

- (1) Pilot control lock lever
- (A) "Unlock"
- (B) "Locked"

- 1. PULL THE LOCK LEVER (LEFT SIDE WITH THE RED END) ALL THE WAY BACK TO THE LOCK POSITION.
- 2. MAKE SURE THE THROTTLE IS IN THE LOWEST POSITION (TOWARDS THE PICTURE OF THE TURTLE).
- 3. PUSH THE ENGINE STOP BUTTON DOWN (BACK RIGHT, RED BUTTON WITH THE WORD "STOP" ON THE TOP).
- 4. TURN THE KEY TO THE "START" POSITION. *
- 5. BRING THE THROTTLE TO THE HIGHEST POSITION (TOWARDS THE PICTURE OF THE RABBIT). **
- 6. LOWER THE LOCK LEVER (THIS WILL ACTIVATE ALL CONTROLS).
- * IN COLDER TEMPERATURES, IT IS BEST TO ACTIVATE THE GLOW PLUGS PRIOR TO STARTING THE ENGINE. THIS IS DONE BY TURNING THE KEY TO THE "RUN" POSITION (THE GLOW PLUG INDICATOR WILL LIGHT UP ON THE PANEL). LEAVE IN THIS POSITION FOR ROUGHLY 30 SECONDS. AFTER THE 30 SECONDS, TURN THE KEY TO THE "START" POSITION. IF IT'S NOT TURNING OVER, REPEAT THE GLOW PLUG PROCESS.
- ** THE MACHINE IS BUILT TO ALWAYS RUN ON FULL THROTTLE. OPERATING THE MACHINE ON LOW THROTTLE CAN CAUSE DAMAGE TO THE HYDRAULIC PUMP.

OPERATING NOTES AND TIPS

- DO NOT CRUSH OR COMPACT MATERIAL WITH A DROPPING ACTION OF THE BUCKET, AND AVOID USING SIZE SWEEPS TO MOVE EARTH PILES.

 THIS WILL CAUSE PREMATURE WEAR ON THE BUSHINGS AND CAN CAUSE DAMAGES THAT ARE NOT COVERED UNDER THE RENTAL DAMAGE WAIVER.
- DO NOT HIT THE DOZER BLADE WITH THE BOOM CYLINDER. MAKE SURE THAT THE BOOM IS AWAY FROM THE DOZER BLADE WHILE DOING DEEP EXCAVATION. IF NECESSARY, SWING THE MACHINE AROUND SO THAT THE DOZER BLADE IS AT THE OPPOSITE END OF THE SHOVEL SIDE WHILE DIGGING.
- ENSURE THAT DIESEL FUEL LEVELS ARE ALWAYS MONITORED. RUNNING THE MACHINE OUT OF FUEL WILL REQUIRE A SERVICE CALL TO CORRECT; WHICH IS NOT COVERED UNDER THE RENTAL DAMAGE WAIVER.

TRACK ADJUSTMENT

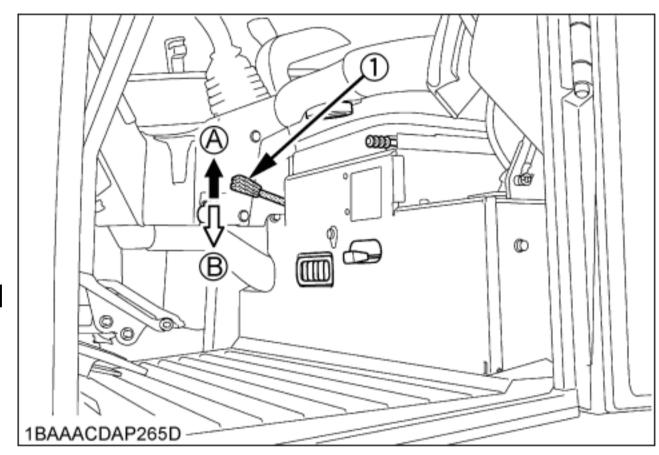
THE TRACKS CAN BE SET AT THE NARROW WIDTH

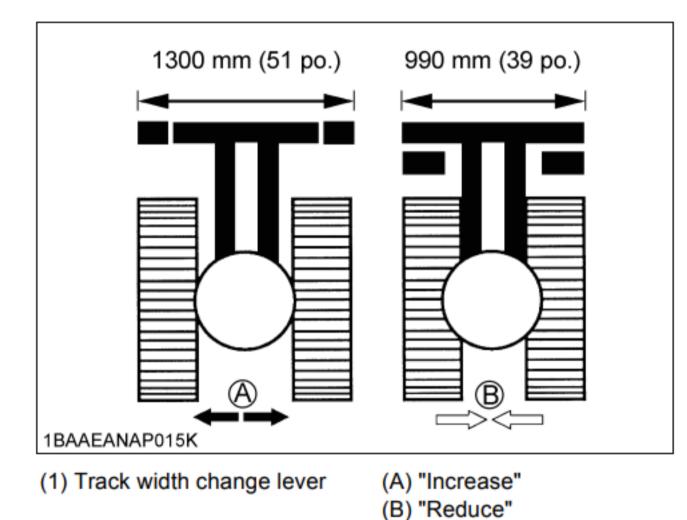
OF 39" OR THE STANDARD WIDTH OF 51". WHEN

CHANGING THE TRACK WIDTH, SET THE TRACK WIDTH

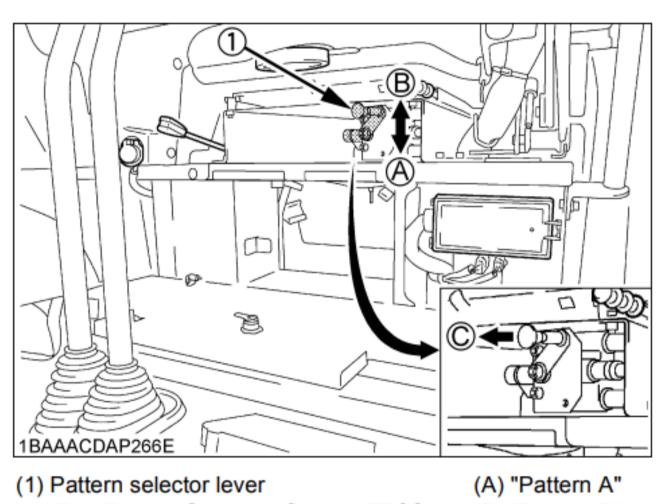
FULLY, STANDARD OR NARROW. IF NOT, THE

EXCAVATOR MAY UNINTENTIONALLY MOVE.

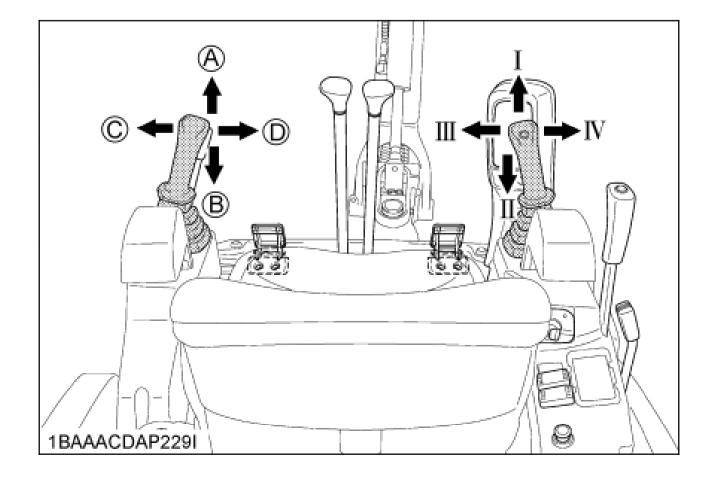




CONTROL PATTERN



1) Pattern selector lever (A) "Pattern A" (Two Pattern Selection System:TPSS) (B) "Pattern B" (C) Pull to unlock

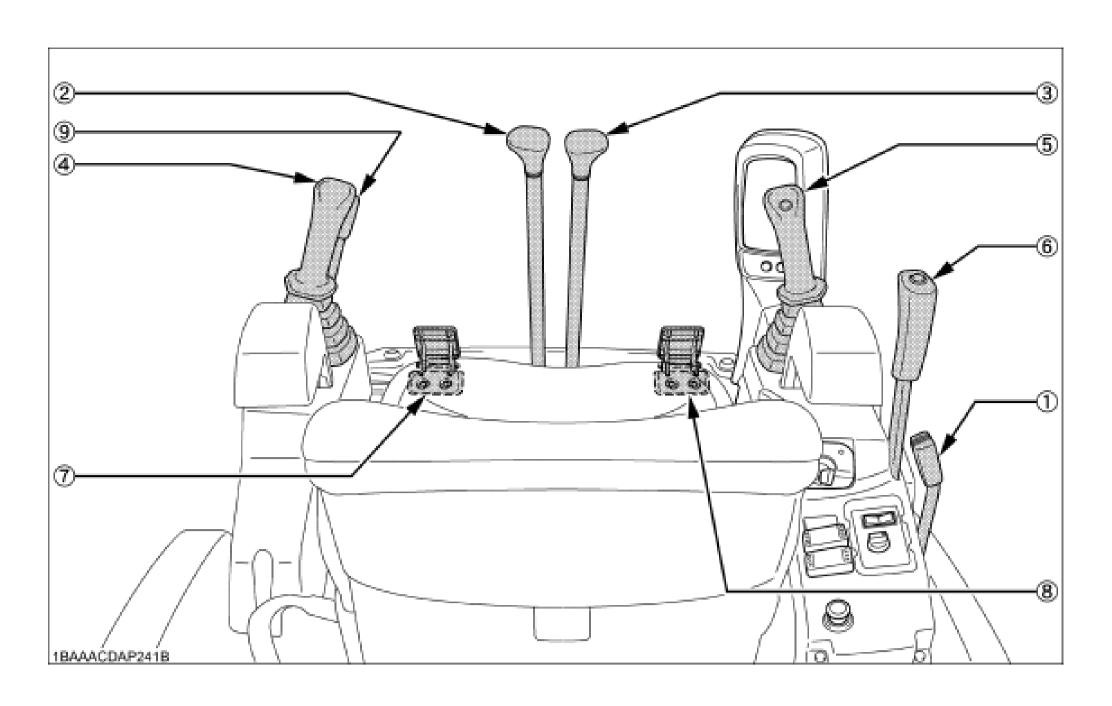


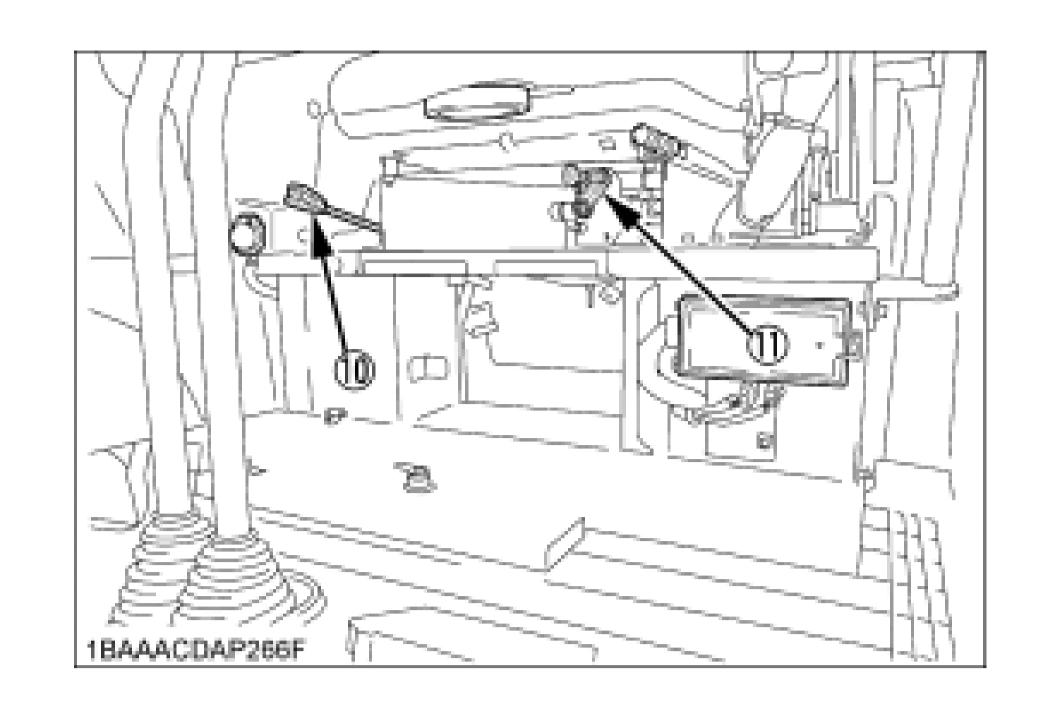
- STUDY CONTROL LEVER PATTERN A AND CONTROL LEVER PATTERN B. THEN CHOOSE THE ONE WHICH IS MOST FAMILIAR.
- FAMILIARIZE YOURSELF WITH THE PATTERN ON LOW THROTTLE (UNTIL COMFORTABLE).

 ENSURE THAT YOU ARE NOT PERFORMING WORK WHILE ON LOW THROTTLE, THIS IS JUST TO GET USED TO THE CONTROLS.
- BEFORE CHANGING PATTERNS,, BE SURE TO STOP THE ENGINE.
- LOCK THE PANEL ONCE SELECTED TO AVOID UNINTENTIONAL PATTERN CHANGES.

Lever Position		Pattern A	Pattern B	
Attachment Control Lever (Left)	A B C D	Boom down Boom up Swing left Swing right	Arm up Arm crowd Swing left Swing right	
Attachment I Control Lever II (Right) III IV		Arm up Arm crowd Bucket crowd Bucket dump	Boom down Boom up Bucket crowd Bucket dump	

CONTROL IDENTIFICATION

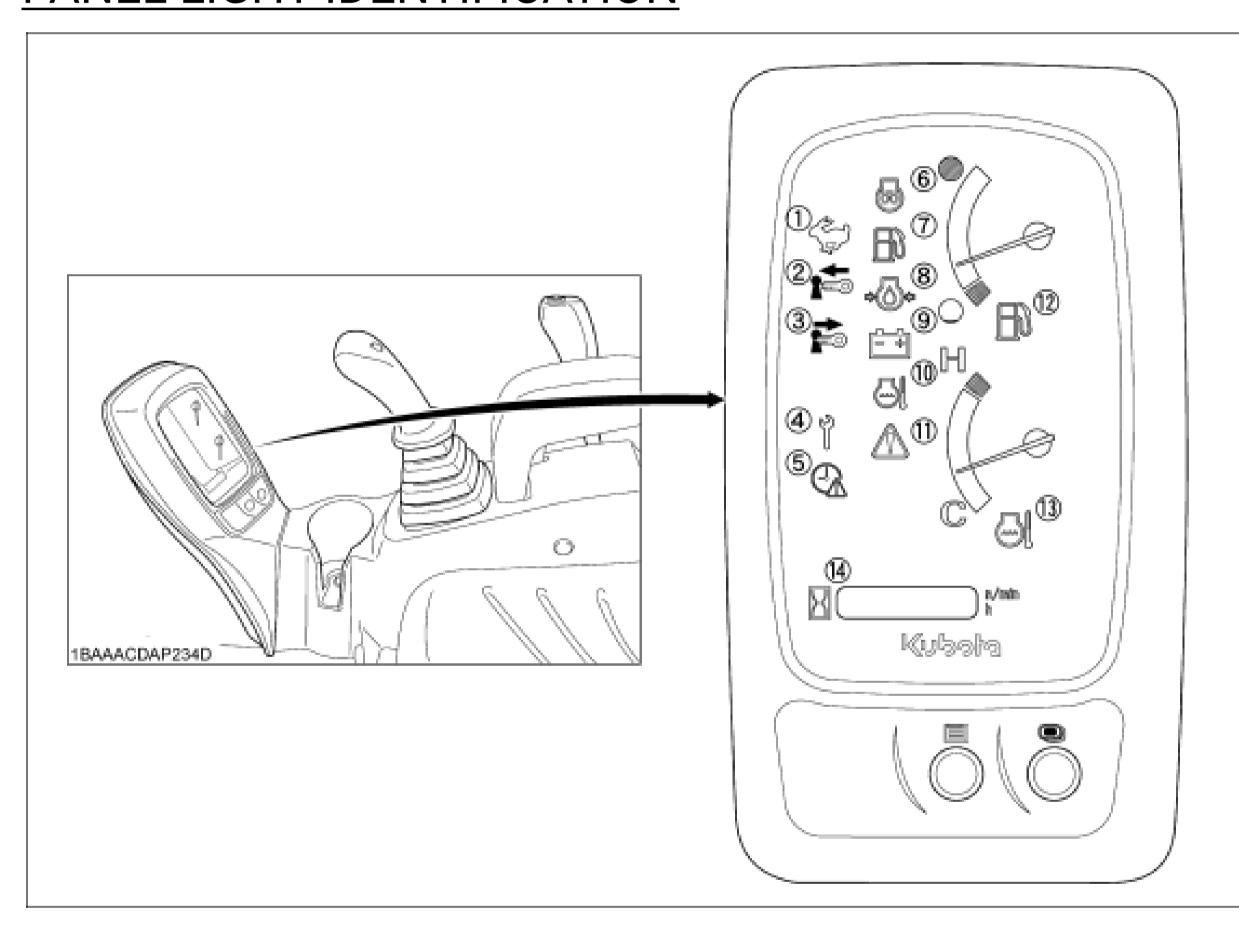




- (1) THROTTLE LEVER (2) DRIVE LEVER (LEFT)
- (3) DRIVE LEVER (RIGHT) (4) ATTACHMENT CONTROL LEVER (LEFT)
- (5) ATTACHMENT CONTROL LEVER (RIGHT)
- (6) DOZER CONTROL LEVER (7) AUX PORT PEDAL
- (8) BOOM SWING PEDAL

- (9) LOCK LEVER (UNLOAD LEVER)
- (10) TRACK WIDTH CHANGE LEVER
- (11) TPSS LEVER

PANEL LIGHT IDENTIFICATION



- (1) SPEED INDICATOR
- (2) INSERT KEY
- (3) PULL OUT KEY
- (4) PERIODIC MAINTENANCE CHECK
- (5) CLOCK SETTING REQUEST
- (6) GLOW PLUG
- (7) LOW FUEL WARNING
- (8) ENGINE OIL PRESSURE WARNING
- (9) BATTERY CHARGE
- (10) COOLANT TEMPERATURE WARNING
- (11) WARNING
- (12) FUEL GAUGE
- (13) COOLANT TEMPERATURE GAUGE
- (14) LCD DISPLAY

TROUBLESHOOTING

اء ≅ا	Boom, arm, bucket,	Hydraulic oil level too low	* Add oil
	drive, swing and dozer power is too low	Leakages of hoses and / or joints	*Replace hose or joint
Hydr	Swing motor and front attachment does not work	Lock lever in "LOCK" position	*Bring lock lever into "UNLOCK" position
Drive	Deviation of drive	Blocked through stones	* Remove
	direction	Track too loose or too tight	* Adjust accordingly
	rive lever does not move Lock lever in "LOCK" position		* Bring lock lever into "UNLOCK" position

	Trouble	Cause	Solution		
	Starting difficulties	Lock levers in "UNLOCK" position	* Bring lock lever into "LOCK" position		
		Fuel is too viscous	* Check fuel tank and filter * Remove impurities and water * If necessary, replace filter		
		Air or water in the fuel system	* Remove water from the fuel tank * Check fuel pipe joint bolts and nuts for looseness * Purging of the fuel system (for fuel filter and injection pump see "PURGING OF THE FUEL SYSTEM" in the chapter "OTHER ADJUSTMENTS AND REPLACEMENTS".)		
		Oil viscosity is too high the engine runs sluggishly in winter	* Pour hot water over the radiator		
		Battery is almost dead; insufficient compression	* Recharge battery		
	Insufficient	Low fuel level	* Check fuel and add if necessary		
	engine power	Clogged air cleaner	* Clean the air filter element		
	Engine suddenly stops	Low fuel level	* Check fuel and add if necessary * Purge the fuel system		
0	Abnormal exhaust gas colour	Poor fuel	* Use high quality fuel		
Engine		Too much engine oil	* Drain engine oil to prescribed oil level		
ū		Defective seal of the water pump	* Replace		
	Water temperature in red zone (Overheating)	Worn or torn fan belt	* Adjust or replace		
		Thermostat is defect	* Replace		
		Coolant level too low	* Fill to prescribed level		
		Radiator grill or fins are clogged	* Clean		
		Coolant is contaminated with rust from the cylinder head or crank case	* Replace coolant fluid and add anti-rust		
		Defective radiator cap (Evaporation)	* Replace		
		Corroded coolant pipes	* Clean		
		Continuous operation under full load	* Reduce load		
		Cylinder head gasket is damaged (Coolant loss)	* Replace		
		Engine oil level too low	* Fill to prescribed level		
		Maladjustment of fuel injection	* Readjust ignition timing		
		Use of poor fuel	* Use prescribed fuel		

	LCD display	LED	Problem / Error	Solution #1	Solution #2
1	CAN system error		The Controller Area Network (CAN) has developed a fault. Measured values may be incorrect and switches may not function.	started and driven. Do not perform any work with the	•
2	Feed fuel No display item		This message appears when the fuel level is low and prompts the operator to refuel.		Refuel the excavator.
3	Periodic check soon (notice) No display item	8	This message appears 10 hours before the periodic check interval. This message means that the regular service is due shortly.	Operate the machine as usual.	Ask your KUBOTA dealer about the relevant parts. Run the maintenance procedure.
4	Periodic check passed (warning) No display item	8	This message means that the regular service is due.	The machine can be operated but service must be carried out urgently.	Ask your KUBOTA dealer about the relevant parts. Run the maintenance procedure.
5	Warning temperature rising		The temperature of the coolant is higher than normal.		

	LED Display	LED	Problem / Error	Solution #1	Solution #2
9	Clock setting request No display item		Power was interrupted and the clock now has to be set again.	In order to set the	
10					
11	Raise the control lever lock No display item	(yellow)	This message indicates a step in a procedure.	Raise the lock lever (unload lever); the indicator goes out.	
12	Pull out the key No display item	1	The key must be pulled out.	Pull out the key.	
13	Lower the control lever lock No display item	(yellow)	This message indicates a step in a procedure.	Lower the lock lever (unload lever); the indicator goes out.	
14	Oil pressure too low	(red)	The engine oil pressure is too low.	Stop the engine immediately. The engine may have developed a fault.	Inform your KUBOTA dealer immediately.
15	Overheat E: 🔲 5		The machine is overheated and must cool off by idling.	Allow the machine to cool off by idling. Do not switch the engine off as the coolant could then boil over.	
16	Charging system error	(red) + +	The charging system has developed a fault.	Check the V-belt. When the V-belt is OK, let the engine run until the indicator goes out.	does not go out, inform your
17	Fuel sensor error	(red)	The fuel sensor has developed a fault; the fuel gauge does not appear in the display.	selector switch to	Inform your KUBOTA dealer immediately.
18	Water temperature sensor error	(red)	The coolant temperature sensor has developed a fault; the coolant temperature gauge does not appear in the display.	Press the display selector switch to return to the default display. The functions of the machine are stable but overheating cannot be excluded.	Inform your KUBOTA dealer immediately.
19	•••				
20	Lever lock system error	(red)		The engine can be started but the machine cannot be set in motion.	Inform your KUBOTA dealer immediately.
21	Travel 2 speed system error	(red)	The electrical system in the travel speed has developed a fault.	only be set in motion	-

	LCD Display	LED	Problem / Error	Solution #1	Solution #2
25	Overvoltage E: 025	(red)	This is a warning that a higher voltage (from a 24-V battery, for example) is being applied to the electric circuit, or that there is a problem with the alternator.	immediately and check the battery	If the indicator lights up again after restarting, inform your KUBOTA dealer immediately.
26					
27	External 5-V system error	(red)	The 5-V sensor supply line has developed a system fault. The main functions are not available.	started and driven. Do not perform any	-
28	External 12-V system error	(red)	The 12-V sensor supply line has developed a system fault. The main functions are not available.	Do not perform any work with the	
29	Starting the engine E: 🔲 🖂	(yellow)	This message indicates a step in a procedure.	Start the engine; the indicator goes out.	