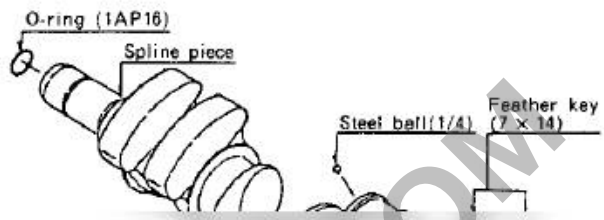
4. Crankshaft

- The crankshaft is stamped, and comes in a monoblock with the balancer.
- The spline piece is press-fitted to the power take-off (bottom end).



1. Cautions for reassembling and servicing

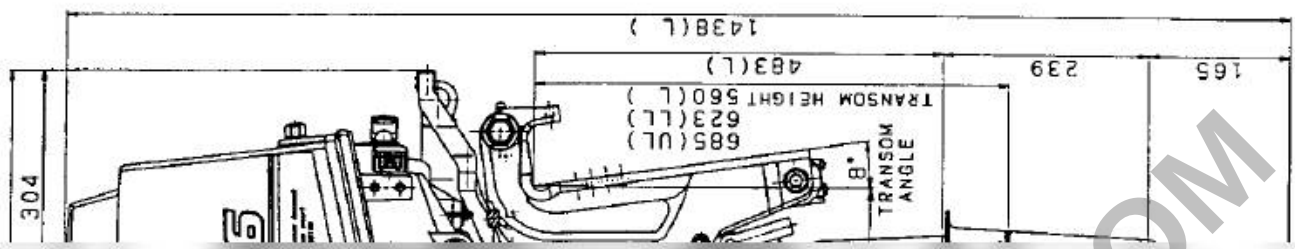
(1) Inspection of crankshaft

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(2) D36AXEP



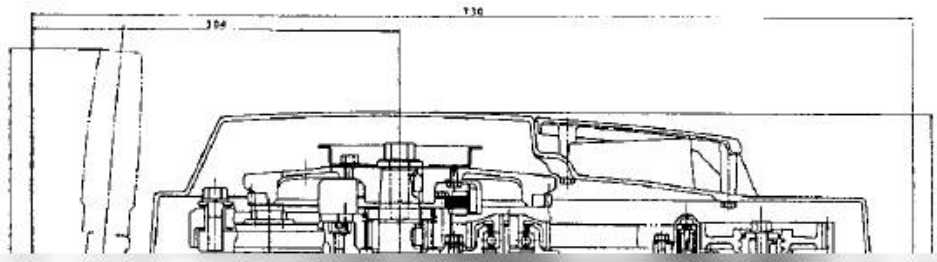
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3. Cross-sectional View

(1) D27AX



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1. Specifications

1-1 D27A and D36A series

Model		D27A				D36A			
		XE	XEP	YE	Y	XE	XEP	YE	YEP
Overall length	(mm)	730		1128 (When folding the handle 730)		759		1157 (When folding the handle 759)	
Overall width	(mm)	392		430		437		449	

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CHAPTER 1

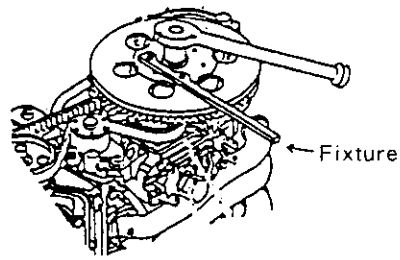
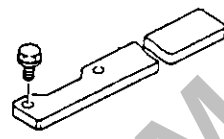
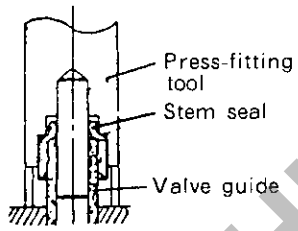
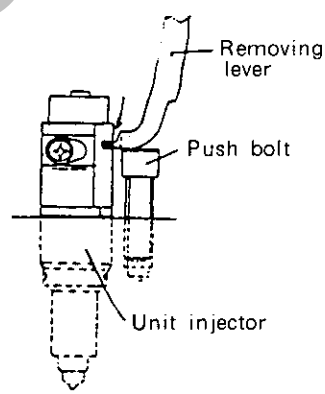
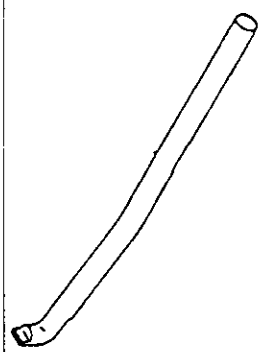
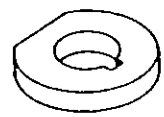
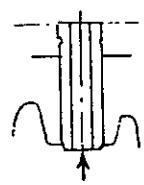
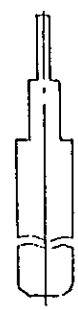
GENERAL

1. Specifications 1-1
2. Exterior View 1-3
3. Cross-sectional View 1-10

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No.	Name	Code No.	Description/Usage	Drawing
4	Flywheel fixing lever	120270-99870 26106-080162 M8×16 2pcs.		
5	Valve stem seal press-fitting tool	120270-99830	 	
6	Unit injector removing lever	120270-99840		
7	Clearance jig Each jig is for exclusive use	(D27A) 120270-99900 (D36A) 120380-99900	Clearance jig for stator and dynamo wheel	
8	Valve guide removing tool	120270-99770 (D27A) 120270-99790 (D36A) 120380-99790	 From inside of cylinder to valve arm case	

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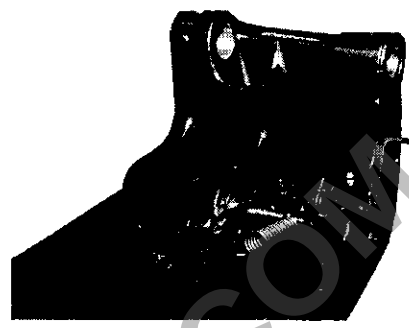
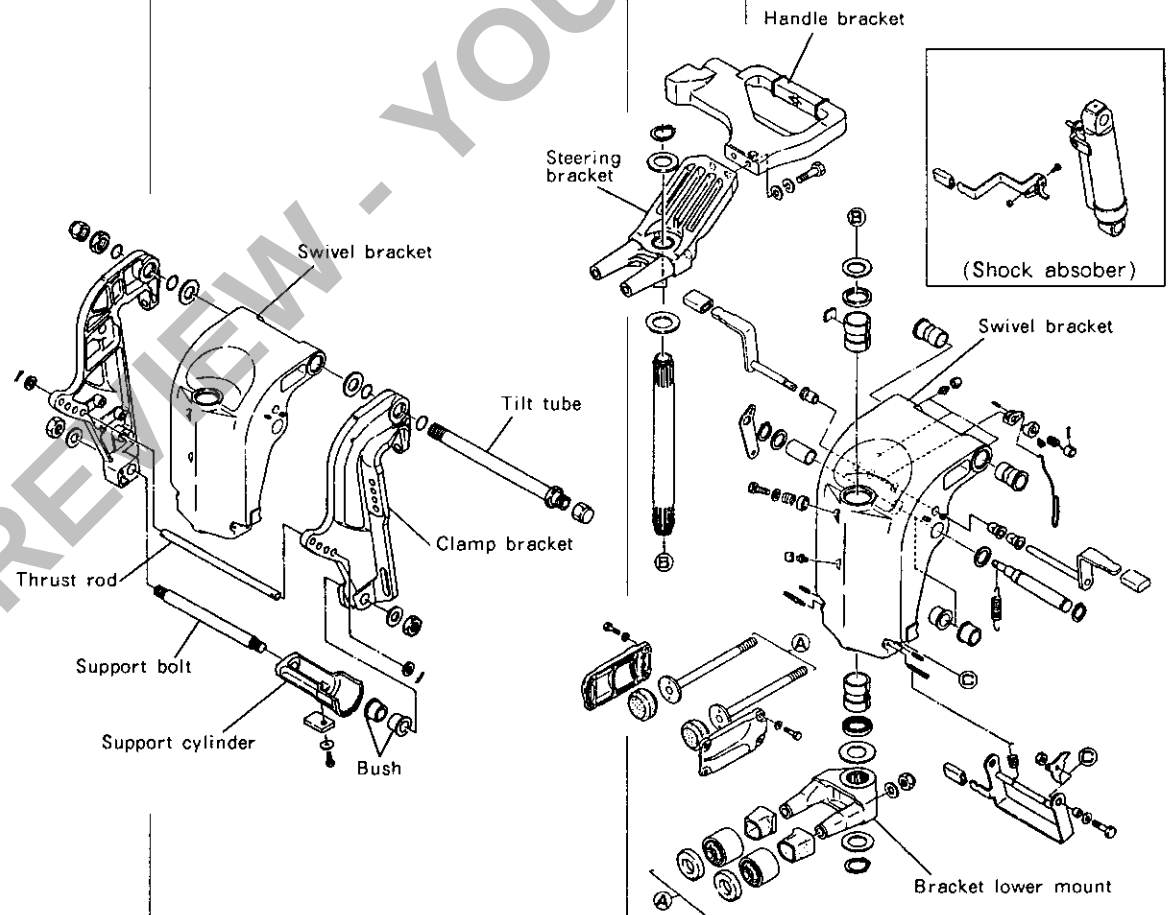
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No.	Item	Procedure	Symbol	Photo/Diagram
17	Unit injector	1) Knock the positioning spring pin into the cylinder block. 2) Set the O-ring, packing, and protector to the unit injector. 3) Install the unit injector assembly surely, aligning it with the positioning spring pin. (Insert the unit injector so that the		

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No.	Item	Procedure	Symbol	Photo/Diagram
		14) Install the tilt lever to the gas shock change lever. 15) Set the tilt stop rod to the tilt stop lever, and install the tilt stop lever to the tilt lever fitting bolt. 16) Install springs to the swivel bracket pin and the tilt lever. 17) Install the half tilt spring hook to the swivel bracket. 18) Knock the spring pin into the swivel bracket. 19) Set the half tilt stopper to the spring pin. 20) Set the half tilt arm to the spring pin. Set 2 collars and 2 washers, and tighten with bolt nut (both sides). 21) Install the half tilt spring to the half tilt arm and the tilt spring hook. 22) Install a rubber grip to the half tilt arm.		 (Install the tilt lever)  (Tilt stop rod and spring)  (Manual tilt swivel bracket for D36A)

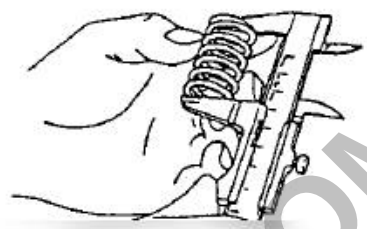
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4) Inspection of intake/exhaust valve spring

- Check the intake/exhaust valve spring for flaws and corrosion. Replace the valve spring, if there are any flaws or corrosion.
- Measure the free length of the spring.
- Measure the tension of the spring. (Use a spring tension meter, if available.)
- Measure the slant of the spring (the angle of the side of the spring).

(mm)



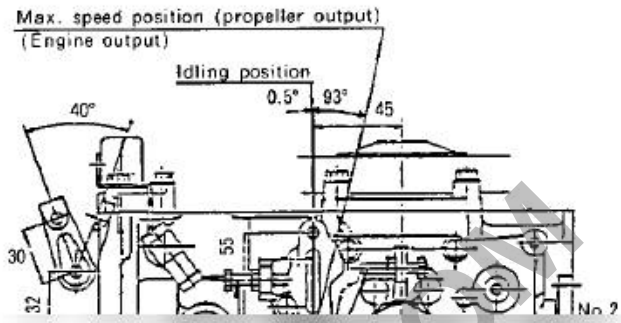
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(5) Adjusting engine speed
Adjust the idling and the max. speed to the specified load applied to the propeller shaft of the outboard engine.

1) Adjusting the idling speed (1000 rpm when the engine is warm)
Shift the clutch to the neutral position. Adjust the idling speed with the idle adjusting bolt so that the engine speed is in the range of 1000 ~1050 rpm, and lock the bolt with nut.



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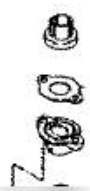
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6. Cooling Water Pump and Cooling Water Piping

1. Cooling water pump

a. Install the gasket and the outer plate in alignment with the positioning parallel pin (6 X 11) on the oil seal case.
b. Install the semi-circular key and the impeller. (Be careful of the orientation of the impeller blades when installing the impeller.)
c. Install the insert



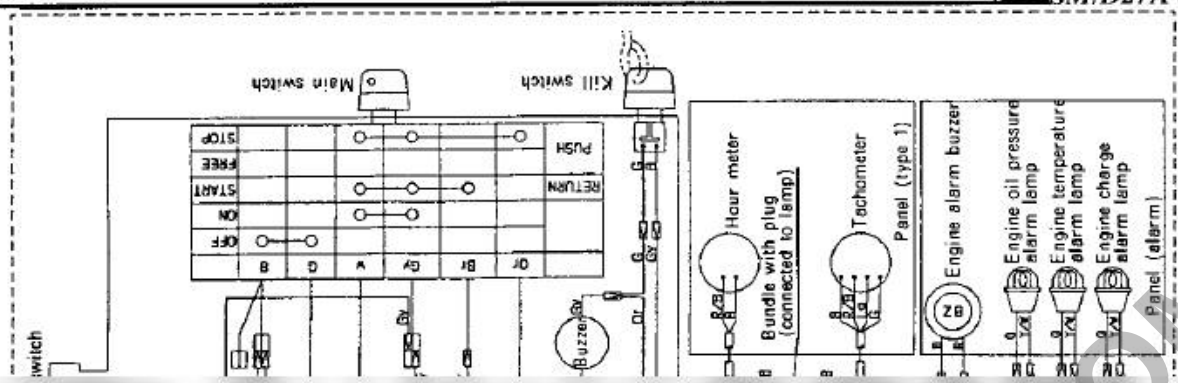


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