

COMMON SPECIFICATIONS FOR INTEK V-TWIN OHV ENGINES

MODEL SERIES	BORE	STROKE	DISPLACEMENT
405777.....	2.970" (75.44mm).....	2.890" (73.40mm).....	40.0 cu. In. (656cc)
445777.....	3.120" (79.25mm).....	2.890" (73.40mm).....	44.2 cu. In. (724cc)

Armature Air Gap.....	.008"-.012" (0.20 - 0.30mm)
Crankshaft End Play.....	.002"-.030" (0.05 - 0.76mm)
**Governed Idle Speed (all models).....	1750RPM
Spark Plug Gap.....	.030" (0.76mm)
Valve Clearance (Cold)-Int.-Exh.....	.004"-.006" (0.10 - 0.15mm)
**Top Governed Speed: See B&S Sales Manual MS-4052	

STANDARD AND REJECT DIMENSIONS

Description	Standard Dimensions	Reject Dimensions
Cylinder		
Bore		
Model 405777.....	2.969"-2.970" (75.41-75.44mm)..	2.973" (75.51mm)
Model 445777.....	3.119"-3.120" (79.22-79.25mm)..	3.1235" (79.33mm)
Out of round - All:.....		.0015" (0.04mm)
Main Bearing MAG...	1.379"-1.3805" (35.02-35.06mm).	1.383" (35.12mm)
Cam Bearing MAG...	.6255"-.626" (15.88-15.90mm)...	.6275" (15.93mm)
Cylinder Head		
Valve Guide.....	.2374"-.2383" (6.03-6.05mm).....	.240" (6.09mm)
Valve Stem.....	.2345"-.235" (5.97-5.98mm).....	.233" (5.92mm)
Sump		
Main Bearing PTO....	1.6268"-1.6275" (41.32-41.34mm)	1.629" (41.37mm)
Cam Bearing PTO....	.6255"-.626" (15.88-15.90mm)....	.6275" (15.93mm)
Crankshaft		
Crankpin.....	1.4982"-1.499" (38.05-38.07mm)	1.4965" (38.01mm)
Magneto Journal.....	1.3776"-1.3784" (34.99-35.01mm)	1.376" (34.95mm)
PTO Journal.....	1.6241"-1.6249" (41.25-41.27mm)	1.623" (41.22mm)
Cam Shaft		
Journals.....	.624"-.625" (15.85-15.87mm).....	.623" (15.82mm)
Lobes		
Intake.....	1.228"-1.231" (31.19-31.26mm)..	1.225" (31.15mm)
Exhaust.....	1.226"-1.229" (31.14-31.21mm)..	1.223" (31.06mm)
Connecting Rod		
Crankpin Bearing.....	1.500"-1.5006" (38.10-38.11mm)	.15015" (38.13mm)
Piston Pin Bearing....	.6727"-.673" (17.08-17.09mm)...	.6745" (17.13mm)
Piston Pin.....	.6721"-.6726" (17.07-17.08mm)..	.6718" (17.06mm)
Piston Pin Bearing (Piston)....	.673"-.6735" (17.09-17.10mm)....	.6745" (17.13mm)
Piston Ring		
Ring End Gap -Top....	.005"-.013" (0.13-0.33mm).....	.030" (0.76mm)
Center.	.014"-.022" (0.35-0.56mm).....	.030" (0.76mm)
Oil....	.005"-.017" (0.13-0.43mm).....	.030" (0.76mm)
Ring Side Clearance	.002"-.003" (0.05-0.07mm).....	.005" (0.12mm)

FASTENER SPECIFICATIONS

DESCRIPTION	WRENCH/SOCKET SIZE	TORQUE
Alternator.....	1/4".....	20 in. Lbs. (2.2Nm)
Armature.....	5/16".....	25 in. Lbs. (2.8Nm)
Back Plate (to cylinder).....	3/8".....	100 in. Lbs. (11.2Nm)
Blower Housing.....	3/8".....	80 in. Lbs. (9.0Nm)
Breather.....	3/8".....	55 in. Lbs. (6.2Nm)
Carburetor (to manifold).....	E-5.....	65 in. Lbs. (7.4Nm)
Connecting Rod.....	5/16".....	100 in. Lbs. (11.2Nm)
Cylinder Shield.....	3/8".....	80 in. Lbs. (9.0Nm)
	5/16".....	45 in. Lbs. (5.0Nm)
Exhaust Manifold.....	1/2".....	140 in. Lbs. (16.0Nm)
Fan Retainer.....	1/2".....	140 in. Lbs. (16.0Nm)
Fuel Pump (to bracket).....	3/8".....	80 in. Lbs. (9.0Nm)
Fuel Pump Bracket (to cyl. Shield)	3/8".....	80 in. Lbs. (9.0Nm)
Flywheel	1-1/4".....	150 in. Lbs. (203Nm)
Governor Control Bracket.....	3/8".....	80 in. Lbs. (9.0Nm)
Governor Nut.....	7/16".....	130 in. Lbs. (14.6Nm)
Head Bolts.....	1/2".....	220 in. Lbs. (25.0Nm)
Intake Air Horn.....	7/16".....	45 in. Lbs. (5.0Nm)
Intake Manifold (to cyl. Head)....	3/8" (T-30).....	80 in. Lbs. (9.0Nm)
Oil Drain Plug.....	3/8" Square Drive (internal).....	125 in. Lbs. (14.0Nm)
Oil Pump Cover.....	T-30.....	50 in. Lbs. (5.6Nm)
Rocker Arm.....	8mm.....	100 in. Lbs. (11.2Nm)
Rocker Arm Lock Nut.....	13mm.....	60 in. Lbs. (6.6Nm)
Rocker Arm Adjustment Screw..	T-40	
Rotating Screen.....	5/16".....	20 in. Lbs. (2.2Nm)
Spark Plugs.....	5/8" mm Deep.....	180 in. Lbs. (20.0Nm)
Starter Motor.....	1/2" (T-40).....	140 in. Lbs. (15.8Nm)
Starter Thru Bolts.....	5/16".....	50 in. Lbs. (5.6Nm)
Sump.....	1/2".....	200 in. Lbs. (22.6Nm)
Valley Cover.....	5/16".....	45 in. Lbs. (5.0Nm)
Valve Cover.....	3/8".....	100 in. Lbs. (11.2Nm)