Komatsu Hydraulic Excavator 75r 2 22e5200001 And Up Shop Manual

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	20-02			30-11	9									
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IMPORTANT SAFETY NOTICE

Proper service and repair is extremely important for the safe operation of your machine. The service and repair techniques recommended by FKI and describe in this manual are both effective and safe methods of operation. Some of these operations require the use of tools specially designed by FKI for the purpose.

To prevent injury to workers, the symbols **A** and **a** are used to mark safety precautions in this manual. The cautions accompanying these symbols should always be carefully followed. If any danger arises or may possibly arise, first consider safety, and take necessary steps to face.



GENERAL PRECAUTIONS

Mistakes in operation extremely dangerous. Read all the Operation and Maintenance Manual carefully BEFORE operating the machine.

- 1. Before carrying out any greasing or repairs, read all the precautions written on the decals which are suck on the machine.
- 2. When carrying out any operation, always wear safety shoes and helmet. Do not wear loose work clothes, or clothes with buttons missing.
 - Always wear safety glasses when hitting parts with a hammer.
 - Always wear safety glasses when grinding parts with a grinder, etc.
- If welding repairs are needed, always have a trained, experienced welder carry out the work. When carrying out welding work, always wear welding gloves, apron, glasses, cap and other clothes suited for welding work.
- 4. When carrying out any operation with two or more workers, always agree on the operating procedure before starting. Always inform your fellow workers before starting any step of the operation. Before starting work, hang UNDER REPAIR signs on the controls in the operator's compartment.
- 5. Keep all tools in good condition and learn the correct way to use them.
- 6. Decide a place in the repair workshop to keep tools and removed parts. Always keep the tools and parts in their correct places. Always keep the work area clean and make sure that there is no dirt or oil on the floor.

Smoke only in the areas provided for smoking. Never smoke while working.

PREPARATIONS FOR WORK

- 7. Before adding or making any repairs, park the machine on hard, level ground, and block the tracks to prevent the machine from moving.
- Before starting work, lower blade, bucket or any other work equipment to the ground. If this is not possible, use blocks to prevent the work equipment from falling down. In addition, be sure to lock all the control levers and hang warning sign on them.
- 9. When disassembling or assembling, support the machine with blocks, jacks or stands before starting work.
- 10. Remove all mud and oil from the steps or other places used to get on and off the machine. Always use the handrails, ladders or steps when getting on or off the machine.

Never jump on or off the machine.

If it is impossible to use the handrails, ladders or steps, use a stand to provide safe footing.

PRECAUTIONS DURING WORK

- When removing the oil filler cap, drain plug or hydraulic pressure measuring plugs, loosen them slowly to prevent the oil from spurting out.
 Before disconnecting or removing components of the hydraulic circuit and engine cooling circuit, first remove the pressure completely from the circuit.
- 12. The water and oil in the circuits are not hot when the engine in stopped, so be careful not to get burned.

Wait for the oil water to cool before carrying out any work on the cooling water circuits.

- Before starting work, remove the leads from the battery. Always remove the lead from the negative () terminal first.
- 14. When raising heavy components, use a hoist or crane. Check that the wire rope, chains and hooks are free from damage.

Always use lifting equipment which has ample capacity. Install the lifting equipment at the correct places.

Use a hoist or crane and operate slowly to prevent the component from hitting any other part. Do not work with any part still raised by the hoist or crane.

- 15. When removing covers which are under internal pressure or under pressure from a spring, always leave two bolts in position on opposite sides. Slowly release the pressure, then slowly loosen the bolts to remove.
- When removing components, be careful not to break or damage the wiring. Damage wiring may cause electrical fires.
- 17. When removing piping, stop the fuel or oil from spilling out. If any fuel or oil drips on to the floor, wipe it up immediately.Fuel or oil on the floor can cause you to slip, or can even start fires.
- 18. As a general rule, do not use gasoline to wash parts. In particular, use only the minimum of gasoline when washing electrical parts.
- Be sure to assemble all parts again in their original places. Replace any damage parts with new parts.
 When installing hoses and wires, be sure that they will not be damaged by contact with other

they will not be damaged by contact with other parts when the machine is being operated.

- 20. When installing high pressure hoses, make sure that they are not twisted. Damaged tubes are dangerous, so be extremely careful when installing tubes for high pressure circuits. Also, check that connecting parts are correctly tightened.
- When assembling or installing parts, always use specified tightening torques.
 When installing the parts which vibrate violently or rotate at high speed, be particulary careful to check that they are correctly installed.
- 22. When aligning two holes, never insert your fingers or hand.
- 23. When measuring hydraulic pressure, check that the measuring tool is correctly assembled before taking any measurement.

24. Take sure when removing or installing tracks. When removing the track, the track separates suddenly, so never let anyone stand at either end of the track.

FOREWORD

This shop manual has been prepared as an aid to improve the quality of repairs by giving the operator an accurate understanding of the product and by showing him the correct way to perform repairs and make judgements. Make sure you understand the contents of this manual and use it to full effect at every opportunity.

This shop manual mainly contains the necessary technical information for operations performed in a service workshop.

The manual is divided into chapters on each main group of components; these chapters are further divided into the following sections.

STRUCTURE AND FUNCTION

This section explains the structure and function of each component. It serves not only to give an understanding of the structure, but also serves as reference material for troubleshooting.

TESTING AND ADJUSTING

This sections explains checks to be made before and after performing repairs, as well as adjustments to be made at completion of the checks and repairs.

Troubleshooting charts correlating «Problems» to «Causes» are also included in this section.

DISASSEMBLY AND ASSEMBLY

This section explains the order to be followed when removing, installing, disassembling or assembling each component, as well as precautions to be taken for these operations.

MAINTENANCE STANDARD

This section gives the judgement standards when inspecting disassembled parts.

NOTICE

The specifications contained in this shop manual are subject to change at any time and without any notice.

Contact your FKI distributor for the latest information.

HOW TO READ THE SHOP MANUAL

VOLUMES

Shop manual are issued as a guide to carry out repairs. These various volumes are designed to avoid duplicating the same information.

DISTRIBUTION AND UPDATING

Any additions, amendments or other changes will be sent to FKI distributors.

Get the most up-to-date information before you start any work.

FILING METHOD

- 1. See the page number on the bottom of the page. File the pages in correct order.
- 2. Following examples show you how to read the page number.

Example



3. Additional pages: additional pages are indicated by a hyphen (-) and number after the page number.

Fle as in the example. Example: 10-4 10-4-1 10-4-2] Added pages 10-5

REVISED EDITION MARK

(1 2 3)

When a manual is revised, an edition mark is recorded on the bottom outside corner of the pages.

REVISIONS

Revised pages are shown on the LIST OF REVI-SED PAGES between the title page and SAFETY page.

SYMBOLS

In order to make the shop manual greatly chelpful, important points about safety and quality are marked with the following symbols.

Symbol	Item	Remarks
		Special safety precautions are ne- cessary when performing the work.
***	Safety	Extra special safety precautions are necessary when performing the work because it is under inter- nal pressure.
*	Caution	Special technical precautions or other precautions for preserving standards are necessary when performing the work.
kg	Weight	Weight of parts or systems. Caution necessary when selecting hoisting wire, or when working po- sture is important, etc.
S_Nm_	Tightening torque	Parts that require special attention for the tightening torque during assembly.
	Coat	Parts to be coated with adhesives and lubricants etc.
A L	Oil, water	Places where oil, water or fuel must be added, and their quantity.
	Drain	Places where oil or water must be drained, and quantity to be drained.

HOISTING INSTRUCTIONS



Heavy parts (25 kg or more) must be lifted with a hoist etc. In the **Disassembly and Assembly** section, every part weighing 25 kg or more is clearly indicated with the symbol

- 1. If a part cannot be smoothly removed from the machine by hoisting, the following checks should be made:
 - Check for removal of all bolts fastening the part to the relative parts.
 - Check for any part causing interference with the part to be removed.

2. Wire ropes

 Use adequate ropes depending on the weight of parts to be hoisted, referring to the table below:

WIRE ROPES

(Standard «S» or «Z» twist ropes without galvanizing)									
Rope diameter (mm)	Allowable load (tons)								
10	1.0								
11.2	1.4								
12.5	1.6								
14	2.2								
16	2.8								
18	3.6								
20	4.4								
22.4	5.6								
30	10.0								
40	18.0								
50	28.0								
60	40.0								

The allowable load value is estimated to be one-sixth or one-seventh of the breaking strength of the rope used.

 Sling wire ropes from the middle portion of the hook. Slinging near the edge of the hook may cause the rope to slip off the hook during hoisting, and a serious accident can result. Hooks have maximum strength at the middle portion.



 Do not sling a heavy load with one rope alone, but sling with two or more ropes symmetrically wound on to the load.

Slinging with one rope may cause turning of the load during hoisting, untwisting of the rope, or slipping of the rope from its original winding position on the load, which can cause dangerous accidents.

4) Do not sling a heavy load with ropes forming a wide hanging angle from the hook.

When hoisting a load with two or more ropes, the force subjected to each rope will increase with the hanging angles.

The table below shows the variation of allowable load (kg) when hoisting is made with two ropes, each of which is allowed to sling up to 1000 kg vertically, at various handing angles. When two ropes sling a load vertically, up to 2000 kg of total weight can be suspended.

This weight becomes 1000 kg when two ropes make a 120° hanging angle.

On the other hand, two ropes are subjected to an excessive force as large as 4000 kg if they sling a 2000 kg load at a lifting angle of 150°.





STANDARD TIGHTENING TORQUE

The following charts give the standard tightening torques of bolts and nuts. Exceptions are given in sections of **«Di-sassembly and Assembly»**.

Thread diameter	Pitch of	Width ac (m	cross flat m)	8	.8	(10.9)		
(mm)	(mm)	S S	S	kgm	Nm	kgm	Nm	
6	1	10	5	0.96±0.1	9.5±1	1.3±0.15	13.5±1.5	
8	1.25	13	6	2.3±0.2	23±2	3.2±0.3	32.2±3.5	
10	1.5	17	8	4.6±0.5	45±4.9	6.5±0.6	63±6.5	
12	1.75	19	10	7.8±0.8	77±8	11±1	108±11	
14	2	22	12	12 12.5±1 122±13		17.5±2	172±18	
16	2	24	14	19.5±2	191±21	27±3	268±29	
18	2.5	27	14	27±3	262±28	37±4	366±36	
20	2.5	30	17	38±4	372±40	53±6	524±57	
22	2.5	32	17	52±6	511±57	73±8	719±80	
24	3	36	19	66±7	644±70	92±10	905±98	
27	3	41	19	96±10	945±100	135±15	1329±140	
30	3.5	46	22	131±14	1287±140	184±20	1810±190	
33	3.5	50	24	177±20	1740±200	250±27	2455±270	
36	4	55	27	230±25	2250±250	320±35	3150±350	
39	4	60	—	295±33	2900±330	410±45	4050±450	

1. STANDARD TIGHTENING TORQUE OF BOLTS AND NUT

This torque table does not apply to bolts or nuts which have to fasten nylon or other parts non-ferrous metal washer.

 \star Nm (Newton meter): 1 Nm = 0.102 kgm





2. TIGHTENING TORQUE FOR NUTS OF FLARED

Use these torques for nut part of flared.

Thread diameter	Width across flats	/idth across flats TIGHTENING TORQUE					
of nut part (mm)	of nut part (mm)	kgm	Nm				
1/2" - 20	17	2.6±0.5	25.5±4.9				
9/16" - 18	17	4±0.5	39.2±4.9				
3/4" - 16	22	6.7±2	65.7±19.6				
7/8" - 14	27	8±2	78.5±19.6				
1. ¹ / ₁₆ " - 12	32	9.7±3	95.15±29.4				
1. ⁵ / ₁₆ " - 12	38	17±3	166.7±29.4				
1. ⁵ /₃ ["] - 12	50	20±5	196.2±49				
22	27	8±2	78.5±19.6				
33	41	20±5	196.2±49				





Thread diameter	Width across flats	TIGHTENIN	G TORQUE
of nut part (mm)	of nut part (mm)	kgm	Nm
9/16" - 18	17	2.3-2.5	23–25
11/16" - 16	22	3.4-3.9	33 – 38
13/16" - 16	24	5.2-5.8	51 – 57
1" - 14	30	8.2-9.2	80-90
1. ³ / ₁₆ " - 12	36	12.2 – 13.3	120 – 130
1. ⁷ / ₁₆ - 12	41	15.3 – 17.3	150 – 170
1. ¹¹ / ₁₆ " - 12	50	18.4-20.4	180–200
2" - 12	57	20.4-24.4	200 - 240



COATING MATERIALS

The recommended coating materials prescribed in FKI Shop Manuals are listed below:

Nomenclature	Code	Applications
	ASL800010	Used to apply rubber pads, rubber gaskets and cork plugs.
	ASL800020	Used to apply resin, rubber, metallic and non-metallic parts when a fast, strong seal is needed.
	Loctite 222	Used for low resistance locking of screws, check nuts and adjustment nuts.
	Loctite 242	To prevent the loosening of bolts, nuts and plugs and the leakage of oil. Used for medium resistance locking of screws and nuts of every type, and for locking keys and bearings.
Adhasiyas	Loctite 262	Used for high resistant of threaded parts that can be removed with normal tools.
Autesives	Loctite 270	Used for high resistant locking and for sealing threaded parts, bolts and stud bolts.
	Loctite 542	Used for sealing the union threads for hydraulic tubes.
	Loctite 573	Used for sealing rather exact plane surfaces when the option of possible future dismantling is required.
	Loctite 601	Used for high resistant locking of mechanical components that can be removed only after heating
	Loctite 675	Used to lock cylindrical couplings and for the permanent locking of threaded parts, and also to lock shafts to bearings, gears, pulleys, pins, bushings, etc.
	ASL800060	Used by itself to seal grease fittings, tapered screw fittings and tapered screw fittings in hydraulic circuits of less than 50 mm in diameter.
Gasket sealant	Loctite 510	Used by itself on mounting flat surface (Clearance between surfaces within 0.2 mm)
	Loctite 518	Used by itself on mounting flat surface (Clearance between surfaces within 0.5 mm)
Antifriction compound (Lubricant including Molybdenum disulfide)	ASL800040	Applied to bearings and taper shaft to facilitate press-fitting and to prevent stic- king, burning or rusting.
Grease (Lithium grease)	ASL800050	Applied to bearings, sliding parts and oil seals for lubrication, rust prevention and facilitation of assembling work.
Vaseline	-	Used for protecting battery electrode terminals from corrosion.

ELECTRIC WIRE CODE

ELECTRIC

In the wiring diagrams various colours and symbols are employed to indicate the thickness of wires. This wire code table will help you understand WIRING DIAGRAMS. Example: R -N 1.5 indicates a cable having a nominal number 1.5 and red coating with black stripe.

CLASSIFICATION BY THICKNESS

Nominal number		Copper wire		Current rating (A)	
	Number strands	ø of strands (mm)	(mm)		
1	14	0.30	0.99	2.80	11
1.5	21	0.30	1.48	3.35	14
2.5	35	0.30	2.47	3.80	20
4	56	0.30	3.95	4.60	28
6	84	0.30	5.93	5.20	37
10	84	0.40	10.55	7.10	53
50	399	0.40	50.11	14	160

CLASSIFICATION BY COLOUR AND CODE

	Primary		Auxiliary								
Code	А	A-G	-	A-N	_	A-R	_	A-V	A/V	_	-
Colour	Light blue	Light blue	e - Yellow	Light blu	e - Black	Light blue - Red		Light blue - Green		-	-
Code	В	B-G	1	B-N	_	B-R	B/R	_	_	_	1
Colour	White	White -	Yellow	White	- Black	White	- Red	-	-	-	-
Code	С	C-V	_	_	_	-	_	_	_	_	_
Colour	Orange	Orange	- Green	-	-	-	-	-	-	-	-
Code	G	G-R	_	G-N	_	-	_	_	_	_	_
Colour	Yellow	Yellow	- Red	Yellow	- Black	-	-	-	-	-	-
Code	Н	H-R	-	H-N	_	-	-	_	_	_	-
Colour	Gray	Gray	- Pink	Gray -	Black	-	-	-	-	-	-
Code	L	L-R	L/R	L-B	_	-	-	_	_	_	-
Colour	Blue	Blue	- Red	Blue -	White	-	-	-	-	-	-
Code	М	M-N	M/N	M-V	_	-	-	_	_	_	-
Colour	Brown	Brown	- Black	Brown	- Green	-	-	-	-	-	-
Code	Ν	-	-	-	-	-	-	-	-	_	-
Colour	Black	-	-	-	-	-	-	-	-	-	-
Code	R	R-N	R/N	R-V	_	-	_	_	_	_	_
Colour	Red	Red -	Black	Red -	Green	-	-	-	-	-	-
Code	S	S-N	-	S-G	_	-	-	_	_	_	-
Colour	Pink	Pink -	Black	Pink -	Yellow	-	-	-	-	-	-
Code	V	V-B	-	V-N	-	-	-	-	-	_	-
Colour	Green	Green	- White	Green	- Black	-	-	-	-	-	-
Code	Z	Z-B	_	Z-N	-	_	_	_	-	_	_
Colour	Violet	Violet	White	Violet	- Black		-	-	_	-	-

COMPOSITION OF THE COLOURS

The coloration of two-colour wires is indicated by the composition of the symbols listed.

Example: R-N = Red-Black with longitudinal colouring.

R/N = Red-Black with transversal colouring.

WEIGHT TABLE

A This weight table is a guide for use when transporting or handling components.

Machine model	PC75R-2	
From serial no.	22E5200001-	
Engine assembly	380	
Radiator - exchanger	35.5	
Hydraulic tank (without hydraulic oil)	60	
Fuel tank (without fuel)	40	
Revolving frame	765	
Counterweight	1050	
Swing circle	89	
Swing machinery assembly	43	
Main pump + gear pump	57	
Cabin	250	
Seat	32	
Seat support	14.5	
Platform	51	
Control valve	55	
Track frame assembly: Idler assembly Sprocket Final drive Track roller Carrier roller	979 82 35 90 16 11	
Track - shoe assembly (standard)	491	
Engine hood	_	
Front hood	—	
Swivel joint	36	
Swing bracket	170	
Boom	300	
1 st boom	245	
2 nd boom	168	
Arm (L = 1700)	125	
Arm (L=2100)	167	
Blade	250	
Work equipment (1-piece boom)	_	
Work equipment (2-piece boom)	—	

	KIND OF FLUID	AMBIENT TEMPERATURE	CAPACITY (<i>l</i>)	
RESERVOIR		–20 –10 0 10 20 30°C	Specified Refill	
Crankcase sump	OIL • API CD	SAE 10W SAE 20W-20 SAE 30 SAE 40	9.4 9.4	
Hydraulic circuit	OIL • API CD	SAE 10W	138 70	
Final drive (each)	OIL • API GL5	SAE 80W/90	1.7 1.7	
Swing machinery	OIL • API GL5	SAE 30	1.5 1.5	
Fuel tank	FUEL	* ASTM D975 N. 2	100 —	
Engine coolant system	WATER + ANTI-FREEZE		18 —	
	WATER		18 —	
	PERMANENT LIQUID		18 —	

TABLE OF OIL AND COOLANT QUANTITIES

* ASTM D975 N. 1

ASTM: America Society of Testing and Materials

SAE: Society of Automotive Engineers

API: American Petroleum Institute

MIL: USA Military Specification

CCMC: Common Market Constructors Committe

Specified capacity: Total amount of oil including oil for components and oil in piping.

Refill capacity: Amount of oil needed to refill system during normal inspection and maintenance.

NOTE:

(1) When fuel sulphur content is less than 0.5%, change oil in the oil pan ebery periodic maintenance hours described in operation and maintenance manual.

Change oil according to the following table if fuel sulphur content is above 0.5%.

Fuel sulphur content	Oil change interval in engine oil pan
0.5 to 1.0%	1/2 of regular interval
Above 1.0%	1/4 of regular interval

- (2) When starting the engine is weathers temperature below 0°C, be sure to use engine oil SAE 10W, SAE 20W-20, even if weather temperature goes up to 10°C day time.
- (3) Use classification CD as engine oil, if use classification CC, reduce the engine oil change interval to half.
- (4) Use original products, which have characteristics specifically formulated and approved for the engine, the hydraulic circuit of equipment and for reductions.

10 STRUCTURE AND FUNCTION

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P.T.O.



- 1. Disc
- 2. Flywheel
- 3. Damper (No. 4)
- 4. Hub
- 5. Pump

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PC75R-2