
CHAPTER 9

TROUBLE ANALYSIS

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TROUBLE ANALYSIS

NOTE:

The following items should be obtained before "trouble analysis".

1. Battery is charged and its specified gravity is in specification.
2. There is no incorrect wiring connection.
3. Wiring connections are surely engaged and without any rust.
4. Lanyard is installed to the engine stop switch.
5. Shift position is in neutral.
6. Fuel is coming to the carburetor.
7. Correct rigging and engine setting are obtained.
8. Engine is free from any "Hull problem".

TROUBLE ANALYSIS CHART

Trouble mode												Check elements	
ENGINE WILL NOT START	ROUGH IDLING	ENGINE STALLS	ENGINE WILL NOT STOP	POOR PERFORMANCE	OVERHEATING	LOOSE STEERING	LOOSE TILT HOLDING	TILT MOTOR WILL NOT RUN	HARD SHIFTING	IRREGULAR WARNING INDICATION	POOR BATTERY CHARGING	Relative part	Reference Chapter
												FUEL SYSTEM	
		○		○								Idle speed	3
○		○		○								Fuel hose	3
○		○		○								Fuel joint	4
○	○	○		○								Fuel filter	4
○		○		○								Fuel pump	4
○		○		○								Carburetor	4
		○		○	○							Pilot screw setting	4
												POWER UNIT	
	○			○	○							Link adjustment	3
○	○			○								Compression	5
○	○			○								Read valve	5
○	○											Cylinder head gasket	5
○				○								Cylinder block	5
○												Piston	5
○				○								Piston ring	5
○				○								Crank case	5
				○								Bearing	5
					○							Thermostat	5
					○							Water passage	5

Trouble mode												Check elements	
ENGINE WILL NOT START	ROUGH IDLING	ENGINE STALLS	ENGINE WILL NOT STOP	POOR PERFORMANCE	OVERHEATING	LOOSE STEERING	LOOSE TILT HOLDING	TILT MOTOR WILL NOT RUN	HARD SHIFTING	IRREGULAR WARNING INDICATION	POOR BATTERY CHARGING	Relative part	Reference Chapter
												LOWER UNIT	
☐									☐			Neutral position	6
☐									☐			Clutch	6
☐									☐			Gear	6
				☐	☐							Water inlet	6
				☐	☐							Water pump	6
				☐								Propeller shaft	6
									☐			Shift rod	6
									☐			Shift slider	6
									☐			Shift cam	6
									☐			Lower case	6
				☐								Shim adjustment	6
												BRACKET UNIT	
						☐						Bracket	7
						☐						Mount rubber	7
									☐			Shift actuator	7
												PTT UNIT	
							☐					Fluid level	7
							☐					Relief valve	7
							☐					Fluid passage	3
								☐				PTT motor	7
								☐				PTT control system	7
												ELECTRICAL	
☐				☐								Pulser coil	8
☐				☐								Charge coil	8
											☐	Lighting coil	8
☐	☐	☐		☐								Ignition coil	8
☐	☐			☐								Spark plug cap	8
	☐	☐	☐	☐	☐					☐		CDI unit	8
				☐								Crank position sensor	8
☐												Starter relay	8
							☐					Power trim and tilt relay	8
							☐					Trailer switch	8
											☐	Rectifier/regulator	8

Trouble mode												Check elements	
ENGINE WILL NOT START	ROUGH IDLING	ENGINE STALLS	ENGINE WILL NOT STOP	POOR PERFORMANCE	OVERHEATING	LOOSE STEERING	LOOSE TILT HOLDING	TILT MOTOR WILL NOT RUN	HARD SHIFTING	IRREGULAR WARNING INDICATION	POOR BATTERY CHARGING	Relative part	Reference Chapter
☐				☐	☐		☐				☐	Fuse	8
				☐	☐					☐		Thermo switch	8
				☐						☐		Oil level sensor	8
										☐		Oil level warning lamp	8
☐								☐		☐	☐	Wire harness	8
☐								☐			☐	Battery	3
			☐									Engine stop switch	8
☐			☐									Main switch	8
☐												Neutral switch	8
☐												Starter motor	8



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