

SECTION 1 GENERAL

Group 1 Safety Hints	1-1
Group 2 Specifications	1-10

SECTION 2 STRUCTURE AND FUNCTION

Group 1 Pump Device	2-1
Group 2 Main Control Valve	2-20
Group 3 Swing Device	2-46
Group 4 Travel Device	2-58
Group 5 RCV Lever	2-72
Group 6 RCV Pedal	2-79

SECTION 3 HYDRAULIC SYSTEM

Group 1 Hydraulic Circuit	3-1
Group 2 Main Circuit	3-2
Group 3 Pilot Circuit	3-5
Group 4 Single Operation	3-14
Group 5 Combined Operation	3-24

SECTION 4 ELECTRICAL SYSTEM

Group 1 Component Location	4-1
Group 2 Electric Circuit	4-3
Group 3 Electrical Component Specification	4-23
Group 4 Connectors	4-34

SECTION 5 MECHATRONICS SYSTEM

Group 1 Outline	5-1
Group 2 Mode selection System	5-3
Group 3 Automatic Deceleration System	5-6
Group 4 Power Boost System	5-7
Group 5 Travel Speed Control System	5-8
Group 6 Automatic Warming Up System	5-9
Group 7 Engine Overheat Prevention System	5-10
Group 8 Variable power Control System	5-11
Group 9 Attachment Flow Control System	5-12
Group 10 Boom Floating Control System	5-13

Group 11 Intelligent Power Control System	5-14
Group 12 Anti-Restart System	5-16
Group 13 Self-Diagnostic System	5-17
Group 14 Engine Control System	5-56
Group 15 EPPR Valve	5-57
Group 16 Monitoring System	5-62
Group 17 Fuel Warmer System	5-99

SECTION 6 TROUBLESHOOTING

Group 1 Before Troubleshooting	6-1
Group 2 Hydraulic and Mechanical System	6-4
Group 3 Electrical System	6-24
Group 4 Mechatronics System	6-40

SECTION 7 MAINTENANCE STANDARD

Group 1 Operational Performance Test	7-1
Group 2 Major Components	7-20
Group 3 Track and Work Equipment	7-30

SECTION 8 DISASSEMBLY AND ASSEMBLY

Group 1 Precaution	8-1
Group 2 Tightening Torque	8-4
Group 3 Pump Device	8-7
Group 4 Main Control Valve	8-31
Group 5 Swing Device	8-51
Group 6 Travel Device	8-76
Group 7 RCV Lever	8-101
Group 8 Turning Joint	8-115
Group 9 Boom, Arm and Bucket Cylinder	8-120
Group 10 Undercarriage	8-137
Group 11 Work Equipment	8-149

SECTION 9 COMPONENT MOUNTING TORQUE

Group 1 Introduction guide	9-1
Group 2 Engine system	9-2
Group 3 Electric system	9-4
Group 4 Hydraulic system	9-6
Group 5 Undercarriage	9-9
Group 6 Structure	9-10
Group 7 Work equipment	9-14

SECTION 1 GENERAL



Group 1 Safety Hints 1-1

Group 2 Specifications 1-10

SECTION 1 GENERAL

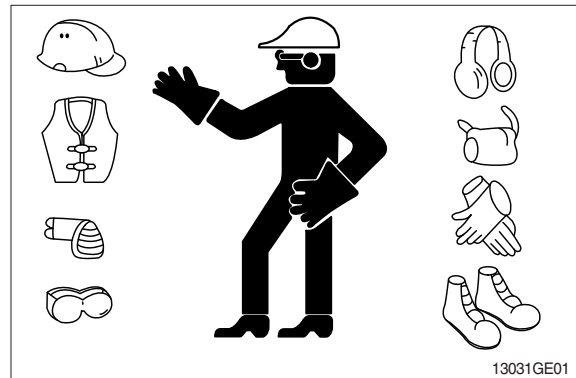
GROUP 1 SAFETY

FOLLOW SAFE PROCEDURE

Unsafe work practices are dangerous. Understand service procedure before doing work; Do not attempt shortcuts.

WEAR PROTECTIVE CLOTHING

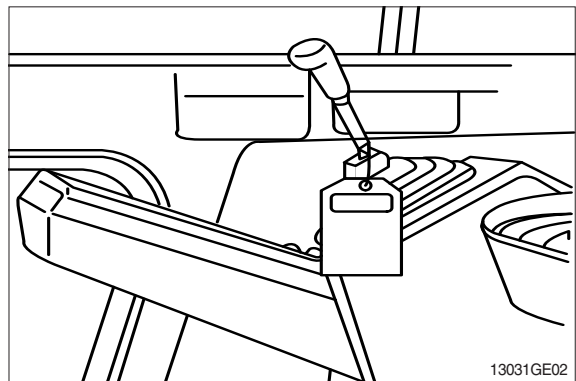
Wear close fitting clothing and safety equipment appropriate to the job.



WARN OTHERS OF SERVICE WORK

Unexpected machine movement can cause serious injury.

Before performing any work on the excavator, attach a 「Do Not Operate」 tag on the right side control lever.



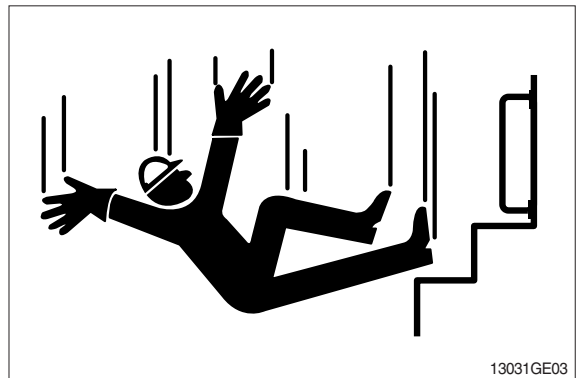
USE HANDHOLDS AND STEPS

Falling is one of the major causes of personal injury.

When you get on and off the machine, always maintain a three point contact with the steps and handrails and face the machine. Do not use any controls as handholds.

Never jump on or off the machine. Never mount or dismount a moving machine.

Be careful of slippery conditions on platforms, steps, and handrails when leaving the machine.

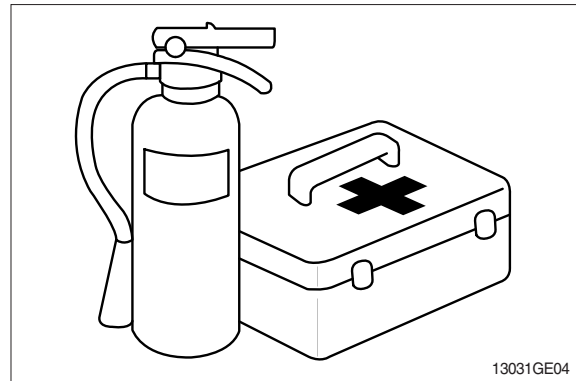


PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

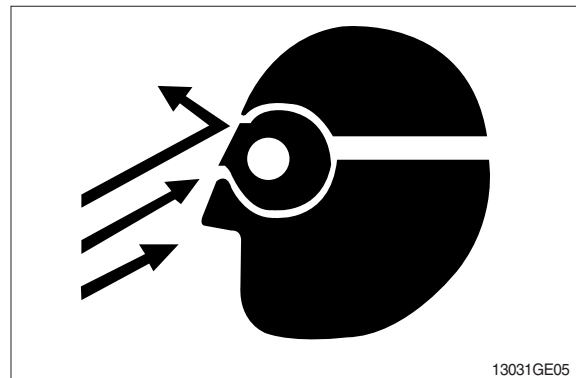
Keep a first aid kit and fire extinguisher handy.

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



PROTECT AGAINST FLYING DEBRIS

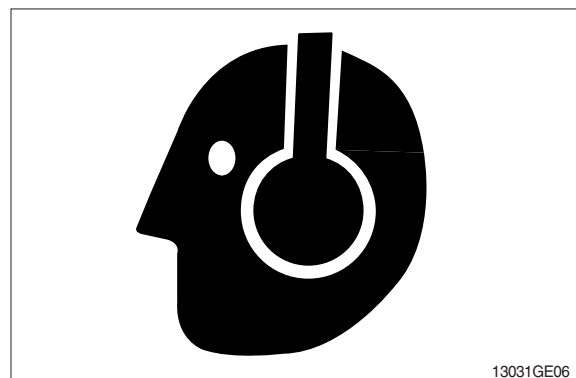
Guard against injury from flying pieces of metal or debris; Wear goggles or safety glasses.



PROTECT AGAINST NOISE

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

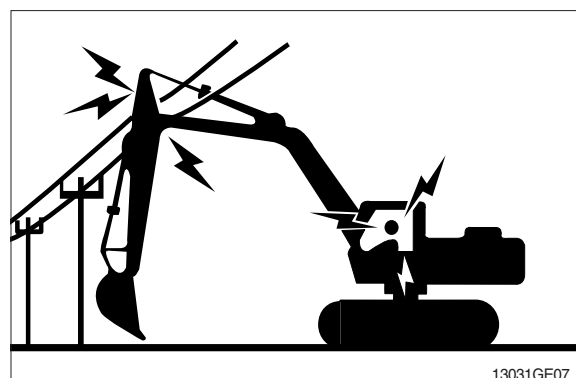
Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



AVOID POWER LINES

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

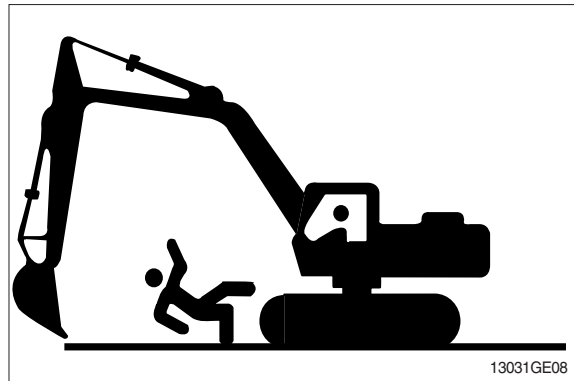
Never move any part of the machine or load closer to electric line than 3m(10ft) plus twice the line insulator length.



KEEP RIDERS OFF EXCAVATOR

Only allow the operator on the excavator. Keep riders off.

Riders on excavator are subject to injury such as being struck by foreign objects and being thrown off the excavator. Riders also obstruct the operator's view resulting in the excavator being operated in an unsafe manner.

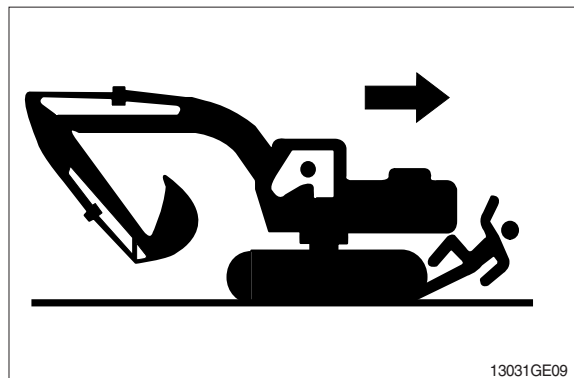


MOVE AND OPERATE MACHINE SAFELY

Bystanders can be run over. Know the location of bystanders before moving, swinging, or operating the machine.

Always keep the travel alarm in working condition. It warns people when the excavator starts to move.

Use a signal person when moving, swinging, or operating the machine in congested areas. Coordinate hand signals before starting the excavator.



OPERATE ONLY FROM OPERATOR'S SEAT

Avoid possible injury machine damage. Do not start engine by shorting across starter terminals.

NEVER start engine while standing on ground. Start engine only from operator's seat.



PARK MACHINE SAFELY

Before working on the machine:

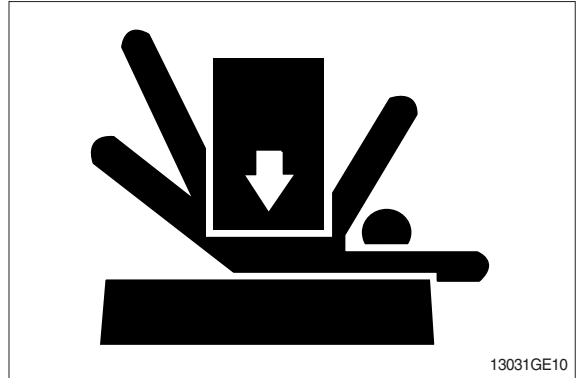
- Park machine on a level surface.
- Lower bucket to the ground.
- Turn auto idle switch off.
- Run engine at 1/2 speed without load for 2 minutes.
- Turn key switch to OFF to stop engine. Remove key from switch.
- Move pilot control shutoff lever to locked position.
- Allow engine to cool.

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.

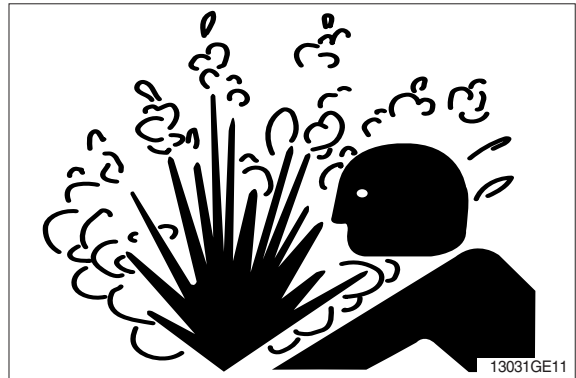
Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.



SERVICE COOLING SYSTEM SAFELY

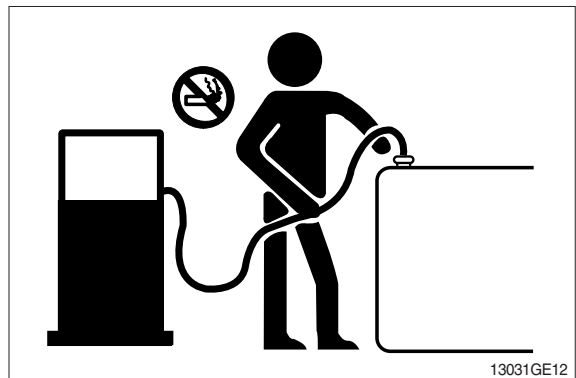
Explosive release of fluids from pressurized cooling system can cause serious burns.

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



HANDLE FLUIDS SAFELY-AVOID FIRES

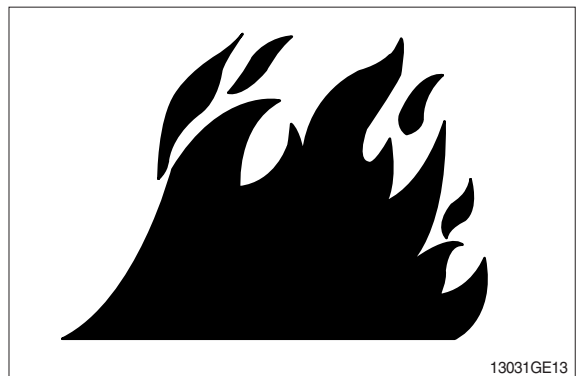
Handle fuel with care; It is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks. Always stop engine before refueling machine. Fill fuel tank outdoors.



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.



BEWARE OF EXHAUST FUMES

Prevent asphyxiation. Engine exhaust fumes can cause sickness or death.

If you must operate in a building, be positive there is adequate ventilation. Either use an exhaust pipe extension to remove the exhaust fumes or open doors and windows to bring enough outside air into the area.

REMOVE PAINT BEFORE WELDING OR HEATING

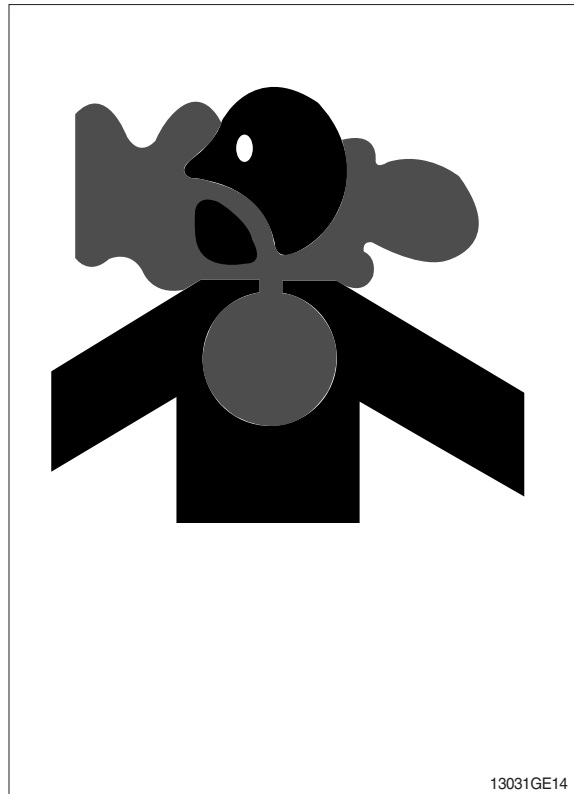
Avoid potentially toxic fumes and dust.

Hazardous fumes can be generated when paint is heated by welding, soldering, or using a torch.

Do all work outside or in a well ventilated area. Dispose of paint and solvent properly.

Remove paint before welding or heating:

- If you sand or grind paint, avoid breathing the dust.
Wear an approved respirator.
- If you use solvent or paint stripper, remove stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from area. Allow fumes to disperse at least 15 minutes before welding or heating.



ILLUMINATE WORK AREA SAFELY

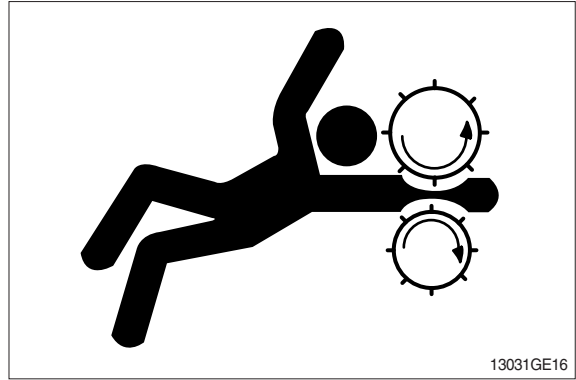
Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.



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.

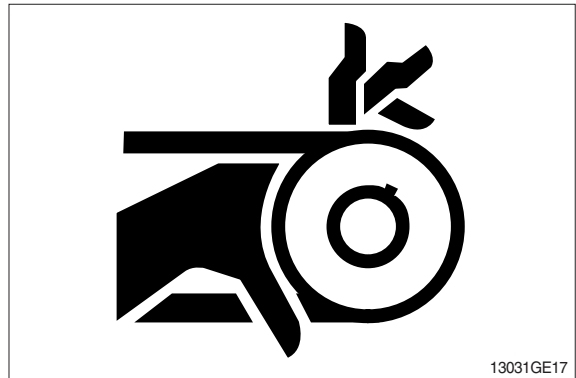
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



STAY CLEAR OF MOVING PARTS

Entanglements in moving parts can cause serious injury.

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



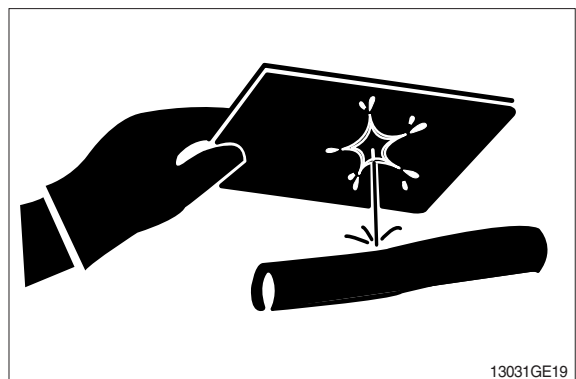
AVOID HIGH PRESSURE FLUIDS

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.



AVOID HEATING NEAR PRESSURIZED FLUID LINES

Flammable spray can be generated by heating near pressurized fluid lines, resulting in severe burns to yourself and bystanders. Do not heat by welding, soldering, or using a torch near pressurized fluid lines or other flammable materials.

Pressurized lines can be accidentally cut when heat goes beyond the immediate flame area. Install fire resisting guards to protect hoses or other materials.



PREVENT BATTERY EXPLOSIONS

Keep sparks, lighted matches, and flame away from the top of battery. Battery gas can explode.

Never check battery charge by placing a metal object across the posts. Use a volt-meter or hydrometer.

Do not charge a frozen battery; It may explode. Warm battery to 16°C (60°F).



PREVENT ACID BURNS

Sulfuric acid in battery electrolyte is poisonous. It is strong enough to burn skin, eat holes in clothing, and cause blindness if splashed into eyes.

Avoid the hazard by:

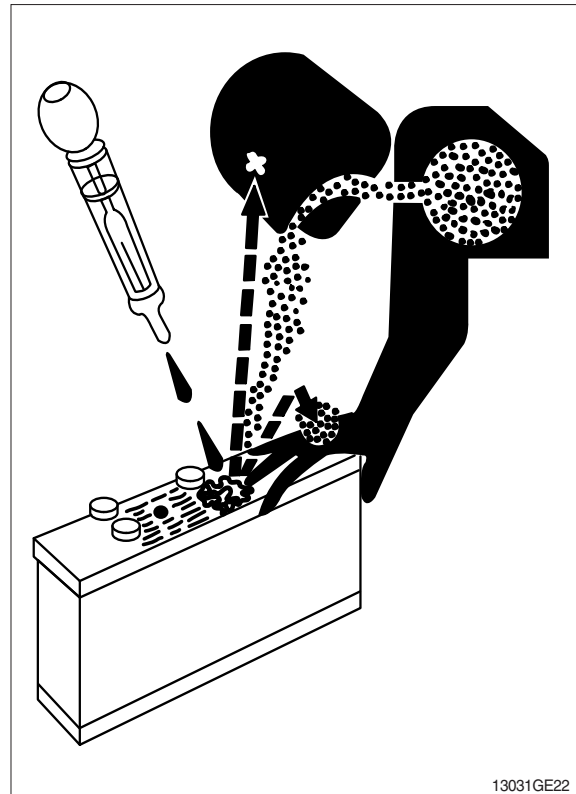
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

If you spill acid on yourself:

1. Flush your skin with water.
2. Apply baking soda or lime to help neutralize the acid.
3. Flush your eyes with water for 10-15 minutes. Get medical attention immediately.

If acid is swallowed:

1. Drink large amounts of water or milk.
2. Then drink milk of magnesia, beaten eggs, or vegetable oil.
3. Get medical attention immediately.



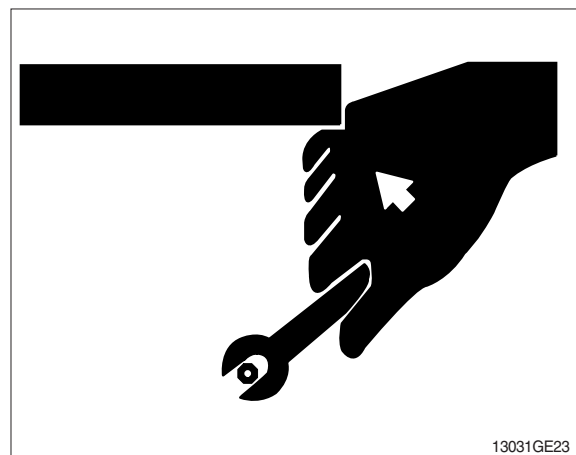
USE TOOLS PROPERLY

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.)

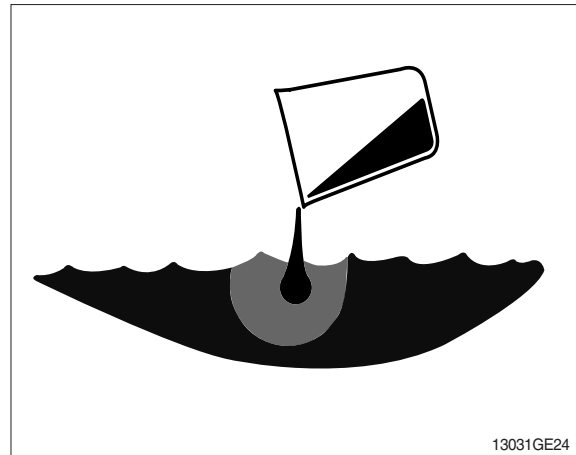


DISPOSE OF FLUIDS PROPERLY

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.

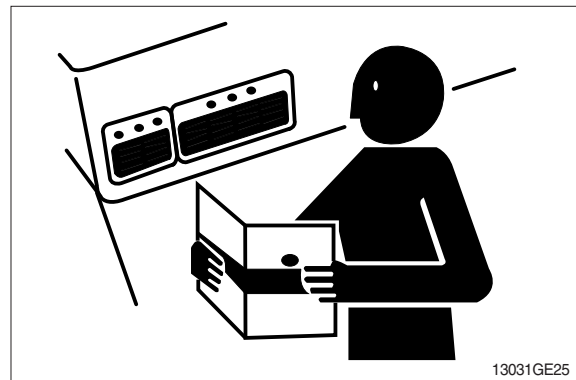
Use proper containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

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.

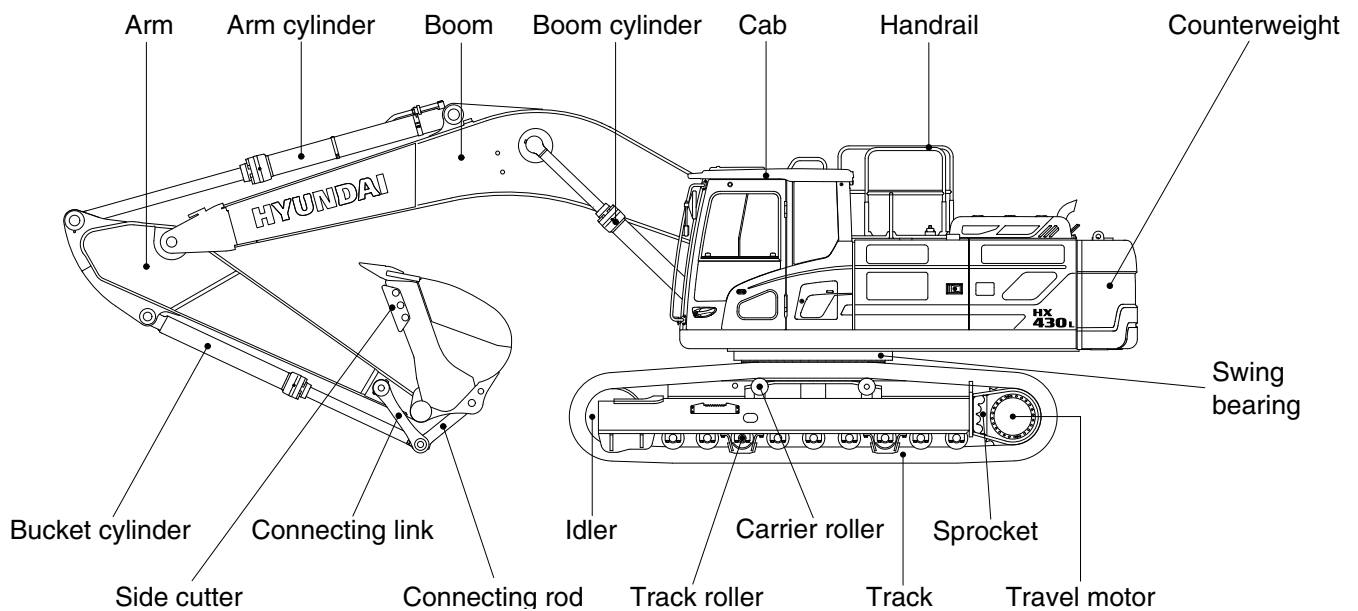
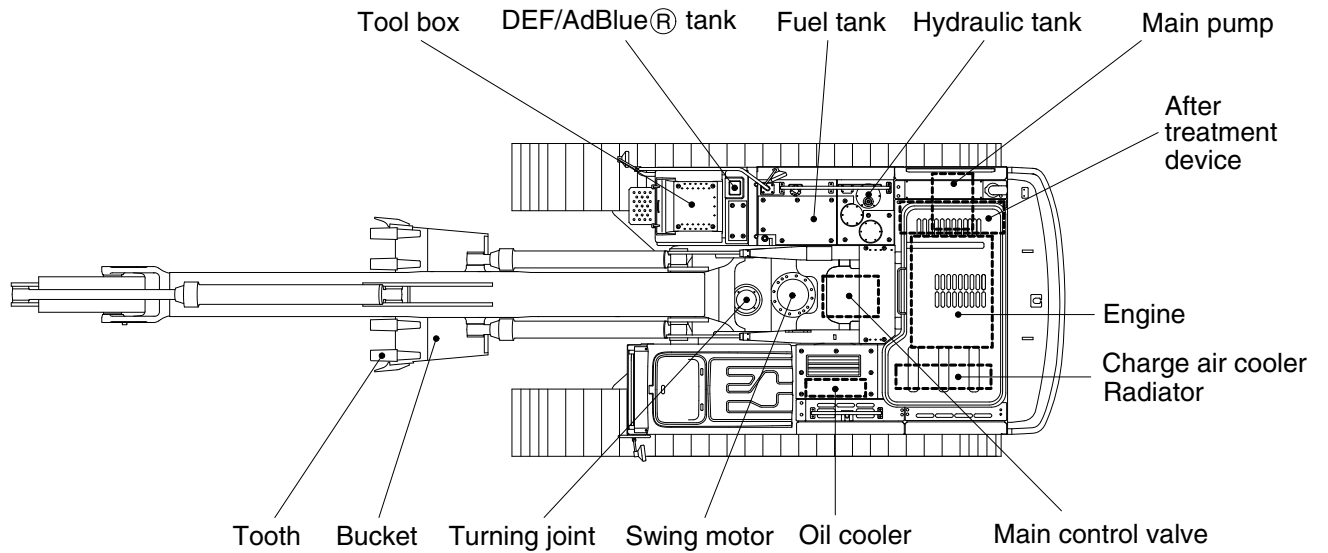


LIVE WITH SAFETY

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

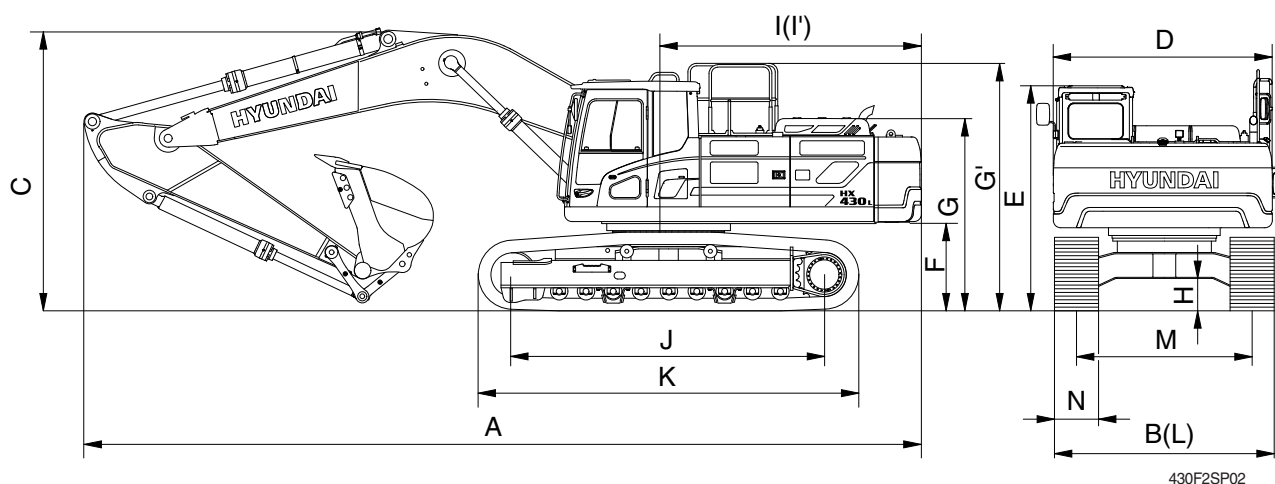


430F2SP01

2. SPECIFICATIONS

1) HX430 L

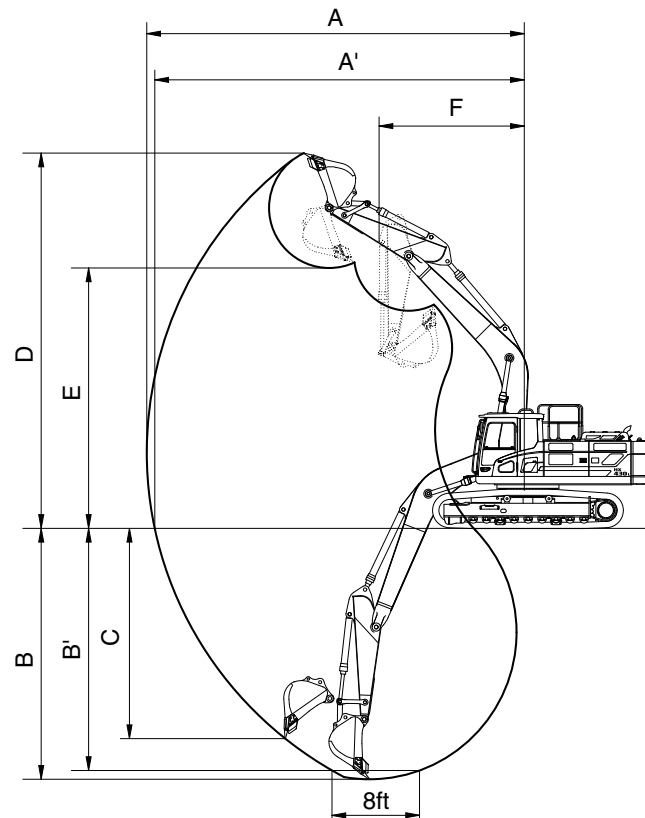
· 6.5 m (21' 4") BOOM and 3.2 m (10' 6") ARM



Description		Unit	Specification
Operating weight		kg (lb)	44120 (97270)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	1.90 (2.49)
Overall length	A	mm (ft-in)	11400 (37' 5")
Overall width, with 600 mm shoe	B		3340 (10' 11")
Overall height	C		3630 (11' 11")
Superstructure width	D		2980 (9' 9")
Overall height of cab	E		3240 (10' 8")
Ground clearance of counterweight	F		1295 (4' 3")
Overall height of engine hood	G		2755 (9' 0")
Overall height of handrail	G'		3445 (11' 4")
Minimum ground clearance	H		555 (1' 10")
Rear-end distance	I		3555 (11' 8")
Rear-end swing radius	I'		3640 (11' 11")
Distance between tumblers	J		4470 (14' 8")
Undercarriage length	K		5462 (17' 11")
Undercarriage width	L		3340 (10' 11")
Track gauge	M		2740 (9' 0")
Track shoe width, standard	N		600 (24")
Travel speed (low/high)		km/hr (mph)	3.2/5.5 (2.0/3.4)
Swing speed		rpm	9.2
Gradeability		Degree (%)	35 (70)
Ground pressure (600 mm shoe)		kgf/cm ² (psi)	0.76 (0.81)
Max traction force		kg (lb)	33600 (74075)

3. WORKING RANGE

1) HX430 L [6.5 m (21' 4") BOOM]



430F2SP03

Description		2.6 m (8' 6") Arm	3.2 m (10' 6") Arm
Max digging reach	A	10750 mm (35' 3")	11160 mm (36' 7")
Max digging reach on ground	A'	10520 mm (34' 6")	10930 mm (35' 10")
Max digging depth	B	6910 mm (22' 8")	7500 mm (24' 7")
Max digging depth (8ft level)	B'	6730 mm (22' 1")	7350 mm (24' 1")
Max vertical wall digging depth	C	5100 mm (16' 9")	5440 mm (17' 10")
Max digging height	D	10390 mm (34' 1")	10290 mm (33' 9")
Max dumping height	E	7250 mm (23' 9")	7200 mm (23' 7")
Min swing radius	F	4540 mm (14' 11")	4490 mm (14' 9")
Bucket digging force	SAE	201.0 [219.3] kN	201.0 [219.3] kN
		20500 [22360] kgf	20500 [22360] kgf
		45190 [49300] lbf	45190 [49300] lbf
	ISO	228.5 [249.3] kN	228.5 [249.3] kN
		23300 [25420] kgf	23300 [25420] kgf
		51370 [56040] lbf	51370 [56040] lbf
Arm crowd force	SAE	180.7 [197.2] kN	160.8 [175.4] kN
		18430 [20110] kgf	16400 [17890] kgf
		40630 [44330] lbf	36160 [39440] lbf
	ISO	188.0 [205.1] kN	165.7 [180.8] kN
		19170 [20910] kgf	16900 [18440] kgf
		42260 [46100] lbf	37260 [40650] lbf

[] : Power boost

4. WEIGHT

Item	HX430 L	
	kg	lb
Upperstructure assembly	15610	34410
Main frame weld assembly	3045	6710
Engine assembly	710	1565
Main pump assembly	190	420
Main control valve assembly	340	750
Swing motor assembly	440	970
Hydraulic oil tank assembly	340	750
Fuel tank assembly	260	570
Counterweight	7500	16535
Cab assembly	490	1080
Lower chassis assembly	19600	43210
Track frame weld assembly	6430	14180
Swing bearing	550	1210
Travel motor assembly	630	1390
Turning joint	65	140
Track recoil spring and idler	325	720
Idler	310	680
Sprocket	95	210
Carrier roller	40	90
Track roller	90	192
Track-chain assembly (600 mm standard triple grouser shoe)	2700	5950
Front attachment assembly (6.5 m boom, 3.2 m arm, 1.90 m³ SAE heaped bucket)	8910	19640
6.5 m boom assembly	3180	7010
3.2 m arm assembly	1480	3260
1.90 m³ SAE heaped bucket	1980	4370
Boom cylinder assembly	370	820
Arm cylinder assembly	480	1060
Bucket cylinder assembly	310	680
Bucket control linkage assembly	370	820

5. LIFTING CAPACITIES

1) HX430 L

(1) 6.5 m (21' 4") boom, 2.6 m (8' 6") arm equipped with 2.10 m³ (SAE heaped) bucket and 600 mm (24") triple grouser shoe and 6200 kg (13670 lb) counterweight.

Load point height		Load radius								At max. reach		
		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity		Reach
												m (ft)
9.0 m	kg									*6110	*6110	6.70
(30 ft)	lb									*13470	*13470	(22.0)
7.5 m	kg									*6020	*6020	8.02
(25.0 ft)	lb									*13270	*13270	(26.3)
6.0 m	kg					*7120	*7120	*6600	*6600	*6110	5360	8.86
(20.0 ft)	lb					*15700	*15700	*14550	*14550	*13470	11820	(29.1)
4.5 m	kg			*11000	*11000	*8440	*8440	*7210	*7210	*6270	4660	9.37
(15.0 ft)	lb			*24250	*24250	*18610	*18610	*15900	*15900	*13820	10270	(30.7)
3.0 m	kg			*14280	*14280	*10020	*10020	*8020	7050	*6500	4310	9.59
(10.0 ft)	lb			*31480	*31480	*22090	*22090	*17680	15540	*14330	9500	(31.5)
1.5 m	kg			*16530	15120	*11380	9660	*8800	6730	*6770	4240	9.56
(5.0 ft)	lb			*36440	33330	*25090	21300	*19400	14840	*14930	9350	(31.4)
Ground	kg			*17270	14740	*12190	9310	*9320	6510	*7070	4450	9.27
Line	lb			*38070	32500	*26870	20530	*20550	14350	*15590	9810	(30.4)
-1.5 m	kg	*18230	*18230	*16960	14720	*12320	9190	*9370	6430	*7360	5020	8.68
(-5.0 ft)	lb	*40190	*40190	*37390	32450	*27160	20260	*20660	14180	*16230	11070	(28.5)
-3.0 m	kg	*21990	*21990	*15720	14940	*11590	9290			*7530	6250	7.73
(-10.0 ft)	lb	*48480	*48480	*34660	32940	*25550	20480			*16600	13780	(25.4)
-4.5 m	kg	*17990	*17990	*13070	*13070					*7190	*7190	6.24
(-15.0 ft)	lb	*39660	*39660	*28810	*28810					*15850	*15850	(20.5)

- Note
1. Lifting capacity are based on SAE J1097 and ISO 10567.
 2. Lifting capacity of the ROBEX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
 3. The load point is a hook located on the back of the bucket.
 4. *indicates load limited by hydraulic capacity.

※ Lifting capacities are based upon a standard machine conditions.

Lifting capacities will vary with different work tools, ground conditions and attachments.

The difference between the weight of a work tool attachment must be subtracted.

Consult your Hyundai dealer regarding the lifting capacities for specific work tools and attachments.

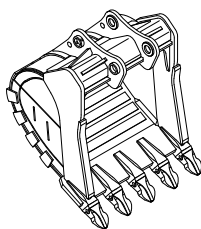
▲ Failure to comply to the rated load can cause possible personal injury or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

(2) 6.5 m (21' 4") boom, 3.2 m (10' 6") arm equipped with 1.90 m³ (SAE heaped) bucket and 600 mm (24") triple grouser shoe and 6200 kg (13670 lb) counterweight.

Load point height		Load radius												At max. reach		
		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		9.0 m (30.0 ft)		Capacity		Reach
																m (ft)
9.0 m (30 ft)	kg													*5440	*5440	7.31
	lb													*11990	*11990	(24.0)
7.5 m (25.0 ft)	kg									*5330	*5330			*5490	*5490	8.53
	lb									*11750	*11750			*12100	*12100	(28.0)
6.0 m (20.0 ft)	kg									*6000	*6000			*5630	5080	9.32
	lb									*13230	*13230			*12410	11200	(30.6)
4.5 m (15.0 ft)	kg							*7670	*7670	*6690	*6690	*5290	*5290	*5850	4450	9.80
	lb							*16910	*16910	*14750	*14750	*11660	*11660	*12900	9810	(32.2)
3.0 m (10.0 ft)	kg					*12950	*12950	*9350	*9350	*7600	7290	*6650	5220	*6110	4130	10.01
	lb					*28550	*28550	*20610	*20610	*16760	16070	*14660	11510	*13470	9110	(32.8)
1.5 m (5.0 ft)	kg					*15710	15610	*10910	9940	*8500	6920	*7140	5020	*6420	4040	9.98
	lb					*34630	34410	*24050	21910	*18740	15260	*15740	11070	*14150	8910	(32.7)
Ground Line	kg			*12890	*12890	*17110	14960	*11990	9480	*9200	6640	*7490	4880	*6770	4190	9.70
	lb			*28420	*28420	*37720	32980	*26430	20900	*20280	14640	*16510	10760	*14930	9240	(31.8)
-1.5 m (-5.0 ft)	kg	*13760	*13760	*17830	*17830	*17340	14770	*12430	9270	*9490	6490			*7150	4640	9.15
	lb	*30340	*30340	*39310	*39310	*38230	32560	*27400	20440	*20920	14310			*15760	10230	(30.0)
-3.0 m (-10.0 ft)	kg	*18570	*18570	*23870	*23870	*16570	14860	*12110	9270	*9150	6510			*7520	5610	8.26
	lb	*40940	*40940	*52620	*52620	*36530	32760	*26700	20440	*20170	14350			*16580	12370	(27.1)
-4.5 m (-15.0 ft)	kg	*24270	*24270	*20790	*20790	*14620	*14620	*10670	9500					*7700	*7700	6.89
	lb	*53510	*53510	*45830	*45830	*32230	*32230	*23520	20940					*16980	*16980	(22.6)

6. BUCKET SELECTION GUIDE

1) HEAVY DUTY BUCKET



◆ 1.90 m³, 2.10 m³ SAE heaped bucket

Capacity		Width	Weight	Recommendation	
				6.5 m (21' 4") boom	
SAE heaped	CECE heaped			2.6 m arm (8' 6")	3.2 m arm (10' 6")
◆ 1.90 m ³ (2.49 yd ³)	1.65 m ³ (2.16 yd ³)	1665 mm (66")	1980 kg (4370 lb)	○	◉
◆ 2.10 m ³ (2.75 yd ³)	1.84 m ³ (2.41 yd ³)	1800 mm (71")	2080 kg (4590 lb)	◉	●

◆ : Rock-heavy duty bucket

- Applicable for materials with density of 2000 kg/m³ (3370 lb/yd³) or less
- Applicable for materials with density of 1600 kg/m³ (2700 lb/yd³) or less
- Applicable for materials with density of 1100 kg/m³ (1850 lb/yd³) or less

※ These recommendations are for general conditions and average use.

Work tools and ground conditions have effects on machine performance.

Select an optimum combination according to the working conditions and the type of work that is being done.

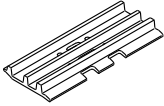
Consult your Hyundai dealer for information on selecting the correct boom–arm–bucket combination.

7. UNDERCARRIAGE

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

Model	Shapes		Triple grouser				
							
HX430 L	Shoe width	mm (in)	600 (24)	700 (28)	750 (30)	800 (32)	900 (36)
	Operating weight	kg (lb)	44120 (97270)	44640 (98410)	44900 (98990)	45170 (99580)	45680 (100710)
	Ground pressure	kgf/cm ² (psi)	0.76 (10.81)	0.66 (9.39)	0.62 (8.82)	0.59 (8.39)	0.53 (7.54)
	Overall width	mm (ft-in)	3340 (10' 11")	3440 (11' 3")	3490 (11' 5")	3540 (11' 7")	3640 (11' 11")

3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity
Carrier rollers	2 EA
Track rollers	9 EA
Track shoes	53 EA

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