

ISUZU MOTORS AMERICA, LLC PowerTrain Division	MODEL ISZJ SPEC NO. DWG NO./DATE	4HK1XYBW02 IS-07-047-0 E4-1033-028-0, 10/10/2007
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BASIC ENGINE DESCRIPTION	5.2L, 4 CYL, 4 STROKE, WTR COOLED, OHC, I/L, DIR INJECTED, TURBOCHARGED, CHARGE AIR COOLED DIESEL B=115mm, S=125mm, CR=17.5:1, GLOW PLUG ASSISTED START, ELECTRONICALLY CONTROLLED, COMMON RAIL				
ENGINE CONFIGURATION	INDUSTRIAL TURBO OPTIONAL ADD-ON GEARCASE PTO (SAE "B" PAD) F/F 12V US EPA (Tier 3) & EC (Stage 3A) CERTIFIED FORWARD EXH TURBO w/FORWARD EXH ADAPTER	ENGINE PERFORMANCE*	197±4 BHP @ 2100 RPM 506±44 LB-FT @ ≈1500 RPM LOW IDLE SPEED: 850 ±20 RPM HIGH IDLE SPEED: 2100 ±20 RPM		
SPECIFIC OEM INFORMATION	ISZA STD	DATE OF ISSUE:	1/30/2012 ISZA	DATE RELEASED:	5/9/2007
				PREVIOUS ISSUE DATE:	3/17/2011 ISZA

SPECIFICATION INFORMATION

PART NAME	PART NUMBER	TYPE	PART DESCRIPTION
CLOSED CRANKCASE BREATHER	N/A		OPEN TYPE
FLYWHEEL HSG	8-98074-612-0 8-98084-269-1	HSG SPACER	SAE #3
OIL PAN	8-98001-916-2 8-98001-917-1	ASM BASIC	RR SUMP; 20.5L MAX 13L MIN, LH DRAIN, 35° INCLINATION ALL DIR, FOR 500-HOUR OIL CHANGE INTERVAL
DIP STICK	8-97382-956-1	ASM	HIGH MT, LOC LH SD w/RH SD ACCESS
FLYWHEEL	8-98098-841-0 8-98098-839-0 9-12339-061-1	ASM BASIC BRG HOLDER	SAE 11.5" & 10" COMBINED TYPE, w/BRG HOLDER
CRANKSHAFT PULLEY	8-98062-707-0		7-GROOVE EFF DIA=166mm DAMPER TYPE PULLEY, w/PTO PROVISION
WATER PUMP	8-98038-845-0	ASM	IMPELLER TYPE, BELT-DRIVEN
WATER OUTLET PIPE	8-94390-520-1		HRZ, LOC ENG LH SD, OD=50mm
WATER INLET PIPE	8-98166-997-0		OD=50mm
COOLING FAN	1-13660-328-1		OD=650mm, 7-BLADE, SUCTION, PLASTIC
FAN BELT	8-98062-713-0		POLY-V, L=1155mm
FAN PULLEY	8-98062-708-0		7-GROOVE EFF DIA=164.4mm RATIO=1.0:1
FAN SPACER	8-98034-465-1		L=42mm
BOLT, FAN FIXING	0-28050-870-0		QTY 4, M8 x 1.25, L=70mm
OIL COOLER	8-98085-312-3	ASM	INTEGRATED WATER COOLED
EXHAUST MANIFOLD	8-98039-817-1	ASM	SIDEWARD OUTLET TO TURBOCHARGER, LOC ENG RH SD
TURBOCHARGER	8-98182-491-0	ASM	IHI RHF55, LOC ENG RH SD, TURBO EXH OUTLET FORWARD, wo/WASTE GATE

*Rating: SAE J1349 NET without Fan

Engine Model Specification continued on the following page.

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

MODEL: 4HK1XYBW02

PART NAME	PART NUMBER	TYPE	PART DESCRIPTION
EXHAUST ADAPTER	8-97362-838-0	ASM	FORWARD EXH
STARTER	8-98063-699-1	ASM	NIKKO, 12V-2.5kW, REDUCTION TYPE
ALTERNATOR	8-98076-260-1	ASM	HITACHI, 12V-110A, BRUSHLESS
SENSOR; OIL PRESSURE	8-98027-456-0		FOR ECM CONTROL
COOLANT TEMP SW	8-97125-601-1		OPERATING TEMP 105±2°C
GLOW PLUGS	8-97600-096-3		QOS-II, 12V
POWER TAKE-OFF ASM	SEE BULK SHIP LOOSE SECTION		
ENGINE HARNESS	8-98062-709-2		FROM ENG TO ECM HARNESS (DOES NOT CONNECT DIRECTLY TO ECM), L=1120mm
EMISSION LABEL	EPA ENGINE FAMILY NO. ASZXL05.2HXA EC TYPE APPROVAL NO. e4*97/68HA*2004/26*0 018*00	EPA & EC (COMB)	EPA & EC COMBINED LABEL FOR ENG HD COVER, FOR Y2010, EPA (Tier 3), EC (Stage 3A)
SPECIFICATION INFORMATION FOR SHIP LOOSE ITEMS			
OIL FILTER	8-97324-386-1 1-13240-232-2	ASM ELEM	FULL & PARTIAL FLOW IN SINGLE REPLACEABLE SPIN-ON PAPER ELEM, REMOTE TYPE ONLY, FOR 500-HOUR OIL CHANGE INTERVAL
SWITCH; STARTER	8-94402-500-0	ASM	
RELAY; FUEL PUMP & RELAY; MAIN, ECM & RELAY; STARTER SAFETY	5-82550-029-0		QTY 3; STARTER IS CONTROLLED BY ECM
RELAY; STARTER	5-82553-044-4		
RELAY; GLOW PLUG	8-97173-951-0		
ENGINE CONTROL MODULE (ECM)	8-98077-780-1		MUST BE REMOTELY MOUNTED
SENSOR; INLET AIR TEMP	8-12146-830-0		
SENSOR; BAROMETRIC PRESSURE	8-97217-778-0		
PIPE ASM; FUEL FILTER	8-97383-427-0	ASM	QTY 4
BOLT; EYE, FUEL PIPE, FUEL FILTER	1-09675-095-1		QTY 4
PACKING; JOINT, FUEL PIPE, FUEL FILTER	1-09630-086-0		QTY 8
GASKET; TURBO EXHAUST	1-14145-184-0		
FUEL FEED PUMP	8-98068-275-0	ASM	ELECTRIC
Engine Model Specification continued on the following page.			

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

MODEL:

4HK1XYBW02

PART NAME	PART NUMBER	TYPE	PART DESCRIPTION
SPECIFICATION INFORMATION FOR SHIP LOOSE ITEMS (continued)			
PRE FUEL FILTER w/WATER SEDIMENTER	8-98075-855-2 8-98074-288-0	ASM ELEM	PAPER ELEM TYPE w/PRIMING PUMP & WATER SEDIMENTER FILTER & DRAIN, REMOTE MOUNT
PIPE ASM; PRE FUEL	DELETE		
PLUG; PRE FUEL FILTER	DELETE		
MAIN FUEL FILTER w/WATER SEDIMENTER	8-98143-826-0 8-98143-041-0	ASM ELEM	PAPER ELEM TYPE w/PRIMING PUMP & WATER SEDIMENTER FILTER & DRAIN, REMOTE MOUNT
OWNER'S MANUAL	IDE-6220		
EMISSION LABEL	EPA ENGINE FAMILY NO. ASZXL05.2HXA EC TYPE APPROVAL NO. e4*97/68HA*2004/26*0 018*00	EPA & EC (COMB)	EPA & EC COMBINED SUPPLEMENTAL LABEL FOR MACHINE, FOR Y2010, EPA (Tier 3), EC (Stage 3A)
SPECIFIC INFORMATION FOR OPTIONAL BULK SHIP LOOSE ITEMS (MUST BE PURCHASED SEPARATELY)			
POWER TAKE-OFF ASM	8-97384-182-0 (REFER TO 4HK1X PTO DRAWING TD-27-03-004.tif)		SAE 7/8" SPLINE (13 TOOTH, 16/32" DIAMETRICAL PITCH) MAX DRIVE TORQUE = 116 LB-FT, RATIO = 1.13:1, ROTATION = CW (VIEWED FROM FRT) RH SD SAE "B" 2-BOLT PAD RR, FACING FORWARD
MATING CONNECTOR PARTS FOR ALL ELECTRICAL COMPONENTS ON ENGINE	(REFER TO 0 4J 4H 6H 6U 6W mating connector parts chart and hyperlinks.xls)		
OIL HEATER	TBD BY OEM		OIL HEATER P/N 2-90055-905-0 IS INCOMPATIBLE w/OIL PAN ASM P/N 8-98001-916-2
BLOCK HEATER	2-90055-900-0		INSTALLED ON RH SD OF ENG CYL BLK
ADDITIONAL INFORMATION			
FIRING ORDER: 1-3-4-2			
COOLANT CAPACITY: 14.5L			
INJ TIMING: VARIABLE			
INJ NOZZLE OPENING PRESSURE: VARIABLE (ELECTRONICALLY CONTROLLED)			
ENGINE DRY WEIGHT: ≈470kg (1,036 lb)			

NOTE: Part numbers are subject to change without notice.