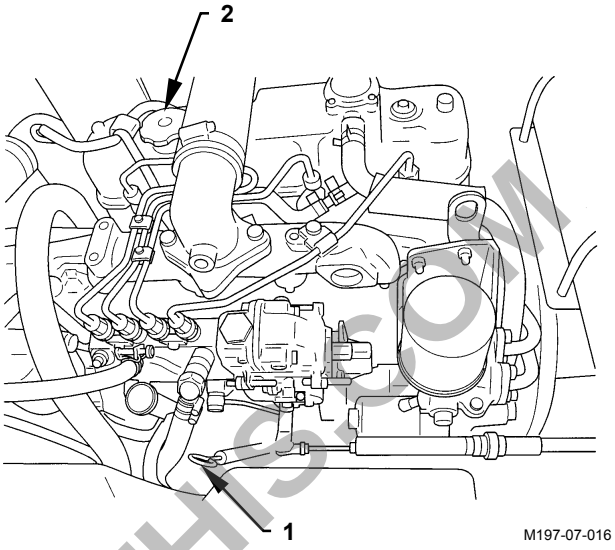
1 **Engine Oil Level --- check daily**

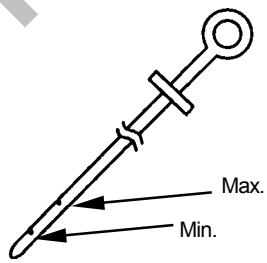


M197-07-016

IMPORTANT: For most accurate readings, check the oil level every day before starting the machine. Be sure the machine is on a level surface.

1. Remove dipstick (1). Wipe oil off with a clean cloth. Reinsert dipstick (1).
2. Remove dipstick (1) again. Read level. Oil level must be between the circle marks.
3. If necessary, add oil via oil filler cap (2). Be sure to use only recommended oil (see Recommended Engine Oil Chart).

NOTE: Checking the oil level immediately after shut down will result in inaccurate readings. Be sure to allow the oil to settle for at least 10 minutes before checking.



M178-07-011

2 **Change Engine Oil --- every 500 hours**

3 **Replace Engine Oil Filter --- every 500 hours**

1. Run the engine to warm oil. DO NOT run the engine until oil is hot.
2. Park the machine on a level surface.
3. Lower the bucket to the ground.
4. Turn the auto-idle switch off.

IMPORTANT: The turbocharger may be damaged if the engine is not properly shut down.

5. Run the engine at slow idle speed without load for five minutes.
6. Turn the key switch OFF. Remove the key from the key switch.
7. Pull the pilot control shut-off lever to the LOCK position.

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MAINTENANCE GUIDE

A. GREASING (See Page 7-12)

Parts		Quantity	Interval (hours)						
			8	50	100	250	500	1000	2000
1. Front Joint Pins	Bucket and Link Pins	5	★			★★			
	Others	10	★			★★			
2. Swing Bearing		2							
3. Swing Internal Gear		1							

NOTE: ★ Maintenance required when operating in water or mud and under extreamely severe condition.
★★ Maintenance required only during first time check.

IMPORTANT: Grease bucket and link pivots every day until break-in operation (50 hours) is complete. When a bucket without play adjustment devices, such as the slope finishing bucket and V type bucket, or any bucket other than the Hitachi genuine bucket is used, grease the two bucket connecting pins every 100 hours.

B. ENGINE (See Page 7-17)

Parts		Quantity	Interval (hours)						
			8	50	100	250	500	1000	2000
1. Engine Oil	Oil Level Check	1							
2. Engine Oil	Change	12.0 L (3.2 US gal)							
3. Engine Oil Filter	Replacement	1							

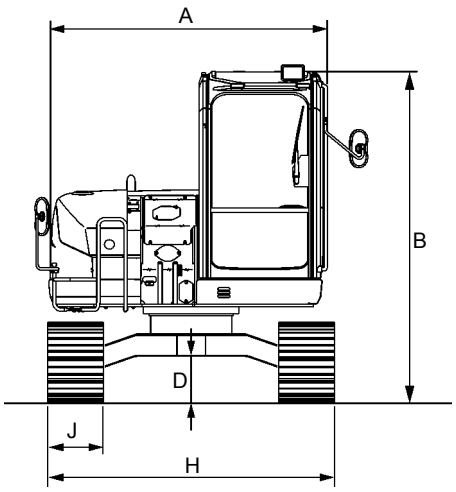
C. TRANSMISSION (See Page 7-20)

Parts		Quantity	Interval (hours)						
			8	50	100	250	500	1000	2000
1. Swing Reduction Gear	Oil Level Check	1							
	Change	1.8 L (1.9 US qt)							
2. Travel Reduction Gear	Oil Level Check	2							
	Change	2.5 L×2 (2.6 US qt×2)							

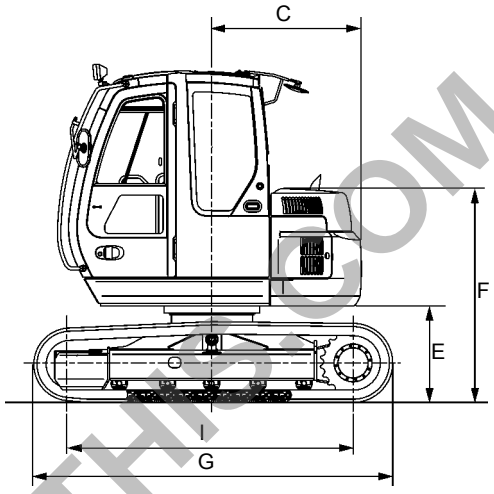
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SPECIFICATIONS



M1CC-12-002



M1CC-12-001

Model	ZAXIS75US Hydraulic Excavator
Type of Operator's Station	Cab
Front-End Attachment	Mono Boom (1.62m Arm) (5 ft 4 in Arm)
Shoe Type	Grouser Shoe
Standard Bucket Capacity (Heaped)	0.28 m^3 (0.37 yd^3)
Operating Weight	7100 kg (15650 lb)
Basic Machine Weight	5890kg (12990 lb)
Engine	ISUZU A-4JG1 40.5 kW (55 PS)/1900 min^{-1} (rpm)
A : Overall Width	2250 mm (7 ft 5 in)
B : Cab Height	2690 mm (8 ft 10 in)
C : Rear End Swing Radius	1210 mm (4 ft 0 in)
D : Minimum Ground Clearance	* 355 mm (1 ft 2 in)
E : Counterweight Clearance	* 760 mm (2 ft 6 in)
F : Engine Cover Height	1710 mm (5 ft 7 in)
G : Undercarriage Length	2920 mm (9 ft 7 in)
H : Undercarriage Width	2320 mm (7 ft 7 in)
I : Sprocket Center to Idle Center	2290 mm (7 ft 6 in)
J : Track Shoe Width	450 mm (1 ft 5 in)
Ground Pressure kPa (kgf/cm^2)	34kPa (0.34 kgf/cm^2)
Swing Speed min^{-1} (rpm)	10 min^{-1} (rpm)
Travel Speed km/h	4.5/2.9 km/h (2.8/1.8mph)
Gradeability degree (%)	35 degree (70%)

*NOTE: * The dimensions do not include the height of the shoe lug.*

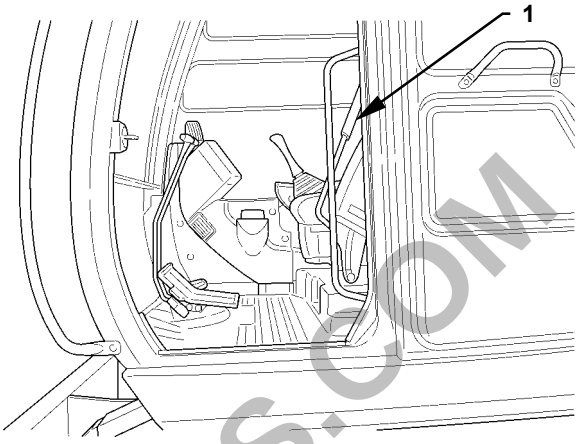
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STARTING THE ENGINE

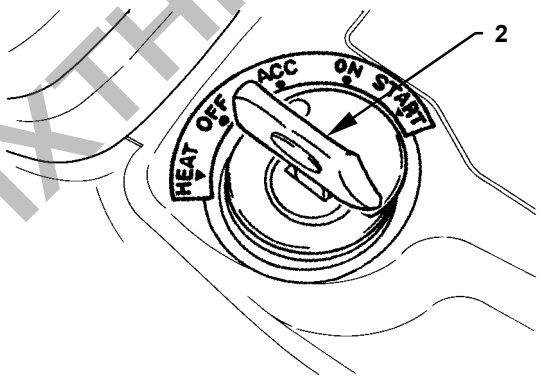
1. Pull the pilot control shut-off lever (1) up to the LOCK position.
2. Turn key switch (2) to ACC or ON position.
3. Sound horn to alert bystanders.
4. Turn engine control dial (3) to the slow idle position.

IMPORTANT: Prevent starter damage.
Never operate starter motor for more than 20 seconds at a time. If engine fails to start, return key switch to OFF. Wait for more than 30 seconds, then try again. After a false start, do not turn key switch until engine stops or starter may be damaged.

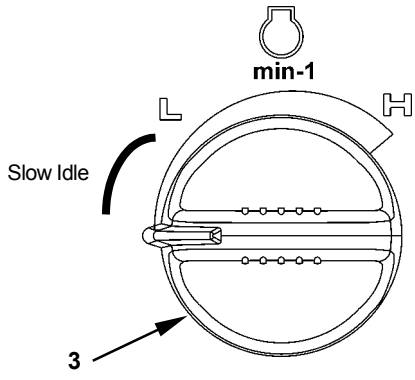
5. Turn key switch (2) to start engine. Release key switch. It will return to ON position.



LOCK Position M1CC-01-017



M1CC-01-005



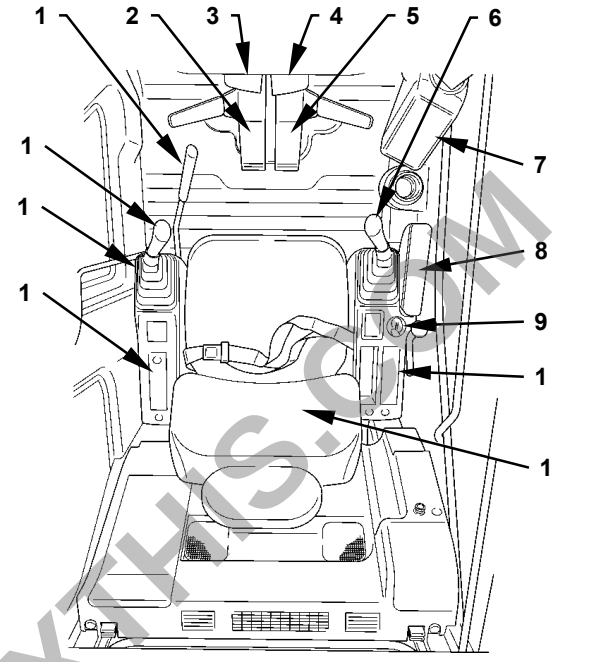
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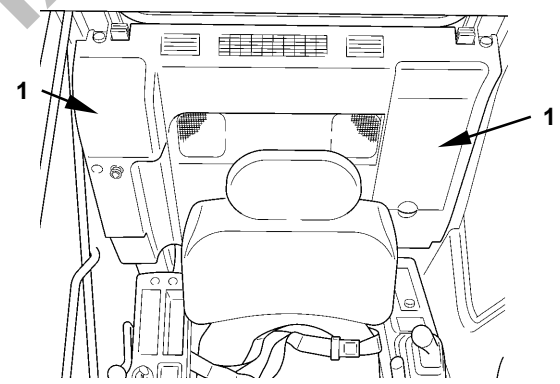
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CAB FEATURES

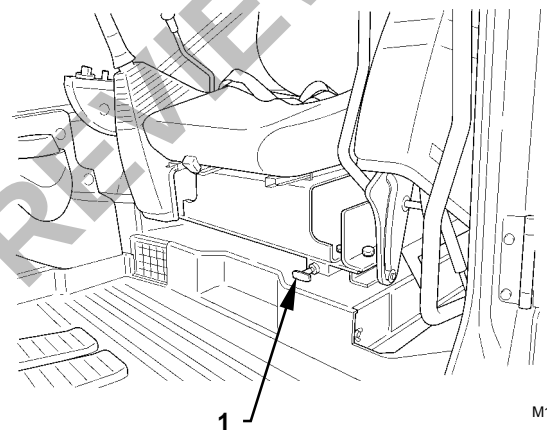
1- Left Control Lever/Horn Switch (On Top of Lever)
2- Left Travel Pedal
3- Left Travel Lever
4- Right Travel Lever
5- Right Travel Pedal
6- Right Control Lever
7- Monitor Panel
8- Switch Panel
9- Key Switch
10- Air Conditioner Panel --- If Equipped
11- Operator's Seat
12- Radio
13- Cab Door Release Lever
14- Pilot Control Shut-Off Lever
15- Fuse Box
16- Hot & Cool Box
17- Cigar Lighter
18- Rear Switch Panel
19- Engine Stop Knob



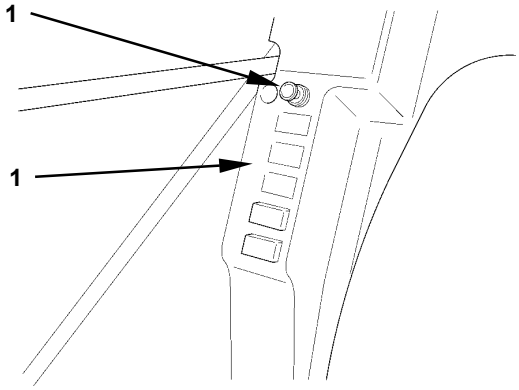
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M1CC-01-015

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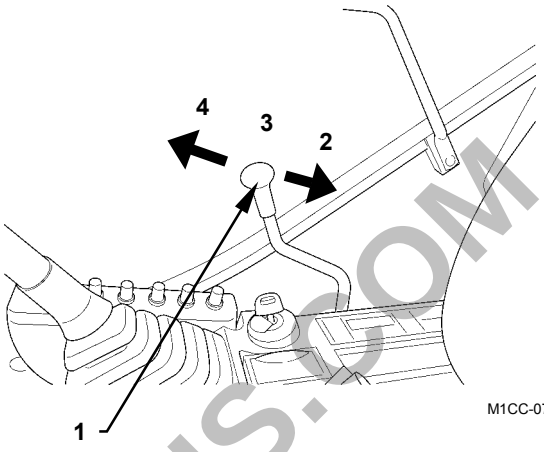
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BLADE LEVER

Use blade lever (1) on the operator's right to raise and lower the blade.

When the lever is released, it automatically returns to neutral, keeping the blade in its position until the lever is operated again.

1- Blade Lever
2- Blade Raise
3- Neutral
4- Blade Lower



M1CC-07-015



M1CC-07-016

PRECAUTIONS FOR BLADE OPERATION

This blade is designed as a light service attachment for the hydraulic excavator. Please keep the following points in mind:

1. This blade is designed to be used for dozing work only. Do not attempt to dig deeply with the blade. Doing so will damage not only the blade but the undercarriage as well.
2. Do not apply intensive or uneven loads. Never apply high-speed impact to the blade by running the machine into a load.
3. Jacking up the machine with this blade, the surface beneath the blade comes under high pressure, increasing the risk of surface collapse.
   Always be sure that the surface is strong enough to support the weight of the machine during operation. Avoid dangerously uneven distribution of weight on the blade by maintaining even contact between the blade and the ground.
4. Never use this blade as an outrigger.
5. Avoid contact between the bucket and the blade while digging.

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TRANSPORTING BY ROAD


M107-06-013

When transporting the machine on public roads, be sure to first understand and follow all local regulations.

- When transporting using a trailer, check the width, height, length and weight of the trailer with the machine loaded.
  Note that transporting the weight and dimensions may vary depending on the type of shoe or front attachments installed.
- Investigate beforehand the conditions of the route to be traveled, such as dimensional limits, weight limits, and traffic regulations.

In some cases, disassemble the machine to bring it within dimensional limits or weight limits of local regulations.

LOADING/UNLOADING ON A TRAILER

Always load and unload the machine on a firm, level surface.

CAUTION: Be sure to use a loading dock or a ramp for loading/unloading.

Ramp/Loading Dock:

1. Before loading, thoroughly clean the ramp and flatbed. Dirty ramps or flatbeds with oil, mud, or ice on them are slippery and dangerous.
2. Place blocks against the truck and trailer wheels while using a ramp or loading dock.
3. Ramps must be sufficient in width, length, and strength. Be sure that the incline of the ramp is less than 15 degrees.
4. Loading docks must be sufficient in width and strength to support the machine and have an incline of less than 15 degrees.

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ENGINE

Problem	Cause	Solution
Engine Cranks But Will Not Start or Hard to Start	No fuel	Add fuel. Bleed air.
	Wrong fuel	Drain tank. Use correct fuel.
	Contaminated fuel	Drain tank and add clean fuel.
	Low battery power	Charge or install new battery.
	Injection pump	See your authorized dealer.
	Wrong preheat line or glow plugs	See your authorized dealer.
	Poor electrical connection	Clean and tighten battery and starter motor connections.
	Starter motor failure	Replace starter.
	Wrong engine oil	Drain oil. Use correct oil.
	Air filter plugged	Replace elements.
	Fuel filter plugged	Remove air from fuel system. Clean fuel tank strainer.
	Engine compression low	See your authorized dealer.
	Injection nozzles dirty or not working correctly	See your authorized dealer.
	Fuel shut-off linkage	Adjust or repair linkage.
	Leaks in fuel system	Check fuel system connections.
	Air in fuel system	Bleed air.
	Fuel feed pump plunger up	Push down and tighten knob.
	Feed pump strainer dirty	Clean or replace.
Engine Knocks, Runs Irregularly or Stops	Engine oil level low	Add oil.
	Plugged air intake system	Clean filter and system.
	Feed pump strainer dirty	Clean or replace.
	Injection pump out of time	See your authorized dealer.
	Plugged fuel filters	Install new filters.
	Low coolant temperature	Thermostat not working correctly or too “cool”.
	Water, dirt or air in fuel system	Bleed air from fuel system. Clean fuel tank outlet screen.
	Injection nozzles dirty or faulty	See your authorized dealer.
	Fuel shut-off linkage	Adjust or repair linkage.

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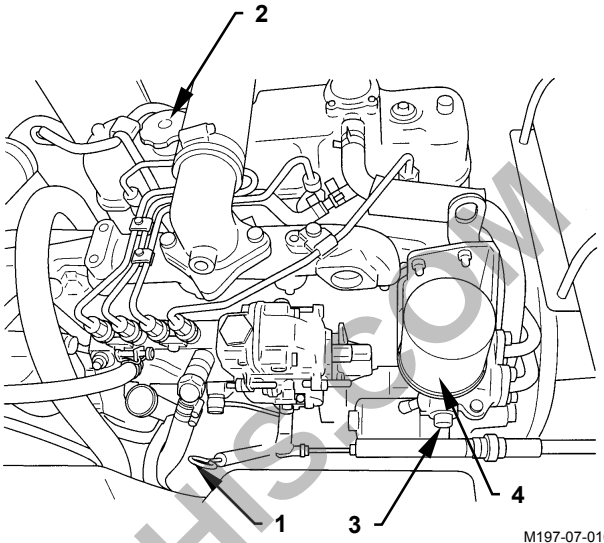
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CAUTION: Engine oil may be hot. Take extra care to avoid burns.

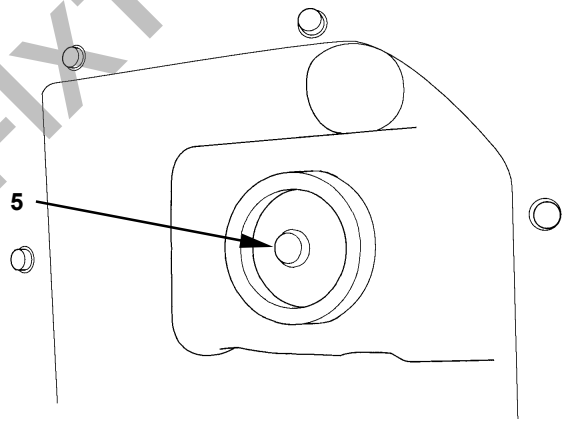
8. Remove drain plugs (3) and (5). Allow oil to drain through a clean cloth into a 12 liter container.
9. After all oil has drained, inspect cloth for any debris such as small pieces of metal.
10. Install and tighten drain plugs (3) and (5).
11. Remove the filter cartridges of engine oil filter (4) by turning it counterclockwise with the filter wrench.
12. Clean the filter gasket contact area on the engine.
13. Apply a thin film of clean oil to the gasket of the new filter.
14. Install new filter. Turn the filter cartridge clockwise by hand until the gasket touches the contact area. Be sure not to damage the gasket when installing the filter.
15. Tighten engine oil filter (4) 1 1/4 turn more using the filter wrench.
    Be careful not to overtighten.
16. Remove the oil filler cap. Fill the engine with recommended oil. Check that oil level is between the circle marks on the dipstick after 15 minutes.

    Engine oil capacity: 12.0 L (3.2 US gal)

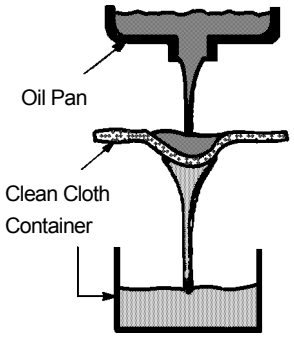
17. Install the oil filler cap.
18. Start the engine. Run the engine at slow idle for 5 minutes.
19. Check that the engine oil pressure indicator on the monitor panel goes out immediately. If not, stop the engine immediately and find the cause.
20. Stop the engine. Remove the key from the key switch.
21. Check for any leakage at the drain plug.
22. Check oil level on the dipstick.



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M104-07-010

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D. HYDRAULIC SYSTEM (See Page 7-24)

Parts		Quantity	Interval (hours)								
			8	50	100	250	500	1000	1500	2500	4000
1. Check Hydraulic Oil Level		1	■								
2. Drain Hydraulic Oil Tank Sump		1				■					
3. Change Hydraulic Oil		75 L (19.8 US gal)							✸	✸	✸
4. Suction Filter Cleaning		1	When changing hydraulic oil								
5. Replace Hydraulic Tank Oil Filter		1					■				
6. Replace Pilot Oil Filter		1						■			
7. Check Hoses and Lines	for leaks	-	■								
	for cracks, bend, etc.	-				■					

NOTE: ✸ Hydraulic oil changing interval differs according to the kind of hydraulic oil used. See recommended oil chart.

E. FUEL SYSTEM (See Page 7-39)

Tank capacity 89 liter

Parts		Quantity	Interval (hours)						
			8	50	100	250	500	1000	2000
1. Drain Fuel Tank Sump		1	■						
2. Replace Fuel Filter		1					■		
3. Clean Feed Pump Strainer		1						■	
4. Check Fuel Hoses	for leaks, cracks, etc.	—	■						
	for cracks, bend, etc.	—				■			

F. AIR CLEANER (See Page 7-46)

Parts		Quantity	Interval (hours)						
			8	50	100	250	500	1000	2000
1. Air Cleaner Element	Cleaning	1	(Or when indicator lit)			■			
	Replacement	1	After cleaning 6 times or 1 year						

G. COOLING SYSTEM (See Page 7-48)

Parts		Quantity	Interval (hours)						
			8	50	100	250	500	1000	2000
1. Check Coolant Level		1	■						
2. Check and Adjust Fan Belt Tension		1		★★	■				
3. Change Coolant		9 L (2.4 US gal)	Twice a year ✸1						
4. Clean Radiator and Oil Cooler Core	Outside	1					✸2		
	Inside	1	When changing coolant						
5. Clean Oil Cooler Front Screen		1					✸2		
6. Clean Air Conditioner Condenser (Opt.)		1					✸2		

NOTE: ★★ Maintenance required only during first time check.

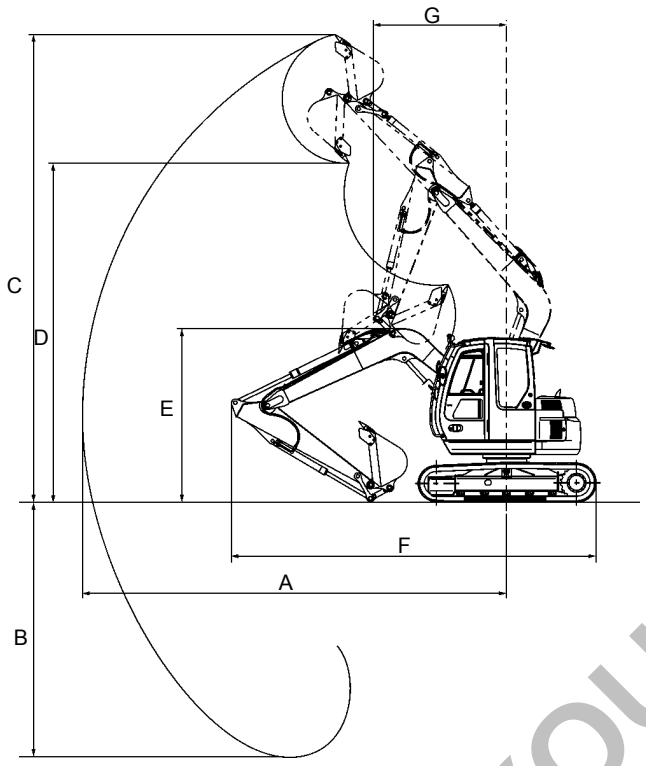
✸1 When genuine coolant is used, replace every two years or 4000 operating hours, whichever comes first.

✸2 Shorten the maintenance interval when the machine is operated in dusty areas.

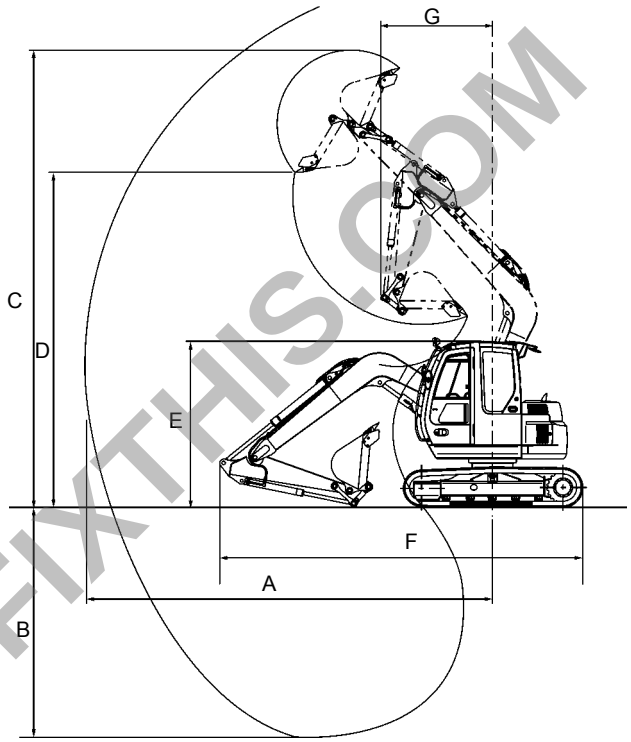
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WORKING RANGES (MONO BOOM)



Backhoe M1CC-12-003



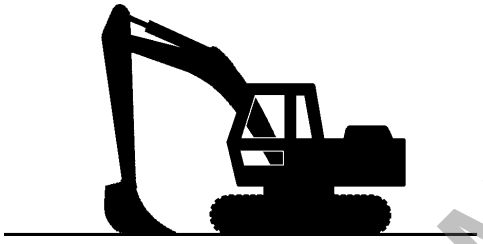
Shovel M1CC-12-004

Item \ Category		1.62 m (5'4") Arm				2.12 m(7'0") Arm			
		Backhoe		Shovel		Backhoe		shovel	
		mm	ft·in	mm	ft·in	mm	ft·in	mm	ft·in
A: Maximum Digging Reach	mm	6430	(21'1")	6570	(21'7")	6920	22'8"	7060	23'2"
B: Maximum Digging Depth	mm	4110	13'6"	4250	14'0"	4610	15'2"	4750	15'7"
C: Maximum Cutting Height	mm	7220	23'8"	7380	24'3"	7620	25'0"	7780	25'6"
D: Maximum Dumping Height	mm	5120	16'10"	5400	17'8"	5520	18'1"	5830	19'2"
E: Overall Transport Height	mm	2690	8'10"	2690	8'10"	2690 (without Bucket)	8'10" (without Bucket)	2690 (without Bucket)	8'10" (without Bucket)
						2830 (with Bucket)	9'3" (with Bucket)	2830 (with Bucket)	9'3" (with Bucket)
F: Overall Transport Length	mm	5870	19'3"	5870	19'3"	5950	19'6"	5950	19'6"
G: Minimum Swing Radius	mm	1810	5'11"	1810	5'11"	2170	7'1"	2170	7'1"

NOTE: "E: Transport Height" includes the height of shoe lug; Other dimensions do not include the height of the shoe lug.

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STOPPING THE ENGINE



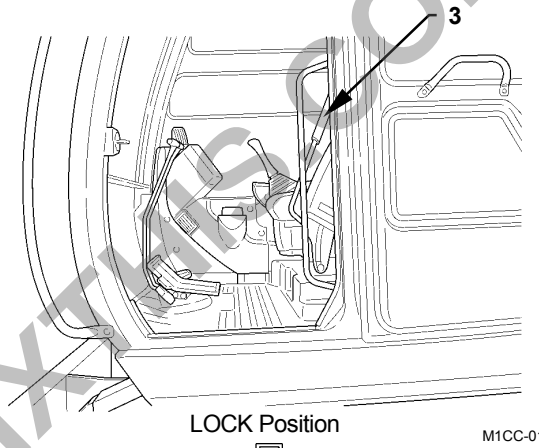
SA-390

Engine stop procedure

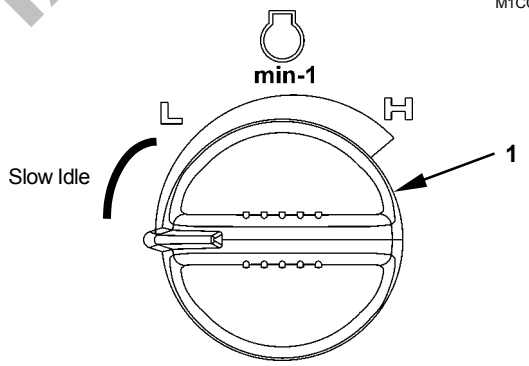
1. Park the machine on a level surface.
2. Lower the bucket to the ground.
3. Turn engine control dial (1) to the slow idle position and run the engine for 5 minuets to cool the engine.

IMPORTANT: Turbocharger may be damaged if the engine is not properly shut down.

4. Turn key switch (2) OFF. Remove the key from the key switch.
5. Pull pilot control shut-off lever (3) to the LOCK position.



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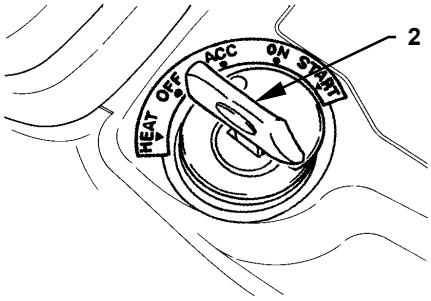


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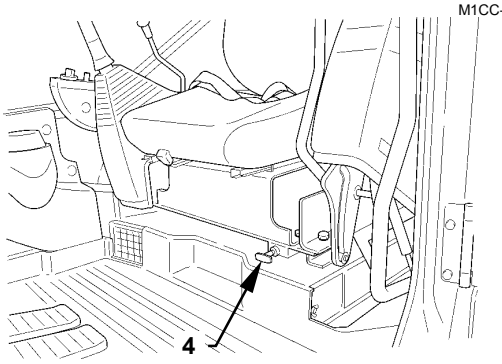
If the engine does not stop with the key switch turned in the OFF position

If the engine does not stop when the key switch is turned to the OFF position (due to a machine or key switch malfunction), pull engine stop knob (4) all the way to the stop. The engine will stop.

NOTE: If the knob is pulled halfway, the engine may not start or may stall during operation. Be sure to push the knob to the fully retracted position before restarting the engine.



M1CC-01-005



M1CC-01-012

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