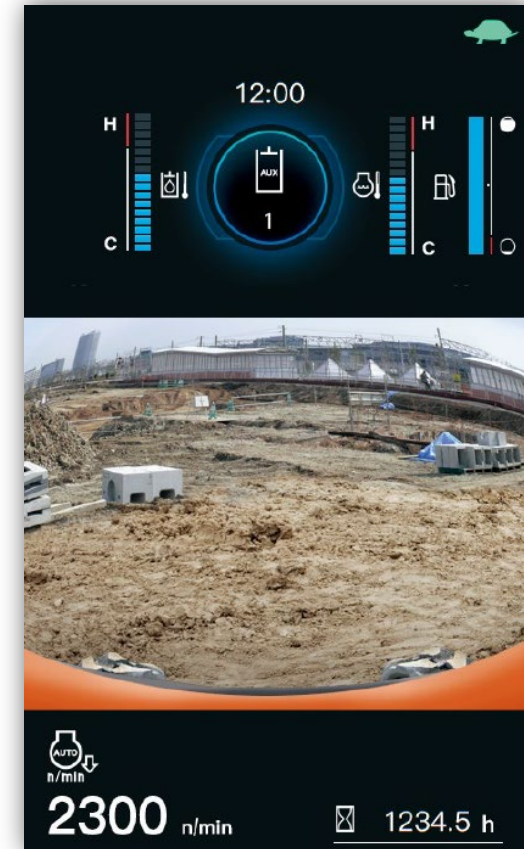
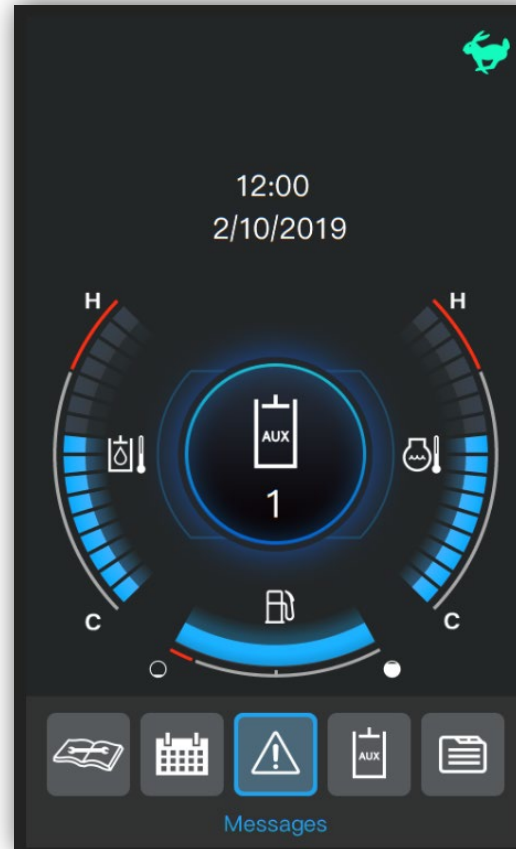


**New top window gives the better visibility in dumping operation.**



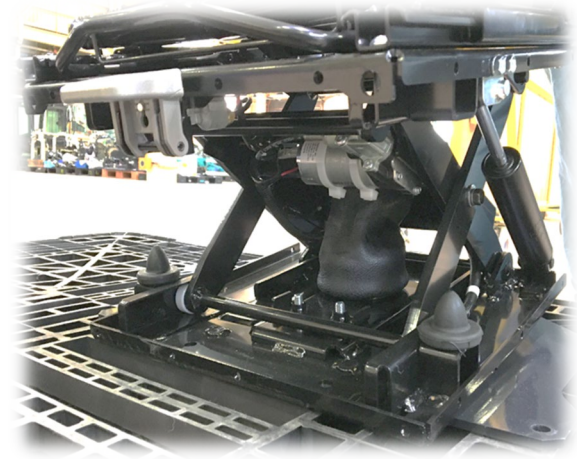
## Rear-view camera

KX060 / U56



**New rear-view camera can support the operator's view.**





# Seat



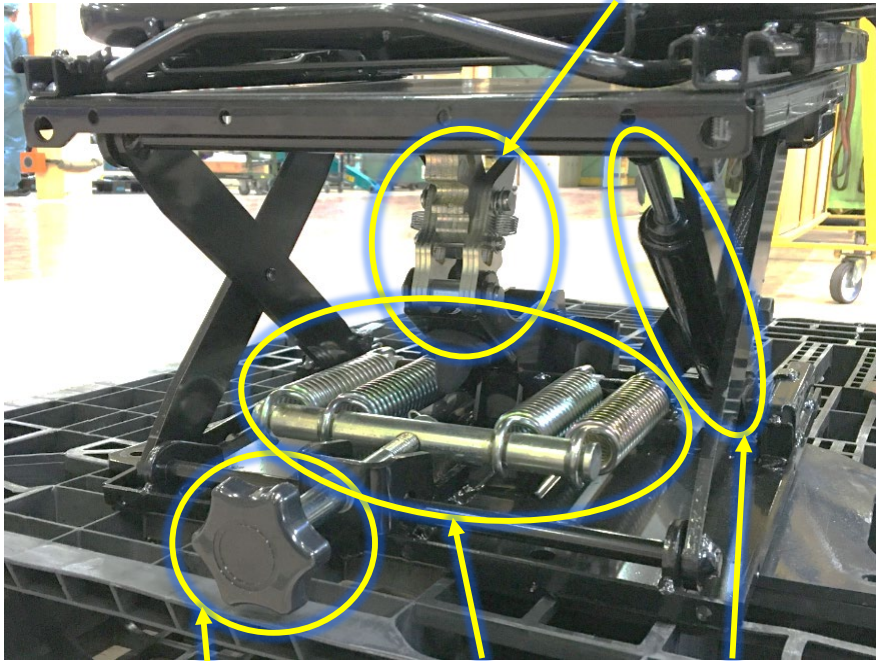


# Air suspension seat

KX057 / U55

## [ Mechanical suspension ]

Height adjustment structure



Weight adjustment dial

Spring

Shock absorber

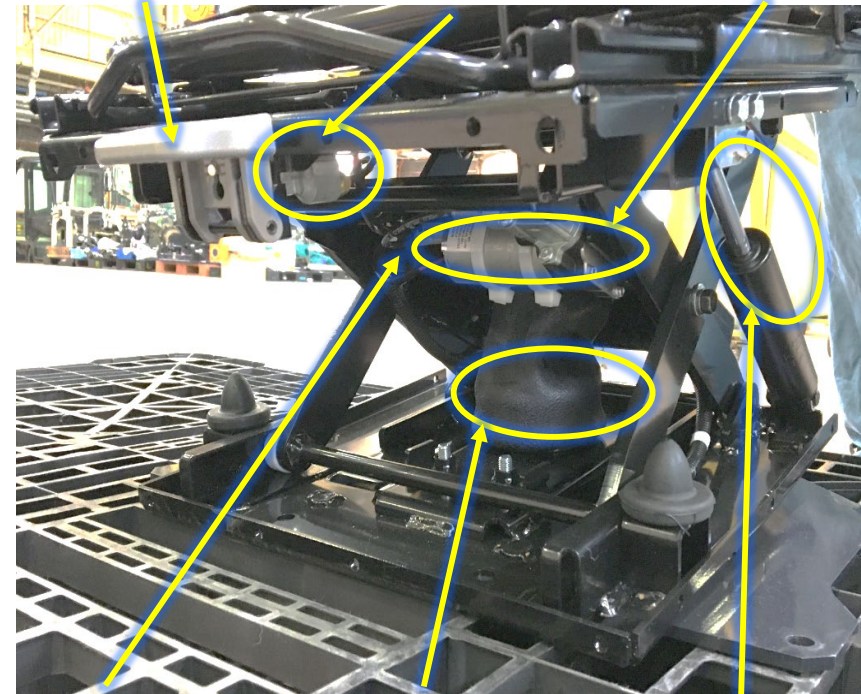
KX060 / U56

## [ Air suspension] (only for L model)

Lever

Switch valve

Air Compressor



Air hose

Air spring

Shock absorber

**Air suspension seat provides comfort and easy height adjustment by air compressor.**





## Double adjustable console

KX060 / U56



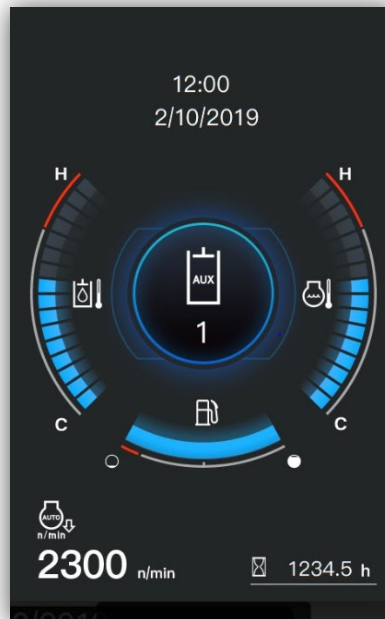
Not only seat but also console can be moved.

**Double adjustable console offers best position to any operators.**





# Display & Console



# New right side console

KX057 / U55



The switches are in disorder.

KX060 / U56



The Switches and Jog dial are concentrated near the right arm rest.

**The concentrated switches and jog dial realize less fatigue and easier and quicker access.**



## New LCD color display

KX057 / U55



- Monochrome display

KX060 / U56

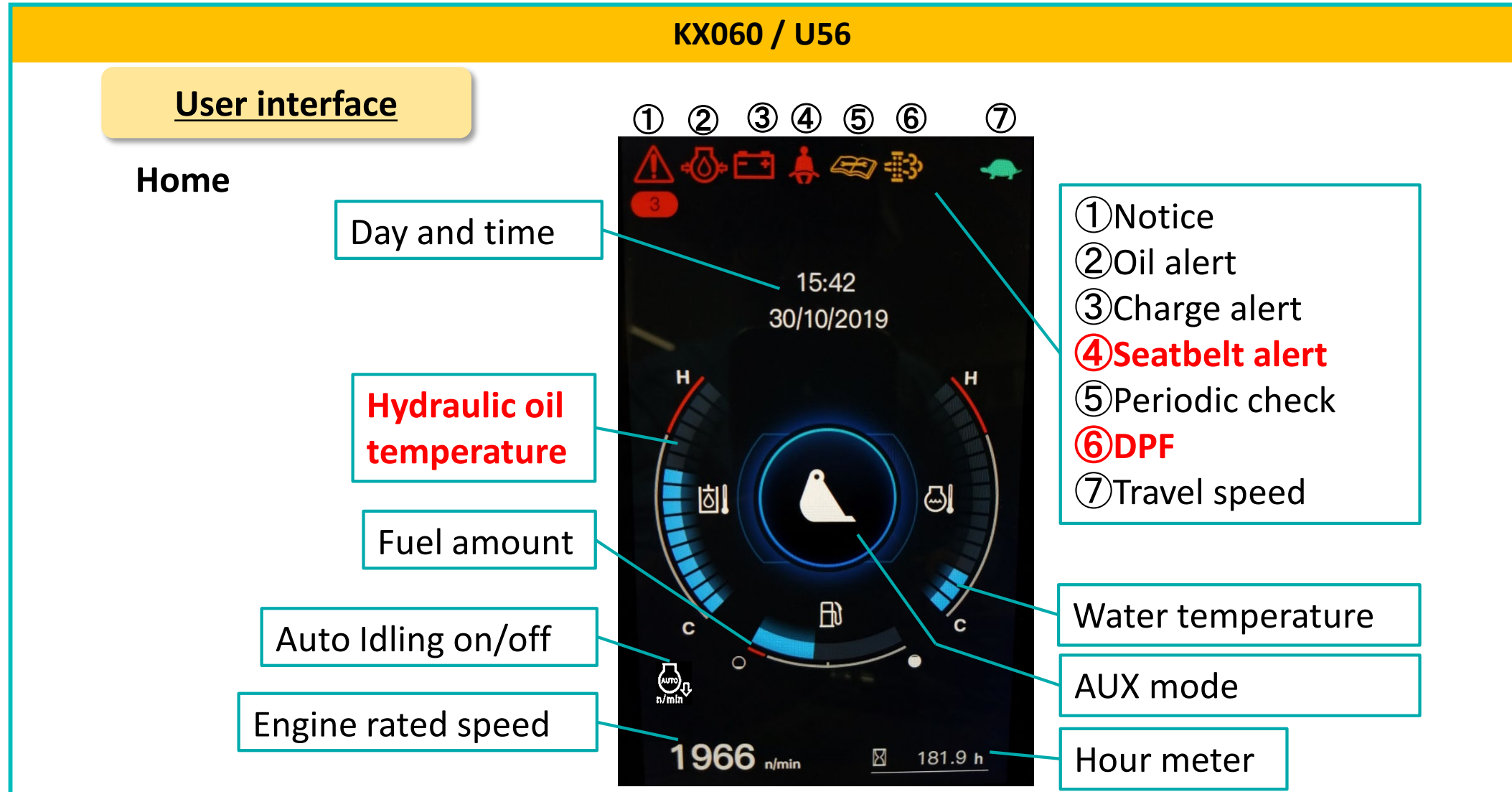


- **7" Full color** display
- Brightness is adjustable  
(Manual adjust & Auto adjust connecting to working lights)

**New digital display provides the superior visibility.**



# New Digital Panel (Home screen)

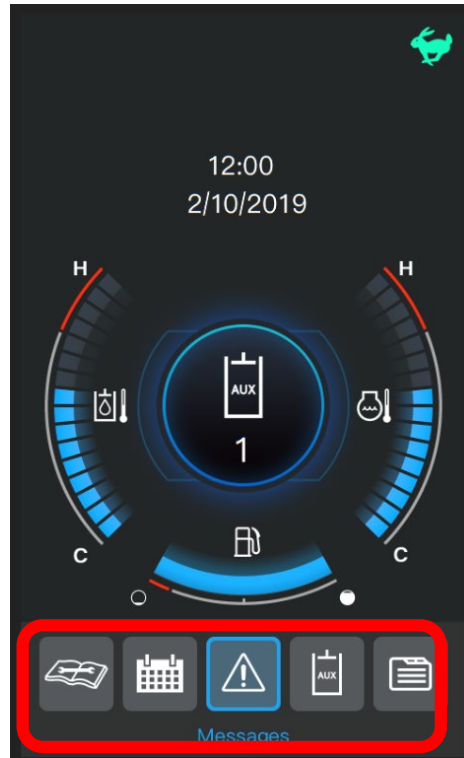




# New Digital Panel (Menu screen & Menu icons)

KX060 / U56

## Menu



Menu key

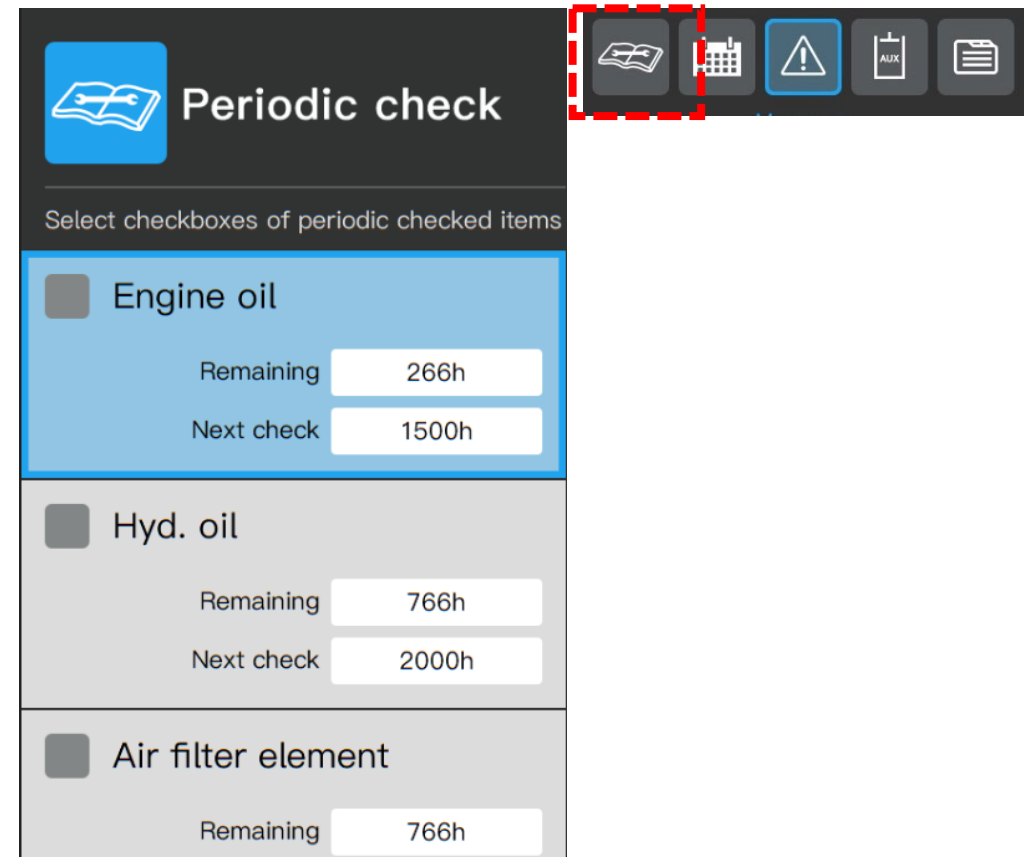


Jog Dial

Return key

Menu icons

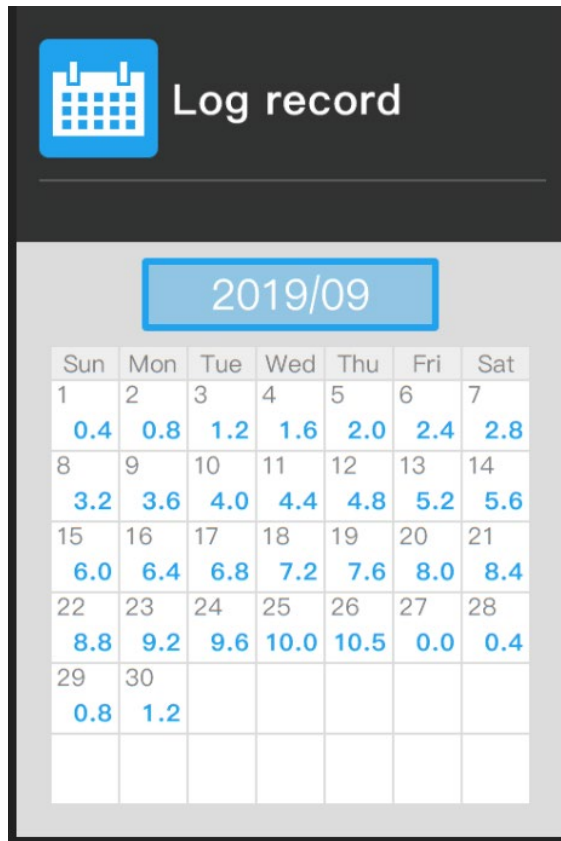
## 1. Periodic check



# New Digital Panel (Menu icons)

KX060 / U56

## 2. Log record



## 3. Message

Messages

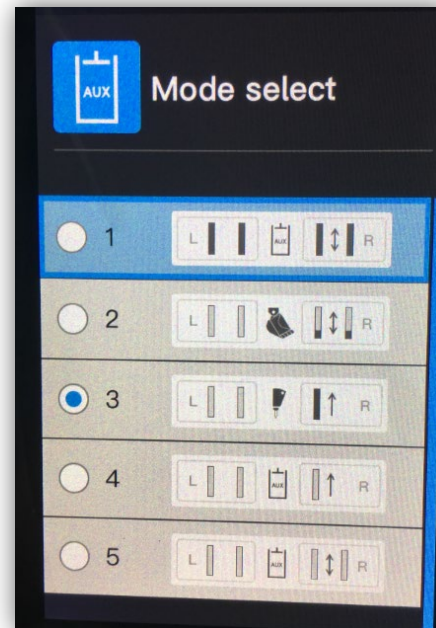
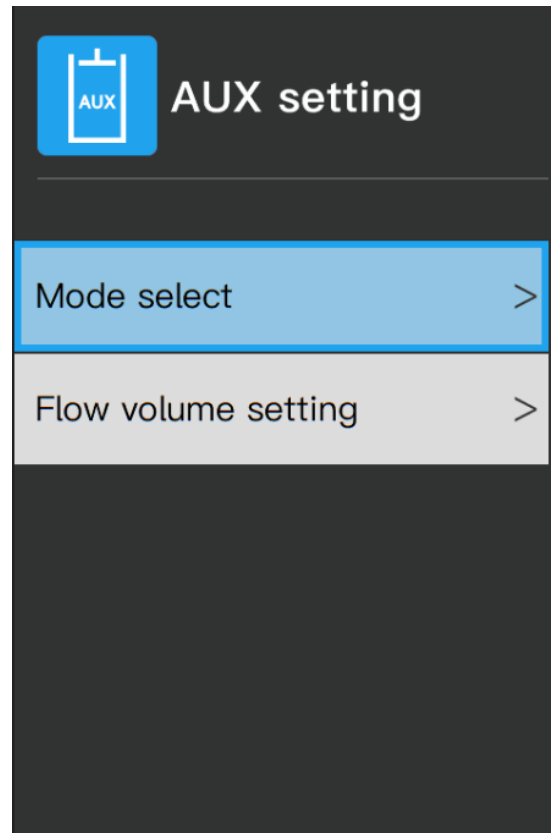
- No. 002 / SPN:110 FMI:16  
Overheat forced idling >
- No. 005 / SPN:110 FMI:3  
Water temp. sensor er >
- No. 144 / SPN:1638 FMI:3  
Hyd. temp. sensor err. >
- No. 003 / SPN:167 FMI:3  
Charging sys. err. >
- No. 004 / SPN:96 FMI:4  
Fuel sensor err. >



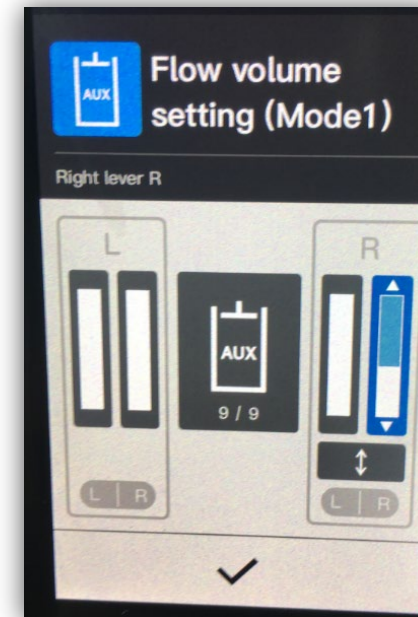
# New Digital Panel (Menu icons)

KX060 / U56

## 4. AUX setting



AUX mode can be selected.



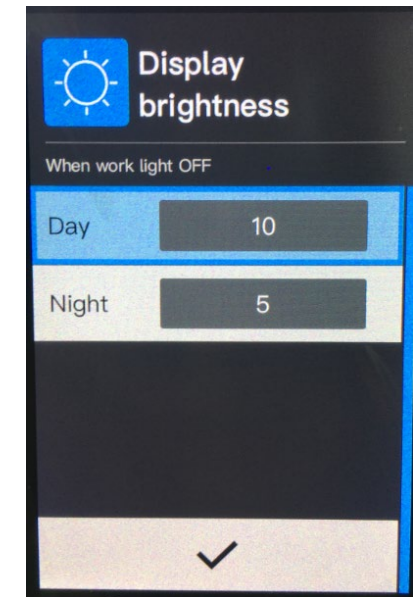
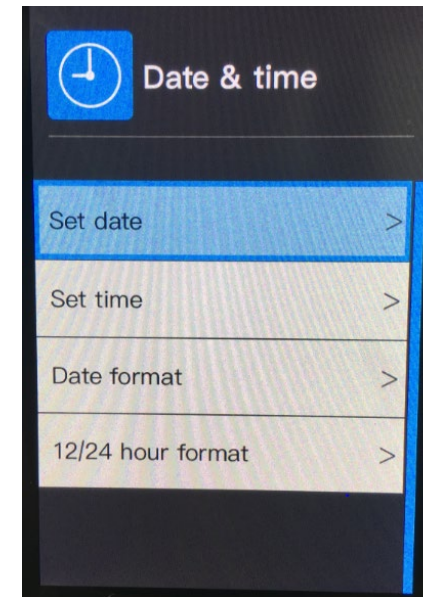
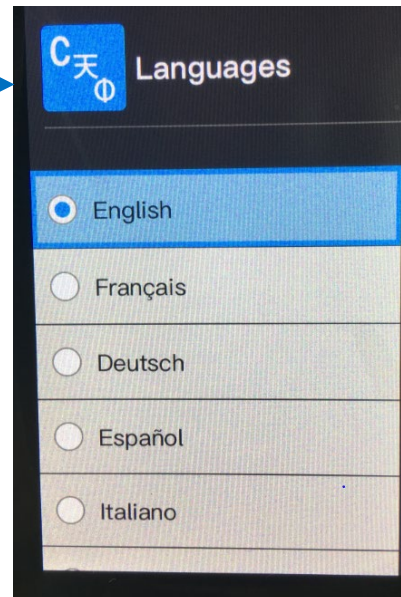
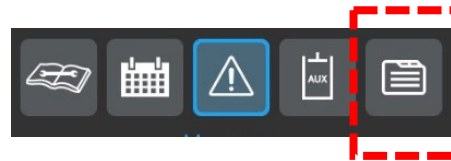
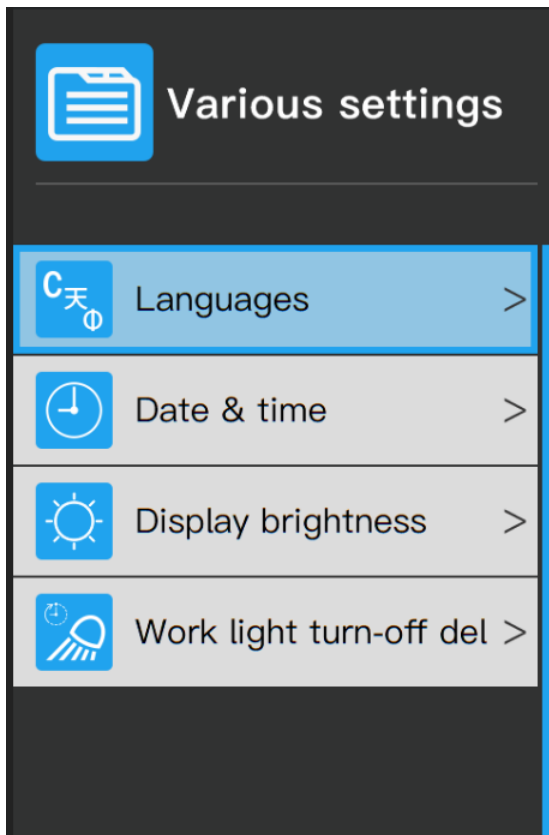
Operator can adjust appropriate flow volume.  
The volume is recorded.



# New Digital Panel (Menu icons)

KX060 / U56

## 5. Various setting





# Air conditioning system





# Air conditioning system

KX057 / U55



Face mode:  
Blowing operator's  
face by two  
ventilations  
(highlighted by  
yellow circle)

- 5 air ventilations
  - Air flow : 12.4 m/s(\*) (U55, face mode)
- (\*) Average of yellow two ventilation in face mode



KX060 / U56



- 7 air ventilations
- Higher position rear ventilation blows the wind to operator's neck
- Air flow : **19.1 m/s(\*)** (U56, face mode)

**New powerful AC offers much comfortable working environment to operator and strong defrosting function.**





# Storage Space



# Grease gun holder

KX057 / U55



Grease gun holder is in right bonnet.

KX060 / U56



Grease gun holder is under the CAB entrance.

**Grease gun holder location is more convenient.**



## Mobile phone holder & Front lower window holder

KX060 / U56



Mobile phone holder is located under LCD display.

KX060 / U56



Holding brackets for front lower window are added on the left side rear window.

**Useful storage spaces are added to new 5t machines.**



# Index of Part1

## Comparison : KX060-5/U56-5 VS KX057-4/U55-4

I . Specification and Performance Data

### **II . New functions and improved points**

II -1 Environmental conservation

II -2 Comfortability and Utility (Cabin)

### **II -3 Comfortability and Utility (Operation)**

II -4 Safety equipment

II -5 Serviceability

II -6 Design quality





## II -3. Comfortability and Utility (Operation)



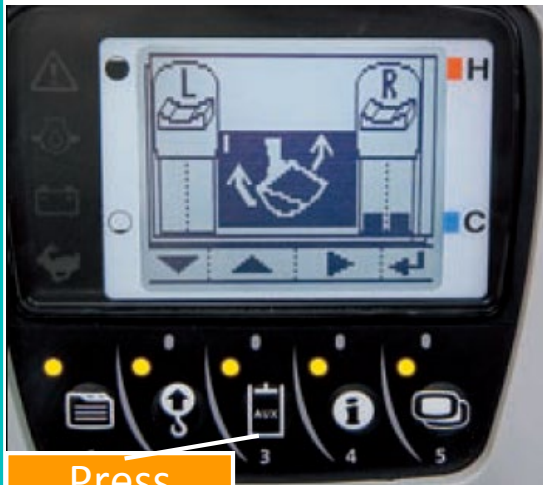


# AUX function



## AUX activate SW

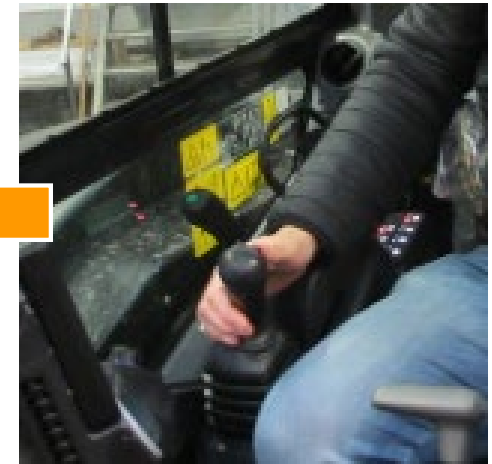
KX057 / U55



SW on the LCD meter panel



KX060 / U56



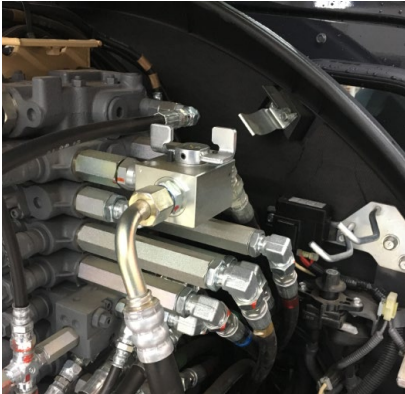
SW on the Right joystick

**Operator doesn't have to reach his hand to activate AUX.**



# Electrical third line hydraulic return

KX057 / U55



Hydraulic third line return on/off can be changed by the lever in right bonnet.

## Operator

- needs to get off the machine every time.
- needs to access hot equipment.
- sometimes forgets to open the third line when using hammer

KX060 / U56



Hydraulic third line is automatically opened when breaker mode is activated.

**No risk and trouble, thanks to electrical third line hydraulic return.**





## Mounting positions for hydraulic Q/C piping

KX057 / U55



KX060 / U56



The mounting positions for hydraulic Quick coupler piping are newly adopted to front arm.

**Installation of Hydraulic Q/C is easier.**





# Working light



## LED working light

KX057 / U55



**CAB and boom lights are halogen.**

KX060 / U56



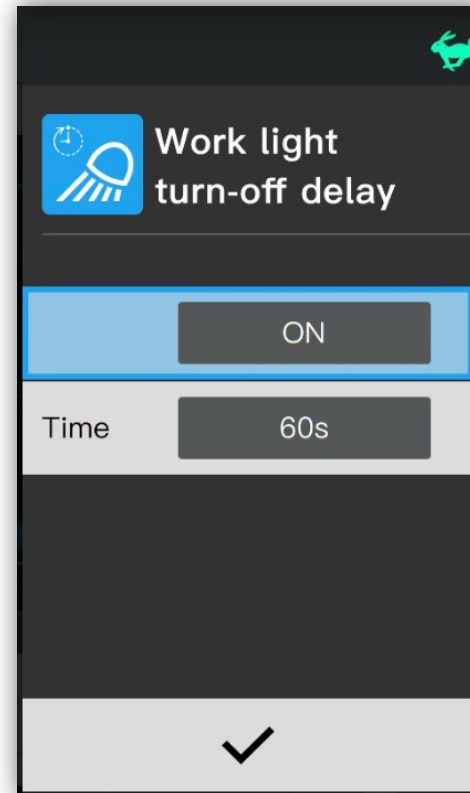
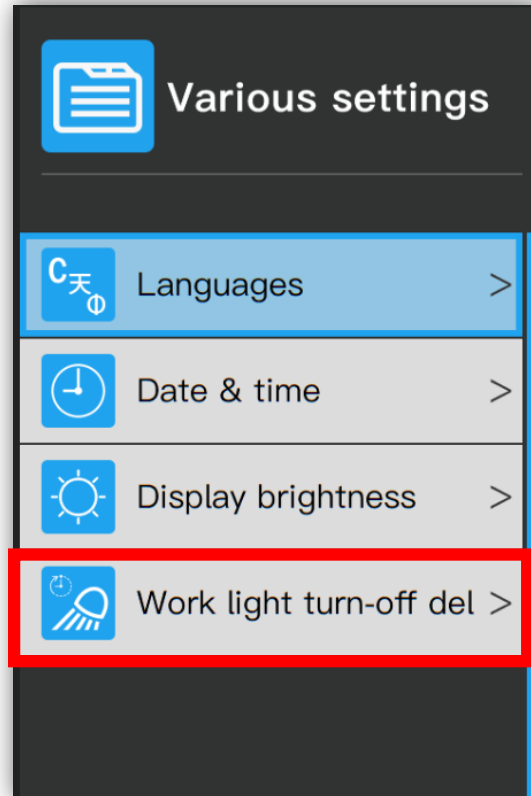
**LED lights are standard on CAB and boom.**

**Standard LED lights give the better brightness and long interval of replacement.**



# Working light turn off delay function

KX060 / U56



LED work light can be programmed to turn off for 30s to 120s after the engine shutdown.

**This function enables operator to exit the machine and walk away more safely.**







# Dozer function



## Dozer floating function

KX060 / U56



Dozer floating function is standard.

**Operator can level the ground more easily.**



# Index of Part1

## Comparison : KX060-5/U56-5 VS KX057-4/U55-4

I . Specification and Performance Data

### **II . New functions and improved points**

II -1 Environmental conservation

II -2 Comfortability and Utility (Cabin)

II -3 Comfortability and Utility (Operation)

### **II -4 Safety equipment**

II -5 Serviceability

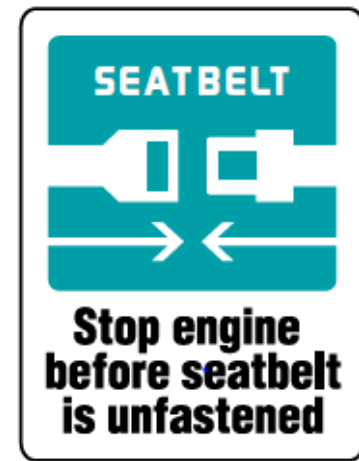
II -6 Design quality



## II -4. Safety equipment







# Seatbelt



# High visibility seatbelt with alert function

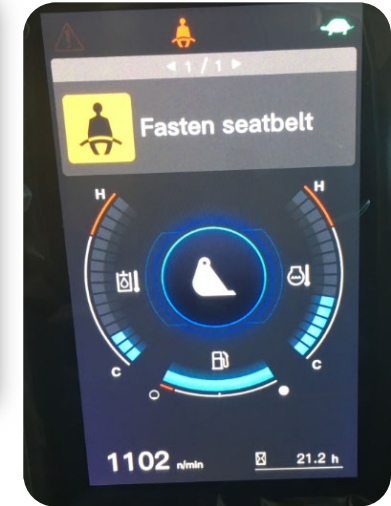
KX057 / U55



No alert



KX060 / U56



**High visibility seatbelt and alert function encourage operator to fasten the seatbelt. This reduce the risk of serious accidents.**





# Holding valve



## Arm & Boom holding valve as standard

KX057 / U55



Only boom holding valve is standard.

KX060 / U56



Boom and Arm holding valves are standard.

**In addition to boom holding valve, arm holding valve is added as standard.**





# Power outlet for beacon light





## Beacon light power outlets

KX057 / U55



KX060 / U56



**The harness and mounting position are ready for green beacon light.**





# Tie down points



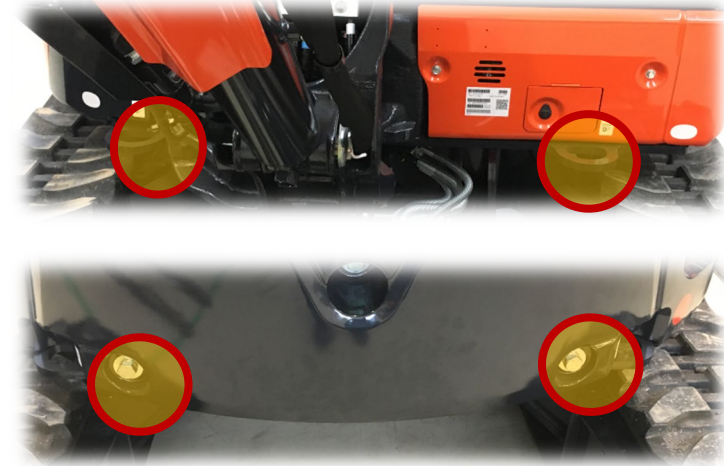
## Tie down points on the top frame

KX057 / U55



Only under carriage has tie down points.

KX060 / U56



Tie down points are mounted on the top frame.

**Tie down points on upper structure enable to make machine more stable in transportation.**



# Index of Part1

## Comparison : KX060-5/U56-5 VS KX057-4/U55-4

I . Specification and Performance Data

### **II . New functions and improved points**

II -1 Environmental conservation

II -2 Comfortability and Utility (Cabin)

II -3 Comfortability and Utility (Operation)

II -4 Safety equipment

### **II -5 Serviceability**

II -6 Design quality



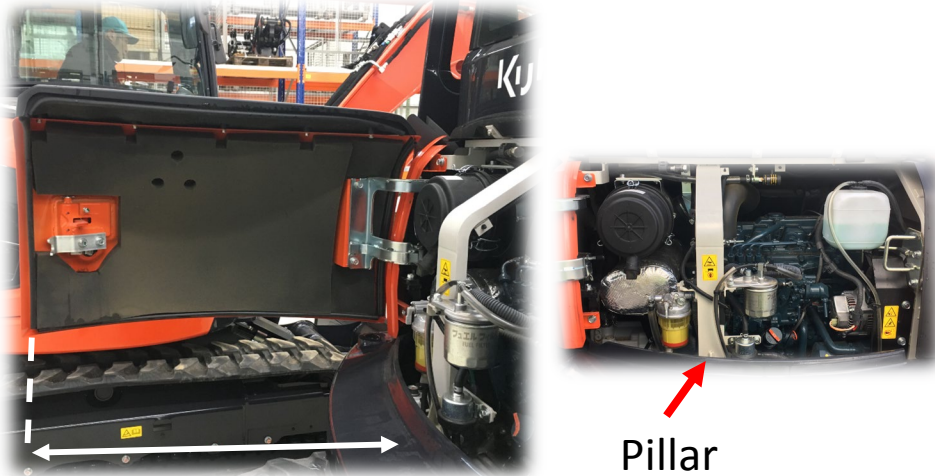
## II -5. Serviceability





## Rear bonnet opening

KX057 / U55



- Horizontal bonnet open
- Center pillar

KX060 / U56



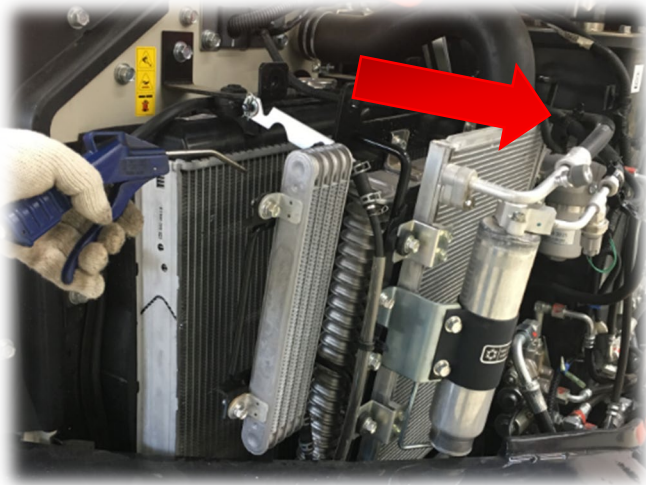
- Vertical bonnet open
- No center pillar

**Vertical bonnet open is effective for space saving, and engine room w/o pillar achieves good accessibility.**



## Radiator and oil cooler side by side layout

KX057 / U55



- Tandem layout (2 layers)
- Tilt condenser

KX060 / U56



- Side by side layout (1 layer)
- Rotatable condenser

**New layout of cooling equipment ensures the good accessibility for cleaning.**



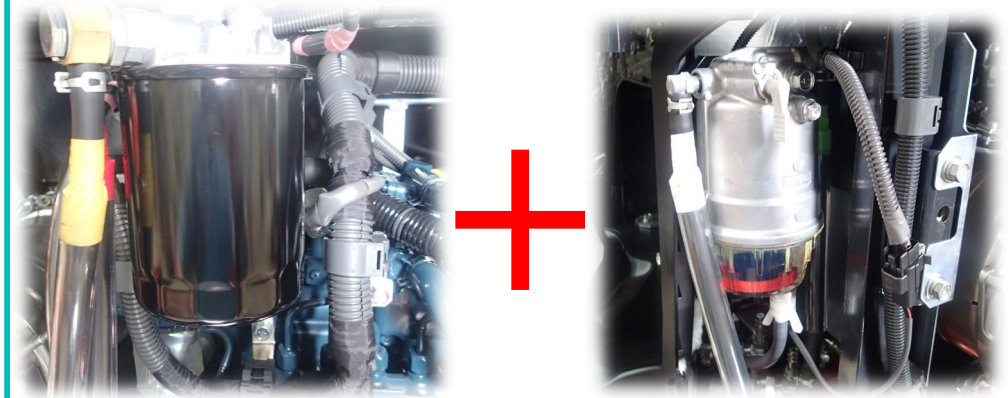
## Double fuel filter

KX057 / U55



One fuel filter is attached.

KX060 / U56



Additional fuel filter is installed  
in water separator.

**Double fuel filters protect the common rail engine from contamination.**



## Bolt on hand rail

KX057 / U55



Handrail is mounted on CAB  
by welding .

KX060 / U56



Handrail is mounted on CAB  
by bolts .

**Handrail can be repaired without replacement of Cabin.**





## Washer tank location

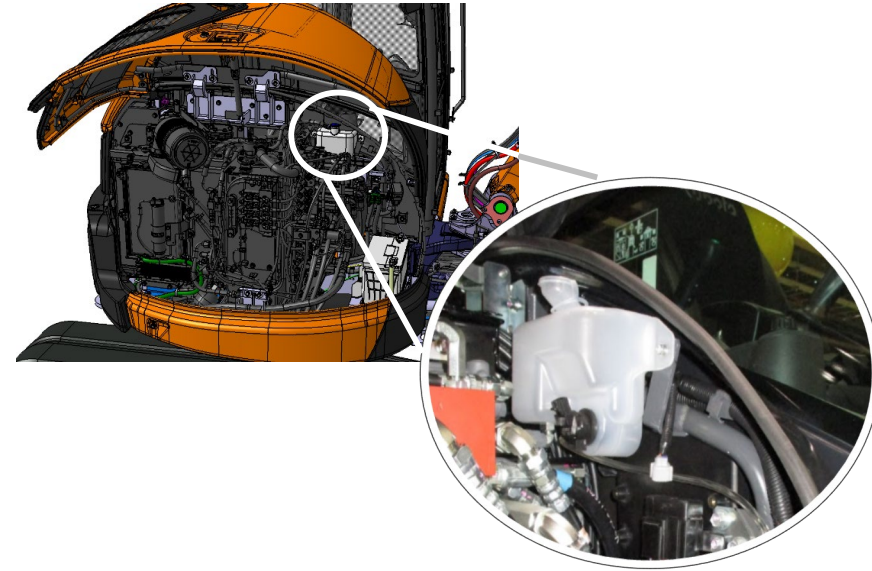
KX057 / U55



**Washer tank is in CAB.**

➡ **Sometimes liquid is spilled from the tank.**

KX060 / U56



**Washer tank is in right side bonnet.**

**In new 5t models, CAB inside never get wet by washer fluid.**

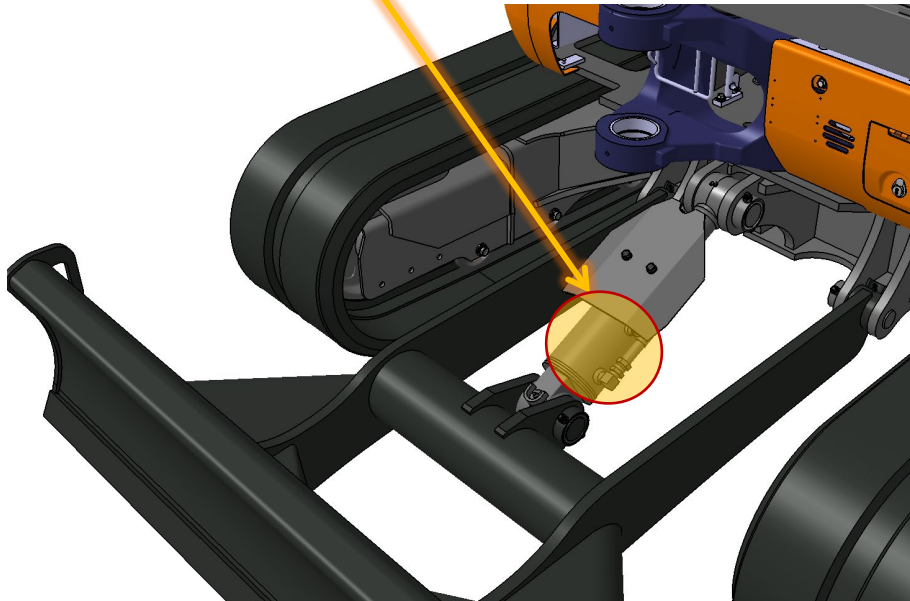




## Larger dozer cylinder protection

KX057 / U55

The cylinder is not covered completely.



KX060 / U56

The cover is enlarged.



**Larger cover fully protects the dozer cylinder.**



## Enlarged oil receiver

KX057 / U55



Small receiver is mounted under the oil filter.

KX060 / U56



Oil receiver is enlarged to prevent overflow.

**Larger oil receiver prevents the overflow of engine oil when the filter is replaced.**



# Index of Part1

## Comparison : KX060-5/U56-5 VS KX057-4/U55-4

I . Specification and Performance Data

### **II . New functions and improved points**

II -1 Environmental conservation

II -2 Comfortability and Utility (Cabin)

II -3 Comfortability and Utility (Operation)

II -4 Safety equipment

II -5 Serviceability

### **II -6 Design quality**



## II -6. Design quality

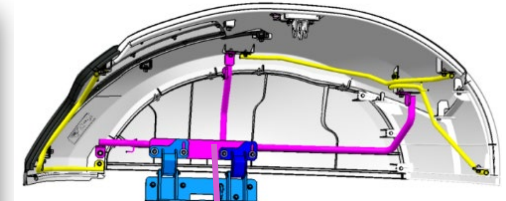


## Durability of bonnet

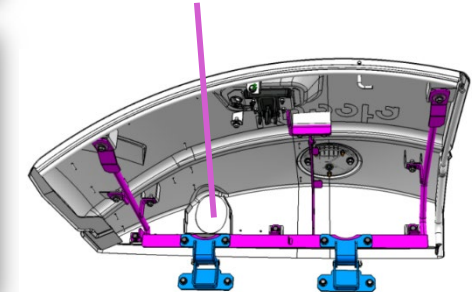
KX057 / U55



KX060 / U56



Support frame



**Newly installed support frames improve the rigidity of bonnets.**





## Exterior finishing

KX057 / U55



Edges of bonnet are flat.  
The gap between bonnets are highlighted.

KX060 / U56



Bended bonnet edges conceal the gap  
between bonnets.

**Bended bonnet edges make an impression of good quality exterior.**



## Interior finishing

KX057 / U55



Bolt head

KX060 / U56



- No bolt head in CAB
- Less gap between consoles

**Better interior finishing make the impression of “Luxury”**



**For Earth, For Life**  
**Kubota**



**Kubota**