

Evinrude & Johnson 28 (1987-1989), 30 & 35 HP (1976-1989)
OUTBOARD MOTOR

Year Produced	28 HP	30 HP	35 HP	Year Produced	28 HP	30 HP	35 HP
		E30TECC*, E30BALCC, E30TELCC*				J30BACC, J30TECC*, J30BALCC, J30TELCC*	
1989.....	E28ESLCE*	E30RCE, E30ECE*, E30RLCE, E30ELCE*, E30BACE, E30TECE*, E30BALCE, E30TELCE*		1989.....	J28ESLCE*	J30RCE, J30ECE*, J30RLCE, J30ELCE*, J30BACE, J30TECE*, J30BALCE, J30TELCE*	

*Electric start models.

CONDENSED SERVICE DATA

TUNE-UP

Hp/rpm	28/5000 30/5500 35/5200-5800
Bore	3.000 in. (76.20 mm)
Stroke	2.250 in. (57.15 mm)
Number of Cylinders	2
Spark Plug—Champion:	
1976	UL81J
Electrode Gap	0.030 in. (0.76 mm)
1977-1985	QL77J4*
Electrode Gap	0.040 in. (1.0 mm)
1986-1989	QL77JC4*
Electrode Gap	0.040 in. (1.0 mm)
Ignition Type:	
1976	Breaker Point
Breaker Point Gap	0.020 in. (0.51 mm)
1977-1989	CDI
Carburetor Make	OMC
Idle Speed (in gear):	
Prior to 1986	650 rpm
After 1985	650-700 rpm
Fuel:Oil Ratio	See Text

*Champion QL78V spark plugs are recommended 1985 and later models when operated at sustained high speeds. Renew surface gap spark plug if center electrode is more than $\frac{1}{32}$ inch (0.79 mm) below flat surface of the plug end.

SIZES—CLEARANCES

Piston Ring End Gap	0.007-0.017 in. (0.18-0.43 mm)
Lower Piston Ring Side Clearance:	
1976-1984	0.0015-0.0040 in. (0.038-0.102 mm)
1985-1989	0.004 in. Max. (0.102 mm)

SIZES—CLEARANCES CONT.

Piston Skirt Clearance:	
1976-1978	0.0030-0.0050 in. (0.076-0.127 mm)
1979-1982	0.0035-0.0065 in. (0.089-0.165 mm)
1983-1984	0.0024-0.0044 in. (0.061-0.118 mm)
1985-1989	See Text
Standard Cylinder Bore Diameter	2.9995-3.0005 in. (76.187-76.213 mm)
Max. Allowable Out-of-Round	0.003 in. (0.08 mm)
Max. Allowable Taper	0.002 in. (0.05 mm)
Crankshaft Journal Diameters—	
Top Main:	
1969-1976	0.9995-1.0000 in. (25.387-25.400 mm)
1977	1.2495-1.2500 in. (31.737-31.750 mm)
1978-1989	1.2510-1.2515 in. (31.775-31.788 mm)
Center Main:	
1969-1977	0.9995-1.0000 in. (25.387-25.400 mm)
1978-1982	1.1805-1.1810 in. (29.985-29.997 mm)
1983-1989	1.1833-1.1838 in. (30.056-30.068 mm)
Bottom Main:	
1969-1976	0.9995-1.0000 in. (25.387-25.400 mm)
1977-1989	0.9842-0.9846 in. (24.999-25.009 mm)
Crankpin	1.1823-1.1828 in. (30.030-30.043 mm)
Crankshaft End Play:	
1969-1976	0.009-0.023 in. (0.23-0.58 mm)
1977-1978	0.003-0.011 in. (0.08-0.28 mm)
1979-1984	0.000-0.025 in. (0.00-0.63 mm)