SEBM01950508

SHOP MANUAL

KOMATSU®

D355A-5

MACHINE MODEL	SERIAL NUMBER
D355A-5	**12622 and up**

- This shop manual may contain attachments and optional equipment that are not available in your area. Please consult your local Komatsu distributor for those items you may require. Materials and specifications are subject to change without notice.

- D355A-5 mounts the SA6D155-4 engine.
  For details of the engine, see the 155 Series Engine Shop Manual.

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WEIGHT TABLE

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

Unit: kg

Machine Model	D355A-5
Serial No.	12622 and up
Engine and torque converter assembly	3,460
• Engine assembly	2,760
• Torque converter assembly	245
Fuel tank assembly	510
TORQFLOW transmission assembly	1,500
• Control valve assembly	55
Bevel gear shaft and steering clutch assembly	—
• Steering clutch and brake band assembly (each side)	230
• Bevel gear shaft	42
• Bevel gear	40
Steering control valve assembly	100
Final drive case (each side)	220
Sprocket assembly (each side)	175
Steering case and main frame assembly	3,722
• Sprocket shaft (each side)	176
Track group assembly (each side)	4,975
• Track frame (each)	1,695
• Recoil spring assembly (each)	350
• Idler assembly (each)	500
• Track roller assembly (Single flange)(each)	160
• Track roller assembly (Double flange)(each)	170
• Carrier roller assembly (each)	80
Track shoe assembly (each)	3,380
Equalizer bar	470
Hydraulic tank assembly	365
• Blade control valve assembly	—

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Unit: kg

Machine Model	D355A-5
Serial No.	12622 and up
Blade lift cylinder assembly (each)	270
Blade tilt cylinder assembly	305
Ripper lift cylinder assembly (each)	290
Ripper tilt cylinder assembly (each)	325
Straight tiltdozer assembly	6,758
• Blade	3,175
• Straight frame (each)	811
• Tilt cylinder assembly	305
Variable multiple shank ripper assembly	5,720
• Shank assembly (each)	430
• Lift cylinder assembly (each)	290
• Tilt cylinder assembly (each)	325
Variable giant ripper assembly	5,350
• Shank assembly	580
• Lift cylinder assembly	280
• Tilt cylinder assembly	320
Radiator guard and blade lift cylinder assembly	2,800
• Radiator guard	970
• Radiator assembly	600
• Blade lift cylinder assembly (left and right)	270
Engine underguard	395
Transmission underguard	350
Hood	65
Fender (left)	345
Fender (left)	345
Floor frame assembly	350
Cab assembly	1,510
ROPS assembly	1,010

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TABLE OF FUEL, COOLANT AND LUBRICANTS

RESERVOIR	KIND OF FLUID	AMBIENT TEMPERATURE (−22 −30, −4 −20, 14 −10, 32 0, 50 10, 68 20, 86 30, 104°F 40°C)	CAPACITY (ℓ) Specified	Refill
Engine oil pan	Engine oil	SAE 30; SAE 10W; SAE 10W-30; SAE 15W-40	71	67
Steering case (Incl. torque converter and transmission case)	Engine oil	SAE 30; SAE 10W	230	190
Final drive case (each)	Engine oil	SAE 30	68	68
Recoil spring case (each)	Engine oil	SAE 30	30	—
Hydraulic tank	Engine oil	SAE 10W; SAE 10W-30; SAE 15W-40	280	100
Idler (each)	Gear oil	GO 140	0.48 — 0.55	0.48 — 0.55
Track roller (each)	Gear oil	GO 140	0.78 — 0.90	0.78 — 0.90
Carrier roller (each)	Gear oil	GO 140	0.64 — 0.74	0.64 — 0.74
Fuel tank	Diesel fuel	ASTM D975 No. 2; *	750	—
Cooling system	Coolant	Add antifreeze	180	—

* ASTM D975 No. 1

NOTE:

(1) When fuel sulphur content is less than 0.5 %, change oil in the oil pan every periodic maintenance hours described in this manual.
Change oil according to the following table if fuel sulphur content is above 0.5 %.

Fuel sulphur content	Change interval of oil 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 in an atmospheric temperature of lower than 0°C, be sure to use engine oil of SAE10W, SAE10W-30 and SAE15W-40 even though an atmospheric temperature goes up to 10°C more or less in the day time.

(3) Use API classification CD as engine oil and if API classification CC, reduce the engine oil change interval to half.

(4) There is no problem if single grade oil is mixed with multigrade oil (SAE10W-30, 15W-40), but be sure to add single grade oil that matches the temperature in the table on the left.

(5) We recommend Komatsu genuine oil which has been specifically formulated and approved for use in engine and hydraulic work equipment applications.

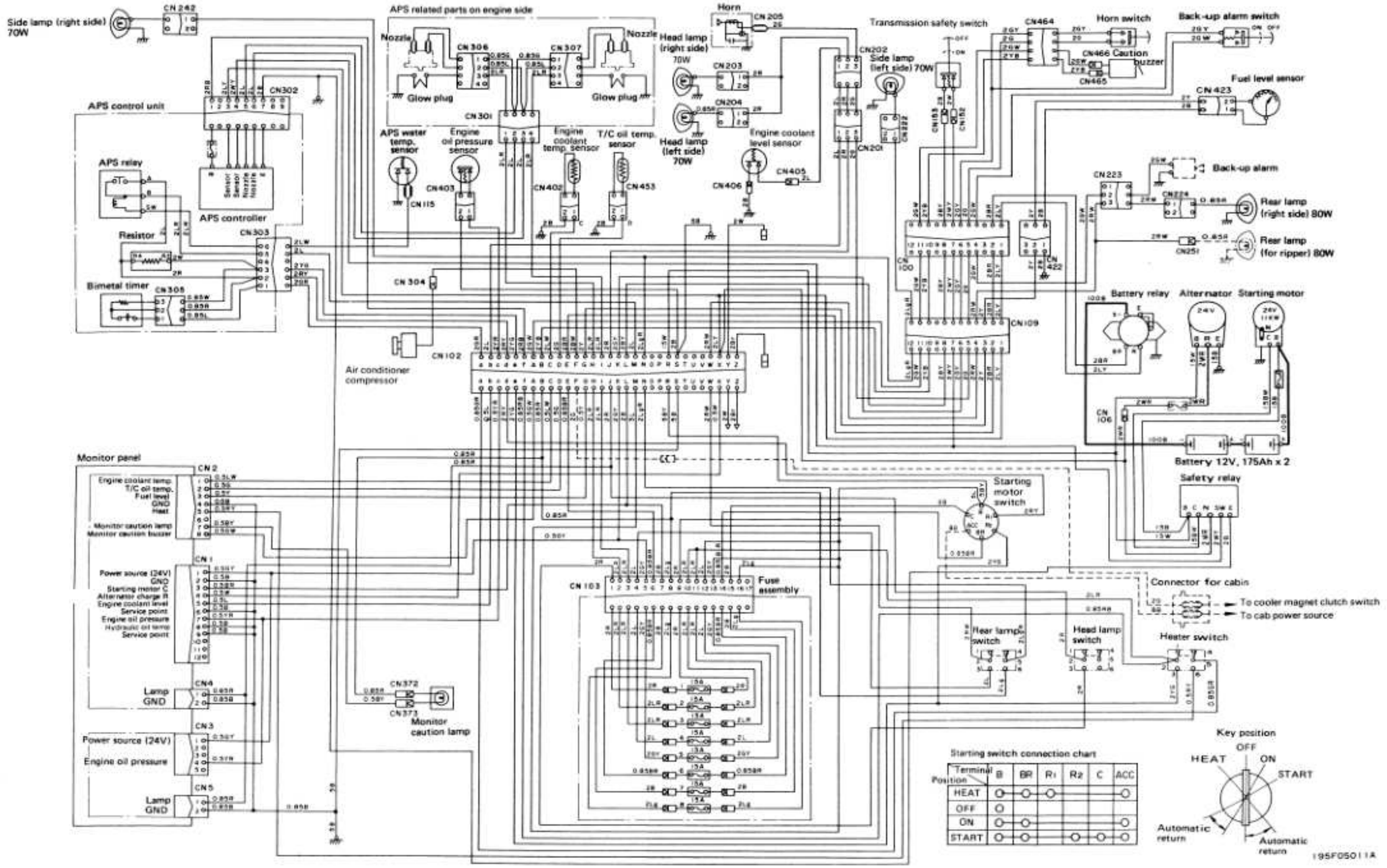
ASTM: American Society of Testing and Material
SAE: Society of Automotive Engineers
API: American Petroleum Institute

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.

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ELECTRICAL CIRCUIT DIAGRAM

CHASSIS ELECTRICAL CIRCUIT



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