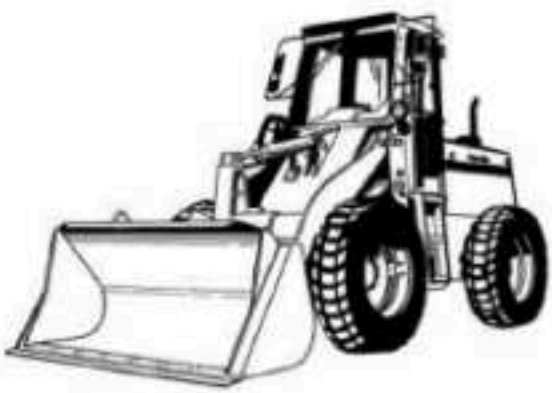
OPERATOR`S MANUAL

515C - 520C

**SERIAL NUMBER 7001
AND UP
9001 AND UP FOR 515CH**

**SERIAL NUMBER 11001
AND UP
13001 AND UP FOR 520CH**





DRESSTA Co. Ltd.
A JOINT VENTURE OF KOMATSU AMERICA INTERNATIONAL CO. AND HUTA STALOWA WOLA S.A.

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37. BUCKET AND BOOM PILOT CONTROL LEVER
The lever controls raising and lowering as well as rollback and dumping operations of the bucket. Refer to Par. 4.17.1 and 4.17.3 for additional information.

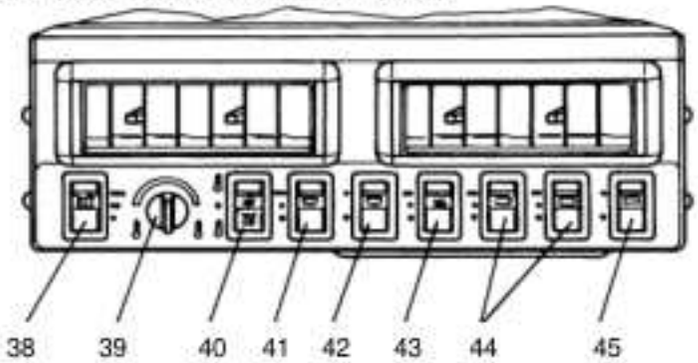


Fig. 4.9. Side Control Panel

38. Fan Control Switch
39. Heater/Air Conditioner Temperature Control Knob
40. Main Switch
41. Windshield Wiper Switch
42. Windshield Washer Switch
43. Defroster Fan Switch
44. Rear Window Wiper Switch (if equipped)
45. Rear Window Washer Switch (if equipped)

38. FAN CONTROL SWITCH
This switch controls the speed of the heater fan circulating air inside the cab. It has three positions:

- OFF,
- LO.
- HI.

Move the switch to the desired position.
If the air outside is very dusty, switch the fan into "HI" position. This will create high pressure inside the cab, which will prevent dusty air from coming into the cab.

39. HEATER /AIR CONDITIONING TEMPERATURE CONTROL
If lower temperature is required, turn the knob to the left. If higher temperature is required turn the knob to the right.

40. MAIN SWITCH
It switches either the air conditioning or heating. It has three settings:

- neutral,
- heater,
- air conditioning

WARNING! Switch off the defroster fan before adjusting the direction of flow to avoid injury.

41. WINDSHIELD WIPER CONTROL SWITCH
This switch controls the speed of the windshield wiper motor. It has three positions:

- OFF,
- LO,
- HI.

Move the switch to the desired position for low or high speed wiper operation.

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SCHEDULED MAINTENANCE GUIDE

Every 500 Hours of Operation

1. Perform the service as specified in "Every 250 hours of operation"
2. Check antifreeze concentration if in winter. Refer to 5.8.2.
3. Replace the fuel filters. Refer to 5.13.2.
4. Lubricate the tracking system linkage pivots. Refer to 5.3.1 (only standard version).

Every 1000 Hours of Operation

1. Perform the service as specified in "Every 500 hours of operation"
2. Clear the hydraulic reservoir breather. Refer to 5.14.4.
3. *) Replace the transmission oil pressure filter. Refer to 5.18.3.
4. Change the oil in the transmission system, clean the suction strainer and transmission breather. Refer to 5.18.2., 5.18.4, 8.15.5.
5. Change the oil in drive axles (differential and planetaries). Clean the axles breathers. Check the service brake discs for wear. Refer to 5.9.2, 5.9.3.
6. *) Change the oil in the hydraulic system. Refer to 5.14.2.
7. *) Change the hydraulic tank return filter element. Refer to 5.14.3.
8. **) Check and adjust engine valve lash. Refer to 5.11.6.
9. Check the condition of the fan hub. Refer to 5.11.4.
10. Check the condition of the idler pulley assembly. Refer to 5.11.5.
11. Check and adjust the drive belts tension. Refer to 5.11.3.
12. Change the steering gear oil (only standard version). Refer to 5.16.

*) Replacement every 1200 hours of operation is permissible,
**) After the initial 1000 hours. Then service every 2000 hours of operation.

Periodic (at least once a year or as required)

1. Check the condition of the hydraulic and pneumatic lines and electrical wires. Repair or replace if necessary.
2. Check the condition of the safety belt and replace if necessary. Weak spots and damage of the seat belt are inadmissible. Refer to 5.15.
3. Check the bucket teeth and cutting edge for wear (and forklift tines).
4. Check the condition and torque of the ROPS cab-to-frame mounting hardware. Refer to 5.19.
5. Deaerate the service brake system. Refer to 5.7.4.
6. Remove and clean the fuel tank strainer (if equipped). Clean the fuel tank breather. Refer to 5.13.1
7. Change fuel strainer. Refer to 5.13.2
8. Clean and replace the air cleaner elements. Refer to 5.6.2 and 5.6.3.
9. Replace the ether container (if empty). Refer to 5.12. (optional attachment).
10. Lubricate:

- the control levers,
- the pedals,
- the superstructure and cab hinges, etc.
  Refer to 5.4.7.

11. Clean the air conditioner or heater filters (if equipped). Refer to 5.22.

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SPECIFICATIONS

6.8.1. GENERAL SPECIFICATIONS OF 515C AND 520C LOADERS

The following specifications are for the standard configuration of 515C, 520C wheel loaders equipped with ROPS-FOPS cab, standard bucket and standard tires.

Specification	515C	520C
Rated bucket capacity with spillboard[1]	1.53 [m^3]	1.91 [m^3]
Bucket width	2390 [mm]	2590 [mm]
Dump clearance[2]	2740 [mm]	2820 [mm]
Reach[2]	1040 [mm]	1020 [mm]
Breakout force	96.30 [kN]	120.2 [kN]
Static tipping load[3]		
• straight	65.70 [kN]	82.8 [kN]
• full turn	58.60 [kN]	73.1 [kN]
Operating weight	9060 [kg]	10100 [kg]
Load capacity [kN] ± 10%	29.30 [kN]	36,5 [kN]
Overall length with bucket @ carry	6070 [mm]	6550 [mm]
Overall length with bucket on the ground	6120 [mm]	6580 [mm]
Maximum Overall Height	4600 [mm]	5050 [mm]
Turning radius, outside corner of bucket @ carry	5160 [mm]	5590 [mm]
Articulation	40 [°]	40 [°]
Axle oscillation	12 [°]	13 [°]

[1] a machine can be equipped with a bucket of bigger capacity or with optional attachment (Refer to Par. 6.4)
[2] the value increases or decreases according to the tire size.
[3] machine stability, weight and performance are specified for a machine standing on hard level ground and can be affected by the machine configuration and optional equipment

NOTE: *Performance specified per SAE J732.*

6.8.2. CAPACITIES

Specification	515C			520C		
	Refill [l]	Service	[l]	Refill [l]	Service	[l]
Fuel tank	132.5			172		
Cooling system	30			33		
Front axle	15			16.5		
Rear axle	15			16.5		
Hydraulic system (loader and steering)	65			85		
Hydraulic tank		42			50	
Transmission system	27			30		
Transmission		18			22	
Engine and filter	16.4			16.4		
Service brake system	3.8			3.8		
Steering gear	0.33			0.33		
Air conditioner	1.22		[kg]	1.22		[kg]

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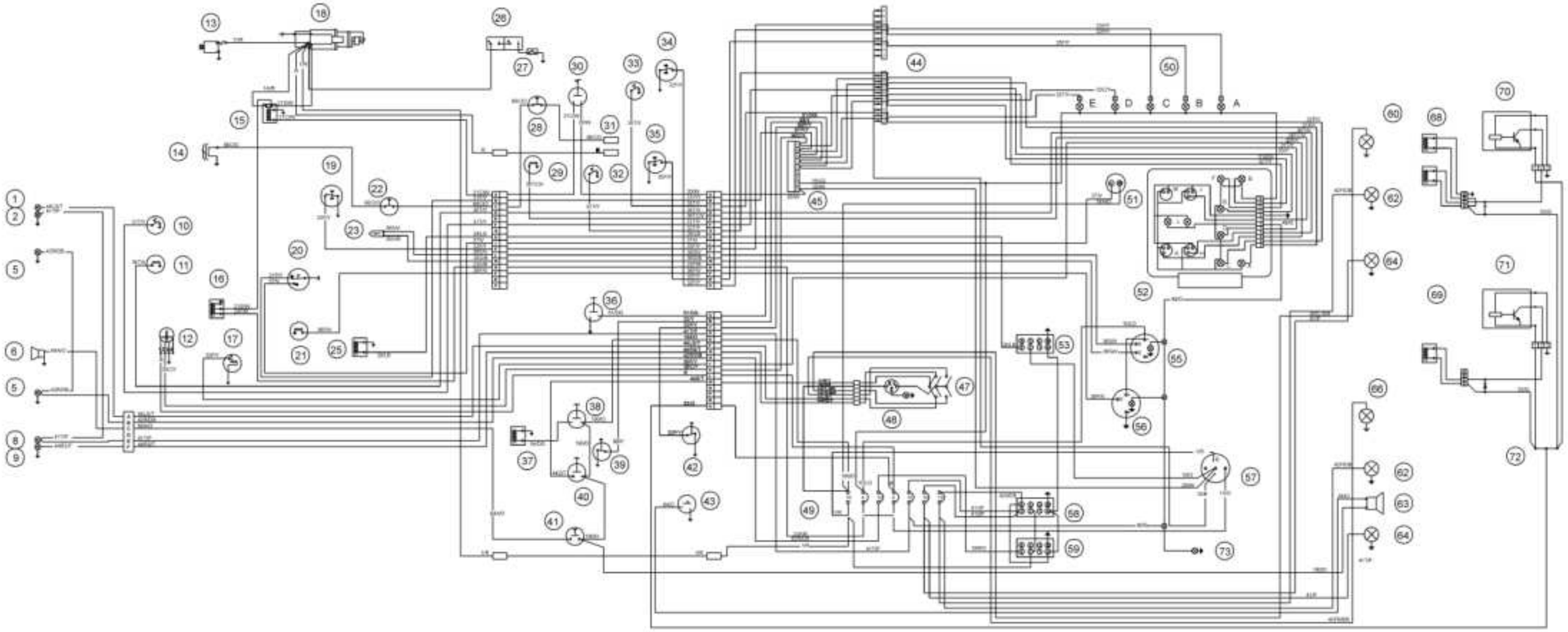


Fig. 6.6. Wiring Diagram (Standard 515C and 520C Loaders)

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