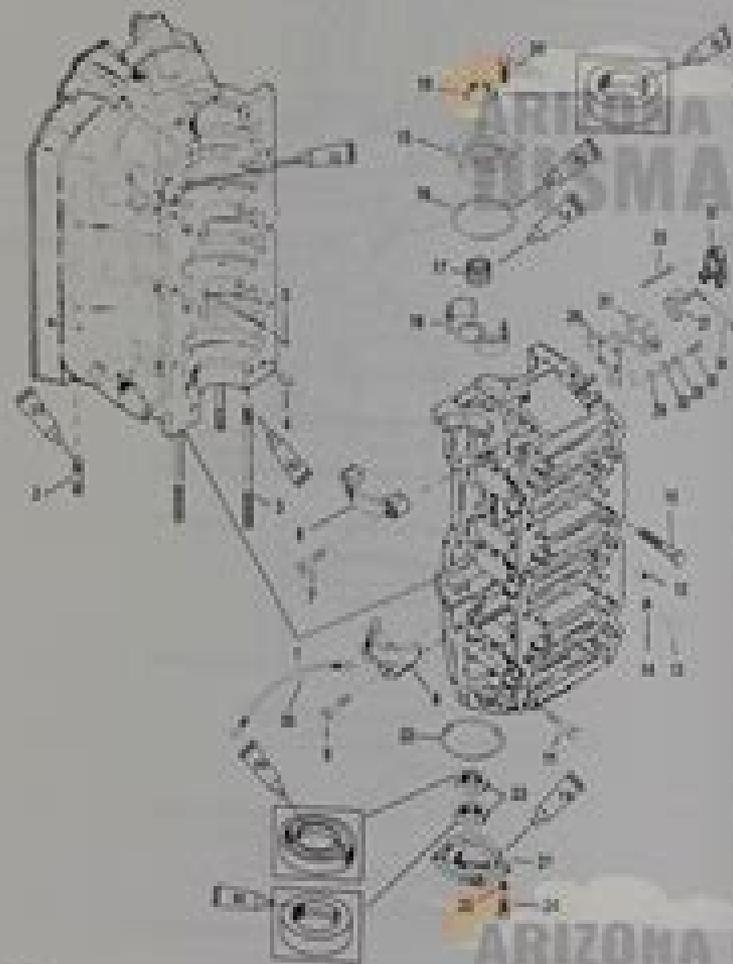


# Cylinder Block and End Caps



- [1] Lower Piston Pin Bracket (01-00000)
- [2] Lower Motor Case (01-0204-01)
- [3] 2-Cycle Outboard Oil (01-00000000)

- [4] Lower Oil Seal (01-00000)
- [5] 1/4" x 1/2" Hex Bolt (01-00000)

# Cylinder Block and End Caps

QTY	DESCRIPTION	TORQUE		
		IN-LB	FT-LB	IN-FT
1	CYLINDER BLOCK ASSEMBLY			
2	STUD (01-00000) (1/4" x 1/2")			
2	STUD (01-00000) (1/4" x 1/2")			
2	STUD (01-00000) (1/4" x 1/2")			
1	COVER (FRONT)			
1	COVER (REAR)			
1	COVER (TOP)			
1	SCREW			
1	COVER (BOTTOM)			
1	SCREW			
1	SCREW (01-14 x 1/4")	27	0.1	
1	SCREW (01-14 x 1/4")	17	0.0	
1	SCREW (01-14 x 1/4")	17	0.0	
1	CAP			
1	ADJUSTING SCREW (1/4" x 1/4")			
1	WASHER			
1	LOWER END CAP			
1	WASHER			
1	ROLLER BEARING			
1	BEARING RACE			
1	OIL SEAL			
1	SCREW (01-14 x 1/4")	20	0.1	0.0
1	LOWER END CAP			
1	WASHER (01-14 x 1/4")			
1	OIL SEAL			
1	SCREW (1/4" x 1/4")	20	0.1	0.0
1	LOCKWASHER			
1	BRACKET			
1	THROTTLE			
1	SCREW (Bracket to Crankcase)	15	0.0	
1	WASHER			
1	SPACER			
1	THROTTLE POSITION (BRACKET)			
1	THE COVER			
1	SCREW (THE COVER) (1/4" x 1/4")	15	0.1	
1	THROTTLE LINK			
1	BATTERY CABLE (NEGATIVE)			

# Service Manual Johnson 150 Hp Optimax

**D Kirk**



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