

SECTION 1 GENERAL



Group 1 Safety Hints	1-1
Group 2 Specifications	1-9

SECTION 1 GENERAL

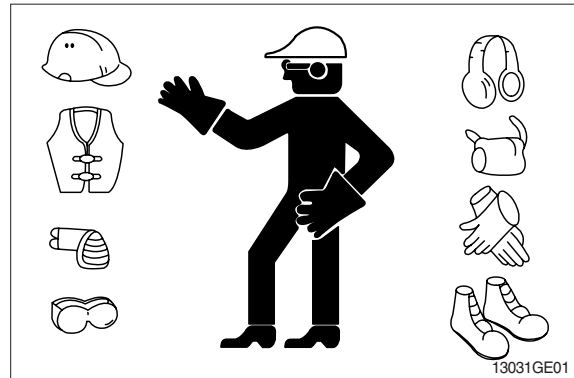
GROUP 1 SAFETY

FOLLOW SAFE PROCEDURE

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

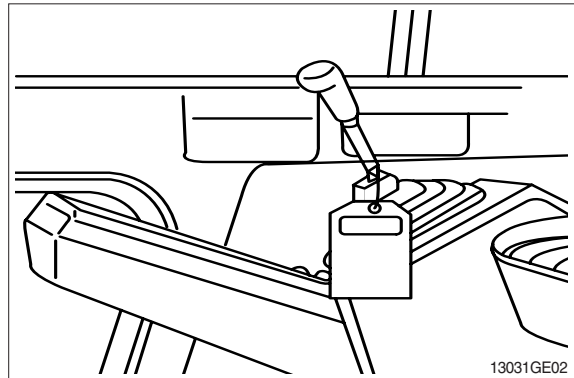
WEAR PROTECTIVE CLOTHING

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



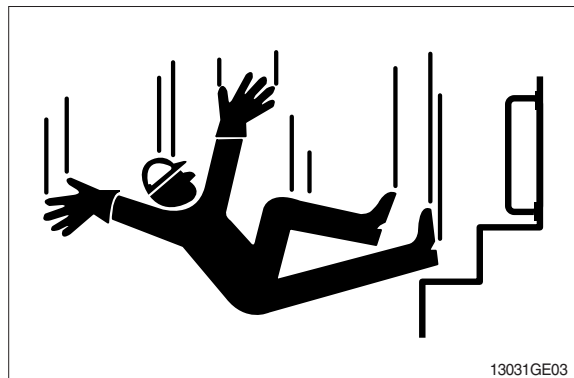
WARN OTHERS OF SERVICE WORK

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.

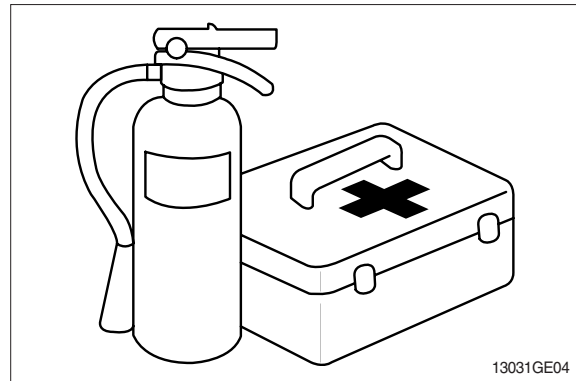


PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

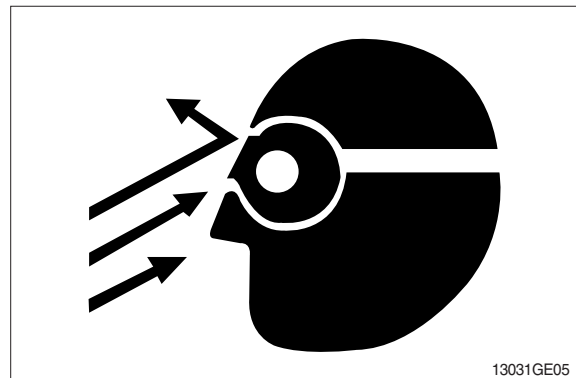
Keep a first aid kit and fire extinguisher handy.

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



PROTECT AGAINST FLYING DEBRIS

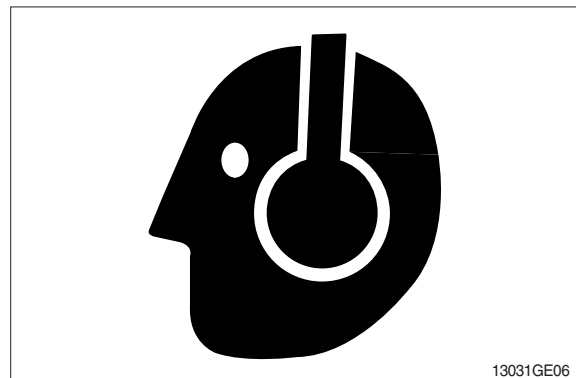
Guard against injury from flying pieces of metal or debris; Wear goggles or safety glasses.



PROTECT AGAINST NOISE

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

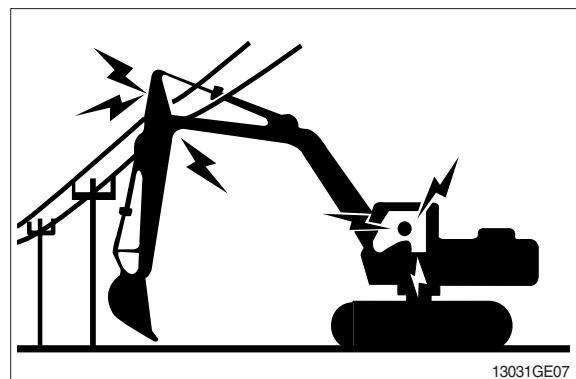
Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



AVOID POWER LINES

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

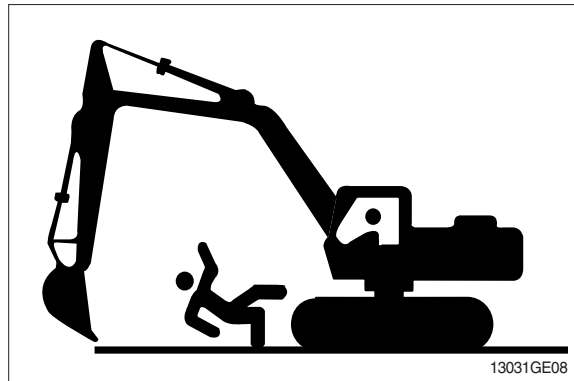
Never move any part of the machine or load closer to electric line than 3m(10ft) plus twice the line insulator length.



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.

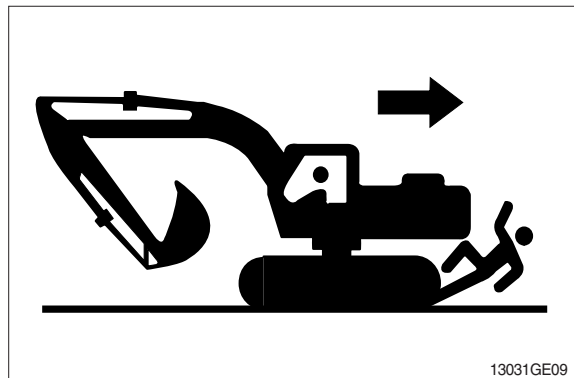


MOVE AND OPERATE MACHINE SAFELY

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:

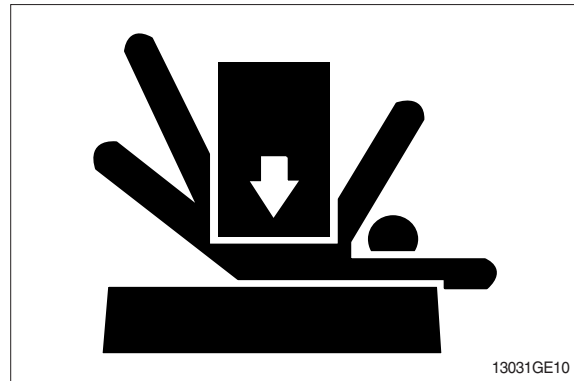
- Park machine on a level surface.
- Lower bucket to the ground.
- Turn auto idle switch off.
- Run engine at 1/2 speed without load for 2 minutes.
- Turn key switch to OFF to stop engine.
Remove key from switch.
- Move pilot control shutoff lever to locked position.
- Allow engine to cool.

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.

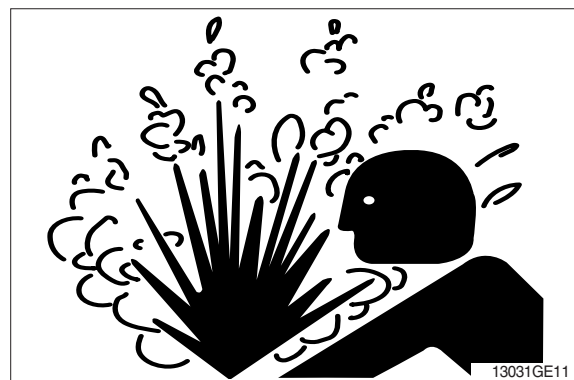
Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.



SERVICE COOLING SYSTEM SAFELY

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

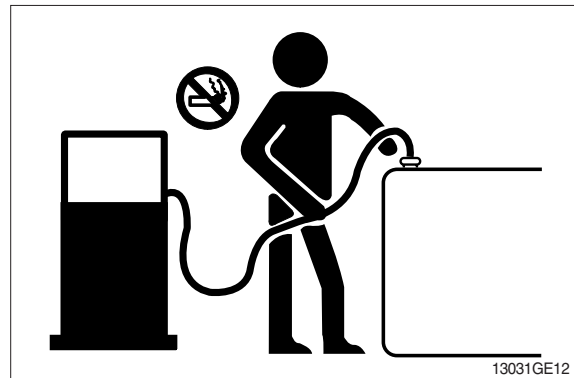
Shut off engine. Only remove filler cap when cool enough to touch with bare hands.



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

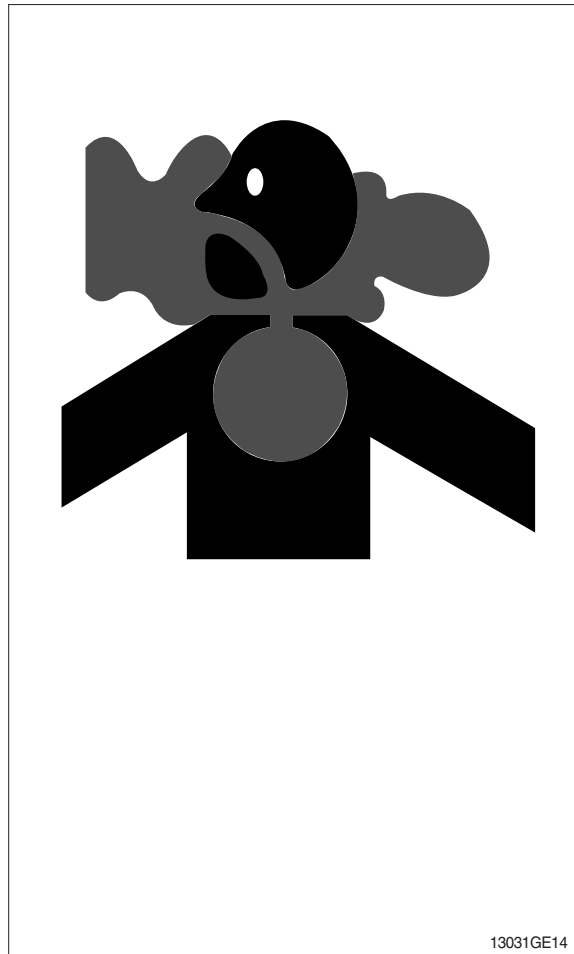
Avoid potentially toxic fumes and dust.

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.

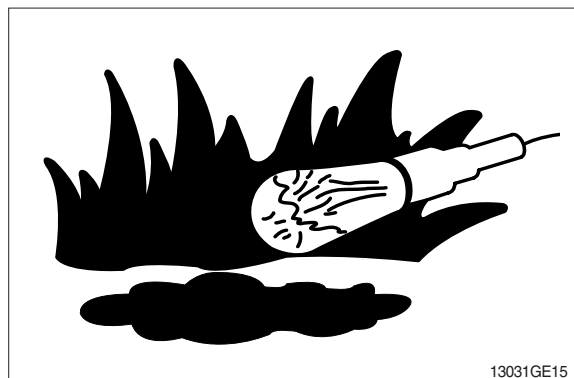
Remove paint before welding or heating:

- 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

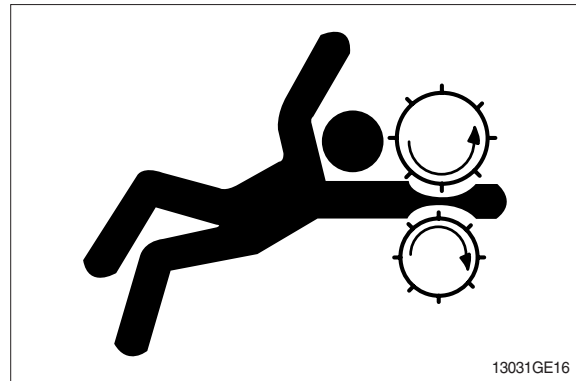
Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.



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.

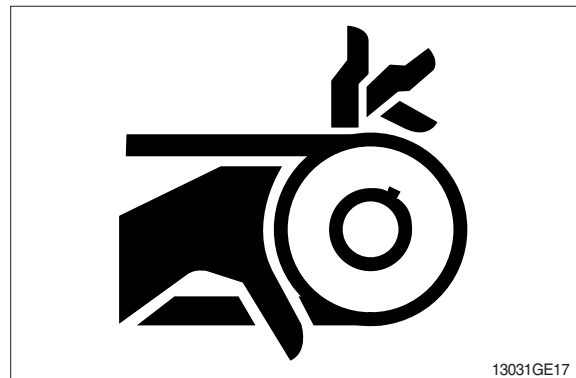
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



STAY CLEAR OF MOVING PARTS

Entanglements in moving parts can cause serious injury.

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



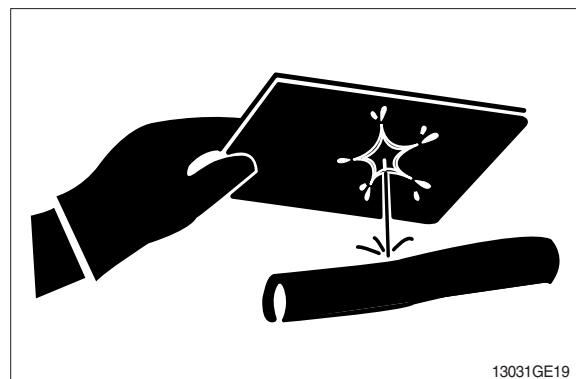
AVOID HIGH PRESSURE FLUIDS

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:

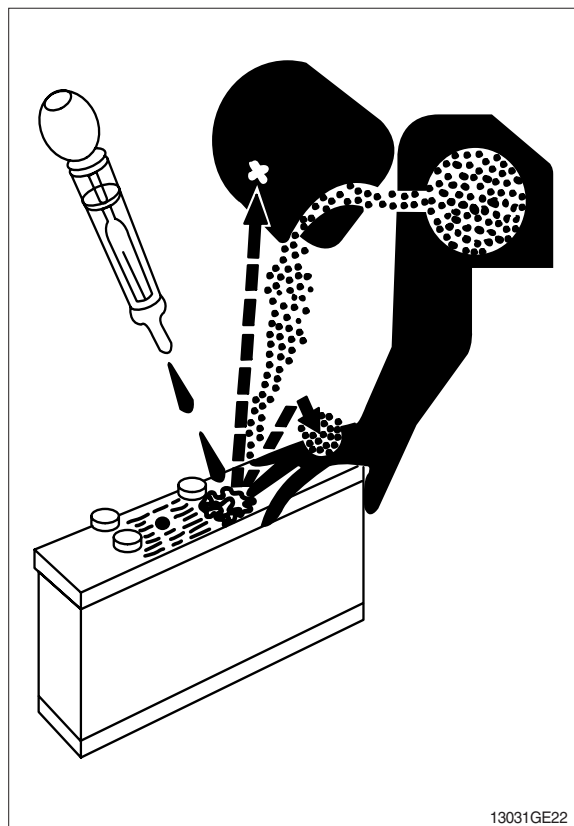
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

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.



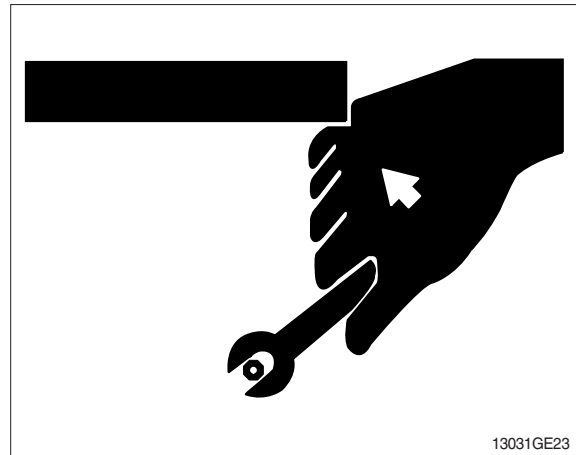
USE TOOLS PROPERLY

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.)

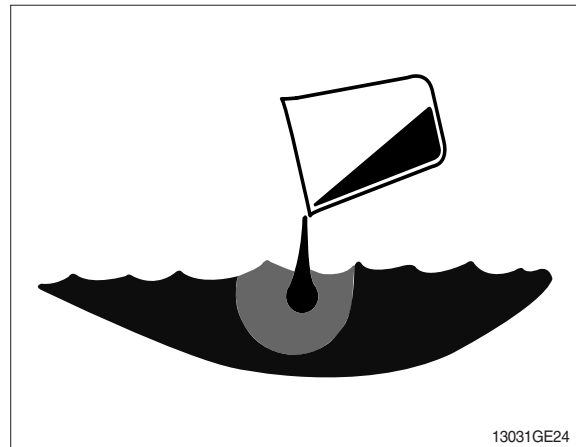


DISPOSE OF FLUIDS PROPERLY

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.

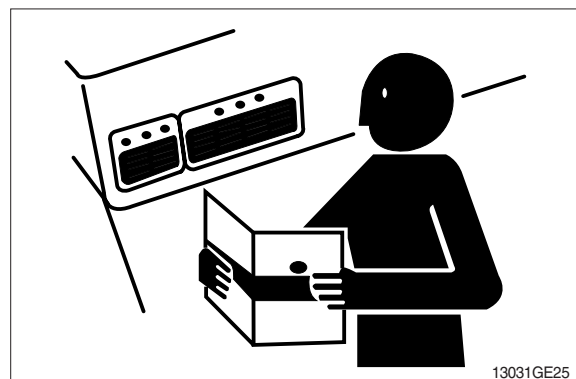
Use proper containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

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.

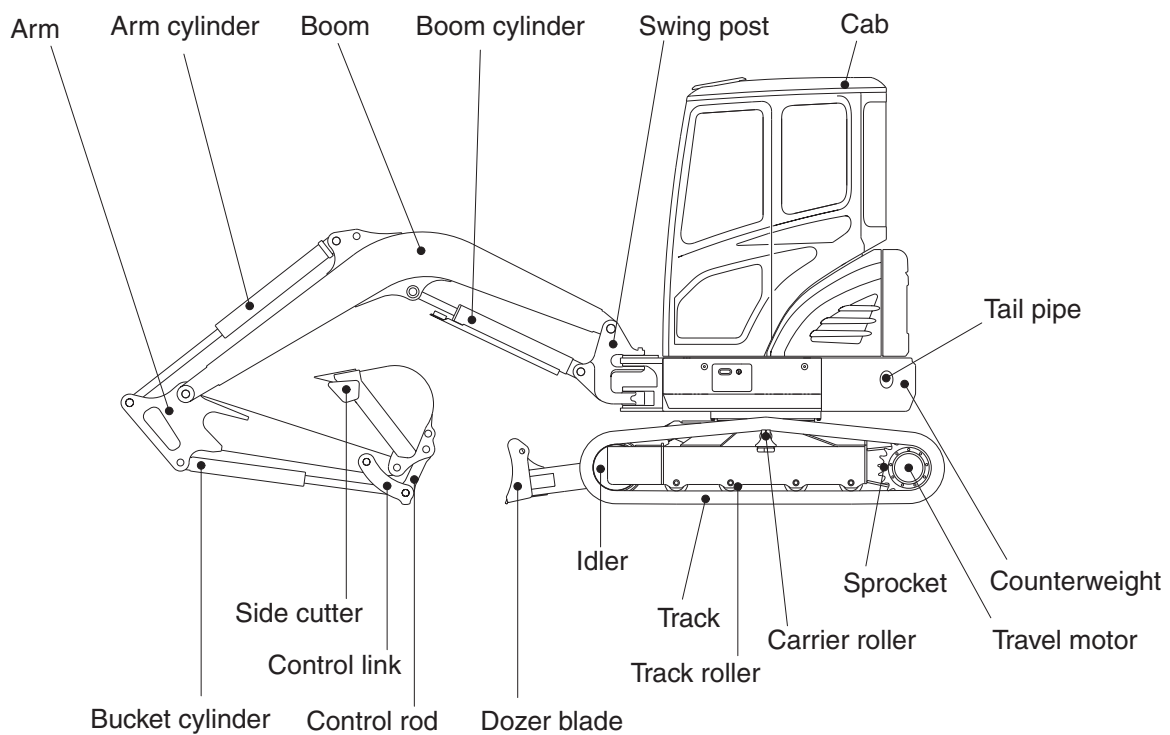
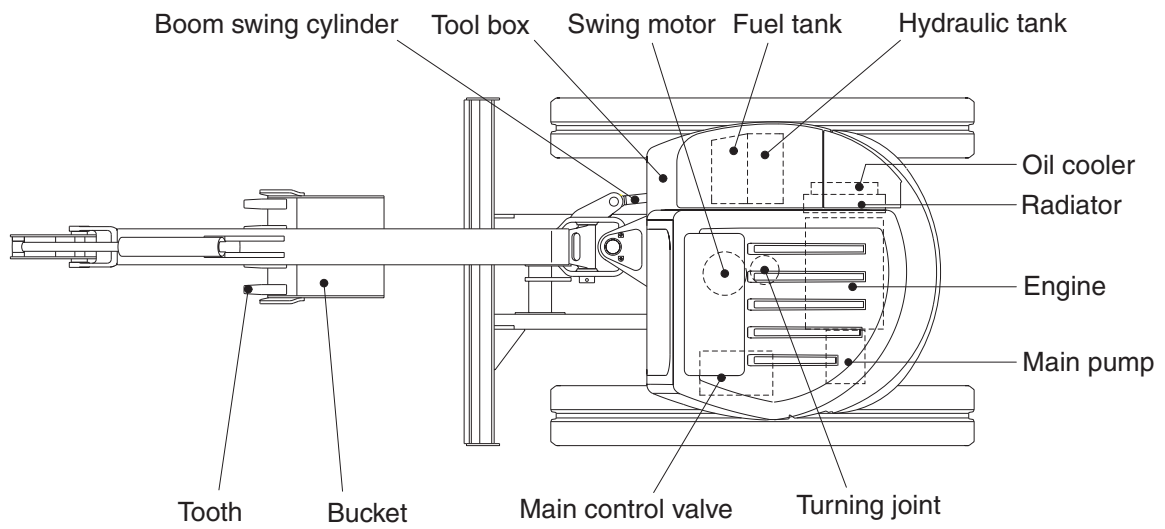


LIVE WITH SAFETY

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

SPECIFICATIONS

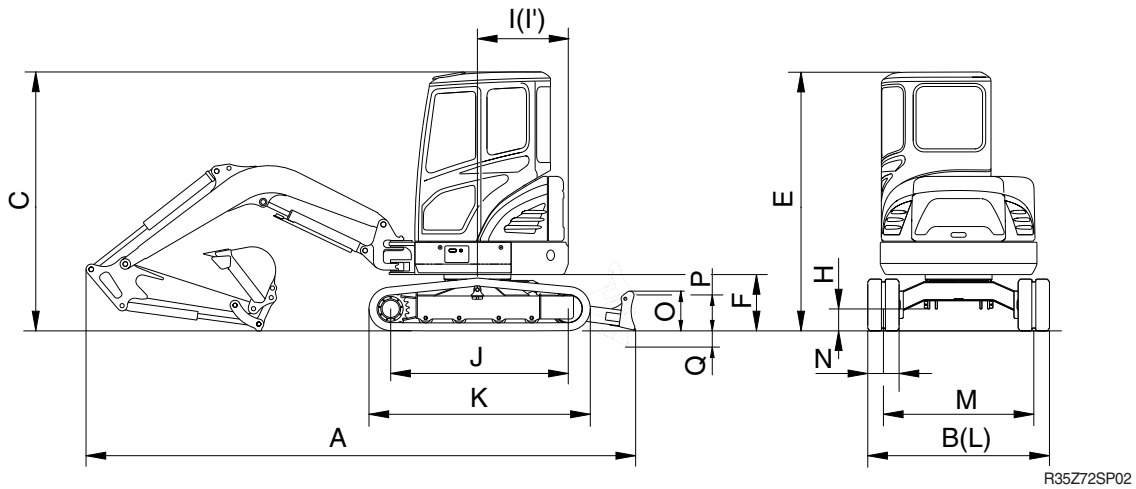
1. MAJOR COMPONENT



R35Z72SP01

2. SPECIFICATIONS

1) 2.5 m (8' 2") MONO BOOM, 1.3 m (4' 3") ARM, WITH BOOM SWING POST

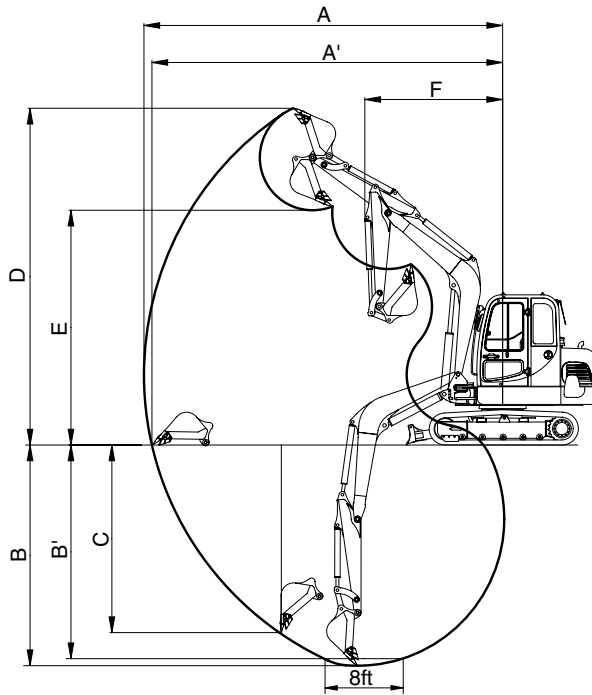


R35Z72SP02

Description		Unit	Specification
Operating weight		kg (lb)	3650 (8050)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	0.11 (0.14)
Overall length	A	mm (ft-in)	4790 (15' 9")
Overall width, with 300 mm shoe	B		1740 (5' 9")
Overall height	C		2500 (8' 2")
Overall height of cab	E		2500 (8' 2")
Ground clearance of counterweight	F		540 (1' 9")
Minimum ground clearance	H		290 (0' 11")
Rear-end distance	I		870 (2' 10")
Rear-end swing radius	I'		870 (2' 10")
Distance between tumblers	J		1700 (5' 7")
Undercarriage length	K		2130 (7' 0")
Undercarriage width	L		1740 (5' 9")
Track gauge	M		1440 (4' 9")
Track shoe width, standard	N		300 (1' 0")
Height of blade	O		370 (1' 3")
Ground clearance of blade up	P		375 (1' 3")
Depth of blade down	Q		390 (1' 3")
Travel speed (low/high)		km/hr (mph)	2.5/4.5 (1.6/2.8)
Swing speed		rpm	9.5
Gradeability		Degree (%)	30 (58)
Ground pressure (300 mm shoe)		kgf/cm ² (psi)	0.34 (4.83)
Max traction force		kg (lb)	3100 (6835)

3. WORKING RANGE

1) 2.5 m (8' 2") MONO BOOM WITH BOOM SWING POST



R5572SP03

Description		1.3 m (4' 3") Arm
Max digging reach	A	5360 mm (17' 7")
Max digging reach on ground	A'	5240 mm (17' 2")
Max digging depth	B	3150 mm (10' 4")
Max digging depth (8 ft level)	B'	2660 mm (8' 9")
Max vertical wall digging depth	C	2190 mm (7' 2")
Max digging height	D	4830 mm (15'10")
Max dumping height	E	3450 mm (11' 4")
Min swing radius	F	2350 mm (7' 9")
Boom swing radius (left/right)		75°/50°
Bucket digging force	SAE	27.9 kN
		2850 kgf
		6280 lbf
	ISO	31.4 kN
		3200 kgf
		7050 lbf
Arm crowd force	SAE	18.9 kN
		1930 kgf
		4250 lbf
	ISO	19.5 kN
		1990 kgf
		4390 lbf

4. WEIGHT











Item	kg	lb
Upperstructure assembly	2100	4630
Main frame weld assembly	480	1060
Engine assembly	155	340
Main pump assembly	25	55
Main control valve assembly	25	55
Swing motor assembly	40	90
Hydraulic oil tank assembly	50	110
Fuel tank assembly	30	70
Boom swing post	80	180
Counterweight	420	925
Cab assembly	210	460
Canopy assembly	100	220
Lower chassis assembly	1170	2580
Track frame weld assembly	400	880
Swing bearing	50	110
Travel motor assembly	35	77
Turning joint	15	35
Track recoil spring	12.5	27.5
Yoke	5	11
Idler	20	44
Carrier roller	2.7	6
Track roller	7.7	17
Sprocket	7.5	16.5
Rubber track (300 mm)	127.5	281
Dozer blade assembly	140	310
Front attachment assembly (2.5 m boom, 1.3 m arm, 0.11 m ³ SAE heaped bucket)	460	1015
2.5 m boom assembly	140	310
1.3 m arm assembly	80	180
0.11 m ³ SAE heaped bucket	80	180
Boom cylinder assembly	40	90
Arm cylinder assembly	40	90
Bucket cylinder assembly	30	70
Bucket control link assembly	20	45
Dozer cylinder assembly	30	70
Boom swing cylinder assembly	30	70

5. LIFTING CAPACITIES

1) 2.5 m (8' 2") boom, 1.3 m (4' 3") arm equipped with 0.11 m³ (SAE heaped) bucket and 300 mm (12") rubber track, the dozer blade up with 420 kg (925 lb) counterweight.

·  : Rating over-front

·  : Rating over-side or 360 degree











Load point height		Load radius								At max. reach		
		1.0 m (3.3 ft)		2.0 m (6.6 ft)		3.0 m (9.9 ft)		4.0 m (13.2 ft)		Capacity		Reach
												m (ft)
4.0 m (13.2 ft)	kg									600	510	3.94
	lb									1320	1120	(12.9)
3.5 m (11.5 ft)	kg							560	470	420	360	4.74
	lb							1230	1040	930	790	(15.6)
3.0 m (10.0 ft)	kg					890	750	540	460	360	300	5.11
	lb					1960	1650	1190	1010	790	660	(16.8)
2.5 m (8.2 ft)	kg					830	690	520	440	340	290	5.18
	lb					1830	1520	1150	970	750	640	(17.0)
Ground Line	kg			1570	1260	790	650	500	420	360	300	4.98
	lb			3460	2780	1740	1430	1100	930	790	660	(16.3)
-1.0 m (-3.3 ft)	kg	*2100	*2100	1590	1270	780	650	500	420	440	370	4.45
	lb	*4630	*4630	3510	2800	1720	1430	1100	930	970	820	(14.6)
-2.5 m (-8.2 ft)	kg			1630	1310	810	670					
	lb			3590	2890	1790	1480					

- 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.

2) 2.5 m (8' 2") boom, 1.3 m (4' 3") arm equipped with 0.11 m³ (SAE heaped) bucket and 300 mm (12") rubber track, the dozer blade down with 420 kg (925 lb) counterweight.

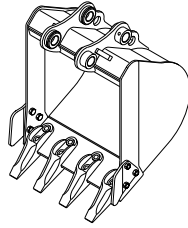
·  : Rating over-front

·  : Rating over-side or 360 degree

Load point height		Load radius								At max. reach		
		2.0 m (6.6 ft)		2.5 m (8.2 ft)		3.0 m (10.0 ft)		3.5 m (11.5 ft)		Capacity		Reach m (ft)
												
4.0 m (13.2 ft)	kg lb									*700 *1540	510 1120	3.94 (12.9)
3.0 m (9.9 ft)	kg lb							*760 *1680	470 1040	*630 *1390	360 790	4.74 (15.6)
2.0 m (6.6 ft)	kg lb					*1780 *3920	750 1650	1410 3110	460 1010	*620 *1370	300 660	5.11 (16.8)
1.0 m (3.3 ft)	kg lb					2400 5290	690 1520	1380 3040	440 970	*650 *1430	290 640	5.18 (17.0)
Ground Line	kg lb			*1730 *3810	1260 2780	2340 5160	650 1430	1360 3000	420 930	*740 *1630	300 660	4.98 (16.3)
-1.0 m (-3.3 ft)	kg lb	*2100 *4630	*2100 *4630	*2850 *6280	1270 2800	2330 5140	650 1430	1350 2980	420 930	*920 *2030	370 820	4.45 (14.6)
-2.0 m (-6.6 ft)	kg lb			*3540 *7800	1310 2890	*2050 *4520	670 1480					

- 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.
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6. BUCKET SELECTION GUIDE



0.11 m³
SAE heaped bucket

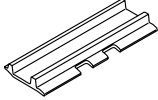
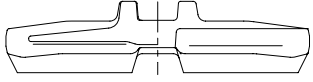
Capacity		Width		Weight	Recommendation
SAE heaped	CECE heaped	Without side cutter	With side cutter		2.5 m (8' 2") boom
					1.3 m (4' 3") arm
0.11 m ³ (0.14 yd ³)	0.09 m ³ (0.12 yd ³)	550 mm (21.7")	610 mm (24.0")	80 kg (176 lb)	Applicable for materials with density of 1600 kgf/m ³ (2700 lb /yd ³) or less

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 double grousers.

(2) TYPES OF SHOES

Model	Shapes		Steel double grouser	Rubber track
				
R35Z-9	Shoe width	mm (in)	300 (12")	300 (12")
	Operating weight	kg (lb)	3750 (8267)	3650 (8050)
	Ground pressure	kgf/cm ² (psi)	0.34 (4.83)	0.34 (4.83)
	Overall width	mm (ft-in)	1740 (5' 9")	1740 (5' 9")

(3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity
Carrier rollers	1EA
Track rollers	4EA
Track shoes	44EA

8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	Yanmar 3TNV88-BSHYB
Type	4-cycle diesel engine, low emission
Cooling method	Water cooling
Number of cylinders and arrangement	3 cylinders, in-line
Firing order	1-3-2
Combustion chamber type	Direct injection type
Cylinder bore × stroke	88 × 90 mm (3.46" × 3.54")
Piston displacement	1642 cc (100.2 cu in)
Compression ratio	19.1 : 1
Rated gross horse power (SAE J1995)	27.3 Hp at 2200 rpm (20.4 kW at 2200 rpm)
Maximum torque at 1200 rpm	10.8 kgf · m (78 lbf · ft)
Engine oil quantity	6.7 l (1.8 U.S. gal)
Dry weight	155 kg (340 lb)
High idling speed	2400+30 rpm
Low idling speed	1100±30 rpm
Rated fuel consumption	182 g/Hp · hr at 2200 rpm
Starting motor	12V-2.3 kW
Alternator	12V-55 A
Battery	1 × 12 V × 80 Ah (5h rating)

2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 17.5 cc/rev
Maximum pressure	230 kgf/cm ² (3270 psi)
Rated oil flow	2 × 38.5 l/min (10.2 U.S. gpm / 8.5 U.K. gpm)
Rated speed	2200 rpm

3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	10.7/5.1 cc/rev
Maximum pressure	230/30 kgf/cm ² (3270/430 psi)
Rated oil flow	23.5/11.2 l /min (6.2/3.0 U.S. gpm / 5.2/2.5 U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	Sectional, 10 spools (11 Blocks)
Operating method	Hydraulic pilot system
Main relief valve pressure	230 kgf/cm ² (3270 psi)
Overload relief valve pressure	250 kgf/cm ² (3560 psi)

5) SWING MOTOR

Item	Specification
Type	Fixed displacement axial piston motor
Capacity	22 cc/rev
Relief pressure	200 kgf/cm ² (2845 psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	9.2 kgf · m (66.5 lbf · ft)
Brake release pressure	20~65 kgf/cm ² (284~925 psi)
Reduction gear type	2 - stage planetary

6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Relief pressure	230 kgf/cm ² (3270 psi)
Reduction gear type	2-stage planetary
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	12 kgf/cm ² (170 psi)
Braking torque	4.2 kgf · m (30 lbf · ft)

7) REMOTE CONTROL VALVE

Item		Specification
Type		Pressure reducing type
Operating pressure	Minimum	5 kgf/cm ² (71 psi)
	Maximum	20 kgf/cm ² (284 psi)
Single operation stroke	Lever	6.5/8.5 mm (0.26/0.33 in)

8) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	Ø85 × Ø45 × 540 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	Ø80 × Ø45 × 585 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	Ø70 × Ø45 × 510 mm
	Cushion	-
Boom swing cylinder	Bore dia × Rod dia × Stroke	Ø80 × Ø45 × 400 mm
	Cushion	-
Dozer cylinder	Bore dia × Rod dia × Stroke	Ø95 × Ø50 × 152 mm
	Cushion	-

※ Discoloration of cylinder rod can occur when the friction reduction additive of lubrication oil spreads on the rod surface.

※ Discoloration does not cause any harmful effect on the cylinder performance.

9) SHOE (Steel track)

Item	Width	Ground pressure	Link quantity	Overall width
R35Z-9	300 mm (12")	0.34 kgf/cm ² (4.83 psi)	44	1740 mm (5' 9")

10) BUCKET

Item		Capacity		Tooth quantity	Width	
		SAE heaped	CECE heaped		Without side cutter	With side cutter
R35Z-9	STD	0.11 m ³ (0.14 yd ³)	0.09 m ³ (0.12 yd ³)	4	550 mm (21.7")	610 mm (24.0")

9. RECOMMENDED OILS

HYUNDAI genuine lubricating oils have been developed to offer the best performance and service life for your equipment. These oils have been tested according to the specifications of HYUNDAI and, therefore, will meet the highest safety and quality requirements.

We recommend that you use only HYUNDAI genuine lubricating oils and grease officially approved by HYUNDAI.

Service point	Kind of fluid	Capacity l (U.S. gal)	Ambient temperature °C (°F)						
			-20 (-4)	-10 (14)	0 (32)	10 (50)	20 (68)	30 (86)	40 (104)
Engine oil pan	Engine oil	6.7 (1.8)	SAE 30						
			SAE 10W						
			SAE 10W-30						
						SAE 15W-40			
Final drive	Gear oil	0.5×2 (0.13×2)	SAE 85W-140						
Hydraulic tank	Hydraulic oil	Tank : 37 (9.8) System : 60 (15.9)	ISO VG 32						
			ISO VG 46, HBHO VG 46 ^{★3}						
			ISO VG 68						
Fuel tank	Diesel fuel ^{★1}	40 (10.5)	ASTM D975 NO.1						
			ASTM D975 NO.2						
Fitting (Grease nipple)	Grease	As required	NLGI NO.1						
			NLGI NO.2						
Radiator (Reservoir tank)	Mixture of antifreeze and water 50 : 50 ^{★2}	5 (1.3)	Ethylene glycol base permanent type						

SAE : Society of Automotive Engineers
API : American Petroleum Institute
ISO : International Organization for Standardization
NLGI : National Lubricating Grease Institute
ASTM : American Society of Testing and Material
UTTO : Universal Tractor Transmission Oil

[★] : Cold region
 Russia, CIS, Mongolia
^{★1} : Ultra low sulfur diesel
 - sulfur content ≤ 15 ppm
^{★2} : Soft water
 City water or distilled water
^{★3} : Hyundai Bio Hydraulic Oil
 - For more information, contact HYUNDAI dealers.

※ Using any lubricating oils other than HYUNDAI genuine products may lead to a deterioration of performance and cause damage to major components.

※ Do not mix HYUNDAI genuine oil with any other lubricating oil as it may result in damage to the systems of major components.

※ Do not use any engine oil other than that specified above, as it may clog the diesel particulate filter(DPF).

※ For HYUNDAI genuine lubricating oils and grease for use in regions with extremely low temperatures, please contact HYUNDAI dealers.