

SECTION 1 GENERAL



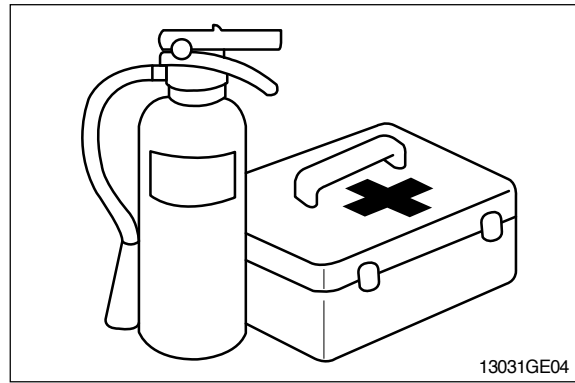
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PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

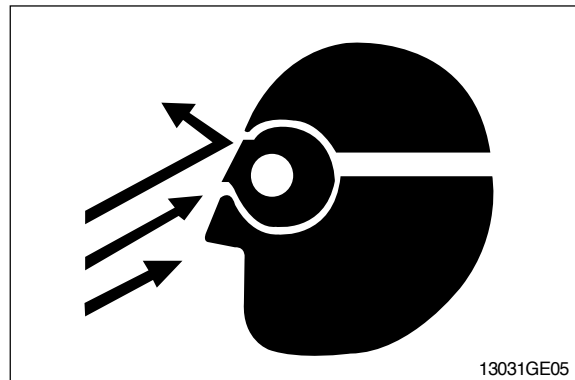
Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



PROTECT AGAINST FLYING DEBRIS

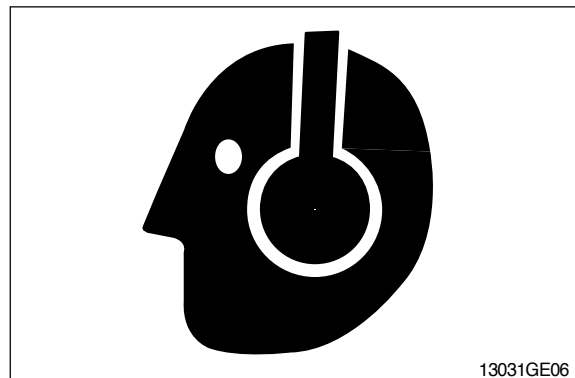
Guard against injury from flying pieces of metal or debris; Wear goggles or safety glasses.



PROTECT AGAINST NOISE

Prolonged exposure to loud noise can cause impairment or loss of hearing.

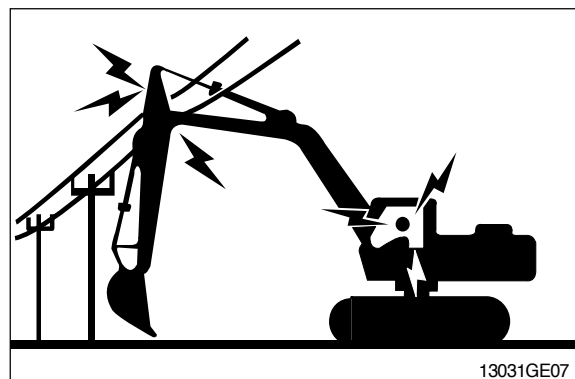
Wear a suitable hearing protective device such as ear-muffs or earplugs to protect against objectionable or uncomfortable loud noises.



AVOID POWER LINES

Serious injury or death can result from contact with electric lines.

Never move any part of the machine or load closer to electric line than 3m(10ft) plus twice the line insulator length.

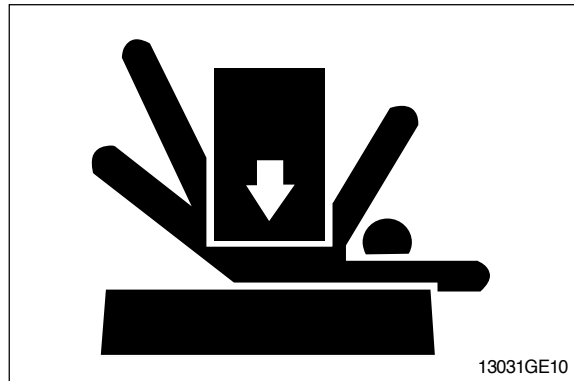


SUPPORT MACHINE PROPERLY

Always lower the attachment or implement to the ground before you work on the machine. If you must work on a lifted machine or attachment, securely support the machine or attachment.

Do not support the machine on cinder blocks, hollow tiles, or props that may crumble under continuous load.

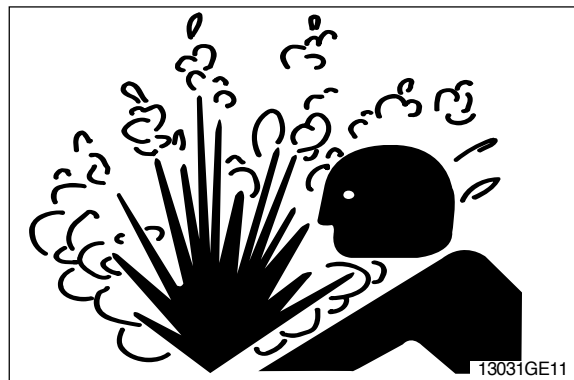
Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.



SERVICE COOLING SYSTEM SAFELY

Explosive release of fluids from pressurized cooling system can cause serious burns.

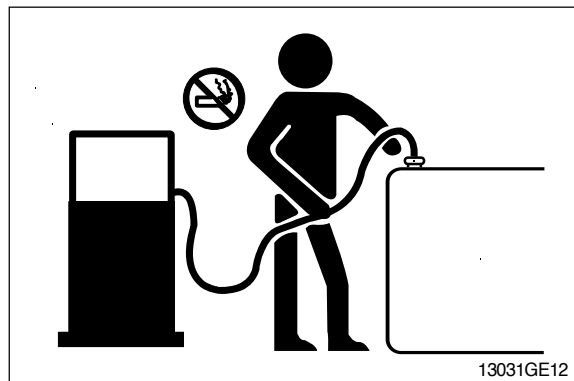
Shut off engine. Only remove filler cap when cool enough to touch with bare hands.



HANDLE FLUIDS SAFELY-AVOID FIRES

Handle fuel with care; It is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks. Always stop engine before refueling machine.

Fill fuel tank outdoors.



Store flammable fluids away from fire hazards. Do not incinerate or puncture pressurized containers.

Make sure machine is clean of trash, grease, and debris.

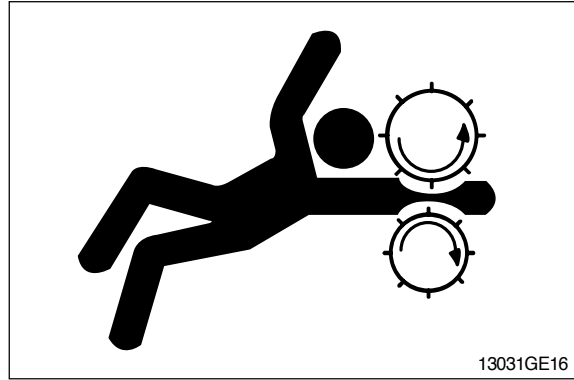
Do not store oily rags; They can ignite and burn spontaneously.



SERVICE MACHINE SAFELY

Tie long hair behind your head. Do not wear a necktie, scarf, loose clothing or necklace when you work near machine tools or moving parts. If these items were to get caught, severe injury could result.

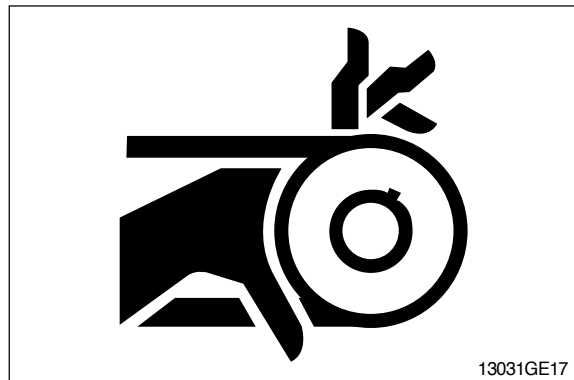
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



STAY CLEAR OF MOVING PARTS

Entanglements in moving parts can cause serious injury.

To prevent accidents, use care when working around rotating parts.



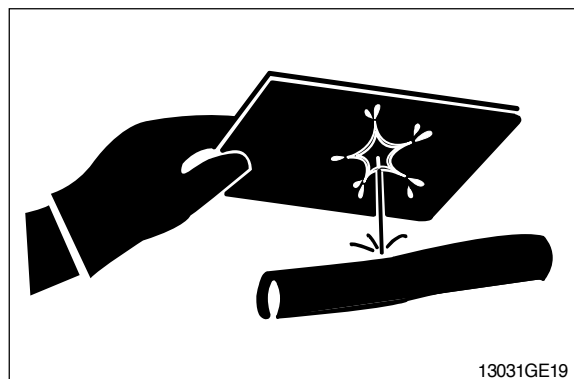
AVOID HIGH PRESSURE FLUIDS

Escaping fluid under pressure can penetrate the skin causing serious injury.

Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.

Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result.



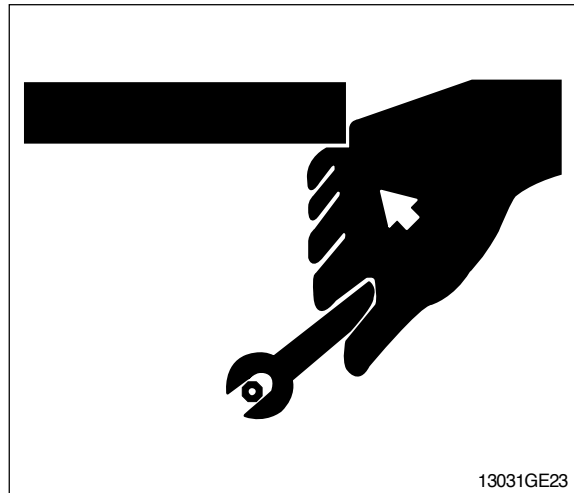
USE TOOLS PROPERLY

Use tools appropriate to the work. Makeshift tools, parts, and procedures can create safety hazards.

Use power tools only to loosen threaded tools and fasteners.

For loosening and tightening hardware, use the correct size tools. DO NOT use U.S. measurement tools on metric fasteners. Avoid bodily injury caused by slipping wrenches.

Use only recommended replacement parts.(See Parts catalogue.)

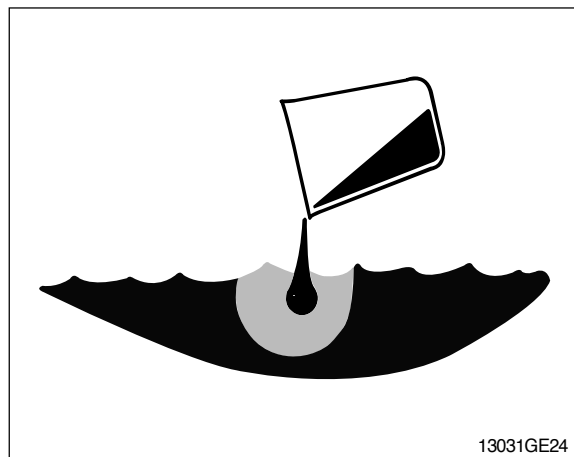


DISPOSE OF FLUIDS PROPERLY

Improperly disposing of fluids can harm the environment and ecology. Before draining any fluids, find out the proper way to dispose of waste from your local environmental agency.

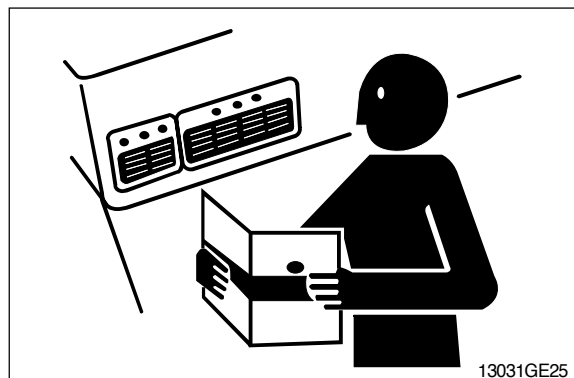
Use proper containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

DO NOT pour oil into the ground, down a drain, or into a stream, pond, or lake. Observe relevant environmental protection regulations when disposing of oil, fuel, coolant, brake fluid, filters, batteries, and other harmful waste.



REPLACE SAFETY SIGNS

Replace missing or damaged safety signs. See the machine operator's manual for correct safety sign placement.

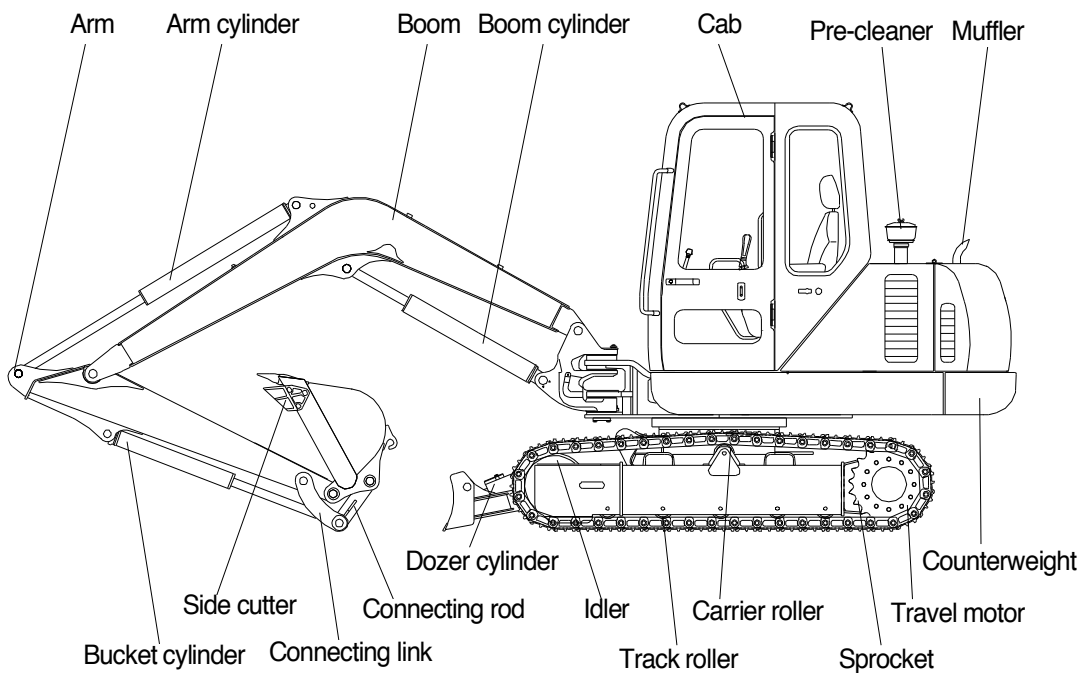
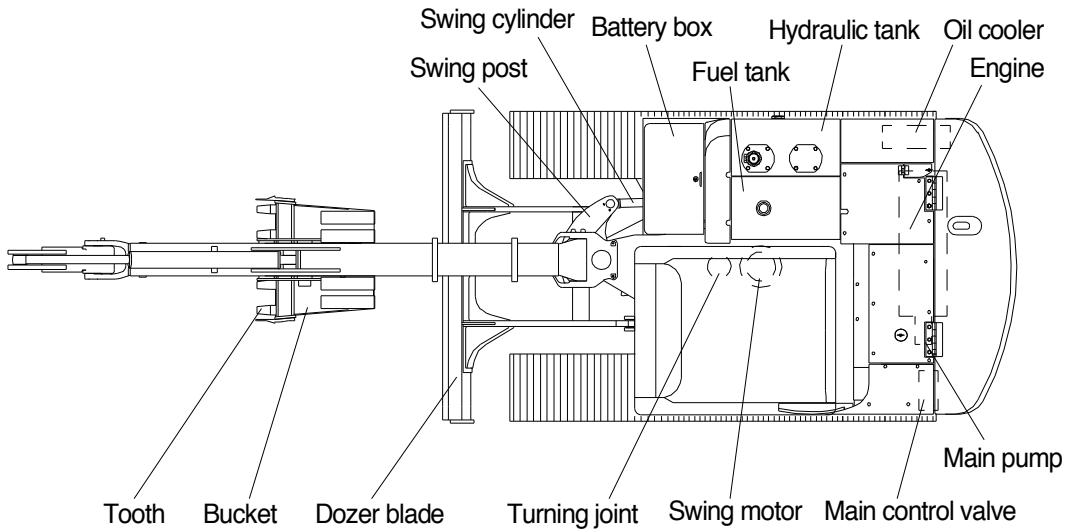


LIVE WITH SAFETY

Before returning machine to customer, make sure machine is functioning properly, especially the safety systems. Install all guards and shields.

GROUP 2 SPECIFICATIONS

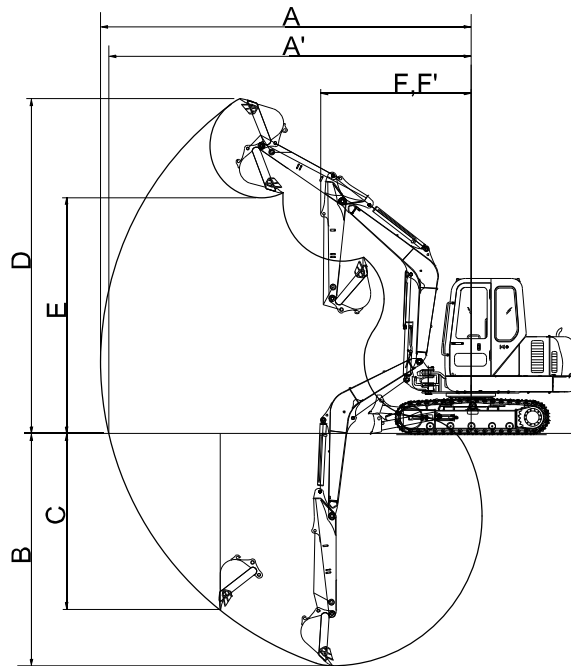
1. MAJOR COMPONENT



R55NM2SP08

3. WORKING RANGE

2.9m(9' 6") ONE PIECE BOOM













R55NM2SP01

Description		1.6m(5' 3") Arm	
Max digging reach		A	6045mm (19' 10")
Max digging reach on ground		A'	5890mm (19' 4")
Max digging depth		B	3780mm (12' 5')
Max vertical wall digging depth		C	2845mm (9' 4")
Max digging height		D	5525mm (18' 2")
Max dumping height		E	3905mm (12' 10")
Min swing radius	Front	F	2450mm (8' 1")
	80° Boom swing	F'	2000mm (6' 7")
Boom offset angle (LH/RH)			80 ° / 50 °
Bucket digging force	SAE		32 kN
			3273 kgf
			7216 lbf
	ISO		35 kN
			3573 kgf
			7877 lbf
Arm crowd force	SAE		22 kN
			2236 kgf
			4930 lbf
	ISO		22.2 kN
			2268 kgf
			5000 lbf

4. WEIGHT

Item	R55-3	
	kg	lb
Upperstructure assembly	2475	5460
Main frame weld assembly	650	1430
Engine assembly	250	551
Main pump assembly	34	75
Main control valve assembly	26	57
Swing motor assembly	48	106
Hydraulic oil tank assembly	104	229
Fuel tank assembly	52	115
Counterweight	221	490
Cab assembly	190	420
Lower chassis assembly	2305	5080
Lower frame weld assembly	733	1620
Swing bearing	88	190
Travel motor assembly	90	198
Turning joint	27	60
Track recoil spring and idler	63	139
Idler	46	101
Carrier roller	11	25
Track roller	11	25
Track-chain assembly(400mm triple grouser shos)	280	617
Front attachment assembly(2.9m boom, 1.6m arm, 0.18m³ PCSA heaped bucket)	655	1440
2.9m one piece boom assembly	205	450
Dozer blade assembly	212	470
1.6m arm assembly	95	209
0.18m³ PCSA heaped bucket assembly	137	300
Boom cylinder assembly	53	117
Arm cylinder assembly	45	99
Bucket cylinder assembly	31	68
Bucket control link assembly	37	82
Dozer blade cylinder assembly	52	114

Load point height		Load radius								At max. reach		
		2.0m(7.0ft)		3.0m(10.0ft)		4.0m(13.0ft)		5.0m(16.0ft)		Capacity		Reach
												m(ft)
5.0m (16.0ft)	kg lb									*660 *1460	*660 *1460	4.05 (13.3)
4.0m (13.0ft)	kg lb					*720 *1590	*720 *1590			*670 *1480	*670 *1480	5.04 (16.5)
3.0m (10.0ft)	kg lb					*750 *1650	*750 *1650			*690 *1520	640 1410	5.56 (18.2)
2.0m (7.0ft)	kg lb	*2160 *4760	*2160 *4760	*1160 *2560	*1160 *2560	*900 *1980	*900 *1980	*800 *1760	730 1610	*710 *1570	580 1280	5.80 (19.0)
1.0m (3.0ft)	kg lb			*1640 *3620	1520 3350	*1090 *2400	990 2180	*870 *1920	710 1570	*740 *1630	570 1260	5.81 (19.1)
Ground Line	kg lb	*2030 *4480	*2030 *4480	*1870 *4120	1460 3220	*1220 *2690	960 2120			*770 *1700	600 1320	5.58 (18.3)
-1.0m (-3.0ft)	kg lb	*3010 *6640	2840 6260	*1820 *4010	1450 3200	*1200 *2650	950 2090			*780 *1720	700 1540	5.06 (16.6)
-2.0m (-7.0ft)	kg lb	*2490 *5490	*2490 *5490	*1500 *3310	1470 3240							

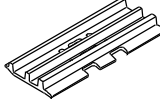
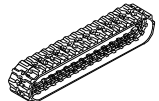
Dozer blade up with 221kg CWT

7. UNDER CARRIAGE

1) TRACKS

X-leg type center frame is integrally welded with reinforced box-section track frames. The design includes dry tracks, lubricated rollers, idlers, sprockets, hydraulic track adjusters with shock absorbing springs and assembled track-type tractor shoes with triple grousers.

2) TYPES OF SHOES

Shapes		Triple grouser	Rubber
			
Shoe width	mm (in)	400 (16")	400 (16")
Operating weight	kg (lb)	5455 (12030)	5420 (11948)
Ground pressure	kg / cm ² (psi)	0.31 (4.41)	0.30 (4.26)
Overall width	mm (ft-in)	1845 (6' 1")	1845 (6' 1")

3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity
Carrier rollers	1 EA
Track rollers	5 EA
Track shoes (Steel)	40 EA

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