SHOP MANUAL

KOMATSU®

125-3 SERIES DIESEL ENGINE

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DIMENSION TABLE

★ These dimensions are reference values for use when installing to a test bench.

IN-LINE FUEL INJECTION SPECIFICATION

Engine	Machine model	Dimensions for each part (mm)					
		A	B	C	D	E	F
SAA6D125E-3	WA430-5	1,317	1,637	1,250	387	467.5	467.5

COMMON RAIL SYSTEM SPECIFICATION

Engine	Machine model	Dimensions for each part (mm)					
		A	B	C	D	E	F
SA6D125E-3	D65EX, PX-15	1,307	1,615	1,228	387	420	442
	D85EX, PX-15	1,307	1,712	1,325	387	420	470
SAA6D125E-3	WA470-5, 480-5	1,317	1,637	1,250	387	467.5	467.5
	PC400, 450-7	1,341	1,645	1,203	442	415	478
	HD255-5	1,550	1,241	1,240	401	440	518

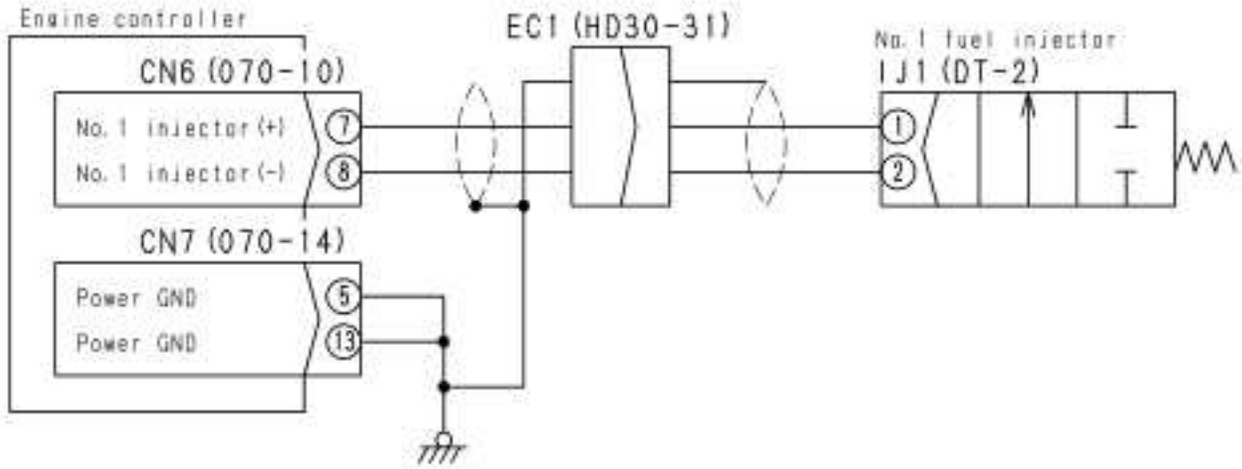
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2. Table of error codes

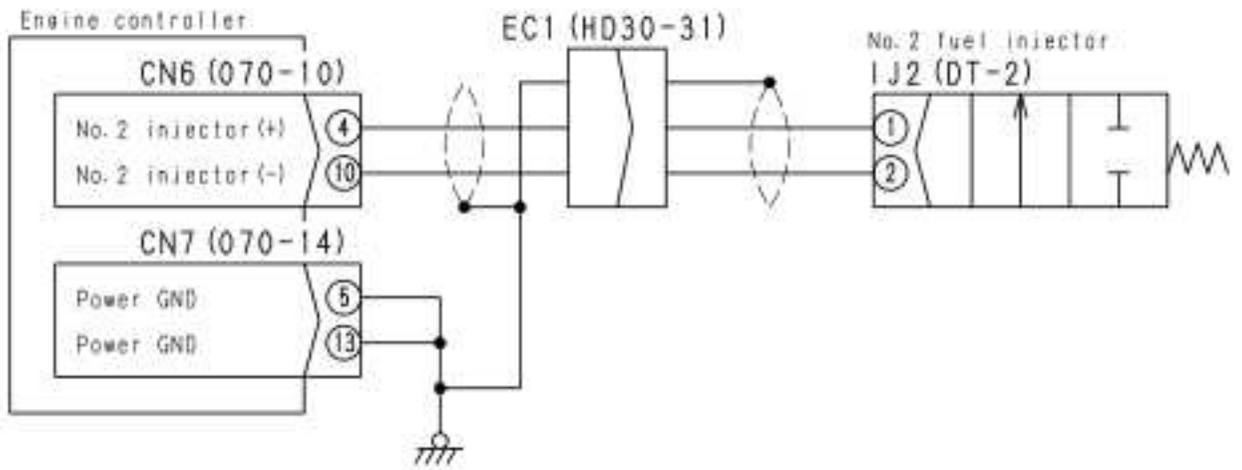
Error code	Nature of abnormality	Operation for re-enaction
E-1b	Abnormality in NE revolution sensor system	Start engine.
E-1C	Abnormality in G revolution sensor system	Start engine.
E-20	Abnormality in model selection system	Turn starting switch ON.
E-22	Overrun	Start engine.
E-23	Overheat	Start engine.
E-24	Drop in oil pressure	Start engine.
E-30	Abnormality in idling validation signal system	Turn starting switch ON.
E-31	Abnormality in throttle sensor system	Turn starting switch ON.
E-34	Abnormality in water temperature high-temperature sensor system	Turn starting switch ON.
E-36	Abnormality in oil pressure switch system	Start engine.
E-3C	Abnormality in boost pressure sensor system	Turn starting switch ON.
E-3d	Abnormality in fuel temperature sensor system	Turn starting switch ON.
E-50	Abnormality in preheat relay contact system	Turn starting switch ON.
E-51	Abnormality preheat relay coil system	Turn starting switch ON.
E-54	Short circuit in starting switch signal C	Turn starting switch OFF.
E-56	Abnormality 1 in power source system	Turn starting switch ON.
E-57	Abnormality 2 in power source system	Turn starting switch OFF.
E-5A	Abnormality fuel injection quantity control switch signal	Turn starting switch ON.
E-6A	Abnormality in water temperature low-temperature sensor system	Turn starting switch ON.
E-70	Excess current in fuel supply pump PCV1 system	Turn starting switch ON.
E-71	Excess current in fuel supply pump PCV2 system	Turn starting switch ON.
E-74	Disconnection in fuel supply pump PCV1 system	Turn starting switch ON.
E-75	Disconnection in fuel supply pump PCV2 system	Turn starting switch ON.
E-77	Abnormality in common rail fuel pressure sensor system	Turn starting switch ON.
E-79	Abnormality 1 in common rail fuel high pressure	Start engine.
E-7A	Abnormality 2 in common rail fuel high pressure	Start engine.
E-7b	Fuel supply pump non-force feed 1	Start engine.
E-7C	Fuel supply pump non-force feed 2	Start engine.
E-7d	Abnormality in common rail fuel pressure	Start engine.
E-80	Defective controller	Turn starting switch ON.
E-81	Disconnection in No. 1 fuel injector system	Turn starting switch ON.
E-82	Disconnection in No. 2 fuel injector system	Turn starting switch ON.
E-83	Disconnection in No. 3 fuel injector system	Turn starting switch ON.
E-84	Disconnection in No. 4 fuel injector system	Turn starting switch ON.
E-85	Disconnection in No. 5 fuel injector system	Turn starting switch ON.
E-86	Disconnection in No. 6 fuel injector system	Turn starting switch ON.
E-8A	Short circuit in No. 1, No. 2, No. 3 fuel injector system	Turn starting switch ON.
E-8b	Short circuit in No. 4, No. 5, No. 6 fuel injector system	Turn starting switch ON.

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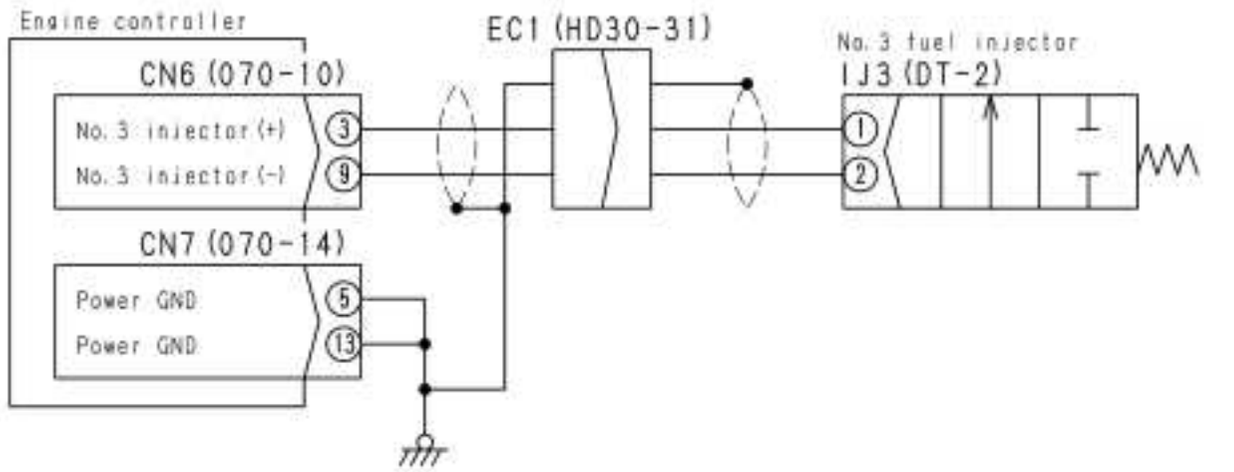
E-35 a), b) Related electrical circuit diagram



E-35 a), c) Related electrical circuit diagram



E-35 a), d) Related electrical circuit diagram



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