2.2 Engine Specifications

- **6LPA-DTP/-DTZP**

Engine model		6LPA-DTP	6LPA-DTZP
Type		Vertical water cooled 4-cycle diesel engine	
No. of clinders		6	
Bore × Stroke	mm	94×100	
Displacement	ℓ	4.164	
Fuel stop power at crankshaft	kw(hp)/rpm	*191 (260) / 3800 **182 (248) / 3800	

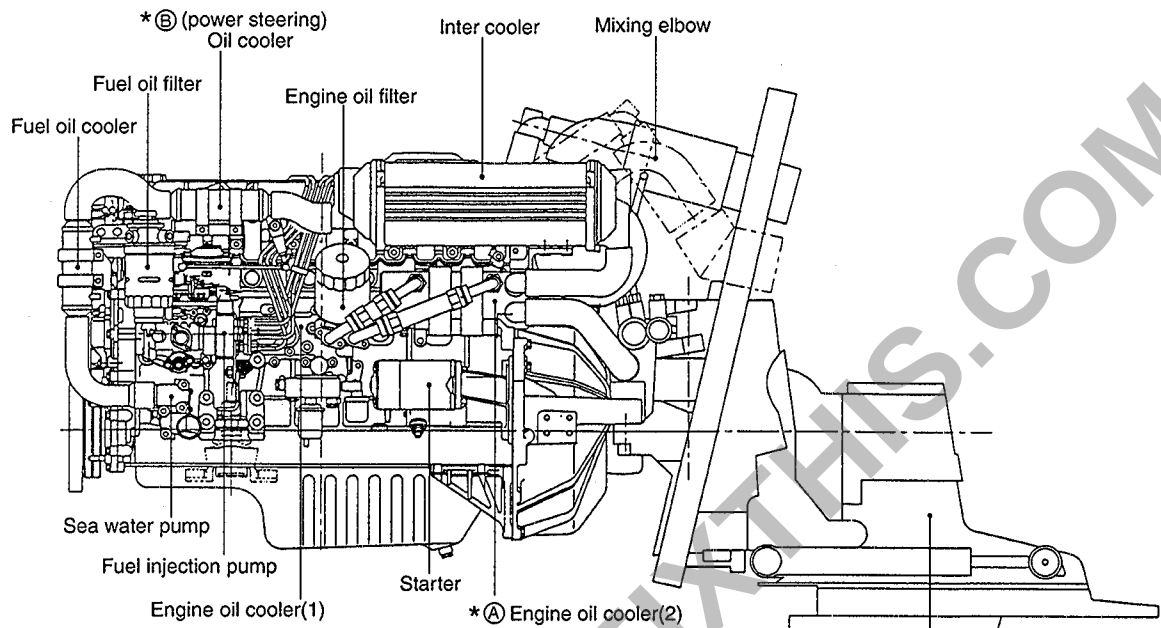
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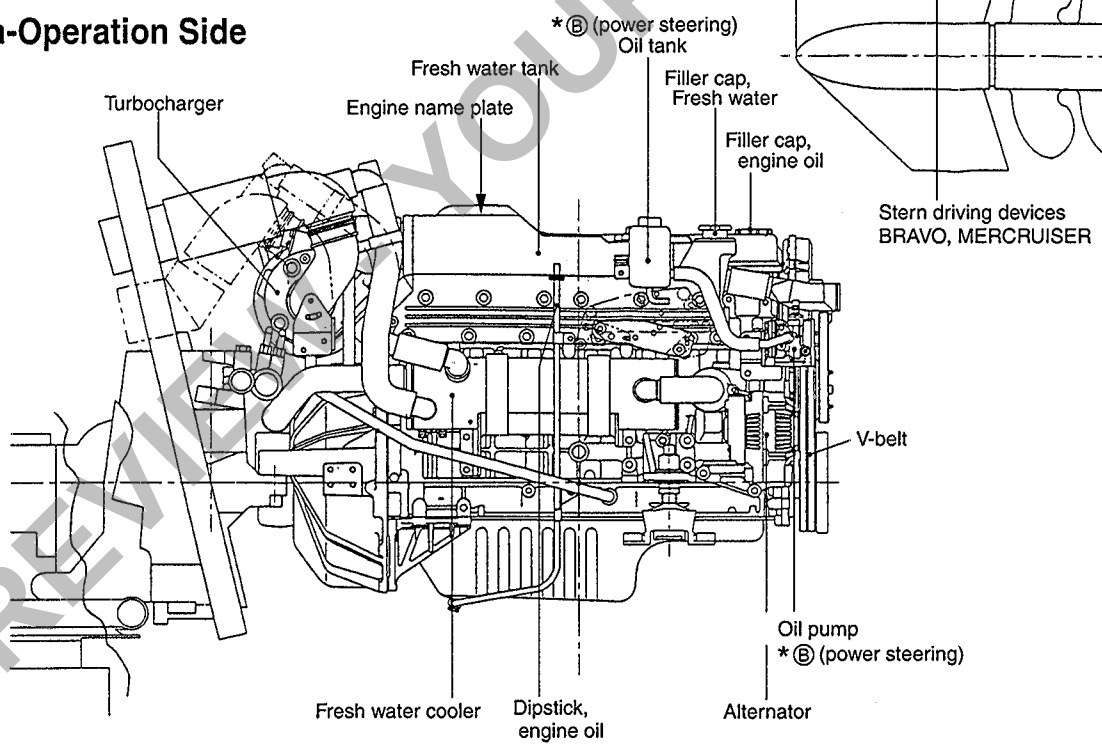
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2.3 Names of Parts

Operation Side (Left side as viewed from the propeller.)



Non-Operation Side



[NOTE]

This illustration shows the **6LPA-STZP** engine (stern driving device : **BRAVO, MERCRUISER**)

* Ⓐ (indicated) oil cooler (2) is part for the **6LPA-STP/-STZP** engines.

6LPA-DTP/-DTZP engines have engine oil cooler(1) only.

* Ⓑ (indicated) power-steering oil pump, oil tank, oil cooler are parts for the **6LPA-DTZP/-STZP** engines. **6LPA-DTP/-STP** engines do not have these.

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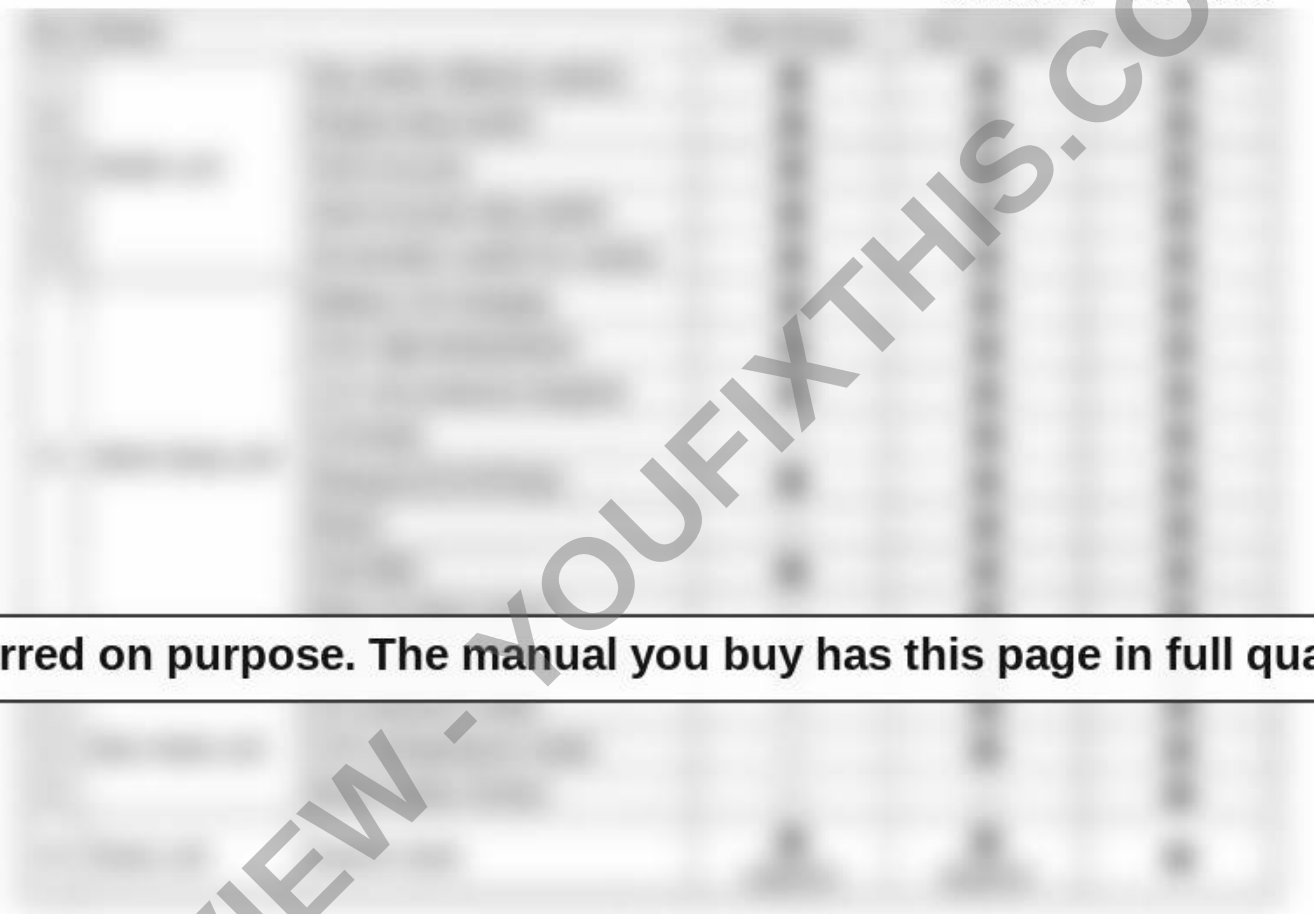
2.5 Control Equipment

The control equipment consists of the control panel and remote control handle, which are connected by the wires and cables to the control levers for remote control operation.

2.5.1 Control Panel (Optional)

The control panel has the following gauges and alarm devices (optional accessories):

● Available , — Not available





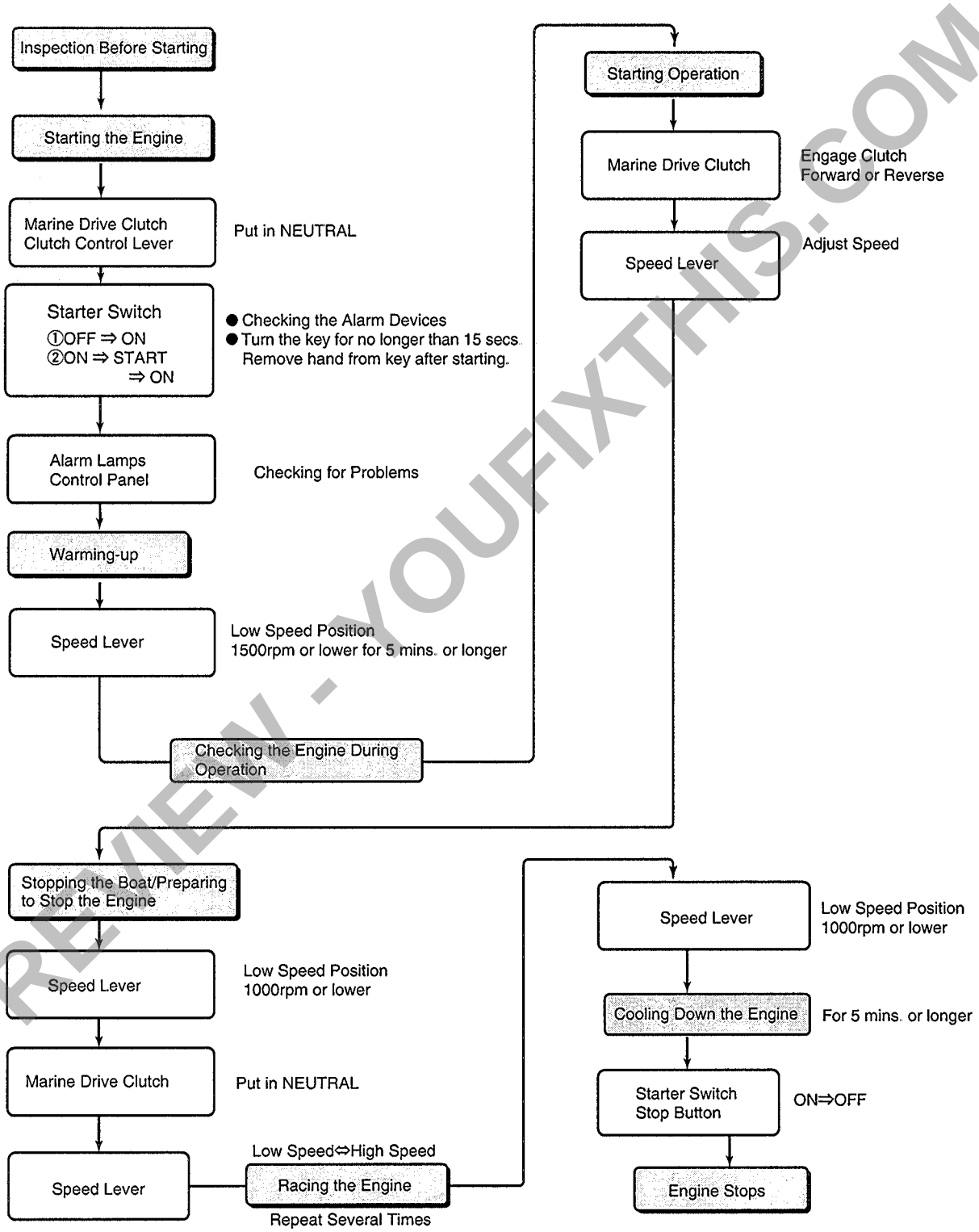
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4.8 Operation Procedure

The following diagram shows the procedures for operation explained up to this point.
Parts of the operation may differ depending on the marine drive and remote control system being used. Accompanying operation manuals should be read carefully and understood.



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5.1 Periodic Inspections

Daily and periodic inspection are important to keep the engine in its best condition. The following is a summary of inspection and servicing items by inspection interval. Periodic inspection intervals vary depending on the uses, loads, fuels and lube oils used and handling conditions, and are hard to establish definitively. The following should be treated only as a general standard.

[NOTICE]

Schedule your own periodic inspection plan according to the operational conditions of your engine and inspect every item. Neglecting periodic inspection leads to engine troubles and shortens the life of the engine.
Refer to the various accompanying operation manuals for periodic inspection and maintenance for marine drive and remote control system.

○: Check ◎: Replace ●: Consult nearest dealer

Item	Content	Daily	Interval term					
			Every 50hrs	Every 125hrs (6 mos.)	Every 250hrs (1 yr.)	Every 500hrs (2 yrs.)	Every 1,000hrs (4 yrs.)	Every 1,250hrs (5 yrs.)
Fuel oil	Check of fuel level	○						
	Drain fuel tank		○					
	Drain tfuel filter		○					
	Replace fuel filter element				◎			
Lube oil	Check oil level	○						
	Replace engine oil		1st time ◎	2nd time & after ◎				
	Replace oil filter element		1st time ◎	2nd time & after ◎				
	Wash engine oil cooler							●
Drive oil	Check drive oil	○	Refer to operation manual of marine drive.					
	Check power steering oil	○						
	Check power trim oil	○						
	Replace drive oil							
Fresh cooling water system	Check & supply of fresh water level	○						
	Replace the fresh cooling water				◎			
	Clean & check cooling water passage							●
Seawater cooling water system	Check seawater discharge	○						
	Check & replace impeller of seawater pump						●	
	Check & replace anti corrosive zincs				◎			
	Clean & check seawater passage							●
Piping	Check & replace fuel oil pipe, cooling water pipe	○				●		
	Check andr replace mixing elbow.	○				●		
Electrical equipment	Check alarm lamps & devices	○						
	Check & supply electrolyte in battery		○					
Belt	Alternator, V-belt					○		
	Replace timing belt							●
Remote control handle	Check remote control operation & grease	○						
	Adjusting the remote control cable				○			
Intake and exhaust system	Wash turbocharger blower				○			
	Adjust the intake and exhaust valve clearance				1st time ●		after ●	
	Lapping the intake and exhaust valve						●	
Fuel injection	Check & adjust the of fuel injection pressure & atomizing condition				1st time ●		after ●	
	Check & adjust of the fuel injection timing						●	

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6. TROUBLE AND TROUBLESHOOTING

6.1 Simple problems and the appropriate countermeasures

If you should encounter some difficulty during operation, refer to the following table for countermeasures.

Trouble	Probable Cause	Measure	Reference

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7. SYSTEM DIACGRAMS

7.1 Piping Diagram
Fuel Oil, Engine Lube Oil, Cooling Water System

7.1.1 Model 6LPA-DTP, 6LPA-STP



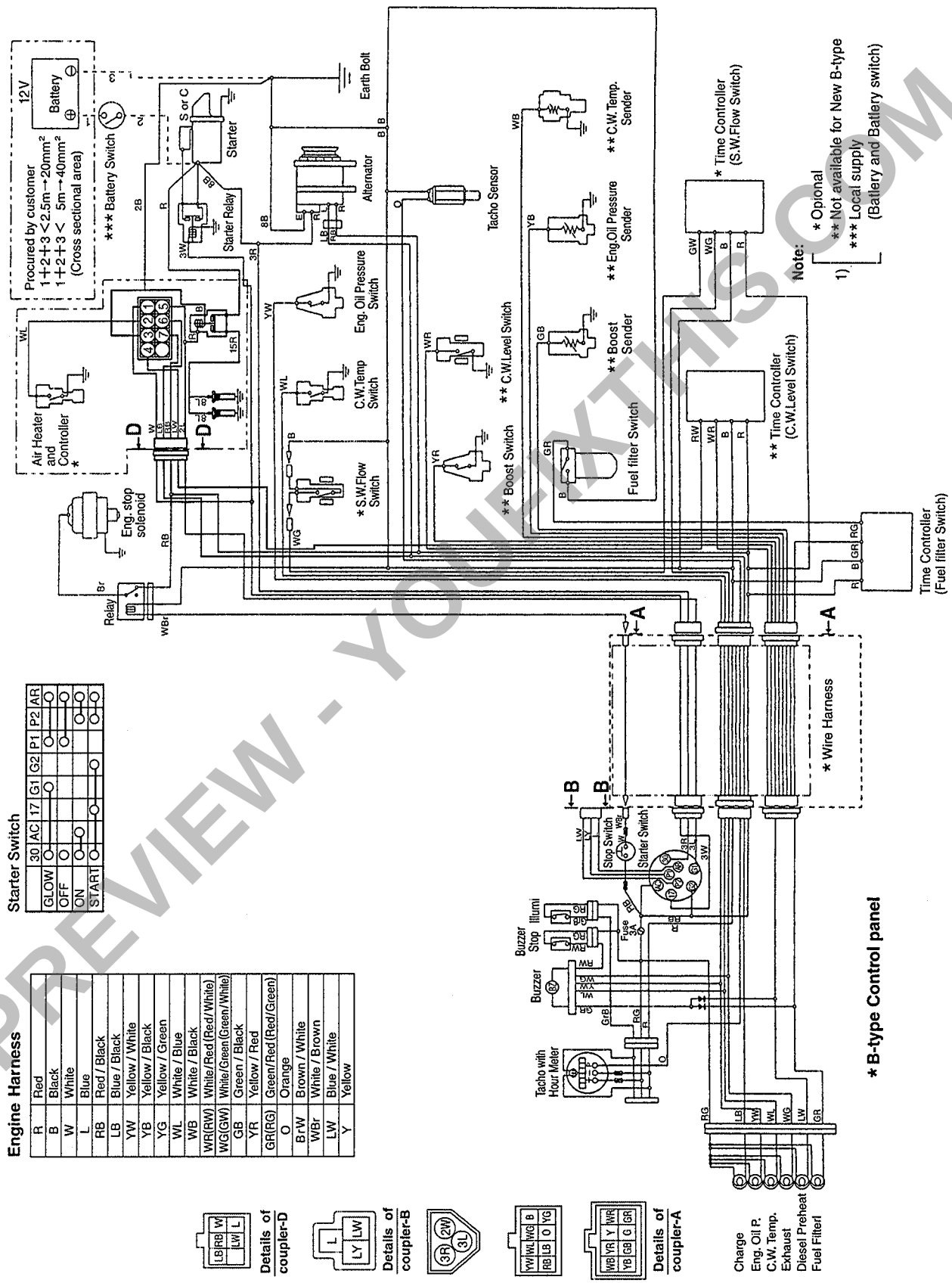
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7.2 Electric Wiring Diagram

7.2.1 For B-type Control Panel



Starter Switch

	30	AC	17	G1	G2	P1	P2	AR
GLOW	○			○		○		○
OFF	○						○	○
ON	○	○	○				○	○
START	○	○			○			○

Engine Harness

R	Red
B	Black
W	White
L	Blue
RB	Red / Black
LB	Blue / Black
YW	Yellow / White
YB	Yellow / Black
YG	Yellow / Green
WL	White / Blue
WB	White / Black
WR(RW)	White/Red (Red/White)
WG(GW)	White/Green (Green/White)
GB	Green / Black
YR	Yellow / Red
GR(RG)	Green/Red (Red/Green)
O	Orange
Br·W	Brown / White
WBr	White / Brown
LW	Blue / White
Y	Yellow

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