



**GENERAL SPECIFICATIONS**

Item	Unit		Model						
			Worldwide	200HETO	225FETO	L225FETO	225GETO	250BETO	L250BETO
			USA	V200TR	S225TR	L225TR	V225TR	S250TR	L250TR
			Canada	—	S225TR	—	—	S250TR	—
<b>DIMENSION</b>									
Overall length	mm (in)	864 (34.0)	854 (33.6)		864 (34.0)	854 (33.6)			
Overall width	mm (in)	562 (22.1)							
Overall height									
(L)	mm (in)	1,685 (66.3)	—		1,685 (66.3)	—			
(X)	mm (in)	—	1,785 (70.3)		—	1,785 (70.3)			
(U)	mm (in)	—	1,912 (75.3)		—	1,912 (75.3)			
Boat transom height									
(L)	mm (in)	508 (20.0)	—		508 (20.0)	—			
(X)	mm (in)	—	635 (25.0)		—	635 (25.0)			
(U)	mm (in)	—	762 (30.0)		—	762 (30.0)			
<b>WEIGHT</b>									
(with stainless steel propeller)									
(L)	kg (lb)	235.5 (519)	—	—	235.5 (519)	—	—		
(X)	kg (lb)	—	237 (523)	239 (538)	—	237 (523)	239 (538)		
(U)	kg (lb)	—	242 (534)	244 (539)	—	242 (534)	244 (539)		
<b>PERFORMANCE</b>									
Maximum output	kW (hp) @ 5,000 r/min	147.1 (200)	165.5 (225)			183.9 (250)			
Full throttle operating range	r/min	4,500 - 5,500							
Maximum fuel consumption	L (US gal, Imp gal)/hr @ 5,500 r/min	100 (26.4, 22.0)	94 (24.8, 20.7)		107 (28.3, 23.5)				
<b>POWER UNIT</b>									
Type		2 stroke - V							
Number of cylinders		6							
Displacement	cm <sup>3</sup> (cu. in)	3,130 (191.0)							
Bore x stroke	mm (in)	90.0 x 82.0 (3.54 x 3.23)							
Compression ratio		Cylinders #1 - #4: 5.4 Cylinders #5 - #6: 5.2	Cylinders #1 - #4: 6.0 Cylinders #5 - #6: 5.8		Cylinders #1 - #4: 5.9 Cylinders #5 - #6: 5.7				
Fuel system		Electronic fuel injection							
Fuel injection system		Sequential injection							
Intake system		Reed valve							
Induction system		Loop charge							
Starting system		Electric							
Ignition control system		Microcomputer (CDI)							
Alternator output		12 - 35A							
Spark plugs (NGK)		BR8HS-10	BR9HS-10						

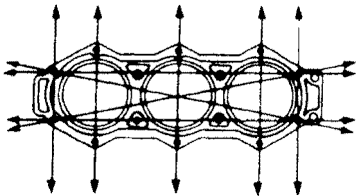
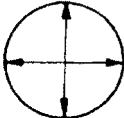
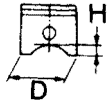

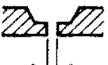

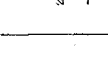
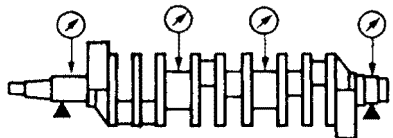


Item	Worldwide		Unit	Model						
	USA			200HETO	225FETO	L225FETO	225GETO	250BETO	L250BETO	
	Canada			V200TR	S225TR	L225TR	V225TR	S250TR	L250TR	
Cooling system				Water						
Exhaust system				Through prop boss						
Lubrication system				Oil injection						
<b>FUEL AND OIL</b>										
Fuel type				Unleaded regular gasoline						
Fuel rating			*PON	86						
			RON	91						
Engine oil type				2-stroke outboard engine oil						
Engine oil grade				TC-W3						
Engine oil capacity (engine oil tank)			L (US qt, Imp qt)	1.2 (1.27, 1.06)						
(sub-oil tank)			L (US qt, Imp qt)	10.5 (11.1, 9.2)						
Gear oil type				Hypoid gear oil SAE 90						
Gear oil total quantity			cm <sup>3</sup> (US oz, Imp oz)	1,150 (38.9, 40.5)	1,000 (33.8, 35.2)	1,150 (38.9, 40.5)	1,000 (33.8, 35.2)			
<b>BRACKET</b>										
Trim angle (at 12° boat transom)			Degree	-4 - 16	-3 - 16		-4 - 16	-3 - 16		
Tilt-up angle			Degree	70						
Steering angle			Degree	35 + 35						
<b>DRIVE UNIT</b>										
Gear shift positions				F-N-R						
Gear ratio				1.81 (29/16)						
Reduction gear type				Spiral bevel gear						
Clutch type				Dog clutch						
Propeller shaft type				Spline						
Propeller direction (rear view)				Clockwise		Counter-clockwise		Clockwise		Counter-clockwise
Propeller mark				M	T/M	TL/ML	M	T/M	TL/ML	
<b>ELECTRICAL</b>										
Battery capacity			Ah (kC)	100 (360)						
Minimum cold cranking performance			A	512						



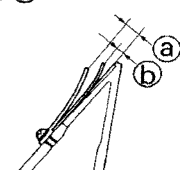
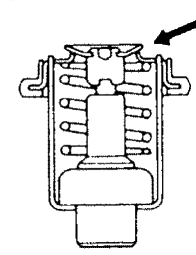
\* PON: Pump Octane Number  
 RON: Research Octane Number



**MAINTENANCE SPECIFICATIONS  
POWER UNIT**

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V200TR	S225TR	L225TR	V225TR	S250TR	L250TR							
—	S225TR	—	—	S250TR	—							
<b>CYLINDER HEADS</b>												
Warpage limit			mm (in)	0.1 (0.004)								
 <p>(lines indicate straightedge position)</p>												
<b>CYLINDERS</b>												
Bore size			mm (in)	90.00 - 90.02 (3.543 - 3.544)								
Wear limit			mm (in)	90.1 (3.55)								
Taper limit			mm (in)	0.08 (0.003)								
Out-of-round limit			mm (in)	0.05 (0.002)								
<b>PISTONS</b>												
Piston diameter (D)			mm (in)	89.840 - 89.860 (3.5370 - 3.5378)								
Measuring point (H)			mm (in)	10 (0.4)								
Piston-to-cylinder clearance			mm (in)	0.155 - 0.161 (0.0061 - 0.0063)								
<Limit>			mm (in)	0.201 (0.0079)								
Oversize piston diameter			mm (in)									
1st			mm (in)	90.15 (3.549)								
2nd			mm (in)	90.40 (3.559)								
<b>PISTON RINGS</b>												
Type (B)			mm (in)	Keystone 2.0 (0.079)								
(T)			mm (in)	2.8 (0.110)								
End gap (installed)			mm (in)	0.30 - 0.40 (0.012 - 0.016)								
<Limit>			mm (in)	0.60 (0.024)								
Side clearance			mm (in)	0.02 - 0.06 (0.001 - 0.002)								
<b>CRANKSHAFT</b>												
Runout limit			mm (in)	0.05 (0.002)								
												



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—	S225TR	—	—	S250TR	—							
<b>CONNECTING RODS</b>												
Small-end axial play limit (F)		mm (in)	2.0 (0.08)									
Big-end side clearance (E)		mm (in)	0.12 - 0.26 (0.005 - 0.010)									
<b>OIL INJECTION PUMP</b>												
ID mark			65L00									
Oil discharge (for 3 minutes)		cm <sup>3</sup> (US oz, Imp oz) @ 1,500 r/min	39.6 ± 7.8 (1.339 ± 0.264, 1.397 ± 0.275)									
Bleeding			Screw type									
<b>REED VALVES</b>												
Reed valve stopper height (a)		mm (in)	9.0 ± 0.3 (0.35 ± 0.01)	7.9 ± 0.3 (0.31 ± 0.01)	9.0 ± 0.3 (0.35 ± 0.01)							
Warpage limit (b)		mm (in)	0.2 (0.008)									
<b>THERMOSTATS</b>												
Opening temperature		°C (°F)	48 - 52 (118 - 126)									
Full-open temperature		°C (°F)	60 (140)									
Valve open lower limit		mm (in)	3 (0.12)									
<b>ENGINE SPEED</b>												
Idling speed		r/min	730 ± 30									