

ISUZU MOTORS AMERICA, INC. PowerTrain Division	MODEL ISZJ SPEC NO. DWG NO./DATE	4LE2PW13 8740 (7/17/2003) E3-1038-022-1, 2/27/2004
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-BASIC ENGINE DESCRIPTION	2.2L, 4CYL, 4 STROKE, WTR COOLED, OHV, I/L, DIRECT INJECTED, NATURALLY ASPIRATED DIESEL B=85mm, S=96mm, CR=18.8:1, GLOW PLUG ASSISTED START				
ENGINE CONFIGURATION	INDUSTRIAL GEARCASE PTO (SAE "A" PAD) F/F US EPA (Tier-II) & EC (Stage 2) CERTIFIED	ENGINE PERFORMANCE*	52 BHP @ 3000 RPM 105 FT-LB @ 2250 RPM LOW IDLE SPEED: 1000 RPM HIGH IDLE SPEED: 3300 RPM		
SPECIFIC OEM INFORMATION	ISZA STD	DATE OF ISSUE:	10/17/2005 ISZA	DATE RELEASED:	9/12/2005 ISZA
				PREVIOUS ISSUE DATE:	9/20/2005 ISZA

SPECIFICATION INFORMATION

PART NAME	PART NUMBER	TYPE	PART DESCRIPTION
FLYWHEEL HOUSING	8-97264-961-0	HSG	SAE #5 w/METRIC THDS w/FLAT SD MT PADS-100mm DEEP, w/TACH PORT 3/4"-16 @ APPROX. 2 O'CLOCK
STUDS, FLYWHEEL HSG	1-09302-107-0		QTY 2 (INSTALLED), L=145mm TOTAL (130mm PROTRUDING)
OIL PAN	8-97171-126-0 8-97171-127-0	ASM BASIC	FULL SUMP, CAP 8.1L MAX / 5.6L MIN, ANG 30° ALL DIR HIGH SPEED TYPE
DIP STICK	8-94422-595-0		INSTALLED ON RH CYL BLOCK
FLYWHEEL	8-97164-530-0 8-97164-532-1	ASM BASIC	SAE 7.5" OVER CTR CLUTCH w/PILOT BEARING BORE w/DRIVE RING Z=108
CRANK PULLEY	8-97226-830-1		EFF DIA=123mm, SINGLE GROOVE, w/PTO PROVISION, FOR A-TYPE BELT, w/DAMPER
OIL FILTER	N/A 8-94456-741-2	ASM ELEM	SYSTEM; FULL FLOW w/REPLACEABLE SPIN-ON PAPER ELEM TYPE FILTER @ ENG RR RH SIDE
FUEL FILTER	8-97014-204-1 8-94132-947-1	ASM ELEM	REPLACEABLE SPIN-ON PAPER ELEMENT TYPE FILTER @ ENG LWR FT RH SIDE
WATER PUMP	8-97254-148-3	ASM	CENTRIFUGAL VANE TYPE-WATER HRZ INLET TWD RH SIDE OD=34mm HIGH FLOW
WATER OUTLET PIPE	8-97258-479-2		SIDEWARD TWD LH SIDE OD=32mm HIGH FLOW
WATER INLET PIPE	N/A		T-PIPE FOR OIL COOLER CONN OD=34mm
COOLING FAN	SHIPPED LOOSE		
FAN PULLEY	8-97226-855-0		1-GROOVE EFF DIA=110mm RATIO=1.12:1, FOR A-TYPE BELT
FAN SPACER	8-97063-400-3 9-13642-078-0		STEEL L=4.5mm (TEMP. ATTACHED TO ENG.) ALUMINUM L=32mm (TEMP. ATTACHED TO ENG.)
BOLTS	0-28080-850-0		QTY 4, FAN FIXING BOLTS M8 x 50mm
OIL COOLER	N/A	ASM	MOUNTS BETWEEN OIL FILTER ADAPTER & OIL FILTER @ ENGINE RR RH SIDE
INLET MANIFOLD	N/A		INTEGRAL PART OF CYLINDER HEAD COVER
AIR INLET PIPE	8-97227-603-0		90° ELBOW, RRWD ANGLED UPWD (CAN BE RE-ORIENTED TO VERTICAL SLIGHTLY FORWARD POSITION)

*Rating: SAE J1995

Engine Model Specification continued on the following page.

This is a continuation of the engine specifications from the preceding page.

MODEL:

4LE2PW13

PART NAME	PART NUMBER	TYPE	PART DESCRIPTION
EXHAUST MANIFOLD	8-97117-590-1		SIDE OUTLET 4 M8x1.25mm STUD FLANGE LOCATED ENG LH SIDE 50mm SQ BOLT PTN
GASKET, EXHAUST	8-97042-028-0		TEMPORARILY FIXED TO EXH MANIF OUTLET
TURBOCHARGER	N/A	ASM	
EXHAUST ADAPTOR	N/A		
MOUNTS	N/A		NONE
INJECTION PUMPS	8-97351-985-0	ASM	BOSCH/ZEXEL, IN-LINE PFR TYPE, EACH CYL HAS ITS OWN PUMP
GOVERNOR	8-97363-269-0	MAIN	VARIABLE SPEED TYPE, 10% REGULATION
STARTER	8-97112-865-2	ASM	DENSO 12V-2.0kW GEAR REDUCTION TYPE
ALTERNATOR	8-97225-117-0	ASM	DENSO 12V-35A BUILT-IN REGULATOR NO TACH PROVISION, FOR A-TYPE BELT
GLOW PLUG	8-97364-128-0		QOS-III FOR 12V ELECTRIC
SHUT DOWN SOLENOID	8-97329-568-0	ASM	12V ENERGIZED TO RUN, wo/INT CIRC BRKR wo/DIAGNOSTIC LEAD
FUEL PUMP	8-97183-013-0	ASM	ELECTRIC 12V MOUNTED @ ENG RH SIDE WATER PROOF
COOLANT TEMP SW	DELETE		PT 3/8 THREAD, T < 105° C (221° F) = OPEN, 1 POLE
OIL PRESSURE SW	9-82720-069-0		1 POLE, P > 14 PSI = OPEN
TACHOMETER DRIVE	N/A	ASM	
PTO DRIVE, GEAR SHAFT	8-97169-889-0	ASM	SAE 5/8" SPLINE (9-TOOTH, 16/32" DIAMETRICAL PITCH) MAX DRIVE TORQUE = 65 FT-LB, RATIO = 1.23:1, ROTATION = CW (VIEWED FROM FRONT) LH SIDE SAE "A" PAD FACING RWD
EMISSION LABEL	8-97372-897-0 EPA ENGINE FAMILY NO. 5SZXL02.2GNA EC TYPE APPROVAL NO. e4*97/68GA*2001/63* 0079*00	EPA & EC (COMB)	EPA & EC COMBINED LABEL FOR ENGINE HEAD COVER; FOR Y2005, EPA (Tier-II), EC (Stage 2)
SPECIFICATION INFORMATION FOR SHIP LOOSE ITEMS			
START SWITCH	8-94402-500-0	ASM	3 POS SW: PRE-HEAT RUN/ACC START
CONTROL RESISTOR	8-94173-948-0	ASM	FOR QOS-III GLOW PLUGS
VOLTAGE REGULATOR	N/A		INTERNAL IN ALTERNATOR
OWNER'S MANUAL	IDE-6033		SPEC. TO 4LE2
CONNECTOR, ALT	8-97091-540-0		PIG TAIL FROM ALTERNATOR
STARTER SAFETY	8-97068-778-1		SAFETY, PREVENTS ENGAGEMENT w/ENGINE RUNNING & TIMER
COOLING FAN	5-13660-304-1		400mm PLASTIC 6-BLADE SUCTION TYPE
Engine Model Specification continued on the following page.			

This is a continuation of the engine specifications from the preceding page.

MODEL: 4LE2PW13

SPECIFICATION INFORMATION FOR SHIP LOOSE ITEMS (continued)

RELAY; STARTER	5-82550-029-0	ASM	SAFETY, PREVENTS ENGAGEMENT w/ENGINE RUNNING & TIMER
EMISSION LABEL	8-97372-897-0 EPA ENGINE FAMILY NO. 5SZXL02.2GNA EC TYPE APPROVAL NO. e4*97/68GA*2001/63* 0079*00	EPA & EC (COMB)	EPA & EC COMBINED SUPPLEMENTAL LABEL FOR MACHINE; FOR Y2005, EPA (Tier-II), EC (Stage 2)

ADDITIONAL INFORMATION

FIRING ORDER: 1-3-4-2

COOLANT CAPACITY: 2.8L

INJ TIMING: 8.4±1° BTDC

INJ NOZZLE OPENING PRESSURE: 16.7MPa (170 kg/cm²), 25.0MPa (255 kg/cm²) (2-SPRING NOZZLE)

ENGINE DRY WEIGHT: 153kg (337 lbs)

NOTE: Part numbers are subject to change without notice.