CEAM470010

Operation & Maintenance Manual

TD-7H

CRAWLER TRACTOR

SERIAL NUMBERS TD-7H – P025501 – P026054

June 93

KOMATSU®

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PRODUCT PUBLICATIONS INFORMATION

VARIOUS PRODUCT PARTS & SERVICE PUBLICATIONS ARE AVAILABLE TO ALL **DRESSER** CONSTRUCTION EQUIPMENT OWNERS, INCLUDING OPERATION AND MAINTENANCE MANUALS, PARTS BOOKS AND SERVICE MANUALS.

SPECIAL PUBLICATIONS SUCH AS SERVICE TOOL, AIR CONDITIONING, AND TURBOCHARGER SERVICE MANUALS ARE ALSO AVAILABLE AS WELL AS SELECTED OPERATION & SERVICE MANUALS IN FOREIGN LANGUAGES.

THE PUBLICATIONS LISTED BELOW ARE AVAILABLE FOR THIS PARTICULAR MACHINE(S).

DESCRIPTION	FORM NUMBER
PARTS BOOK - PAPER:	
ENGINE AND CHASSIS	BEPB470010
PARTS BOOK - MICROFICHE:	
ENGINE AND CHASSIS	BEPM470010
OPERATION AND MAINTENANCE MANUAL:	
CHASSIS	CEAM470010
SERVICE MANUAL:	
CHASSIS	NA
ENGINE SET (INCLUDES FOLLOWING MANUALS)	CEBM610000
SERVICE	CEBM610SH0
SPECIFICATIONS	CEBM610SP0
SAFETY MANUAL	1085882R3

PARTS AND SERVICE PUBLICATIONS CAN *ONLY* BE ACQUIRED BY AUTHORIZED DRESSER DISTRIBUTORS, USING THE KDC PARTS INFORMATION PROCESSING SYSTEM (PIPS).

IF THE PIPS SYSTEM IS NOT AVAILABLE AT THE DISTRIBUTOR LOCATION, THEN THE FOLLOWING REQUISITION FOR LITERATURE FORMS CAN BE USED: DR-91A (USA DISTRIBUTORS) SHOWN ON THE REVERSE SIDE OF THIS PAGE; FORM DR-20A (CANADIAN DISTRIBUTORS); FORM DR-128A (OVERSEAS DISTRIBUTORS).

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Periodic adjustment of the pedal might be required, refer to your distributor if pedal values are not within those shown in FIG. 12.

BRAKE PEDAL LOCK

This lock (FIG. 12) secures the brake and decelerator pedal in the applied position for parking the machine. To lock the brake and decelerator pedal, fully depress the pedal, push down on the lock and remove your foot from the brake and decelerator pedal. To release the brake, depress the brake and decelerator pedal.

NOTE: Release the brake pedal lock before moving the machine. The brakes could burn or be damaged if the machine is driven with them applied.

ELECTRICAL SYSTEM MASTER SWITCH

Turn the key (A) clockwise to connect the battery ground circuit. Turn the key counterclockwise to disconnect the battery ground circuit.

NOTE: Keep the switch on while the engine in running.

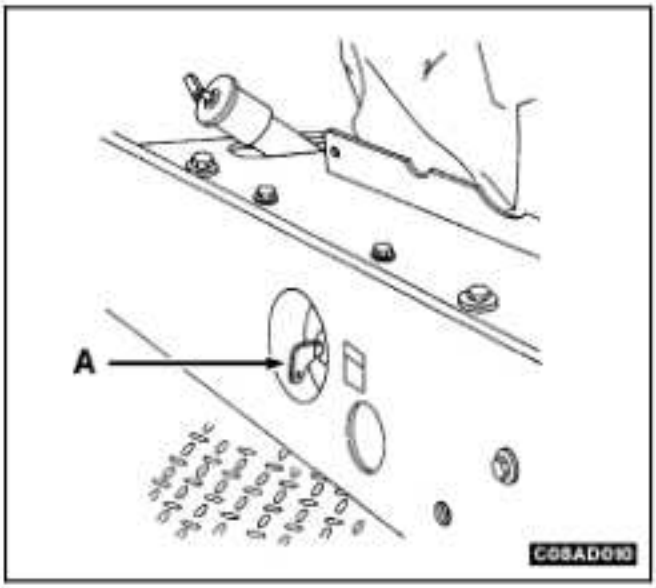


FIG. 13 - Electrical System Master Switch

A. Electrical System Master Switch Key

BLADE CONTROL LEVER

This lever controls all operation of the blade. Refer to BLADE CONTROL LEVER OPERATION in this Section.

REAR EQUIPMENT CONTROL LEVER

This lever controls the operation of the rear mounted equipment. Refer to REAR EQUIPMENT CONTROL LEVER OPERATION.

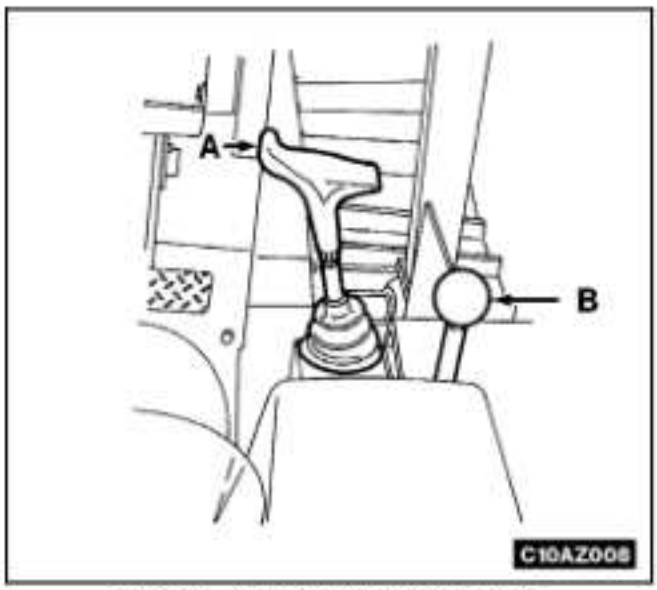


FIG. 14 - Equipment Control Levers

A. Blade Control Lever
B. Rear Equipment Control Lever

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MAINTENANCE

REFILL SPECIFICATIONS AND CAPACITIES

It is not our policy to approve lubricants or to guarantee oil performance in service. The responsibility for the quality of the lubricant must remain with the supplier of the lubricant. When in doubt, consult your distributor. The specified type and viscosity of lubricants recommended for use with this machine are shown in the chart below.

REFILL SPECIFICATIONS AND CAPACITIES CHART

LUBRICATION POINT			Refill Capacities		Type	Anticipated Air Temperature		
			English	Metric		120 to 20±F 49 to -7±C	70 to 10±F 21 to -23±C	10 to -30±F -12 to -34±C
Crankcase with Filter Change			2.5 GAL	9.5 l	EO1	SAE 15W-40		SAE 5W-20 OR SAE 5W-30
Front Idler	Life Time Lubrication	If Rebuilt	Each 12 oz	Each 350 ml	EO1	SAE 30		
Track Roller			Each 12 oz	Each 350 ml				
Top Idler			Each 4 oz	Each 188 ml				
Rear Main Frame Steering Drive Transmission Torque Converter and Cooler			21 GAL	79.5 l	EO2	DRESSER Hydraulic Trans-Fluid OR SAE 10W		
Hydraulic Reservoir			9.5 GAL	36 l	EO2	DRESSER Hydraulic Trans-Fluid OR SAE 10W		
Hydraulic Equipment System			13.5 GAL	51.1 l				
Sprocket Drive Housing - Each			2.5 GAL	9.5 l	MPL	SAE 85W-140	SAE 85W-140 OR SAE 80W-90	SAE 80W-90
Cooling System			7 GAL	26.5 l		ANTI-FREEZE PROTECTION		
						32 to -34±F 0 to -29±C	-34 to -65±F -29 to -65±C	
						50% Anti-freeze 50% Water	64% Anti-freeze 36% Water	
Fuel Tank			37 GAL	140 l		Temperature Above 10±F (-12±C) use #2 Diesel Fuel		
						Temperature Below 10±F (-12±C) or extended idle use #1 Diesel Fuel		

EO1 - Multigrade diesel engine oil, KDC engine oil, or engine oil API CD/CC or MIL-L-2104D with sulphated ash of 1.85% maximum and meeting NTC 400.

EO2 - Transmission-Hydraulic fluid, KDC Hydraulic Trans-Fluid, KDC Straight Grade Engine Oil or engine oil APE CD/CC or MIL-L-2104C or D and passing TO-2 and C-3 test with 0.10% minimum zinc.

MPL - Multi-purpose gear lube, KDC Gear Lubricant, or Multi-purpose gear lube API GL-5 0r MIL-L-2105C.

MPG - Multi-purpose grease, KDC Super Grease or NLGI grade #2 multi-purpose lithium grease with 3% minimum molybdenum disulfide.

ANTIFREEZE - Single Phase, ethylene glycol base, low silicate formulation.

DIESEL FUEL - Per ASTM D-975

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MAINTENANCE

ENGINE

The lubricating oil filter (FIG. 18) is a spin-on type. This filter cannot be cleaned and should not be disturbed except when it is necessary to replace it. Refer to BASIC MACHINE SERVICE GUIDE.

NOTE: Use only recommended filters available from your distributor.

1. After reaching operating temperature, stop the engine and drain the crankcase oil. Refer to CHANGING CRANKCASE OIL.

2. Clean the outside of the filter.

3. Remove the spin-on type filter by turning it counterclockwise. Discard the old filter in a suitable, covered refuse container.

NOTE: Do not over tighten the filter or use any tools for installation because this can damage the gasket and filter.

4. Install a new filter by applying a little clean engine oil to the seal, thread the filter on by hand by turning it clockwise until hand tight.

5. Reinstall and tighten the crankcase drain plug. Fill the crankcase with fresh oil. Refer to the REFILL SPECIFICATION AND CAPACITIES CHART for quantity and grade oil specified.

6. Operate the engine at low idle until normal oil pressure registers on gauge. During warm-up, check the filter for leaks.

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