



E115SR

E135SR

WORKSHOP MANUAL
ENGLISH

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TO THE READER

- This manual has been written for a skilled technician, in order to give him the information necessary to repair this machine.
- **Read this manual carefully for correct information about repair procedures.**
- **For any question or comment, or in case you notice a mistake in this manual content, please contact:**

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ADDITIONAL REFERENCE MANUALS

- In addition to this Workshop Manual, refer also to the following:
 - **Operation and maintenance instruction manual**
 - **Spare parts catalog**
-

DESCRIPTION OF THE COMPLETE WORKSHOP MANUAL

- The complete repair manual consists of two volumes:
 - **E115SR Workshop Manual "Excavator"**
- "Excavator" and "Engine" Workshop Manuals contain the technical information necessary for machine/engine service and repair, service equipment, information on maintenance standards, remove and install procedures, disassembly and assembly procedures.
- The complete Workshop Manual for the excavator model *E115SR* consists of the following volumes identified by print number as shown herebelow:

VOLUME	MACHINE TYPE	PRINT No.
Workshop Manual - "Excavator"	<i>E115SR</i>	604.13.426

AVOID ACCIDENTS

Most accidents, whether they occur in industry, on the farm, at home or on the highway, are caused by the failure of some individuals to follow simple and fundamental safety rules or precautions. For this reason **MOST ACCIDENTS CAN BE PREVENTED** by recognising the real cause and doing something about it before the accident occurs.

Regardless of the care used in the design and construction of any type of equipment there are conditions that cannot be completely safeguarded against without interfering with reasonable accessibility and efficient operation. Carefully read indications, cautions and safety warning quoted in the "SAFETY RULES" section.

A careful operator is the best insurance against an accident.

The complete observance of one simple rule would prevent many thousand serious injuries each year.

That rule is:

Never attempt to clean, oil or adjust a machine while it is in motion.



ATTENTION

On machines having hydraulically, mechanically and/or cable controlled equipment (such as showels, loaders, dozers, scrapers etc.) be certain the equipment is lowered to the ground before servicing, adjusting and/or repairing.

If it is necessary to have the equipment partially or fully raised to gain access to certain items, be sure the equipment is suitably supported by means other than the hydraulic lift cylinders, cable and/or mechanical device used for controlling the equipment.

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SAFETY PRECAUTIONS**WARNING**

The proper and safe lubrication and maintenance for this machine, recommended by Distributor, are outlined in the OPERATOR'S MANUAL for the machine.

Improper performance of lubrication or maintenance procedures are dangerous and could result in injury or death. Read and understand the MANUAL before performing any lubrication or maintenance.

The serviceman or mechanic may be unfamiliar with many of the systems on this machine. This makes it important to use caution when performing service work. A knowledge of the system and or components is important before the removal or disassembly of any component.

Because of the size of some of the machine components, the serviceman or mechanic should check the weights noted in this manual. Use proper lifting procedures when removing any components. Weight of components table is shown in the section; SPECIFICATIONS.

The following is a list of basic precautions that must always be observed.

1. Read and understand all Warning plates and decal on the machine before Operating, Maintaining or Repairing this machine.
2. Always wear protective glasses and protective shoes when working around machines. In particular, wear protective glasses when using hammers, punches or drifts on any part of the machine or attachments. Use welders gloves, hood/goggles, apron and the protective clothing appropriate to the welding job being performed. Do not wear loose fitting or torn clothing. Remove all rings from fingers, loose jewelry, confine long hair and loose clothing before working on this machinery.
3. Disconnect the battery and hang a "Do Not Operate" tag in the Operators Compartment. Remove ignition keys.
4. If possible, make all repairs with the machine parked on a level, hard surface. Block the machine so it does not roll while working on or under the machine. Hang a "Do Not Operate" tag in the Operators Compartment.
5. Do not work on any machine that is supported only by lift, jacks or a hoist. Always use blocks or jack stands, capable of supporting the machine, before performing any disassembly.

**WARNING**

Do not operate this machine unless you have read and understand the instructions in the OPERATOR'S MANUAL. Improper machine operation is dangerous and could result in injury or death.

6. Relieve all pressure in air, oil or water systems before any lines, fittings or related items are disconnected or removed. Always make sure all raised components are blocked correctly and be alert for possible pressure when disconnecting any device from a system that utilizes pressure.
7. Lower the bucket, dozer, or other attachments to the ground before performing any work on the machine. If this cannot be done, make sure the bucket, dozer, ripper or other attachment is blocked correctly to prevent it from dropping unexpectedly.
8. Use steps and grab handles when mounting or dismounting a machine. Clean any mud or debris from steps, walkways or work platforms before using. Always face to the machine when using steps, ladders and walkways. When it is not possible to use the designed access system, provide ladders, scaffolds, or work platforms to perform safe repair operations.
9. To avoid back injury, use a hoist when lifting components which weigh 20 kg (45 lbs) or more. Make sure all chains, hooks, slings, etc., are in good condition and are the correct capacity. Be sure hooks are positioned correctly. Lifting eyes are not to be side loaded during a lifting operation.
10. To avoid burns, be alert for hot parts on machines which have just been stopped and hot fluids in lines, tubes and compartments.
11. Be careful when removing cover plates. Gradually back off the last two capscrews or nuts located at opposite ends of the cover or device and carefully pry cover loose to relieve any spring or other pressure, before removing the last two capscrews or nuts completely.
12. Be careful when removing filler caps, breathers and plugs on the machine. Hold a rag over the cap or plug to prevent being sprayed or splashed by liquids under pressure. The danger is even

SAFETY PRECAUTIONS

- greater if the machine has just been stopped because fluids can be hot.
- Always use the proper tools that are in good condition and that are suited for the job at hand. Be sure you understand how to use them before performing any service work.
 - Reinstall all fasteners with the same part number. Do not use a lesser quality fastener if replacements are necessary.
 - Repairs which require welding should be performed only with the benefit of the appropriate reference information and by personnel adequately trained and knowledgeable in welding procedures. Determine type of metal being welded and select correct welding procedure and electrodes, rods or wire to provide a weld metal strength equivalent at least to that of the parent metal. Make sure to disconnect battery before any welding procedures are attempted.
 - Do not damage wiring during removal operations. Reinstall the wiring so it is not damaged nor will be damaged in operation of the machine by contacting sharp corners, or by rubbing against some object or hot surface. Do not connect wiring to a line containing fluid.
 - Be sure all protective devices including guards and shields are properly installed and functioning correctly before starting a repair. If a guard or shield must be removed to perform the repair work, use extra caution and replace the guard or shield after repair is completed.
 - The maintenance and repair work while holding the bucket raised is dangerous due to the possibility of a falling attachment. Don't fail to lower the attachment and place the bucket to the ground before starting the work.
 - Loose or damaged fuel, lubricant and hydraulic lines, tubes and hoses can cause fires. Do not bend or strike high pressure lines or install ones which have been bent or damaged. Inspect lines, tubes and hoses carefully. Do not check for leaks with your hands. Very small (pinhole) leaks can result in a high velocity oil stream that will be invisible close to the hose. This oil can penetrate the skin and cause personal injury. Use cardboard or paper to locate pinhole leaks.
 - Tighten connections to the correct torque. Make sure that all heat shields, clamps and guards are installed correctly to avoid excessive heat, vibration or rubbing against other parts during operation.
- Shields that protect against oil spray onto hot exhaust components in event of a line, tube or seal failure must be installed correctly.
- Do not operate a machine if any rotating part is damaged or contacts any other part during operation. Any high speed rotating component that has been damaged or altered should be checked for balance before reusing.
 - Be careful when servicing or separating the tracks (crawlers). Chips can fly when removing or installing a track (crawlers) pin. Wear safety glasses and long sleeve protective clothing. Tracks (crawlers) can unroll very quickly when separated. Keep away from front and rear of machine. The machine can move unexpectedly when both tracks (crawlers) are disengaged from the sprockets. Block the machine to prevent it from moving.

NOTE

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SECTION 1

OUTLINE

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1. GENERAL PRECAUTIONS FOR REPAIRS



1.1 PREPARATION BEFORE DISASSEMBLING

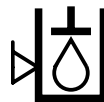
- (1) Understanding operating procedure
Read OPERATION & MAINTENANCE MANUAL carefully to understand the operating procedure.
- (2) Cleaning machines
Remove soil, mud, and dust from the machine before carrying it into the service shop to prevent loss of work efficiency, damage of parts, and difficulty in rust prevention and dust protection while reassembling.
- (3) Inspecting machines
Identify the parts to be disassembled before starting work, determine the disassembling procedure by yourself considering the workshop situations etc., and request procurement of necessary parts in advance.
- (4) Recording
Record the following items for communication and prevention of recurring malfunction.
 - 1) Inspection date and place
 - 2) Model name, applicable machine number, and hour meter read
 - 3) Trouble condition, place and cause, if any
 - 4) Visible oil leakage, water leakage and damage
 - 5) Clogging of filters, oil level, oil quality, oil contamination and loosening of connections
 - 6) Result of consideration if any problem exists based on the operation rate per month calculated from hour meter indication after the last inspection date.
- (5) Arrangement and cleaning in service shop
 - 1) Tools required for repair work.
 - 2) Prepare space to place the disassembled parts.
 - 3) Prepare oil containers for spilling oil etc.



1.2 SAFETY IN DISASSEMBLING AND ASSEMBLING

- 1) Wear appropriate clothes with long sleeves, safety shoes, safety helmet and protective glasses.
- 2) Suspend warning tag "DO NOT OPERATE" from the doorknob or the operating lever, and have a preliminary meeting before starting work.

- 3) Stop the engine before starting inspection and maintenance to prevent the operator being caught in machine.
- 4) Identify the location of a first-aid kit and a fire extinguisher, and also where to make contact in a state of emergency.
- 5) Choose a hard, level and safe place, and place the attachment on the ground securely.
- 6) Use a lifter such as a crane to remove heavy parts (23 kg [50 lbs] or more) from the machine.
- 7) Use proper tools, and replace or repair defective tools.
- 8) Support the machine and attachment with supports or blocks if the work is performed in the lifted condition.



1.3 DISASSEMBLING AND ASSEMBLING HYDRAULIC EQUIPMENT

- (1) Removing hydraulic equipment
 - 1) Before disconnecting pipes, release the hydraulic pressure of the system, or open the return side cover and take out the filter.
 - 2) Carefully drain oil of the removed pipes into a containers without spilling on the floor.
 - 3) Apply plugs or caps on the pipe ends to avoid oil spillage and dust intrusion.
 - 4) Clean off the external surface of the equipment before disassembling, and drain hydraulic and gear oil before placing it on the workbench.
- (2) Disassembling hydraulic equipment
 - 1) Do not disassemble, reassemble or modify the hydraulic equipment without the permission of the manufacturer, who is not responsible for the performance and function of the product after reassembling.
 - 2) When disassembling and reassembling for unavoidable reason, refer the work to qualified personnel who have the specific knowledge or completed the parts service training.
 - 3) Provide matching marks to facilitate reassembling work.
 - 4) Before starting the work, read the manual of disassembling procedure, if it is provided, and decide whether the work can be performed by yourself.
 - 5) Use the special jig and tools without fail if they are

specified.

- 6) If it is hard to remove a part according to the procedure, do not try it by force but investigate the cause.
- 7) Place the removed parts in order and attach tags to facilitate the reassembling.
- 8) Note the location and quantity of parts commonly applied to multiple locations.

(3) Inspecting parts

- 1) Ensure that the disassembled parts are free from seizure, interference and uneven contact.
- 2) Measure and record wear condition of parts and clearance.
- 3) If the problem is found in a part, repair or replace it with a new one.

(4) Reassembling hydraulic equipment

- 1) Turn ON the ventilation fan or open windows to maintain good ventilation prior to starting the cleaning of parts.
- 2) Perform rough and finish cleaning before assembling.
- 3) Remove washing oil by air and apply clean hydraulic or gear oil for assembling.
- 4) Always replace the removed O-rings, backup rings and oil seals with new ones by applying grease in advance.
- 5) Remove dirt and moisture from and perform degreasing on the surface where liquid gasket to be applied.
- 6) Remove rust preventive agent from the new parts before use.
- 7) Fit bearings, bushings and oil seals using special jigs.
- 8) Assemble the parts utilizing matching marks.
- 9) Ensure all the parts are completely assembled after the work.

(5) Installing hydraulic equipment

- 1) Ensure hydraulic oil and lubricant are properly supplied.
- 2) Perform air bleeding when:
 - a. Hydraulic oil changed
 - b. Parts of suction side piping replaced
 - c. Hydraulic pump installed
 - d. Slewing motor installed
 - e. Travel motor installed
 - f. Hydraulic cylinder installed



WARNING

Operation of the hydraulic equipment without filling hydraulic oil or lubricant or without performing air bleeding will result in damage to the equipment.

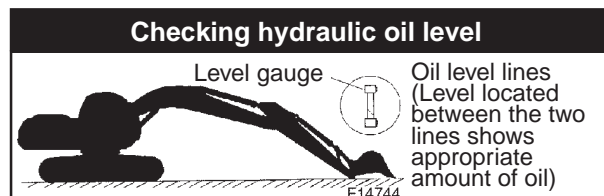
- 3) Perform air bleeding of the hydraulic pump and slewing motor after loosening the upper drain plug, starting the engine and keep it in low idle condition. Complete the air bleeding when seeping of hydraulic oil is recognized, and tightly plug.
- 4) Perform air bleeding of the travel motor and the hydraulic cylinders by running the engine for more than 5 minutes at low speed without load.



WARNING

Do not allow the hydraulic cylinder to bottom on the stroke end just after the maintenance.

- 5) Perform air bleeding of pilot line by performing a series of digging, slewing and travel.
- 6) Check hydraulic oil level after placing the attachment to the oil check position, and replenish oil if necessary.



1.4 ELECTRICAL EQUIPMENT

- (1) Do not disassemble electrical equipment.
- (2) Handle it carefully not to drop and give a shock.
- (3) Turn the key OFF prior to connecting and disconnecting work.
- (4) Disconnect the connector by holding it and pressing the lock. Do not pull the wire to apply force to the caulking portion.
- (5) Connect the connector and ensure it is completely locked.

- (6) Turn the key OFF prior to touching the terminal of starter or generator.
- (7) Remove the ground (earth) terminal of battery when handling tools around the battery or its relay.
- (8) Do not splash water on the electrical equipment and connectors during machine washing.
- (9) Check for moisture adhesion inside the waterproof connector after pulling it out, since it is hard to remove moisture from the connector. If moisture adhesion is found, dry it completely before the connection.



WARNING

Battery electrolyte is hazardous.

Battery electrolyte is dilute sulfuric acid. Exposure of skin or eyes to this liquid will cause burning or loss of eyesight. If the exposure occurs, take the following emergency measures and seek the advice of a medical specialist.

- *When skin exposed: Wash with water and soap sufficiently.*
- *When eyes exposed: Immediately wash away with city water continuously for more than 10 minutes.*
- *When a large amount of the liquid flows out: Neutralize with sodium bicarbonate or wash away with city water.*
- *When swallowed: Drink a large amount of milk or water.*
- *When clothes exposed: Immediately undress and wash.*



1.5 HYDRAULIC PARTS

- 1) O-ring
 - O-rings have elasticity and are not damaged before use.
 - Use the appropriate O-rings. O-rings are made of various kinds of materials having different hardness to apply to a variety of parts, such as the part for moving or fixed portion, subjected to high pressure, and exposed to corrosive fluid, even if the size is same.
 - Fit the O-rings without distortion and bend.
 - Always handle floating seals as a pair.
- 2) Flexible hose (F hose)
 - Use the appropriate parts. Different parts are

used depending on the working pressure even the size of fitting and the total length of the hose is same.

- Tighten the fitting at the specified torque. Ensure no kink, tension, interference nor oil leakage is recognized.

1.6 WELDING REPAIR

- (1) Refer repair welding to qualified personnel according to the appropriate procedure.
- (2) Disconnect the ground (earth) cable of the battery before starting the repair. Failure to do so will cause damage to the electrical equipment.
- (3) Move away the articles in advance that may cause fire if exposed to sparks.
- (4) Before starting the repair of the attachment, do not fail to cover the plated surface of the piston rod with flameproof sheet to prevent it from being exposed to sparks.

1.7 ENVIRONMENTAL MEASURE

- (1) Run the engine at the place that is sufficiently ventilated.
- (2) Industrial waste disposal
Dispose of the following parts according to the relevant regulations:
Waste oil and waste container
Battery
- (3) Precautions for handling hydraulic oil
Exposure of eyes to hydraulic oil will cause inflammation. Wear protective glasses before handling to avoid an accident. If an eye is exposed to the oil, take the following emergency measures:
 - When an eye exposed: Immediately wash away with city water sufficiently till stimulative feeling vanishes.
 - When swallowed: Do not let vomit, and receive medical treatment immediately.
 - When skin exposed: Wash with water and soap sufficiently.
- (4) Others
Use replacement parts and lubricants authorized as the Distributor genuine parts.

2. INTERNATIONAL UNIT CONVERSION SYSTEM

Introduction

Although this manual uses the JIS unit system. If you need SI unit, refer to following international system of units.

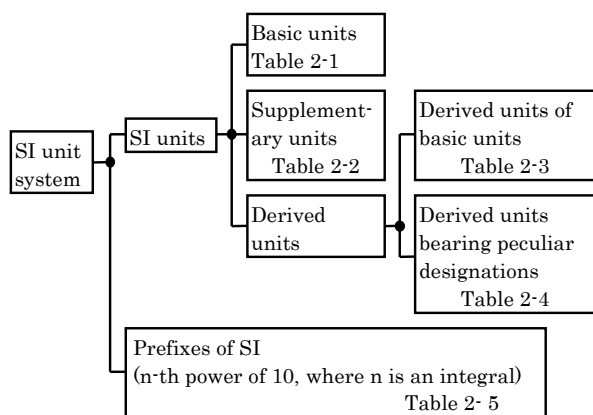
Given hereinunder are an excerpt of the units that are related to this manual :

1. Etymology of SI Units

French : Le Système International d' Unités

English: International System of Units

2. Construction of SI Unit System



(1) Basic Units

Table 2-1

QUANTITIES	DESIGNATION	SIGN
Length	Meter	m
Mass	Kilogram	kg
Time	Second	s
Current	Ampere	A
Thermodynamic temperature	Kelvin	K
Gram molecule	Mol	mol
Luminous intensity	Candela	cd

(2) Supplementary Units

Table 2-2

QUANTITIES	DESIGNATION	SIGN
Plane angle	Radian	rad
Solid angle	Steradian	sr

(3) Derived Units of Basic Units

Table 2-3

QUANTITIES	DESIGNATION	SIGN
Area	Square meter	m ²
Volume	Cubic meter	m ³
Velocity	Meter per second	m/s
Acceleration	Meter per second / second	m/s ²
Density	Kilogram per cubic meter	kg/m ³

(4) Derived Units bearing Peculiar Designations

Table 2-4

QUANTITIES	DESIGNATION	SIGN	DERIVED UNIT
Frequency	Hertz	Hz	1Hz=1s ⁻¹
Force	Newton	N	1N=1kgf·m/s ²
Pressure, Stress	Pascal	Pa	1Pa=1N/m ²
Energy, Work, Quantity of heat	Joule	J	1J=1N·m
Power, Motive power, Electric power	Watt	W	1W=1J/s
Charge, Quantity of electricity	Coulomb	C	1C=1A·s
Potential, Voltage, Electromotive force	Volt	V	1V=1J/C (1W/A)
Quantity of static electricity, Capacitance	Farad	F	1F=1C/V
Electric resistance	Ohm	Ω	1Ω=1V/A
Celsius temperature	Celsius degree or degree	°C	
Illuminance	lux	ℓX	1. ℓX=1 ℓm/m ²

(5) Prefixes of SI

Table 2-5

PREFIX		POWER
DESIGNATION	SIGN	
Giga-	G	10 ⁹
Mega-	M	10 ⁶
Kilo-	k	10 ³
Hecto-	h	10 ²
Deca-	da	10
Deci-	d	10 ⁻¹
Centi-	c	10 ⁻²
Milli-	m	10 ⁻³
Micro-	μ	10 ⁻⁶
Nano-	n	10 ⁻⁹
Pico-	p	10 ⁻¹²

(6) Unit Conversion Table

Table 2-6

QUANTITIES	JIS	SI	REMARKS
Mass	kg	kg	
Force	kgf	10N	9.807N
Torque	kgf·m	10N·m	9.807N·m
Pressure	kgf/cm ²	0.1MPa	0.098MPa
Motive power	PS	0.7355kW	
Revolution	rpm	min ⁻¹	r/min ※1

※1 Units that are allowed to use

E115SR

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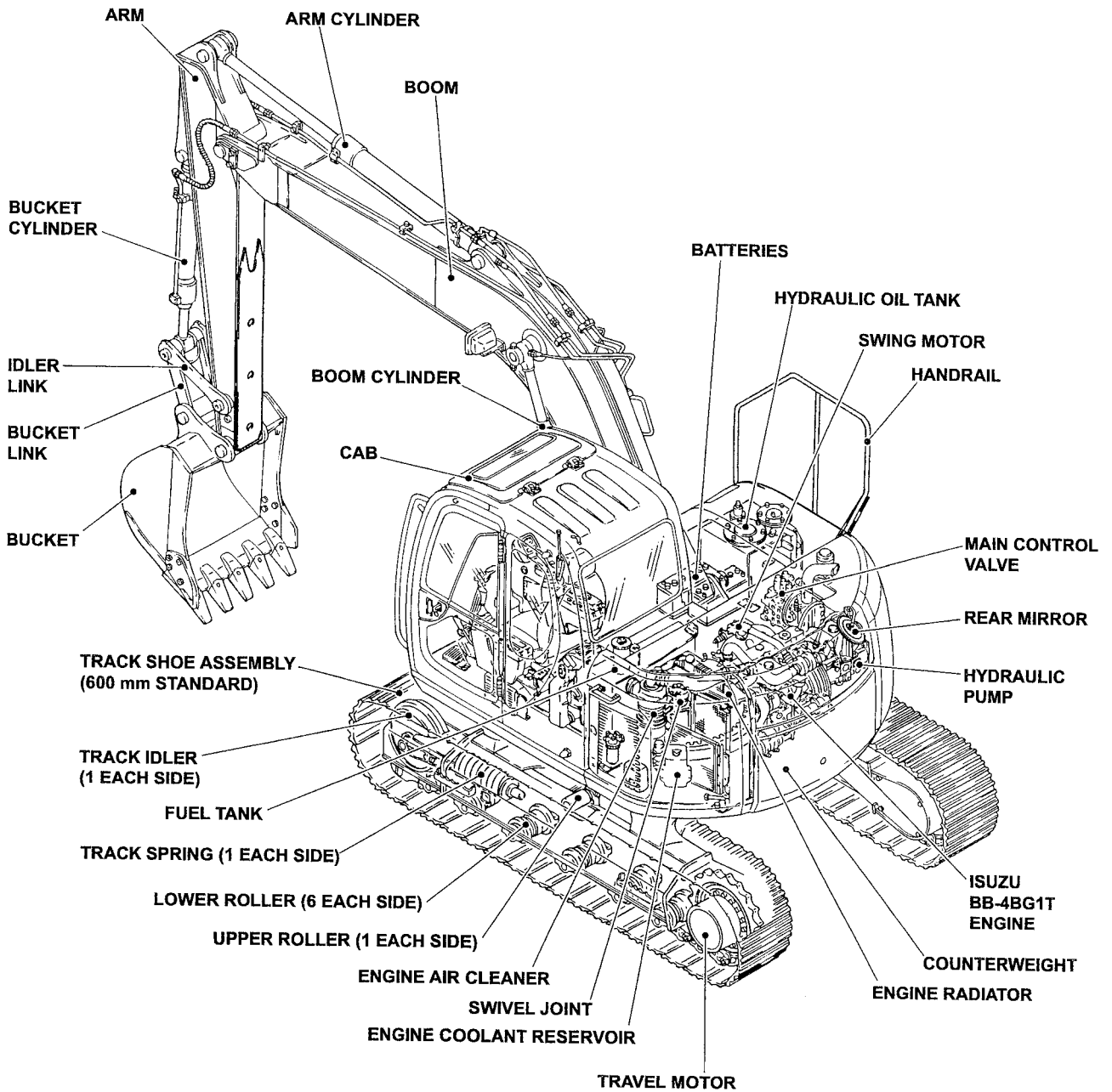
SECTION 2

SPECIFICATIONS

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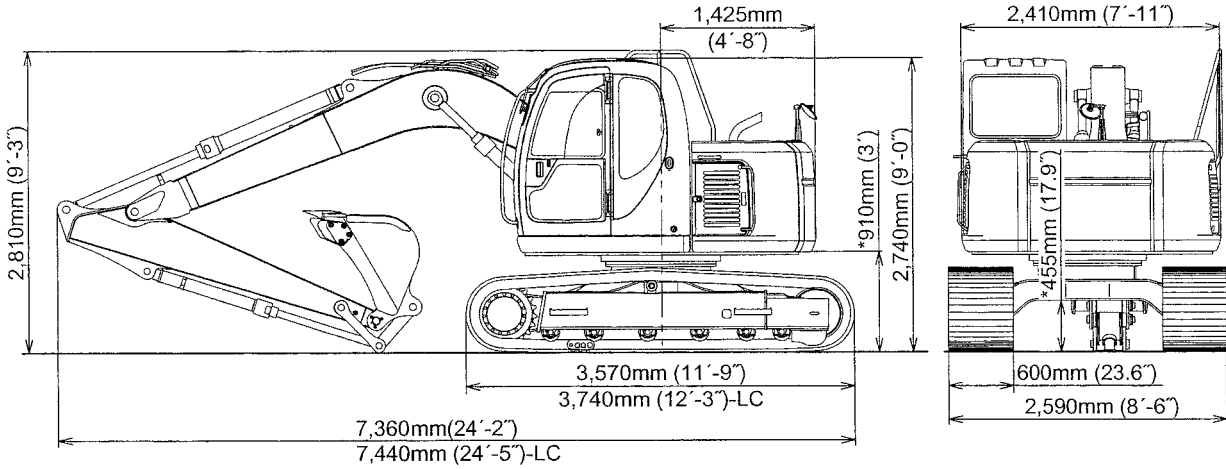
1. NAME OF COMPONENTS



2. GENERAL DIMENSION

2.1 **E135SR (LC)**

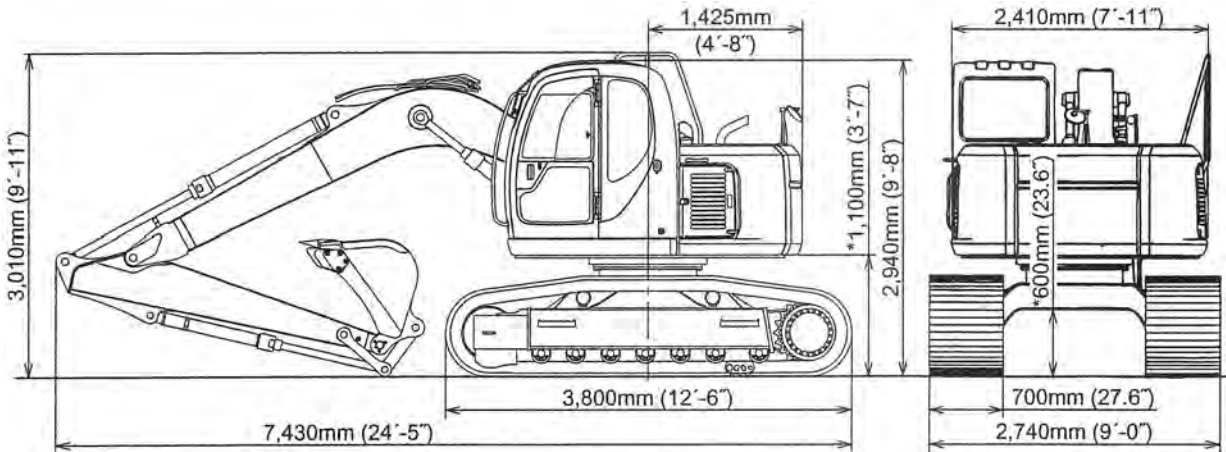
4.6m (15' 1") Boom+2.45m (8') Arm+0.5m³ (0.65cu-yd) Bucket+600mm (23.6") Shoe



*Marked dimensions do not include height of shoe lug.

2.2 **E135SR(L)**

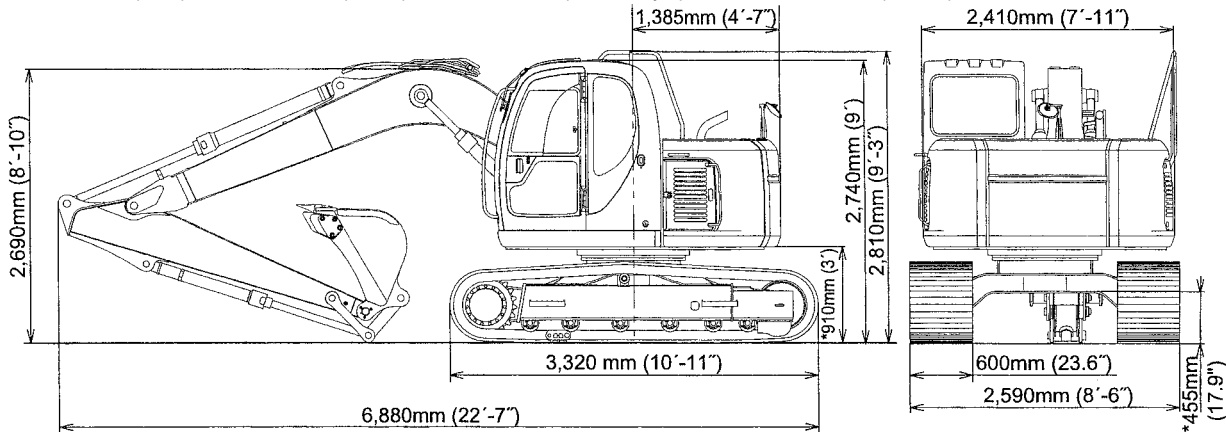
4.6m (15' 1") Boom+2.45m (8') Arm+0.5m³ (0.65cu-yd) Bucket+700mm (28") Shoe



*Marked dimensions do not include height of shoe lug.

2.3 **E115SR**

4.26m (14') Boom+2.2m (7' 3") Arm+0.45m³ (0.59cu-yd) Bucket+600mm (23.6") Shoe



*Marked dimensions do not include height of shoe lug.

3. WEIGHT OF COMPONENTS

Unit : kg (lbs)

Item	Model	<i>E135SR</i>	<i>E135SRLC</i> [<i>E135SRL</i>]	<i>E115SR</i>
Machine complete		13,700(30,200)	13,900(30,640) [15,700(34,610)]	11,900(26,230)
1. Upper frame assy (including the following :)		7,330(16,160)	←	6,080(13,400)
1.1 Counterweight		3,490(7,690)	←	2,340(5,160)
Counterweight (Add-on)		600(1,320)	←	←
1.2 Cab		210(460)	←	←
1.3 Engine ※		368(810)	←	363(800)
1.4 Hydraulic oil tank ※		91(200)	←	←
1.5 Fuel tank ※		53(116)	←	←
1.6 Slewing motor (including reduction unit)		110(240)	←	←
1.7 Control valve		122(270)	←	114(251)
1.8 Boom cylinder ※		107(235) × 2	←	84(235) × 2
1.9 Pin (2pcs. for mounting boom)		37(82)	←	←
1.10 Pump ※		95(210)	←	←
1.11 Radiator ※		77(170)	←	65(143)
2. Lower frame assy (including the following :)		4,450(9,810)	4,650(10,250) [6,750(14,880)]	4,140(9,130)
2.1 Slewing bearing		149(330)	←	←
2.2 Travel motor (including reduction unit)		144(320) × 2	←	←
2.3 Upper roller		8(18) × 2	8(18) × 4	8(18) × 2
2.4 Lower roller		27(60) × 12	27(60) × 14	27(60) × 12
2.5 Front idler		70(150) × 2	←	←
2.6 Track tension adjuster		57(125) × 2	←	←
2.7 Sprocket		36(79) × 2	←	←
2.8 Swivel joint		30(66)	←	←
2.9 Track link with 700mm (28in) shoes assy		—	[1,340 (2,950)] × 2	—
Track link with 600mm (24in) shoes assy		870(1,920) × 2	915(2,020) × 2	760(1,670) × 2
Track link with 500mm (20in) shoes assy		730(1,610) × 2	—	680(1,500) × 2
2.9.1 Track link assy		290(640) × 2	300(660) × 2 [465(1,040)] × 2	270(590) × 2
2.10 Dozer blade (OPT)		470(1,040)	←	←
2.11 Dozer blade cylinder (OPT) ※		57(125) × 2	←	←
3. Attachment		1,920(4,230)	←	1,680(3,700)
3.1 Bucket assy		380(840)	←	340(750)
3.2 Arm assy (including the following :)		580(1,280)	←	490(1,080)
3.2.1 Arm		374(820)	←	300(660)
3.2.2 Bucket cylinder ※		90(198)	←	87(190)
3.2.3 Idler link		12(26) × 2	←	←
3.2.4 Bucket link		43(95)	←	35(77)
3.2.5 Attachment pin		36(79)	←	24(52)
3.3 Boom assy (Including the following :)		940(2,070)	←	850(1,870)
3.3.1 Boom		740(1,630)	←	680(1,500)
3.3.2 Arm cylinder ※		149(330)	←	128(280)
3.3.3 Pin (Mounting arm · Mounting arm cylinder)		29(64)	←	27(59)
4. Lubricant and water (including the following :)		310(680)	←	←
4.1 Hydraulic oil		138(304)	←	←
4.2 Engine oil		11(24)	←	←
4.3 Fuel + water		139(310) + 18(40)	←	←

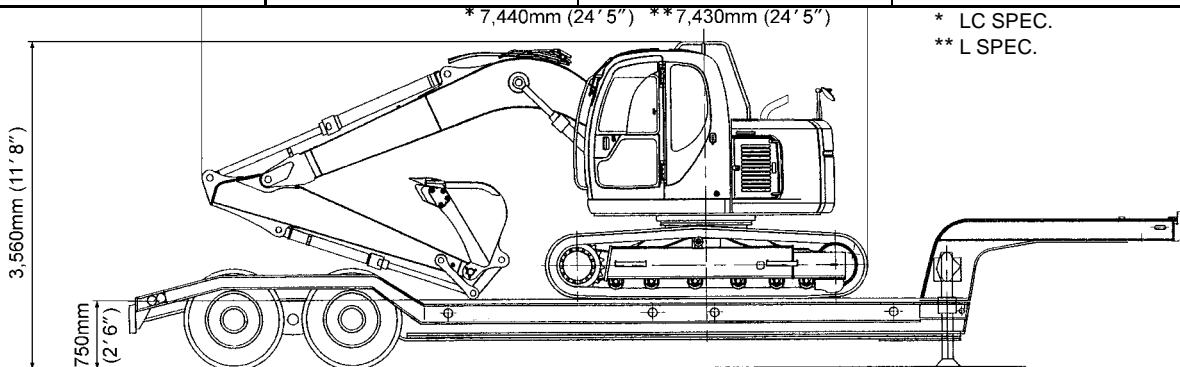
NOTE : Numerical values marked ※ indicate the dry weight.

4. TRANSPORTATION DIMENSION AND WEIGHT

E135SR(LC) **E135SRL**

● OVERALL DIMENSIONS OF A STD COMPLETE MACHINE ON A TRAILER

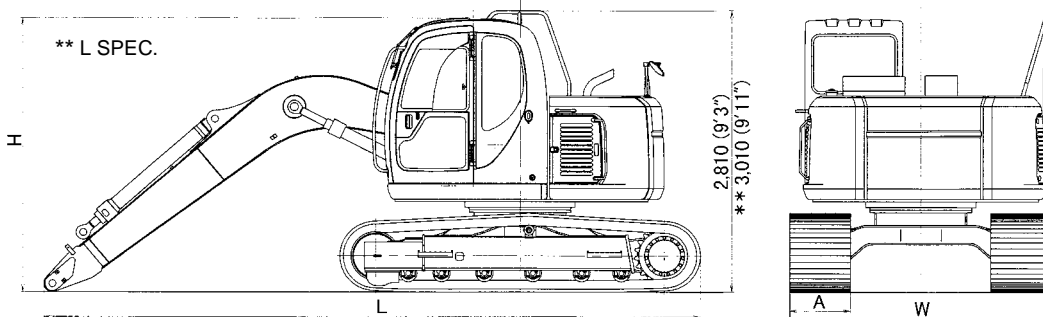
Item	Model	E135SR	E135SRLC	E135SRL
Shoe & Width	mm(ft-in)	600mm (24") 2,590 (8' 6")		800mm (32") 2,790 (9' 2")
Weight	kg(lbs)	13,700 (30,200)	13,900 (30,600)	16,000 (35,300)



* LC SPEC.
** L SPEC.

● OVERALL DIMENSIONS OF WITHOUT ARM AND BUCKET

Combination	Type	A : Shoe width mm (ft-in)	L : Length mm (ft-in)	H : Height mm (ft-in)	W : Width mm (ft-in)	Weight kg (lbs)
Without Arm and Bucket	STD	600 (24")	6,510 (21' 4")	2,740 (8' 12")	2,590 (8' 6")	12,720 (28,000)
	LC	600 (24")	6,590 (21' 7")	2,940 (9' 8")	2,840 (9' 4")	12,920 (28,500)
	L	800 (32")	6,620 (21' 9")	↑	↑	14,920 (32,900)

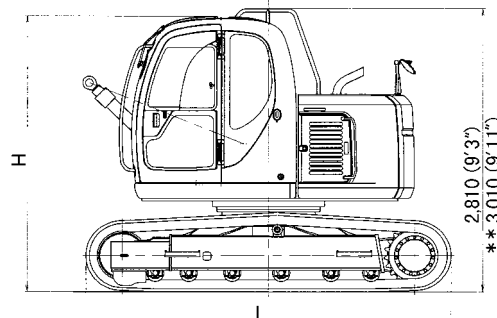


** L SPEC.

● OVERALL DIMENSIONS OF WITHOUT BOOM, ARM AND BUCKET

Combination	Type	A : Shoe width mm (ft-in)	L : Length mm (ft-in)	H : Height mm (ft-in)	W : Width mm (ft-in)	Weight kg (lbs)
Without Arm and Bucket	STD	600 (24")	3,570 (11' 9")	2,740 (8' 12")	2,590 (8' 6")	11,780 (26,000)
	LC	600 (24")	3,740 (12' 3")	2,940 (9' 8")	2,840 (9' 4")	11,980 (26,400)
	L	800 (32")	3,800 (12' 6")	↑	↑	13,980 (30,800)

** L SPEC.



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