

*See manual for installation procedure

Description	Notes
FUEL AND HIGH PRESSURE OIL SYSTEM	
ADAPTER ELBOW JAM NUT , 70 AND 90 DEGREE	78 LB.FT
ELECTRIC FUEL PUMP ASSEMBLY , M5 X 25 SCREW	44 LB.IN
DIAGNOSTIC COUPLING ASSEMBLY	145 LB.IN
FUEL DELIVERY PRESSURE (FDP) SENSOR	100 LB.IN
FUEL FILTER CAP	29 LB.FT
FUEL FILTER ASSEMBLY HOUSING BOLTS AND STUD BOLTS , M8 X 75	20 LB.FT
250 WATT FUEL HEATER BOLTS , M6 X 25	85 LB.IN
FUEL FILTER INLET FITTING	155 LB.IN
FUEL PRESSURE REGULATOR VALVE COVER PLATE M6 SCREW	
HIGH PRESSURE OIL HOSE (SWIVEL HOSE)	48 LB.FT
HIGH PRESSURE OIL PUMP ASSEMBLY BOLTS M8 X 30 AND 100	22 LB.FT
HIGH PRESSURE OIL PUMP GEAR BOLT	179 LB.FT
INJECTOR HOLD DOWN CLAMP BOLT	30 LB.FT
INJECTOR OIL INLET ADAPTER ASSEMBLY	150 LB.FT
IPR VALVE	37 LB.FT
M12 FUEL RAIL PLUG	18 LB.FT
OIL RAIL PLUG ASSEMBLY (BOTTOM)	150 LB.FT
PLUG ASSEMBLY, M10 AND M12	108 LB.IN
PORT COVER M6 SCREWS	85 LB.IN
PUMP COVER SCREWS M5 X 25	45 LB.IN
RAIL END PLUG ASSEMBLY	150 LB.FT
VOSS STOP FLOW ADAPTER ASSEMBLY	20 LB.FT
WATER DRAIN VALVE ASSEMBLY M5 SCREWS	50 LB.IN
DSI AND RELATED COMPONENTS	
90 DEGREE ELBOW TUBE FITTING	15 LB.FT
90 DEGREE M12 TUBE FITTING ELBOW	26 LB.FT
COOLANT LINE TUBE FLARE NUT H/C INJECTOR	15 LB.FT
COOLANT LINE TUBE NUTS AT HIGH FIN EGR COOLER	15 LB.FT
DSI INLET TUBE ASSEMBLY NUTS 18 LB.FT	18 LB.FT
FITTING ASSEMBLY (ON DSI ASSEMBLY)	26 LB.FT
INJECTION UNIT INLET TUBE NUTS	18 LB.FT
M8 X 45 BOLTS H/C INJECTOR	8 LB.FT
	18 LB.FT
M10 X 37 DEGREE FLARE FITTING	15 LB.FT
ENGINE BRAKE / RELATED PARTS	
ECBP SENSOR AND ICP	162 LB.IN
BRAKE ACTUATOR PISTON LOCK NUT	19 LB.FT
ECB VALVE	20 LB.FT
HIGH PRESSURE MANIFOLD M8 X 90	22 LB.FT
INJECTOR INLET ADAPTER ASSEMBLY	150 LB.FT
OIL PRESSURE RELIEF VALVE	33 LB.FT
PLUG ASSEMBLY , M12	108 LB.IN
PLUG ASSEMBLY , M10	108 LB.IN
RAIL END PLUG ASSEMBLY	150 LB.FT
DAMPER AND VIBRATION DAMPER ASSEMBLY	
DAMPER HUB BOLTS M12 X 40	99 LB.FT
FRONT ENGINE MOUNTS M18 BOLTS	271 LB.FT
HORTON DRIVE MASTER NUT ASSEMBLY / 2 INCH	130 LB.FT
LOWER IDLER GEAR M20 X 70 BOLT	470 LB.FT
PTO ADAPTER COVER M10 X 25 BOLT	45 LB.FT
VIBRATION DAMPER ASSEMBLY M10 X 16	43 LB.FT
UPPER IDLER GEAR M16 X 65 BOLT	240 LB.FT
VIBRATION DAMPER AND PULLEY ASSEMBLY	45 LB.FT+
OIL PAN AND OIL SUCTION TUBE	
OIL PAN DRAIN PLUG	50 LB.FT
OIL PAN HEATER PLUG	50 LB.FT
OIL PAN MOUNTING BOLT M8 X 24	25 LB.FT
STAINLESS STEEL OIL PAN MOUNTING BOLT, M8 X 35	25 LB.FT
OIL SUCTION TUBE BOLT , M8 X35	20 LB.FT
TORQUE PROCEEDURE TORQUE TO YIELD HEAD BOLTS	
	FIRST / 111 LB.FT
	SECOND 176 LB.FT
	THIRD 176 LB.FT
	FINAL 90 DEGREES ROTATION
CONNECTING RODS	
	BEARING FIT ONLY / 80 LB.FT
	INITIAL 30 LB.FT
	TORQUE YIELD 90 DEGREES / FINAL
EXHAUST MANIFOLD	
	FIRST / 20 LB.FT
	SECOND / 40 LB.FT
	THIRD / 70 LB.FT
	FOURTH 75 LB.FT

CRANKSHFT MAIN BEARING CAPS / TORQUE TO YIELD	FIRST 100 LB.FT SECOND 130 LB.FT FINAL 90 DEGREES ROTATION
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CRANKCASE BREATHER ASSEMBLY TO CRANKCASE	20 LB.FT
CRANKCASE LADDER M12 X 25 AND M8 X 30	90 LB.FT
CRANKCASE LADDER, M10 X 25	46 LB.FT
M12 TEE ASSEMBLY	18 LB.FT
OIL FILLER TUBE SUPPORT BOLT , M6 X 16	120 LB.IN
OIL FILLER TUBE SUPPORT BOLT , M8 NUTS	25 LB.FT
OIL FILLER TUBE SUPPORT , M6 X25 BOLT AND M6	120 LB.IN

FLEX PLATE MOUNTING BOLTS , M12	100 LB.FT
FLYWHEEL MOUNTING BOLTS M12 X 40	100 LB.FT

DUAL STAGE TURBOCHARGER AND EXHAUST BRAKE

EXHAUST BRAKE TUBE ASSEMBLY NUT AT AIR CONTROL VALVE	11 LB.FT
EXHAUST BRAKE TUBE INVERTED FLARE NUT AT OUTLET ELBOW	21 LB.FT
AIR CONTROL VALVE TO ACTUATOR HOSE FITTING	11 LB.FT
AIR CONTROL SUPPLY HOSE FITTING	11 LB.FT
EXHAUST CLAMP	75 LB.IN
EXHAUST TUBE FITTING	18 LB.FT
HEAT EXCHANGER CLAMP	66 LB.IN
TURBO CHARGER OIL SUPPLY TUBE NUT	18 LB.FT
TURBO CHARGER MOUNTING NUTS , M10 SPECIAL THREAD BOLT	52 LB FT
TURBO CHARGER OUTLET ELBOW M10 SPECIAL THREAD NUTS	45 LB.FT
TURBO PIPE UNDER RAIL SUPPORT , M12 X 25	48 LB.FT
90 DEGREE TUBE FITTING ELBOW	26 LB.FT
M10 37 DEGREE FLARE FITTING	18 LB.FT
WASTEGATE ACTUATOR ROD INNER M6 NUT	75 LB.IN
M8 X 16 WASTGATE ACTUATOR BOLTS	11 LB.FT
V BAND CLAMP (TURBINE INLET HOUSING)	12.5 LB.FT
V BAND CLAMP (TURBOCHARGER INLET ELBOW)	12.5 LB.FT
INTAKE THROTTLE VALVE M6 X 25	120 LB.IN

OIL SYSTEM MODULE ASSEMBLY

COOLANT DRAIN PLUG M16	14 LB.FT
COOLANT TUBE BRACKET BOLTS M8 X 30	23 LB.FT
FITTING (TURBOCHARGER OIL SUPPLY TUBE)	35 LB.FT
OIL FILTER ADAPTER	59 LB.FT
OIL COOLER MODULE MOUNTING BOLTS AND STUD BOLT	23 LB.FT
OIL COOLER MOUNTING SCREWS , M8 X 25	17 LB.FT
OIL COOLER M8 SERRATED NUTS	16 LB.FT
OIL COOLER PRESSURE TEST PLATE MOUNTING SCREWS M8X25	17 LB.FT
OIL PRESSURE REGULATOR VALVE CAP	51 LB.FT
PLUG ASSEMBLY , M12	46 LB.IN
THERMAL VALVE SCREWS M8 X 25	17 LB.FT