SHOP MANUAL

KOMATSU®

WA320-5

Machine model	Serial number
WA320-5	**60001 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.

- WA320-5 mounts the SAA6D102E-2-A engine.
  For details of the engine, see the 102 Series Engine Shop Manual.

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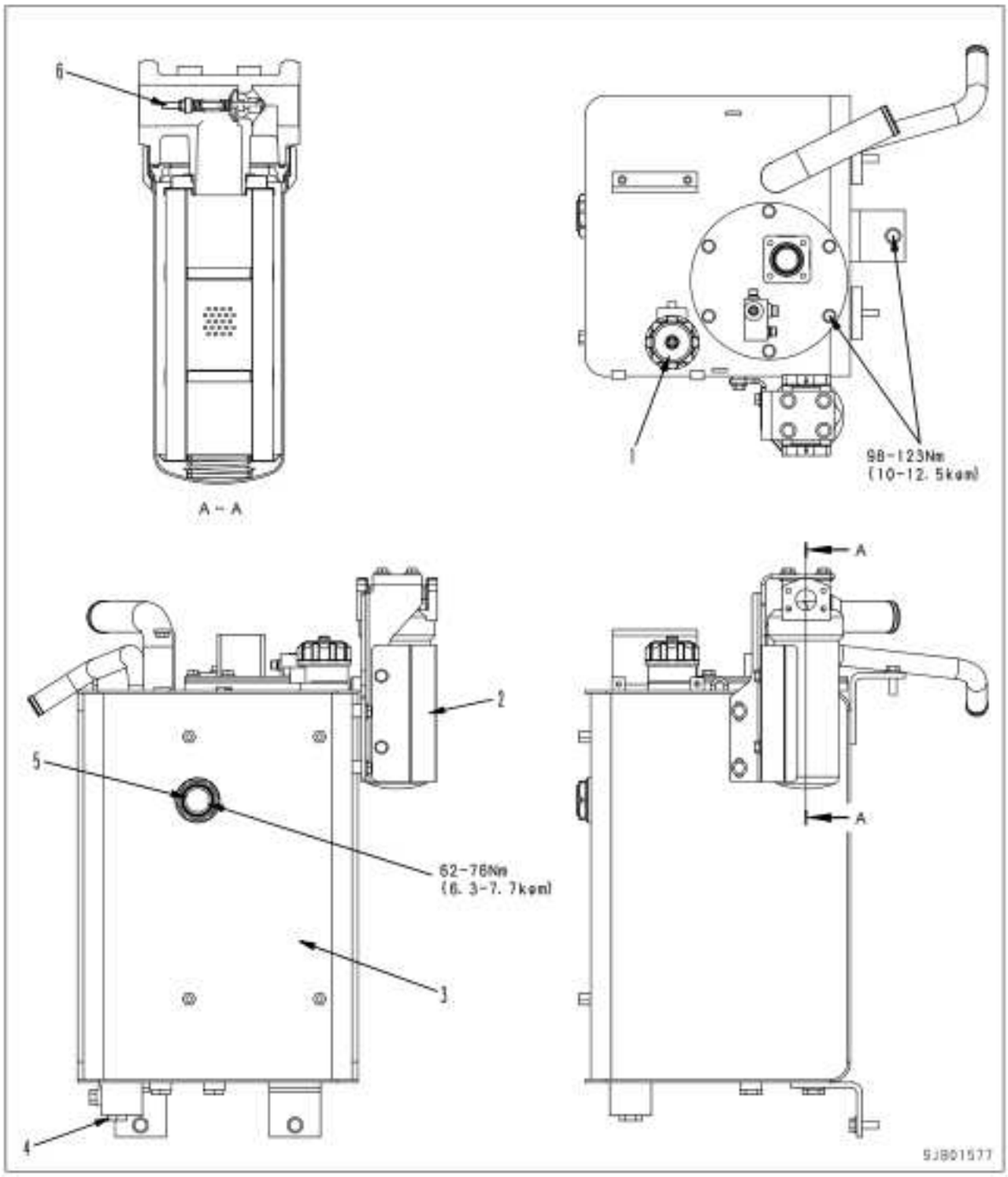
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HYDRAULIC TANK



1. Oil filler cap / Breather
2. Return filter
3. Hydraulic tank
4. Drain plug
5. Sight gauge
6. Return filter bypass valve

Specifications

Tank capacity (ℓ)	124
Oil quantity inside the tank (ℓ)	89
Bypass valve setting pressure (MPa{kg/cm^2})	0.2 {2.04}

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BEFORE TROUBLESHOOTING CODE DISPLAY

FAILURE CODE AND POSSIBLE CAUSES TABLE

Failure code	Action code	Possible causes																							
		Defective machine monitor	Defective HST controller	Defective starting switch	Defective monitor panel mode selector switch 1 ■	Defective monitor panel mode selector switch 1 ◇	Defective monitor panel mode selector switch 2 <	Defective monitor panel mode selector switch 2 >	Defective forward-reverse lever	Deterioration of battery	Defective battery relay	Defective fuse/fusible link	Defective alternator	Clogging of air cleaner	Defective air cleaner clogging sensor	Defective engine speed sensor	Defective HST motor 2 solenoid	Defective HST motor 1 solenoid	Defective clutch solenoid	Lowering of engine oil pressure	Defective engine oil pressure sensor	Lowering of engine oil level	Defective engine oil level sensor
(Codes related to HST controller)																									
989F00	E00		●																						
DHH1KX	E03		●																						
DLE2LC	E03		●													●									
DW26KZ	E03		●						●								●								
DX19KZ	E03		●															●							
DX20KZ	E03	●	●																●						
(Codes related to monitor)																									
15B0NX	E01	●																							
2G42ZG	E03	●																							
989F00	E00		●																						
989FN1	E02	●																●	●						
AA1ANX	E01	●												●	●										
AB00L6	E03	●											●												
AB00MA	E03	●								●	●														
B@BAZG	E01	●																		●	●				
B@BAZK	E01	●																				●	●		
B@BCNS	E02	●																							
B@BCZK	E01	●																							
B@C7NS	E02	●																							
B@CR0NS	E02	●																							
D5ZHL6	E01	●		●																					
DAF0KT	E03	●																							
DAJ0KR	E03	●	●																						
DD15LD	E01	●			●																				
DD16LD	E01	●				●																			
DD17LD	E01	●					●																		
DD18LD	E01	●						●																	
DDK3KB	E03	●							●																
DDS5L6	E03	●							●																
DGE2KX	E01	●																							
DGE3L6	E01	●																							
DGH1KX	E01	●																							
DGR1KX	E01	●																							
DGR4KA	E01	●																							
DHE4L6	E01	●																			●				

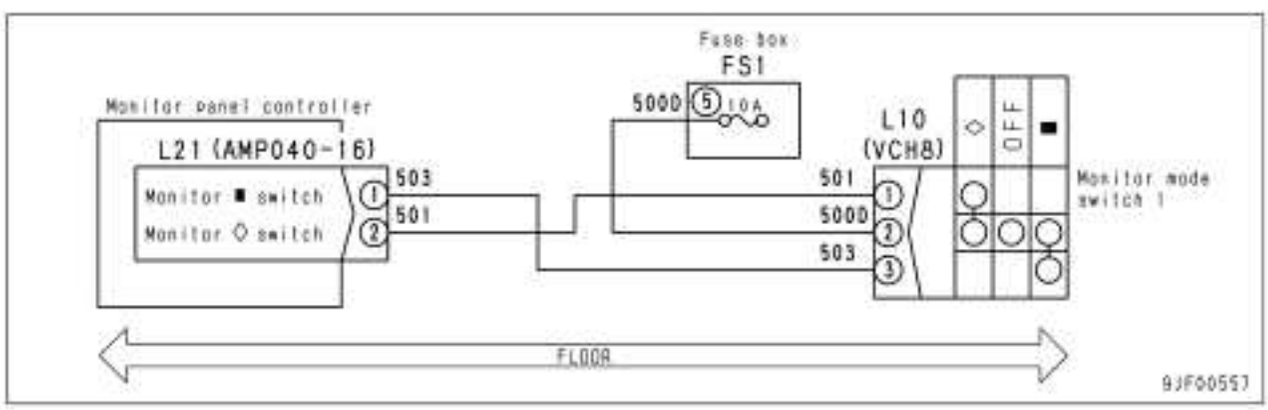
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Troubleshooting Code [MON-9] (Input failure in monitor panel mode selector switch 1 [■] (Panel switch 1))

Action Code	Failure Code	Controller Code	Trouble	Input failure in monitor panel mode selector switch 1 [■] (Panel switch 1)
-	-	-		
Description of Trouble	• The monitor panel mode selector switch 1 [■] (Panel switch 1) input circuit is always in the OPEN state.			
Machine monitor or controller Reaction	• Activates an alarm.			
Effect on Machine	• The monitor does not work.			
Related Information				

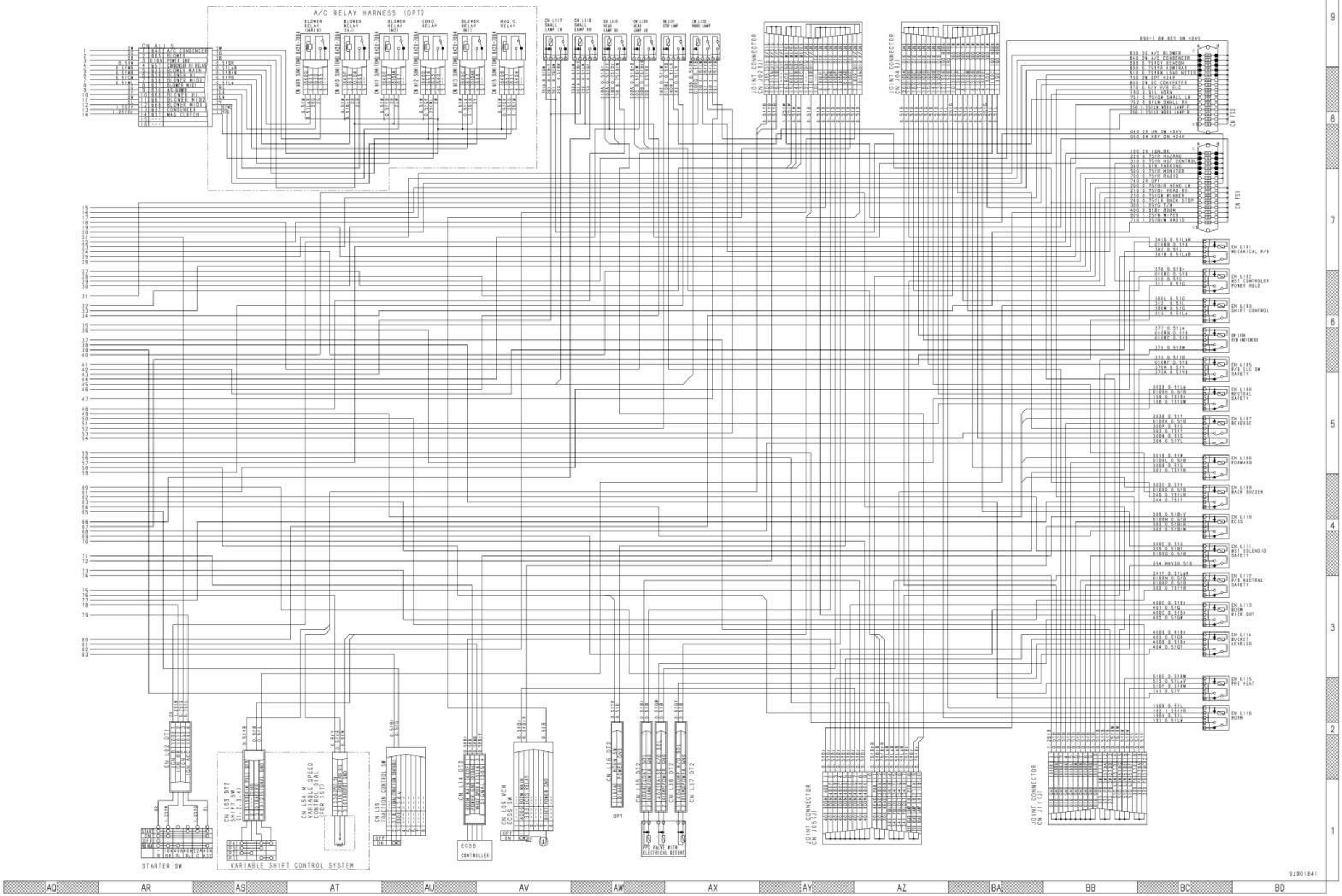
	Causes		Standard Value in Normal State and Remarks on Troubleshooting			
Possible Causes and Standard Values	1	Defective monitor panel mode selector switch 1 [■]	1) Turn starting switch OFF. 2) Disconnect connector L10. 3) Connect T-adapter.			
			Between L10 (Female) (2) and (3)	When monitor panel mode selector switch 1 [■] is turned ON.	Resistance	1Ω and below
				Other than above.	Resistance	1MΩ and above
	2	Wiring harness discontinuity (Disconnection or defective contact)	1) Turn starting switch OFF. 2) Disconnect Connectors L21, L10, fuse FS1 (5). 3) Connect T-adapter.			
			Wiring harness between L21 (Female) (1) and L10 (Female) (3)		Resistance	1Ω and below
			Wiring harness between L10 (Female) (2) and fuse FS1 (5)		Resistance	1Ω and below
	3	Wiring harness ground fault	1) Turn starting switch OFF. 2) Disconnect Connectors L21, L10, fuse FS1 (5). 3) Connect T-adapter.			
			Wiring harness between L21 (Female) (1) and L10 (Female) (3)	Resistance between L21 (Female) (1), L10 (Female) (3) and chassis ground		1MΩ and above
			Wiring harness between L10 (Female) (2) and fuse FS1 (5)	Resistance between L10 (Female) (2), fuse FS1 (5) and chassis ground		1MΩ and above
			★ In the above case, the fuse is blown.			
	4	Defective machine monitor	1) Turn starting switch OFF. 2) Disconnect connector L21. 3) Insert T-adapter. 4) Connect connector. 5) Turn starting switch ON.			
			Between L21 (Female) (1) and chassis ground	When monitor panel mode selector switch 1 [■] is turned ON.	Voltage	20 - 30V
				Other than above.	Voltage	1V and below

Related circuit diagram



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ELECTRICAL CIRCUIT DIAGRAM 1/4 (4/4)



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