Field Assembly Instruction

WHEEL LOADER	WA47	0-7	
	SERIAL NUMBERS	10001	and up



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	Assembly procedure	NO.0020	Deletion of electric	cal syste	em abnormality record	
\ \ \	If "No Error" is displayed on the electrical system abnormality re Ro Error	e "Electrical ecord, thus	Systems" screen a the operation for de	t this tim	ne, there is no a not necessary.	
	Remarks: How to read abnorm 1 2 3 4 01/12 E D192KA Disconnection of E 15 First 0. 15 (1) Indicates the chronological (2) Indicates if the abnormality Indicates E if the abnormal Indicates nothing if the abr (3) Indicates the unified failure (4) Indicates the failure code (5) Indicates the number of occ	CSS Solenoi CSS Solenoi 5 order of the is currently lity is occur normality is code (6 dig currences o	d 100. 5h 7 e abnormality r occurring ring currently not concurrently cur gits) f the abnormality	rrently		
	(6) Indicates the service meter(7) Indicates the service meter	reading wh	nen the abnormality nen the abnormality	occurre occurre	d for the first time d last time	
	Precautions	Others	Tools to be used Name	Q'ty	Facilities to be used Name	Q'ty
<u></u>			-			

	Assembly procedure	NO.0020	Deletion of electric	al syste	em abnormality record					
	1-1. Deletion of one electri	cal system al	onormality record							
	 On the "Electrical System in order while holding down switch are enabled and the Electrical Systems 	ns" screen, pro the DOWN (ir icons are dis 01	ess the "▲1", "▲2", ✔) switch, and the E played at the botton	and "A NTER s n of the	UTO3" numeral keys switch and MENU screen.					
××	0/1/2 E Disconnection of ECSS Sole 15 First 0, 5h La 02/12 <u>ESFLH</u> Malfunction of ECMV (2nd) 14 First 0, 4h0 02/12 <u>DIKKAK FINE Lover Input Signal Deca</u> 04/12 <u>DINKAK Disconnection of Sinit Lever</u> 05/12 <u>DHPOKX</u> Out of Range of Soom Head 11 First 0, 2h La	tood st 100, 5h st 100, 4h monection st 100, 3h lout st 100, 2h Press, Sensor st 100, 1h exert								
	② Select an abnormality record that you desire to delete with the UP (▲) and DOWN (▼) switches and press the ENTER switch, and the screen moves to the "Electrical Sys. Error Reset" screen.									
	Electrical Sys. Error Reset D192KA Disconnection of ECSS Solenoid Reset?									
	③ Press the ENTER switc record is deleted.	h, and the scre	een moves to the foll	lowing s	screen and the					
× ×	Electrical Sys. Error Reset D192KA Disconnection of ECSS Solenoid Reset!									
	(4) After the abnormality re- screen. Check that the sele	cord is deleted acted record ha	, the screen moves as been deleted.	to the "	Electrical Systems"					
	Precautions		Tools to be used	0'ty	Facilities to be used	O'tv				
			INAILIE	Q IY	INAILIE	Qiy				
	1									
\square	1	Others								
××										
	L <mark>L</mark>		A 1 811							

		Assembly procedure	0 0020	Deletion of electric	al sve	tem abnormality record					
			0.0020		ai sys						
		1-2. Deletion of all electrical s	<u>ystem abn</u>	ormality records							
		① On the "Electrical Systems" s in order while holding down the switch are enabled and their ico	screen, pres DOWN (▼ ons are disp	ss the "▲1", "▲2",) switch, and the El layed at the bottom	and ". NTER I of th	AUTO3" numeral keys switch and MENU e screen.					
\ ↓ ×	\&×	Electrical Systems 01/12 E D192KA Disconnection of ECSS Solenoid 15 First 0.5h Last 02/12 15SFLH Malfunction of ECMV (2nd) 14 First 0.4h Last 03/12 DDK6KA FNR Lever Input Signal Disconnect 13 First 0.3h Last 04/12 DF10KA Disconnection of Shift Lever Input 12 First 0.2h Last 05/12 DHP0KX Out of Range of Boom Head Press 11 First 0.1h Last	01 100.5h 100.4h 100.3h 100.3h 100.2h s.Sensor 100.1h								
		2 Press the menu switch, and the screen moves to the "Electrical Systems" screen.									
		Electrical Sys. Error Reset Reset AN?									
		③ Press the ENTER switch, and deleted.	d the scree	n moves to the follo	wing	screen and the record is					
×	\&×	Electrical Sys. Error Reset All Reset!									
\square											
		④ After the abnormality records Systems" screen. Check that all	are deleted	d, the screen moves s have been delete	s to tł d.	ne "Electrical					
		Precautions		Tools to be used	0.1	Facilities to be used					
				Name	Q'ty	Name	Q'ty				
Ц											
×	×		Others	l							
⊲	∢										
			KOM	NTSU							

		Assembly procedure	NO.0030	Selection of opt	ions		
		1. Selection of options					
		Select options according	to the following	g procedure.			
		(1) While [01 Monitoring / Prewith the UP (\blacktriangle) and DOWN	e-defined] is se (▼) switches.	lected in the "Servio	ce Me	nu", select [07 Default]	
		(For how to enter the se	rvice menu, se	e No. 0010 "Setting	of ma	achine monitor".)	
		Service Menu	07				
		02 Monitoring / Custom 03 Abnormality Record					
×	×	04 Maintenance Record					
	Z	05 Maintenance Mode Setting					
		v of Default					
		A T A					
		Press the ENTER switch,	and the scree	n moves to the "Def	fault" :	screen.	
		Default	01				
		O1 Machine Model Select	WA470				
		02 Option Select	\$I				
		04 Rear View Monitor Setting					
			\checkmark				
				-			
		③ Select [02 Option Select]	with the UP () and DOWN (▼) s	switch	es and press the ENTER	
~	~	switch, and the screen move	es to the "Optio	n Select" screen.			
Ś	∕.						
		Option Select		1			
		02 Multicoupler	NO ADD				
		03 Semi-auto Digging	ADD				
	-	04 Load Meter	NO ADD	-			
		v 06 Auto Grease	NO ADD				
			\checkmark				
		Precautions		Tools to be used Name	Q'tv	Facilities to be used Name	Q'tv
╞	Н		Others				
×	×						
₹	R						
			KOM	6			

	Assembly procedure	2 NO.(0030	Selection of opt	ions		
	1-1. Option selecting	function					
	* An option setting i setting and the star off perfectly (about	s enabled v ting switch i 15 seconds	when the is turned a later).	starting switch is tu OFF and each cor	urned itrolle	ON after changing the r on the machine is turned	l
	On the "Option Sele and determine it wit	ect" screen, th the ENTE	select a ER switcl	n item with the UP n, and set each iten	(▲) a n in oi	nd DOWN (▼) switches rder.	
	★ Optional components in	stallation sett	ing table	orko			
	Work Equipment Control		Soc	"1-2 Change or settir	ng of "	Work Equipment Control"	-
××	Multicoupler	NO ADD	Per opti	form following setting a		ding to installation state of	
<u>a</u> a			· // (JA - // (PAN SPEC"	destina	ation is inside Japan, set	_
			"OT	HERS"			_
	Semi-suto Digging		· 11 (PUIDT IS NOT INSTALLED, PUIDT IS NOT INSTALLED, PUIDT and do not one			-
	Semi-auto Digging		Sei	ADD and do not cha	nge • "ADC)" (only IPN specification)	-
	Room specification	Standard	II UL Dor	form following sotting		ding to been specification	-
	Boom specification	Stanuaru	- EI	STD boom is installed	soloc	t "Standard"	-
			• f	high-lift boom (optional	, <u>30100</u> 1) is ing	stalled select "High Lift"	
	Auto Grease	NO ADD	lf or	tion is installed, selec	t "ADD)" (only EU specification)	
	Battery Electrolyte Level Sensor	NO ADD	Set	"NO ADD" and do not	chang	ge	
	Tire Size Compensation 0%		If displayed travel speed is not correct, adjust it with this function				
	Tire Type	A	Wh (Do	en tire of type 26.5 is in not select A which is	nstalle for set	ting of tire of type 23.5)	0.
	Emergency Steering	ADD	lf op	tion is not installed, se	elect "l	NO ADD"	
	J/S or FNR SWITCH	NON	Wh inst	en MF lever or right FN alled, select "OPT FNI	NR (for R".	ward-reverse) switch is	
	Lift Up Mode	ADD	Set	"ADD" and do not cha	nge		
	E.C.S.S.	ADD	Set	"ADD" and do not cha	nge		
ÂÂ	Torque Converter Lockup	NO ADD	Set	"ADD" and do not cha	nge		_
	4th Gear Prohibition	NO ADD	Set	"NO ADD" and do not	chang	ge	_
	I wo Stage Low Idle	NO ADD	Per opti	orm following setting a on and destination	destin	ding to installation state of	
			"HE	ATER"	destin	ation is outside Japan, set	_
			"KC	HAG"	set "N		_
 	F1 PWR CUT	ADD	Set	"ADD" and do not cha	nge		
	Komatsu SmartLoader Logic	ADD	Set	"ADD" and do not cha	nge		
	Precautions			Tools to be used		Facilities to be used	
				Name	Q'tv	Name	Q'tv
			Others				1
× ₹							

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	Assembly procedure N	0.0030	Selection of op	tions		
	1-2. Change or setting of "Wor	<u>k Equipm</u>	ent Control"			
	 On the "Option Select" screet DOWN (▼) switches. Press the ENTER switch, and the screen. 	en, select "(he screen r)1 Work Equipment	t Conti c Equip	rol" with the UP (▲) and oment Control" setting	
ه× ه×	Work Equipment Control TYPE A TYPE B TYPE C TYPE D Main Valve Type: 2 spool Lever Type: 2 levers					
	(2) Select related specification fi and enter it with the ENTER sw	rom TYPES itch.	S A to G with the U	P (▲)	and DOWN (▼) switches	
	③ After setting is completed, th	e screen re	eturns to the "Optio	n Sele	ect" screen automatically.	
	 TYPE A Main valve type: 2-spool valve Lever type: 2 lever TYPE B Main valve type: 2-spool valve Lever type: MF lever TYPE C Main valve type: 3-spool valve Lever type: 3 lever TYPE D Main valve type: 3-spool valve Lever type: MF lever and PCS TYPE E This type is not used. TYPE F This type is not used. TYPE G)))	Remarks: The follow set, deper Equipmer • Semi-au • Load Mo • Boom M	ving oj nding nt Con uto Dig eter lodel	ption selections cannot be on a type set with the "Work trol". gging	
	This type is not used.					
	Precautions		Tools to be used		Facilities to be used	
			Name	Q'ty	Name Q'	'ty
××		Others		<u> </u>	I	
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	Assembly procedure NO	.0030	Selection of opt	ions						
	<u>1-3. Setting of "Tire Size Compe</u>	ensation"								
	 On the "Option Select" screen, and DOWN (▼) switches. Press the ENTER switch, and the 	select "08 screen m	3 Tire Size Comper noves to the "Tire Si	nsation ize Co	n" with the UP (▲)					
A× A×	Option Select 08									
	② The set value is increased 1% DOWN (▼) switch. Enter the setting with the Enter sw	with the L vitch.	JP (▲) switch and o	decrea	ased 1% with the					
	③ After setting is completed, the screen returns to the "Option Select" screen automatically.									
	1-4. Selection of setting/no-setti	ing of op	tions							
	 Change each item which is app component installation setting tab 	olicable to le" by the	setting/no-setting s following setting.	selecti	ion in the "Optional					
	* When each option is not selecte "ADD" is displayed.	d, "NO AI	DD" is displayed. If	the op	otion is selected,					
× ×	② "NO ADD" and "ADD" can be s entered with the ENTER switch.	elected w	ith the UP ($lackslash$) and	DOW	/N (▼) switches and					
	Option Select 01 Multicoupler 02 N0 ADD 03 ADD 04 05 06 Image: Comparison of the second s		02							
	Precautions		Tools to be used Name	Q'ty	Facilities to be used Name	Q'ty				
× ×		Others								

	Assembly procedure NO.	0030	Selection of opt	ions						
	1-5. Saving of selection of options ① After setting each item, turn OFF the option setting screen with the RETURN switch, and the following screen appears. Option Select									
××	Options are set. Please Settings will be valid after	key off. next key or	1 .							
	② Turn the starting switch to the O completely.	FF posit	ion to stop the oper	ation	of the controller					
	*If any option was selected, be sure to turn the starting switch to the OFF position and wait for about 15 seconds, and then turn the starting switch to the ON position again. ③ When the starting switch is turned to the ON position, the set option selection is enabled.									
××	Remarks: After ②, if the starting switch is turned to the ON position without waiting for 15 seconds, an error warning alert is displayed. If an error warning alert is displayed, turn the starting switch to the OFF position again, wait for at least 15 seconds, and then turn the starting switch to the ON position, and the error is turned OFF.									
	Precautions		Tools to be used		Facilities to be used					
			Name	Q'ty	Name	Q'ty				
$\left + \right $	┫									
	4	Others								
x x			I							
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	Accomply procedure		Adjustment of worl	k equi	pment controller boom					
	Assembly procedure NO.	0040	angle							
	1. Adjustment of boom angle Adjust the work equipment controller boom angle according to the following procedure. While [01 Monitoring / Pre-defined] is selected in the "Service Menu", select [09 Adjustment] with the UP (▲) and DOWN (▼) switches. (For how to enter the service menu, see No. 0010 "Setting of machine monitor".)									
×××	X Waintenance Record 05 Maintenance Node Setting 06 Phone Number Entry 07 Default 08 Diagnostic Tests 09 Adjustment Press the ENTER switch, and the screen moves to the "Adjustment" screen									
	Fless the ENTER Switch, and the	Scieenn		ment	Scieen.					
	Adjustment 06 06 Boom Angle Sensor for EPC (Raise) 07 Boom Angle Sensor for EPC (Lower) 08 Boom Raise Adjustment 09 Boom Lower Adjustment 10 Bucket Tilt Adjustment 11 Bucket Dump Adjustment									
	1-1 Adjustment of Boom angle (
×	 Select [06 Boom Angle Sensor switches and press the ENTER sy (Raise)" adjustment screen. 	for EPC vitch, and	(Raise)] with the U d the screen moves	P (▲) to the	and DOWN (▼) e "Boom Angle Sensor					
	Boom Angle Sensor for EPC (Raise) 0 SET 0: Waiting SET; Set 1: OK 2: NG	V								
	- (2)									
		—								
	Precautions		Tools to be used		Facilities to be used					
			Name	Q'ty	Name	Q'ty				
\vdash	┫									
\square	4	Othere								
		Uners	J							
<u>ا</u> لاً										
		КОМ	NT'SU							

	Assembly proced	ure NO	.0040	Adjustm angle	ent of worl	c equi	pment controller boom	
	2 Raise the boom	to the upper li	mit (cylir	nder strok	e end) and	then	press the ENTER switch.	
	③ When the display	y changes to "	1", adju:	stment is o	completed.			
	④ Press the ENTE If the RETURN switt calibration process.	R switch to fin tch is pressed	ish the a during a	adjustmen adjustmen	t mode. t, adjustme	ent is f	inished even in the	
××	Boom Angle Sensor 0 0: Waiting 1: OK 2: NG	for EPC (Raise) SET SET; Set						
Π	⑤ If the display change adjustment is not p	anges to "2", t performed.	he boom	n angle vo	Itage is out	t of sp	ecification and	
	Boom Angle Sensor 0 0: Waiting 1: OK 2: NG 6 If adjustment is	for EPC (Raise) SET; Set not performed	, check	the boom	angle sens	sor by	"monitoring".	
×× ØØ	⑦ Adjust the boom monitoring is in the	n angle sensor following rang	installat ge, and t	tion positio then adjus	on so that t t the angle	he vol sens	tage displayed by or again.	
	Deces							
	specification	Boom position	Voltag	ge range				
	STD Hi Lift	Highest	3.77 <u>-</u> 3.88 -	± 0.3 V ± 0.3 V				
		·						
	Precautions			Tools to	be used	0'+	Facilities to be used	
				INAILIE		ωιy	INAILIE	Qiy
	-							
\vdash	1		Others	5				
××				_				
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\prod	Assembly procedure NO	.0040	Adjustment of work	c equi	pment controller boom	
	1-2. Adjustment of boom angle ① Select [07 Boom Angle Sensor	(LOWER) (Lower)] with the UI	P (▲)	and DOWN (▼)	
	switches and press the ENTER sw (Lower)" adjustment screen.	witch, and	I the screen moves	to the	e "Boom Angle Sensor	
××	Boom Angle Sensor for EPC 0 SET 0: Waiting SET; Set 1: OK 2: NG					
<u> ধ্</u> বার্থ						
	② Lower the boom to the lower lir	nit (cylinc	ler stroke end) and	then p	press the ENTER switch.	
	③ When the display changes to "'	1", adjust	ment is completed.			
	④ Press the ENTER switch to fini during adjustment, adjustment is f	sh the ad inished e	ljustment mode. If th ven in the calibratio	ne RE n pro	TURN switch is pressed cess.	
	Boom Angle Sensor for EPC (lower 1 0: Waiting 1: OK 2: NG	.r) N				
×× ØØ	⑤ If the display changes to "2", th adjustment is not performed.	e boom a	angle voltage is out	of spe	ecification and	
	Boom Angle Sensor for EPC (lowe 1 0: Waiting 1: OK NO	er) N				
	2: NG					
	Precautions		Tools to be used		Facilities to be used	
			Name	Q'ty	Name	Q'ty
$\left \right $						
		Others]		1	1
×× ₹						
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		Assembly proced	lure NO.0	040	Adjustn angle	nent of work	c equi	oment controller boom				
		 6 If adjustment is 7 Adjust the boom monitoring is in the 	⑥ If adjustment is not performed, check the boom angle sensor by "monitoring". ⑦ Adjust the boom angle sensor installation position so that the voltage displayed by monitoring is in the following range, and then adjust the angle sensor again.									
		Boom	Boom position	Voltage	rango							
		specification	Lowest	1 38 +	0.3 V							
_		Hi Lift		1.49 ±	0.3 V							
×	×											
¢												
	_											
	\vdash											
×	×											
	<u> </u>											
_	_											
		Procedutions			Tools to	bousod	<u> </u>	Eacilities to be used	1			
		recautions			Name	be used	Q'ty	Name	Q'ty			
			-									
			-									
┝	+											
			F									
F		1		Others								
×₹	×											
					_							

	Assembly procedure	0050	Adjustmer	nt of work	c equi	pment EPC lever detent			
	NO.	0050	position						
	1. Adjustment of work equipment El	PC lever	detent po	<u>sition</u>					
	1-1. Check of items *Perform the following correction	on with t	he engine	stopped.					
	(1) While [01 Monitoring / Pre-define [09 Adjustment] with the UP (\blacktriangle) ar	ed] is se nd DOW	lected in th N (▼) swit	ie "Servic ches.	ce Me	nu", select			
	(For how to enter the service menu, see No. 0010 "Setting of machine monitor".)								
	Service Menu	09							
x x	 O4 Maintenance Record O5 Maintenance Mode Setting 								
44	06 Phone Number Entry								
	08 Diagnostic Tests								
	✓ 09 Adjustment								
	② Press the ENTER switch, and the end of	e screer	n moves to	the "Adju	ustme	nt" screen.			
	Adjustment	08							
	09 Boom Lower Adjustment								
	10 Bucket Tilt Adjustment 11 Bucket Dump Adjustment								
	12 Change of Boom Lever Pattern								
	③ Select a work equipment EPC a	diuetmor	at item fron	adjuetm	oont it	ems No. 08 to No. 10			
	with the UP (\blacktriangle) and DOWN (\triangledown) sv	vitches.		raajastii					
××	Boom RAISE : No.08		* Respe	ctive item	ns mu	st be set up			
	Boom LOWER : No.09		indepen	dently					
	08 Boom Raise Adjustment			Boom F	RAISE				
	09 Boom Lower Adjustment			Boom L	OWE	R			
	10 Bucket Tilt Adjustment			Bucket	TILT				
	Precautions		Tools to be	e used	0'*	Facilities to be used	04		
			INGILLE		Qiy	INAILIE	QIY		
		Others					<u> </u>		
×× ₹									
		KOM	M'SU						



		Assembly procedure	NO.0050	Adjustment of wor	k equip	oment EPC lever detent		
		1-2. Adjustment of each EF	PC lever					
		*After performing steps $①$ to detent position", perform the The screen displays the "Wo	 ④ Of No. 005 following work following work 	0 "Adjustment of wo <. EPC lever detent so	ork equ et" in p	lipment EPC lever revious step ④.		
		[Adjustment of boom RAIS	E detent posi	tion]				
		*Perform the following correct	ction with the e	engine stopped.				
		5-1. Lower the boom to the	ground.					
×	×	6-1. Stop and hold the boom lever just before the RAISE detent position.						
S		⑦-1. Press the ENTER swith changed and saved.	ch, and the lev	er voltage is read a	ind the	standard value is		
		⑧-1. When the display chan	iges to "1", set	ting is completed.				
×		Boom Raise Adjustment 1 0: Waiting 1: OK 2: NG	■ pressed while ge), the display	the lever output vo changes to "2" and	ltage is d adjust	s below the standard tment is canceled.		
		①-1. Finish the adjustment r If the RETURN switch is	node with the pressed durin	RETURN switch. a adiustment. adius	stment	is finished even in the		
		calibration process.	F					
		Precautions		Tools to be used	0'+	Facilities to be used	0'+	
				Name	Qty	Indille	Qiy	
\vdash								
			Others					
×	∆×			4				
			KOM	ATSU				
				17				

	Assembly procedure		Adjustment of wor	k equip	ment EPC lever detent					
		NO.0030	position							
	[Adjustment of boom LOW	ER (FLOAT)	detent position]							
	*Perform the following correct	ction with the	engine stopped.							
	5-2. Lower the boom to the	ground.								
	6-2. Stop and hold the boor	n lever just be	efore the FLOAT det	ent pos	sition.					
	⑦-2. Press the ENTER swite changed and saved.	ch, and the le	ver voltage is read a	nd the	standard value is					
	8-2. When the display chan	ges to "1", se	tting is completed.							
	Boom Lower Adjustment 1 0: Waiting 1: OK 2: NG	t N								
	9-2. If the ENTER switch is pressed while the lever output voltage is below the standard value (out of the design range), the display changes to "2" and adjustment is canceled.									
×	Boom Lower Adjustment 2 0: Waiting 1: OK 2: NG	t								
	10-2. Finish the adjustment n	node with the	RETURN switch.							
	If the RETURN switch is	pressed durir	ng adjustment, adjus	tment i	s finished even in the					
	calibration process.									
	Procoutions		Tools to be used		Eacilities to be used					
	riecaulons		Name	Q'ty	Name	Q'ty				
		Others	_							
ÂĂ										
		Ком	ATSU							

	Assembly procedure	NO 0050	Adjustment of wor	k equipr	ment EPC lever detent						
 		NO.0030	position								
	[Adjustment of bucket tilt	detent positio	n]								
	"Perform the following corre	renorm the following correction with the engine stopped.									
	5-3. Lower the boom to the	ground.									
	6-3. Stop and hold the buc	ket lever just b	efore the TILT deter	nt positio	on.						
	⑦-3. Press the ENTER switch, and the lever voltage is read and the standard value is changed and saved.										
	8-3. When the display char	nges to "1", set	ting is completed.								
	Bucket Tilt Adjustment 1 0: Waiting 1: OK 2: NG										
	9-3. If the ENTER switch is value (out of the design range)	pressed while ge), the display	the lever output vo changes to "2" and	ltage is l I adjustn	below the standard nent is canceled.						
×	Bucket Tilt Adjustment 2 0: Waiting 1: OK 2: NG	N									
	10-3. Finish the adjustment	mode with the	RETURN switch.								
	If the RETURN switch is	s pressed durir	g adjustment, adjus	stment is	s finished even in the						
	Precautions		Tools to be used		Facilities to be used	d Oli					
			Name	Q'ty	Name	Qʻty					
		Others									
Å Å											
		KOM	ATSU	_		_					

	Assembly procedure NC	D.0060	Adjustm current	ent of work	< equij	oment EPC starting	
	1. Adjustment of work equipment	EPC start	ing curre	<u>ent</u>			
	1-1. Check of items		_				
	*Perform the following correction	while the	engine is	running.			
	(1) While [01 Monitoring / Pre-dewith the UP (\blacktriangle) and DOWN (\triangledown)	fined] is se) switches.	elected in	the service	e mer	nu, select [09 Adjustment]	
	(For how to enter the service	e menu, se	e No. 00 ⁻	10 "Setting	ofma	achine monitor".)	
××	Service Menu 04 Maintenance Record 05 Maintenance Mode Setting 06 Phone Number Entry 07 Default 08 Diagnostic Tests 09 Adjustment	09					
	2 Push the ENTER switch, and	the screen	moves t	o the "Adju	ustme	nt" screen.	
	Service Menu 04 Maintenance Record 05 Maintenance Mode Setting 06 Phone Number Entry 07 Default 08 Diagnostic Tests 09 Adjustment	09					
\vdash	③ Select a work equipment EPC with the LIP (▲) and DOWN (▼)	adjustme	nt item fr	om adjustn	nent il	tems No. 08 to No. 10	
× ×	Boom RAISE : No.08 Boom LOWER : No.09 Bucket TILT : No.10 Bucket DUMP : No.11	Switches.	* Resp indepe	ective iten endently	ns mu	st be set up	
	08 Boom Raise Adjustment			Boom RA	ISE		
	09 Boom Lower Adjustment			Boom LC	WER		
	10 Bucket Tilt Adjustment			Bucket T	ΊLΤ		
	11 Bucket Dump Adjustment			Bucket F			
				Buoket			
	Precautions		Tools to	be used	<u>O'ty</u>	Facilities to be used	0'+v
			Indiffe		Qiy	Nallie	Qiy
		Others					
× × ₹							

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	Assembly procedure NO.	0060	Adjustment of worl current	k equi	pment EPC starting	
	④ Press the ENTER switch, and the second sec	he work	equipment EPC leve	er det	ent set screen appears.	
	Boom Raise Adjustment 0 SET 0: Waiting SET; S 1: OK 2: NG	N Set	Boom RAISE	E		
	Boom Lower Adjustment 0 SET 0: Waiting SET; S 1: OK 2: NG	N Set	Boom LOWE	R		
	Bucket Tilt Adjustment 0 SET 0: Waiting SET; S 1: OK 2: NG	N Set	Bucket TILT			
×	Bucket Dump Adjustment 0 SET 0: Waiting SET; Se 1: OK 2: NG	N t	Bucket DUM	Ρ		
	*After performing steps $①$ to $④$ of "Adjustment of each EPC lever" or	this pro	cess, perform adjus owing page.	tment	steps ⑤ and after in	
	Precautions		Tools to be used		Facilities to be used	
			Name	Q'ty	Name	Q'ty
	1					
]	Others				
× ×						
	<u>-</u>	KOM	ATSU			

		Assembly procedure	NO.0060	Adjustment of worl current	k equip	oment EPC starting					
		1-2. Adjustment of each EP	C lever								
		*After performing steps $①$ to current", perform the followin The screen displays the "Wo	 ④ of No. 006 ng work. ork equipment 	0 "Adjustment of wo	ork equ et" in p	uipment EPC starting revious step ④.					
		[Adjustment of boom LOW *Perform the following correct	ER] ction while the	engine is running.							
		⑤-1. Set the boom almost he engine speed at high idle.	orizontally with	no-load and then l	ower it	gradually with the					
×	×	6-1. Slowly return the boom When the boom	lever from LO	WER toward NEUT	RAL v	vith fine control.					
		\bigcirc -1. Press the ENTER swite from the standard value is satisfied to be the standard value is satisfied.	ch, and the EP aved as an offs	C command value i set value.	s read	and the difference					
		⑧-1. When the display changes to "1", setting is completed.									
		Boom Lower Adjustment 1 0: Waiting 1: OK 2: NG	t N								
-		9-1. If the ENTER switch is value (out of the design rang)	pressed while e), the display	the lever output vol changes to "2" and	tage is adjus	s below the standard tment is canceled.					
L ×♥		Boom Lower Adjustment 2 0: Waiting 1: OK 2: NG	t N								
		${f I}\!{f 0}$ -1. Finish the adjustment n	node with the I	RETURN switch.							
		If the RETURN switch is calibration process.	pressed during	g adjustment, adjus	tment	is finished even in the					
		Precautions		Tools to be used	O'ty	Facilities to be used	<u>O'ty</u>				
				Name	Qiy	Indille	Qty				
_											
\vdash			Others								
×	× ¶∢										
	<u></u>		KOM	NTSU							
				22							

	Assembly procedure	NO 0060	Adjustment of work	< equi	pment EPC starting				
		10.0000	current						
	[Adjustment of bucket DUI *Perform the following corre	MP] ction while the	engine is running.						
	5-2. Set the boom almost h engine speed at high idle.	orizontally with	no-load and then d	lump i	t gradually with the				
	6-2. Slowly return the bucket bucket stops, hold the lever	et lever from D at the current p	UMP toward NEUTI	RAL w	vith fine control. When the				
	⑦-2. Press the ENTER swit the standard value is saved	ch, and the EP as an offset va	C command value i lue.	s reac	and the difference from				
× V	8-2. When the display char	iges to "1", set	ing is completed.						
	Bucket Dump 1 0: Waiting 1: OK 2: NG								
	9-2. If the ENTER switch is pressed while the lever output voltage is below the standard value (out of the design range), the display changes to "2" and adjustment is canceled.								
∆× ∆×	Bucket Dump 2 0: Waiting 1: OK 2: NG								
	10-2. Finish the adjustment r	node with the I	RETURN switch.						
Π	If the RETURN switch is calibration process.	pressed durin	g adjustment, adjus	tment	is finished even in the				
	Precautions		Tools to be used		Facilities to be used				
			Name	Q'ty	Name	Q'ty			
$\left \right $	4								
$\left \right $	1	Others							
XX									
22	<u> </u>	VOP							
			23						

\prod		Assembly procedure	NO.0060	Adjustment of worl	k equi	oment EPC starting				
		Adjustment of boom RAIS	SE1							
		*Perform the following corre	ection while the	e engine is running.						
		(5)-3. Dump the bucket fully boom to raise the front tires	with the boom	in the horizontal po	osition	, and then lower the				
		While running the engine a	t high idle, rais	e the boom (lower tl	he ma	chine) gradually.				
		6-3. Slowly return the boom the boom stops (with the tire	m lever from R res floated), ho	AISE toward NEUT Id the lever at the cu	RAL w urrent	vith fine control. When position.				
×	×	\bigcirc -3. Press the ENTER switch from the standard value is standard value value is standard value is standard value value is standard value	itch, and the El saved as an of	PC command value iset value.	is rea	d and the difference				
¶⊵	₽	⑧-3. When the display chat	nges to "1", se	tting is completed.						
		Boom Raise Adjustment 1 0: Waiting 1: OK 2: NG (9-3. If the ENTER switch is	N pressed while	the lever output vol	tage is	s below the standard				
		value (out of the design rang	ge), the display	changes to "2" and	l adjus	tment is canceled.				
∆×	\∆×	Value (out of the design range), the display changes to "2" and adjustment is canceled.								
		10-3. Finish the adjustment	mode with the	RETURN switch.						
		If the RETURN switch is calibration process.	s pressed durin	g adjustment, adjus	tment	is finished even in the				
		Precautions		Tools to be used		Facilities to be used				
				Name	Q'ty	Name	Q'ty			
H			Others							
×₹	Š									
<u> </u>			KOM	ATSU 24						

	Assembly procedure NO.	0060	Adjustment of work current	c equip	oment EPC starting	
	[Adjustment of bucket TILT]		-			
	*Perform the following correction v	while the	engine is running.			
	⑤-4. Dump the bucket fully with the to raise the front tires. While rupping the engine at high it	ne boom i	n the horizontal pos	sition, a	and then lower the boom	
		ыс, ше ни				
	bucket stops (with the tires floated), hold th	e lever at the curre	nt posi	ition.	
× ×	\bigcirc -4. Press the ENTER switch, an the standard value is saved as an	d the EP offset va	C command value i lue.	s read	and the difference from	
<u></u>	⑧-4. When the display changes to	o "1", sett	ing is completed.			
	Bucket Tilt Adjustment	N) ed while	the lever output vol	tage is	s below the standard	
	value (out of the design range), the	e display	changes to "2" and	adjus	tment is canceled.	
 ▼ × × × ×	Bucket Tilt Adjustment 2 0: Waiting 1: OK 2: NG					
	10-4. Finish the adjustment mode	with the F	RETURN switch.			
	If the RETURN switch is press calibration process.	ed during	g adjustment, adjus	tment	is finished even in the	
	Precautions		Tools to be used		Facilities to be used	
			Name	Q'ty	Name	Q'ty
		Others	l			
á á						
		KOM	NTSU 25			



Assembly procedure	NO.0070	Adjustment of	bucket	positioner	
1-2. Setting of bucket position ① On the "ECO Guidance" setting / Information Wachine Seting / Information Wachine Settin	tioner screen of the us on" screen. Default Mode A A ON 0.0 k	ser mode, operate	e the men	u switch to display th	e
② Select [Bucket Flat Level the ENTER switch, and the section of the section o	Select] with the screen moves t	e UP (▲) and DO o the "Bucket Flat	WN (▼) s : Level Se	witches and press elect" screen.	
Machine Setting / Information Machine Setting / Information Manual Fan Reverse Mode Manual Fan Reverse Mode Mato Kick Down Setting Bucket Flat Level Select Auto Kick Down Setting Bucket Flat Level Select	Default Mode A A ON ON ON ON ON ON ON ON ON Mode A ON ON </th <th>Remarks: The bucket three place With the flarecorded a be set at E</th> <th>ENTER t flat level es of A, B at level of at A, the flat 3.</th> <th>switch I can be recorded at , and C. the standard bucket at level of the fork ca</th> <th>n</th>	Remarks: The bucket three place With the flarecorded a be set at E	ENTER t flat level es of A, B at level of at A, the flat 3.	switch I can be recorded at , and C. the standard bucket at level of the fork ca	n
Drocoutional		Toola to be used		Essilition to be un	ad
		Name	Q'ty	Name	Q'ty
├┼┤					
├┼┤	Others				
××					
	KOM	27			

Assembly procedure NO.0070 Adjustment of bucket positioner (3) Select an item to record a flat level with the UP (\blacktriangle) and DOWN (\triangledown) switches and press the MENU switch, and the screen moves to the "Bucket Flat Level Adjustment" screen. Bucket Flat Level Select Bucket Flat Level Adjustment Bucket Flat Level Initialize × × ▼ ④ Press the ENTER switch while the "Bucket Flat Level Adjustment" is selected, and the following screen appears. Bucket Flat Level Adjustment STEP 1 Please Set Bucket to be Flat, and Put on the Ground. Check STEP 2 Please Raise Boom ิก ⑤ Set the bucket flat and lower it to the ground according to the instruction on the screen, and then press the ENTER switch, and the following screen appears. Bucket Flat Level Adjustment ×× STEP 1 Please Set Buket to be Flat, and Put on the Ground. STEP 2 Please Raise Boom ิก \checkmark Tools to be used Facilities to be used Precautions Name Q'ty Name Q'ty Others

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⊲

A	ssembly procedure NO.0	0070	Adiustment of b	ucke	t positioner	
	(6) Raise the boom to the upper limit completed and the following screen (7) If the bucket lever is operated withis case, setting is canceled and the following is canceled and the following screen	boro	Adjustment of b ling to the instructio s.	ing ca	t positioner the screen, and setting is annot be performed. In	
	STE Bucket Flat Level Adjustment Result Pi an Bucket Flat Level Adjustment Failed. STE Pi Check ✓					
	recentional					
Pr	ecautions		I ools to be used Name	Q'ty	Facilities to be used Name	Q'ty
		Othoro				
××		Uners	1			
\mathbb{A}						

	Assembly procedure	1080	Adjustment of rear	view I	monitor guide line			
	NO.(000	position					
	1. Adjustment of rear view monitor guide line position							
	Adjust the rear view monitor guide line position according to the following procedure.							
	1-1. Placing marks at rear of machine							
	① Stop the machine on a level place and secure a space behind it.							
	2 Clop and maximum on a level place and obtain a optage boilt in a line of the outside. 2 Place marks at 1.5 m from the roor and of the machine on the outside.							
	lines of the machine.		or the machine on t					
××	<u> </u>	@						
44								
		1	.5m					
		2						
	*Match the rear view monitor guide lines with these marks.							
	Reference drawing: The scene after	er adjust	ing rear view monito	or guid	ae line			
× ×	-		-11					
44	A Carter		A COM					
			G					
 								
	Precautions		Tools to be used		Facilities to be used			
			Name	Q'ty	Name	Q'ty		
		Others]					
$\hat{\mathbb{A}}$								
		KOM	NTSU 30					



\square	Assembly procedure	NO 0080	Adjustment of rear	view m	ionitor guide line	
×	④ Select [02 Guide Line Popush the ENTER switch, and screen. Guide Line Position Adjustment Point3 Point4	osition Adjustme d the screen m	ent] with the UP (▲) oves to the "Guide I	and D Line Po	OWN (▼) switches and sition Adjustment"	
	*Detail of each point Point 1 1 3 Point 3 *Use the Luminance contro	2 4 Po	oint 2	iew mo	nitor to adiust the	
	rear view monitor guide line					
× M V	LCD unit	Rear v	ew monitor Luminance co	ontrol sv	vitch	
	Switch box L	uminance cont	ol switch			
\ \ \ \ \ \ \ \ \ \ \ \ \ \	Precautions	Others	Tools to be used Name	Q'ty	Facilities to be used Name	Q'ty
		KOM	NT'SU 32			









	Assembly procedure NO.	0800	Adjustment of rear position	view r	nonitor guide line			
	② While "Horizontal Adjustment" is selected, operate the Luminance control switch to adjust the X coordinate of Point 3.							
		-	o⊤ o*					
×× Ø	③ After adjusting the X-coordinate	, push th	e ENTER switch to	selec	t "Vertical Adjustment".			
	Guide Line Position Adjustment Poi Poi Poi Poi Poi Poi Vertical Adjustment Vertical Adjustment							
	④ While "Vertical Adjustment" is seadjustment of point 3.	elected,	push the ENTER sv	witch a	gain to complete			
	*As a rule, do not adjust the Y-coordinates of Point 3 and 4 since they do not need to be adjusted.							
	<u>1-2-4. Adjustment of point 4</u>							
	Match point 4 with the line on the	ne left sid	de of the machine.					
	Precautions		Tools to be used Name	Q'tv	Facilities to be used Name	Q'tv		
××		Others]					
		KOM	NTSU					

	Assembly procedure	NO.0080	Adjustment of real position	r view r	nonitor guide line	
	(1) Select [Point 4] with the L and the screen moves to the	JP (▲) and D0 ອ "Point 4" adjເ	DWN (▼) switches a ustment screen.	and pre	ess the ENTER switch,	
××	Guide Line Position Adjustment Poi Poi Poi Vertical Adjustment Vertical Adjustment Vertical Adjustment					
	② While "Horizontal Adjustr the X coordinate of Point 4.	nent" is selecte	ed, operate the Lum	iinance	e control switch to adjust	
			5 d			
	③ After adjusting the X-cool	rdinate, press	the ENTER switch t	o selec	ct "Vertical Adjustment".	
×	Guide Line Position Adjustment Poi Poi Poi Poi Vertical Adjustment Vertical Adjustment Vertical Adjustment					
	④ While "Vertical Adjustment adjustment of point 4.	nt" is selected,	press the ENTER s	switch	again to complete	
	*As a rule, do not adjust the adjusted.	Y-coordinates	of Point 3 and 4 si	nce the	ey do not need to be	
	Procentions		Tools to be used		Facilities to be used	
			Name	Q'ty	Name	Q'ty
Ш						
$\left \right $		Others				
× ×						
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WA470-7 WHEEL LOADER

Form No GEN00122-00

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