

*See manual for installation procedure

Description		Notes
CONNECTING RODS		INITIAL 33 LB.FT FINAL 50 LB.FT
MAIN BEARINGS	INITIAL SECOND FINAL	90 LB.FT 120 LB.FT 170 LB.FT
CYLINDER HEAD BOLTS	M14 X 193	65 LB.FT 85 LB.FT 90 DEGREES 90 DEGREES 90 DGREES
	M8 X 70	18 LB.FT 23 LB.FT
CCYLINDER HEAD AND VALVE TRAIN		
LIFTING EYE M10 X 30	FRONT	30 LB.FT
M10 X 35	REAR	30 LB.FT
CRANKASE BREATHER NUTS		60 LB.IN
FUEL INJECTOR HOLD DOWN CLAMP		24 LB.FT
GLOW PLUGS		168 LB.IN
ICP SENSOR		18 LB.IN
OIL RAIL ASSEMBLY MOUNTING BOLTS M6 X 25		120 LB.IN
CRANKASE TO HEAD TUBE ASSEMBLY		60 LB.FT
VALVE COVER BOLTS AND STUDS		78 LB.IN
OIL FILL EXTENSION		132 LB.IN
REAR HEAT SHEILD		38 LB.FT
OIL PUMP, COVER , IPR ,HEAT SHIELDS		
HIGH PREASURE OIL PUMP COVER BOLTS		120 LB.IN
BRANCH TUBE ADAPTER BOLTS M6 X 25		120 LB.IN
INJECTION PRESSURE REGULATOR		38 LB.FT
VIBRATION DAMPER , G ROTOR PUMP		
OIL DRAIN PLUG		20 LB.FT
FRONT COVER MODULE BOLTS		18 LB.FT
WATER PUMP MOUNTING BOLTS		17 LB.FT
VIBRATION DAMPER MOUNTING BOLTS		50 LB.FT PLUS 90 DEGREES
VGT BOLTS AND CLAMPS		
AIR INLET DUCT HOSE CLAMP		36-48 LB.IN
VGT TO MOUNTING BRACKET BOLTS		24 LB.FT
VGT EXHAUST ADAPTER V-CLAMP		108 LB.IN
MANIFOLDS AND EXHAUST GAS RECIRC		
INTAKE MANIFOLD	M6 X 95 FLANGE BOLTS	101 LB.IN
INTAKE HEAT SHIELD M6 NUT		110 LB.IN
EXHAUST MANIFOLD FLANGE BOLTS / APPLY ANTI SEIZE		30 LB.FT
EBP TUBE ASSEMBLY		22 LB.IN

EBP TUBE CONNECTOR		128 LB.IN
SHIELDED EXHAUST TUBE TO EXHAUST MANIFOLD (LEFT SIDE)		22 LB.FT
SHIELDED TUBE EXHAUST TO RIGHT		22 LB.FT
EXHAUST TUBE TO EXHAUST MANIFOLD (RIGHT SIDE)		22 LB.FT
VGT EXHAUST ADAPTER V -CLAMP		108 LB.FT
EGR COOLER V CLAMP		48 LB.IN
FLYWHEEL MOUNTING BOLTS M10 X 77 NEW BOLTS		69 LB.FT
FLEXPLATE MOUNTING BOLTS M10 X 70 NEW BOLTS		69 LB.FT
POWER STEERING PUMP OUTLET PIPE FITTING		35 LB.FT
POWER STEERING PUMP INLET PIPE FITTING		70 LB.FT
CYLINDER HEAD AND VALVE TRAIN		
M14 X 193 BOLTS	ONE THRU 10 1,3,5,7 AND 9	65 LB.FT 85 LB.FT 90 DEGREES 90 DEGREES 90 DEGREES
LIFTING EYE 9M10 X 30		30 LB.FT ± 3
CRANCASE BREATHER NUTS		60 LB.IN
FUEL INJECTOR HOLD DOWN		24 LB.FT
ROCKER ARM FULCRUM PLATE M8 X 65		23 LB.FT
GLOW PLUGS		168 LB.IN
ICP SENSOR		108± 18 LB.IN
OIL RAIL ASSEMBLY MOUNTING BOLTS		120 LB.FT
CRANKCASE - TO HEAD TUBE ASSEMBLY		60 LB.FT
VALVE COVER BOLTS AND STUDS		72 ± 12 LB.IN
OIL FILL EXTENSION		120 - 132 LB.IN
REAR HEAT SHIELD M10 X 16		36 ± 4 LB.FT
OIL COOLER AND OIL FILTER		
EGR COOLER SUPPLY PORT COVER M6		94 LB.IN
OIL COOLER MOUNTING BOLTS	M6 X 23	94 LB.IN
OIL COOLER COVER MOUNTING BOLTS M8 X 23		17 LB.FT
OIL FILTER HOUSING MOUNTING		17 LB.FT
OIL FILTER RETURN TUBE BOLT		50 LB.IN
		23 LB.FT
OIL FILTER CAP		18 LB.FT
BRANCH TUBE ASSEMBLY		
BOLTS FOR BRANCH TUBE MOUNTING BLOCKS		115 LB.FT
BOLTS FOR BRANCH TUBE ADAPTER		115 LB.IN
STC FITTING		40 LB.FT
BOLTS FOR HEAT SHEILD (M10 X 12)		115 LB.IN
BOLTS FOR HEAT SHEILD (M10 X 16)		45 LB.FT

V-CLAMP FOR SHEILDED EXHAUST TUBE	106 LB.IN
V CLAMP FOR SHEILDED EXHAUST TUBE	106 LB.IN
BOLTS FOR EXHAUST TUBE / SHIELDED	22 LB.FT
BOLTS FOR REAR ENGINE MOUNTS	80 LB.FT
NUT FOR BOLT THROUGH REAR ENGINE MOUNT	230 LB.FT
BOLTS FOR STARTER MOTOR M12 X 40	40 LB.FT
TURBOCHARGER EXHAUST CLAMP DOWN PIPE	5 LB.FT
BOLTS FOR ALTERNATOR AND A/C BRACKET M10	53 LB.FT
BOLTS FOR AIR COMPRESSOR BRACKET (M10 X 100)	53 LB.FT

OIL PUMP,COVER,IPR AND HEAT SHIELDS

HIGH PRESSURE OIL PUMP COVER BOLTS	120 LB.FT
BRANCH TUBE ADAPTER BOLTS	120 LB.FT
INJECTION PRESSURE REGULATOR	120 LB.FT
REAR EXHAUST HEAT SHIELD M6 X 12	115 LB.FT
REAR HEAT SHIELD (M10 X 16)	38 LB.FT