SHOP MANUAL

KOMATSU®

95-3 SERIES DIESEL ENGINE

MidWestTech | Komatsu 95-3 Series Diesel Engine Service Manual | Publication SEBM031002

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ELECTRIC WIRE CODE

In the wiring diagrams, various colors and symbols are employed to indicate the thickness of wires.
This wire code table will help you understand WIRING DIAGRAMS.
Example: 5WB indicates a cable having a nominal number 5 and white coating with black stripe.

CLASSIFICATION BY THICKNESS

Norminal number	Copper wire			Cable O.D. (mm)	Current rating (A)	Applicable circuit
	Number of strands	Dia. of strands (mm^2)	Cross section (mm^2)			
0.85	11	0.32	0.88	2.4	12	Starting, lighting, signal etc.
2	26	0.32	2.09	3.1	20	Lighting, signal etc.
5	65	0.32	5.23	4.6	37	Charging and signal
15	84	0.45	13.36	7.0	59	Starting (Glow plug)
40	85	0.80	42.73	11.4	135	Starting
60	127	0.80	63.84	13.6	178	Starting
100	217	0.80	109.1	17.6	230	Starting

CLASSIFICATION BY COLOR AND CODE

Priority	Classification \ Circuits		Charging	Ground	Starting	Lighting	Instrument	Signal	Other
1	Primary	Code	W	B	B	R	Y	G	L
		Color	White	Black	Black	Red	Yellow	Green	Blue
2	Auxiliary	Code	WR	—	BW	RW	YR	GW	LW
		Color	White & Red	—	White & Black	Red & White	Rellow & Red	Green & White	Blue & White
3		Code	WB	—	BY	RB	YB	GR	LR
		Color	White & Black	—	Black & Yellow	Red & Black	Yellow & Black	Green & Red	Blue & Yellow
4		Code	WL	—	BR	RY	YG	GY	LY
		Color	White & Blue	—	Black & Red	Red & Yellow	Yellow & Green	Green & Yellow	Blue & Yellow
5		Code	WG	—	—	RG	YL	GB	LB
		Color	White & Green	—	—	Red & Green	Yellow & Blue	Green & Black	Blue & Black
6		Code	—	—	—	RL	YW	GL	—
		Color	—	—	—	Red & Blue	Yellow & White	Green & Blue	—

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WEIGHT TABLE

★ The specifications may be different depending on the type of machine.

Unit: kg

No.	Item	Components	S4D95LE-3	SAA4D95LE-3
1	Turbocharger		5	5
2	Cylinder head assembly	Cylinder head, valve, valve spring	28	28
3	Cylinder block assembly	Cylinder block, main metal block, cylinder liner	70	70
4	Gear case (Front cover)		2.6	2.6
5	Oil pan		2	4.5
6	Flywheel assembly	Flywheel, ring gear	22	25
7	Flywheel housing		11	25
8	Crankshaft assembly	Crankshaft, crankshaft gear	25	25
9	Camshaft assembly	Camshaft, camshaft gear, thrust plate	5.5	5.5
10	Piston and connecting rod assembly	Piston, piston ring, piston pin, connecting rod	2	2
11	Oil pump		0.5	0.5
12	Fuel injection pump		10.5	10.5
13	Water pump		6	6
14	Alternator		The weight is different depending on the type of machine.	
15	Starting motor			
16	Air compressor		—	—
17	Aftercooler assembly		—	—

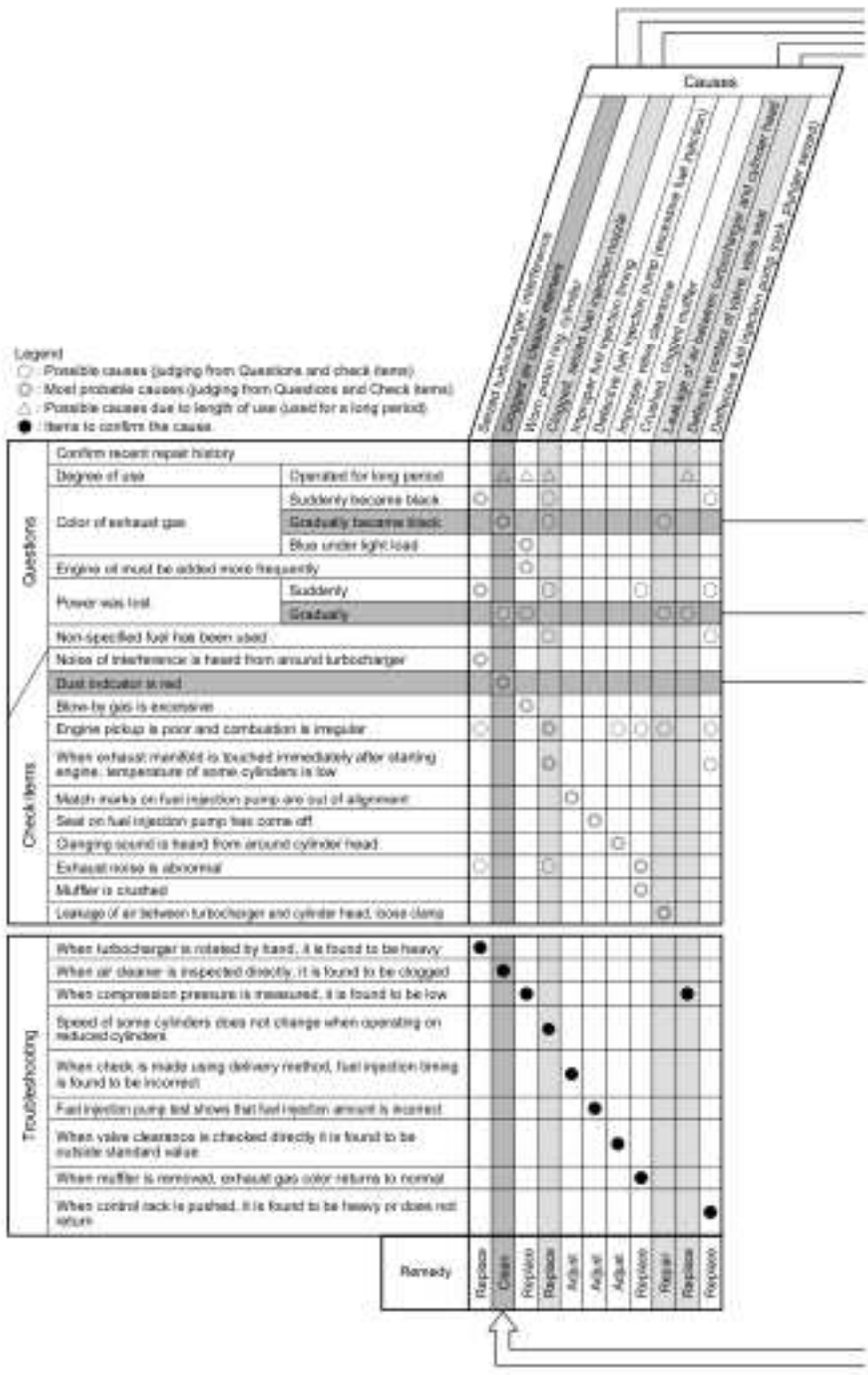
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- **Example of troubleshooting when exhaust gas is black**
  Let us assume that [Clogged air cleaner] is taken to be the cause of black exhaust gas. Three symptoms have causal relationship with this problem: [Exhaust gas slowly became black], [Power slowly became weaker], and [Dust indicator is red].
  If we look from these three symptoms to find the causes, we find that there is a relationship with five causes.
  Let us explain here the method of using this causal relationship to pinpoint the most probable cause.

S-7 Exhaust gas is black (incomplete combustion)

General causes why exhaust gas is black

- Insufficient intake of air
- Improper condition of fuel injection
- Excessive injection of fuel



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