VEBM420100

SHOP MANUAL

KOMATSU®

WA150PZ-5

MACHINE MODEL

WA150PZ-5

SERIAL NUMBER

H50051 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.

- WA150PZ-5 mounts the SAA4D102E-2 engine.
  For details of the engine, see the 102 Series Engine Shop Manual.

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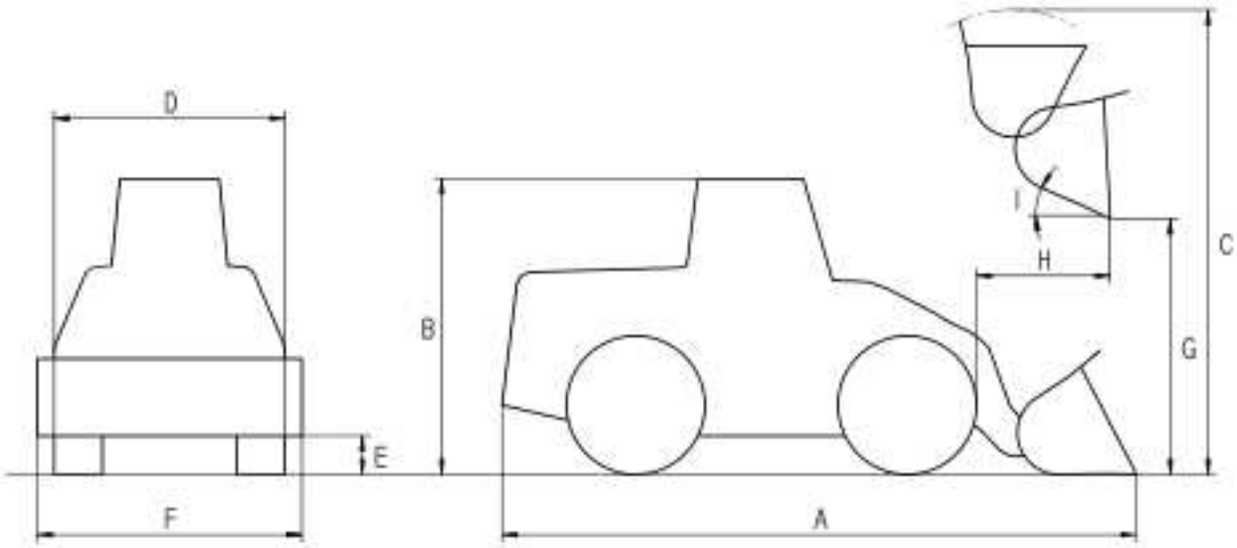
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01 GENERAL

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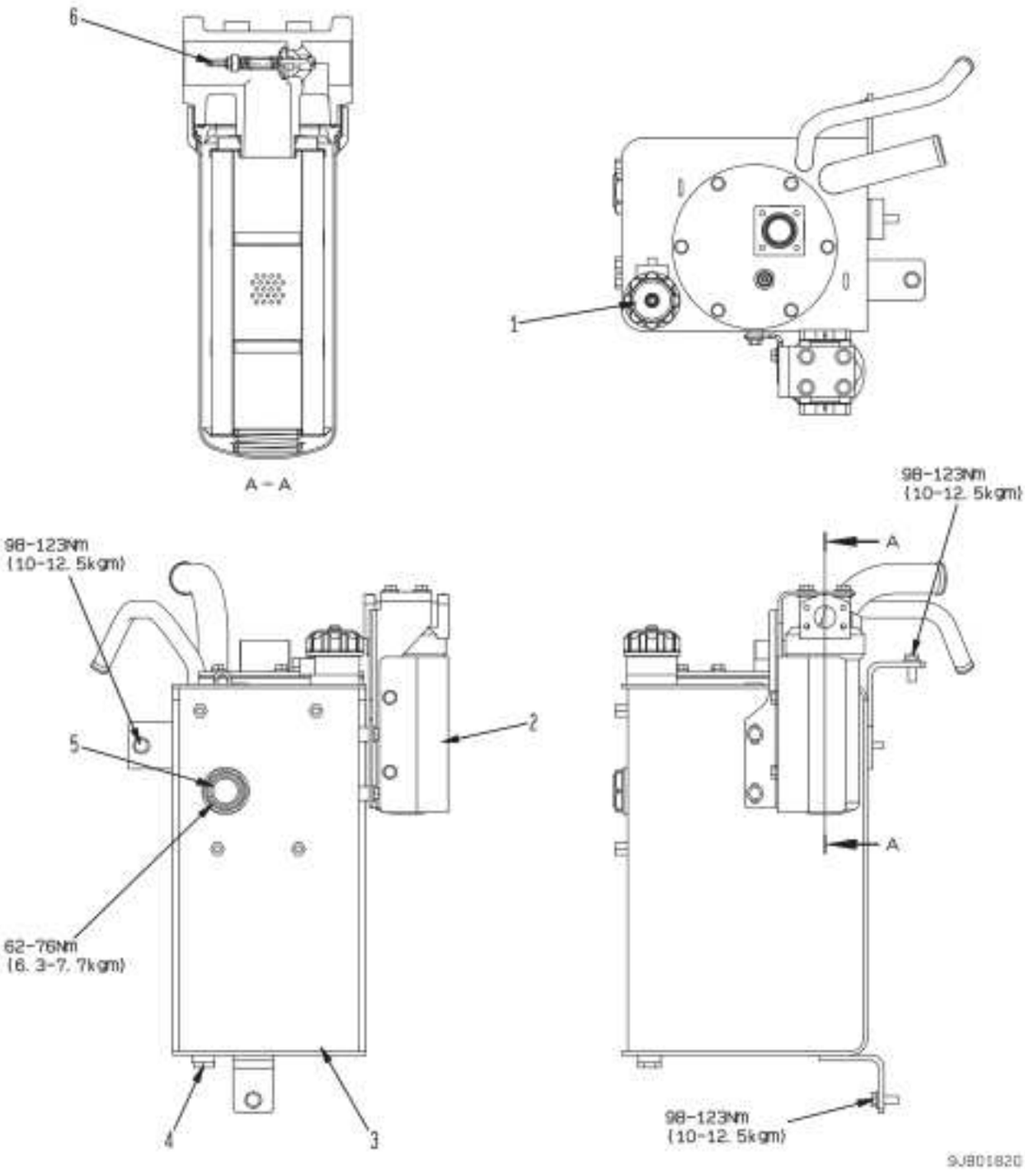
GENERAL ASSEMBLY DRAWINGS



	Item		Unit	WA150PZ-5
	Operating weight (With Teeth)		kg	8,480
	Rated load		kN {kg}	23.5 {2,400}
	Bucket capacity (piled) (With Teeth)		m^3	1.5
	Engine model		—	KOMATSU SAA4D102E-2 Diesel engine
	Flywheel horse power		kW {HP} / rpm	71 {96} / 2,000
A	Overall length (With Teeth)		mm	6,600
B	Overall height		mm	3,035
C	Overall height when bucket is raised		mm	4,979
D	Overall width		mm	2,250
E	Min. ground clearance		mm	400
F	Bucket width		mm	2,390
G	Dumping clearance	Tip of bucket/Tip of Teeth	mm	2,915/2,775
H	Dumping reach	Tip of bucket/Tip of Teeth	mm	825/960
I	Bucket dump angle		deg.	45
	Min. turning radius	Tip of bucket/Tip of Teeth	mm	5,270 / 5,330
		Center of outside wheel	mm	4,470
	Travel speed	F1	km / h	4.6 – 13.0
		F2	km / h	13.0
		F3	km / h	20.0
		F4	km / h	38.0
		R1	km / h	4.6 – 13.0
		R2	km / h	13.0
		R3	km / h	20.0
		R4	km / h	38.0

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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)	65
Oil quantity inside the tank (ℓ)	47
Bypass valve setting pressure (MPa{kg/cm^2})	0.2 {2.04}

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RELEASING REMAINING PRESSURE IN HYDRAULIC CIRCUIT

1. Releasing remaining pressure between each hydraulic cylinder and control valve.
   - ★ If the piping between the hydraulic cylinder and the control valve is to be disconnected, release the remaining pressure from the circuit as follows.
   1) Stop the engine.
   2) Loosen the oil filler cap slowly to release the pressure inside the tank.
   3) Operate the control levers.
      - ★ When the levers are operated 2 - 3 times, the pressure stored in the PPC accumulator is removed. Start the engine, run at low idling for approx. 5 seconds to charge the accumulator, then stop the engine and operate the control levers.
      - ★ Repeat the above operation 2 - 3 times to release all the remaining pressure.

2. Releasing remaining pressure in brake accumulator circuit
   - ★ If the piping between the ACC charge valve and brake accumulator, between the ACC charge valve and parking brake valve, and between the accumulator and brake valve is to be disconnected, release the remaining pressure from the circuit as follows.
   1) Stop the engine.
   2) Depress the brake pedal at least 100 times to release the pressure inside the brake accumulator circuit.

3. Releasing remaining pressure in PPC accumulator circuit
   - ★ If the piping between the PPC accumulator and PPC valve is to be disconnected, release the remaining pressure from the circuit as follows.
   1) Operate the control lever 2 - 3 times to release all the remaining pressure from the circuit.

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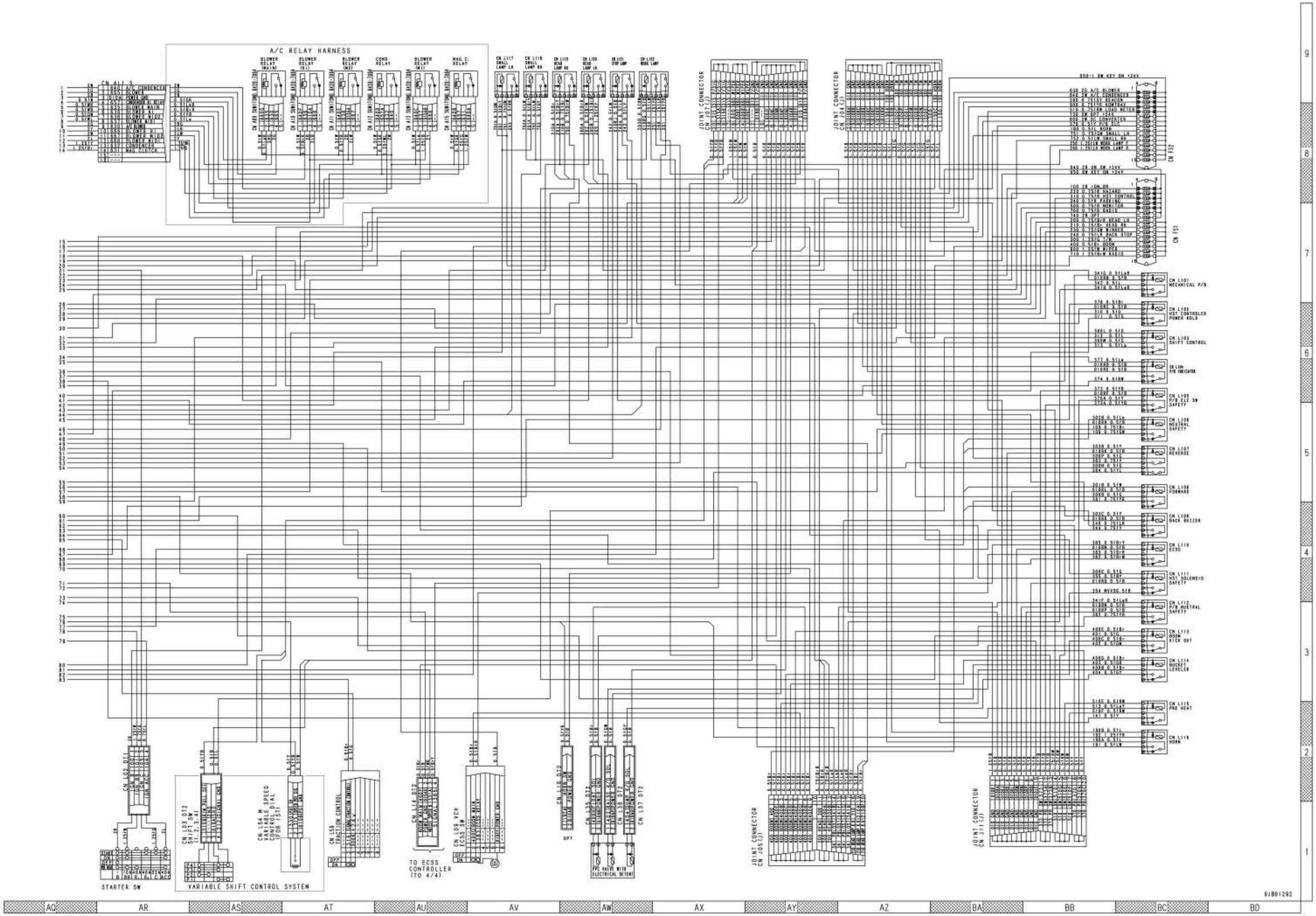
Error Code [989FN1] (HST overrunning (N1))

Action Code	Error Code	Controller Code	Trouble	HST overrunning (N1)
E02	**989FN1**	MON		
Description of Trouble	• Travel speed exceeds 45 km/h. • Automatic speed reduction when travel speed exceeds 42 km/h does not work.			
Machine monitor or controller Reaction	• Activates an alarm.			
Effect on Machine	• If the machine is driven as it is, HST motor may be broken (seized).			
Related Information				

	Causes		Standard Value in Normal State and Remarks on Troubleshooting	
Possible Causes and Standard Values	1	- - -	1) Turn starting switch ON. 2) Operate machine monitor	
			Other code is displayed at same time	Carry out troubleshooting for applicable code displayed
	2	Overrunning HST	When machine was used in way that would cause HST to overrun	Inspect and repair cause of problem and damage to HST.
	3	Defective machine monitor	1) Start engine. 2) Operate machine monitor 3) Travel on flat ground.	
			Travel speed goes above 42 km/h.	Carry out troubleshooting for HST controller system failure codes DW26KZ and DX19KZ.
			Travel speed does not go above 42 km/h. (Less than 42 km/h)	Inspect and repair cause of problem and damage to HST.

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ELECTRICAL CIRCUIT DIAGRAM 1/4 (4/4)
(Machines equipped with ROPS cab)



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