

ISUZU MOTORS AMERICA, LLC PowerTrain Division	MODEL ISZJ SPEC NO. DWG NO./DATE	3CE1UGZG1 IS-15-097-0 B3-29084-0010, N/A
--	--	--

BASIC ENGINE DESCRIPTION	1.6L, 3CYL, 4 STROKE, WTR COOLED, OHV, I/L, DIRECT INJECTED, NATURALLY ASPIRATED DIESEL B=88mm, S=90mm, CR=20.0:1, GLOW PLUG ASSISTED START				
ENGINE CONFIGURATION	INDUSTRIAL F/F GENSET 12V US EPA (Final Tier 4) CERTIFIED & EC EXEMPT (<19kW)	ENGINE PERFORMANCE*	21.1 BHP @ 1800 RPM (STANDBY) 18.9 BHP @ 1800 RPM (PRIME) LOW IDLE SPEED: 1500±25 RPM HIGH IDLE SPEED: 1915±25 RPM		
SPECIFIC OEM INFORMATION	ISZA STD	DATE OF ISSUE:	7/2/2019 ISZA	DATE RELEASED:	7/8/2016 ISZA
				PREVIOUS ISSUE DATE:	7/8/2016 ISZA

SPECIFICATION INFORMATION

PART NAME	PART NUMBER	TYPE	PART DESCRIPTION
CRANKCASE BREATHER	N/A		CLOSED TYPE; INTEGRAL PART OF CYL HD COVER
FLYWHEEL HOUSING	5-86400-949-0		SAE #5, t=124mm, w/TACH PORT 3/4"-16 @ 3 O'CLOCK
OIL PAN	5-86400-184-0	ASM	6.7L MAX, 2.8L MIN, ANGLED 15° ALL DIR, DEEP TYPE, BOTTOM DRAIN
DIPSTICK	5-86400-103-0 5-86400-943-0	TUBE GAUGE	FOR DEEP OIL PAN
FLYWHEEL	5-86400-213-0		SAE 7.5", CLUTCH, w/DRIVE RING Z=116
CRANKSHAFT PULLEY	5-86400-166-0		EFF DIA=120mm
OIL FILTER	5-86401-515-0	ELEM	FULL FLOW PAPER ELEM TYPE
FUEL FILTER	5-86401-469-0 5-86401-510-0	ASM ELEM	NIPPON ROKAKI, PAPER ELEM TYPE, CARTRIDGE TYPE
WATER PUMP	5-86400-391-0		LOW POSITION
WATER OUTLET PIPE	5-86400-909-0		LH SIDEWARD
THERMOSTAT	5-86400-212-0		71°C INITIAL OPENING TEMP AT ATMOSPHERIC PRESSURE; 85°C TEMP AT VALVE LIFT OF 8mm & OVER
COOLING FAN	5-86400-168-0		360mm DIA, PUSHER, 6-BLADE, PLASTIC
FAN PULLEY	5-86400-211-0		EFF DIA=90mm RATIO=1.333:1
FAN SPACER	5-86400-100-0		t=18mm
BOLT, FAN FIXING	5-86400-315-0		QTY 4, M6 x 30mm
OIL COOLER	N/A		
INLET MANIFOLD	5-86401-772-0		UPWD, BOX TYPE
AIR CLEANER	N/A		
INTAKE AIR HEATER	N/A		

*Rating: SAE J1349 NET without Fan

Engine Model Specification continued on the following page.

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

MODEL:

3CE1UGZG1

PART NAME	PART NUMBER	TYPE	PART DESCRIPTION
EXHAUST MANIFOLD	5-86400-141-0		UPWD, w/MUFFLER SUPPORT
SILENCER; EXHAUST	N/A		
TURBOCHARGER	N/A		
INJECTION PUMPS	5-86402-516-0		DISTRIBUTOR TYPE
GOVERNOR	N/A		INTEGRAL PART OF INJECTION PUMP, CENTRIFUGAL VARIABLE SPEED CONTROL, 6% REGULATION
STARTER	5-86400-250-0		HITACHI, 12V-1.4kW, MAGNETICALLY ACTUATED, REDUCTION TYPE
ALTERNATOR	5-86400-240-0		DENSO, 12V-40A, w/P TERMINAL (i.e., w/OUTPUT WHICH PROVIDES INPUT SIGNAL FOR TACH &/OR STARTER SAFETY RELAY)
GLOW PLUG	5-86401-726-0		12V
SHUT DOWN SOLENOID	5-86400-435-0		12V ENERGIZED TO RUN, INTEGRATED TYPE
COOLANT TEMP SW	5-86400-098-0		OPERATING TEMP 110±3°C, NORMALLY OPEN TYPE
OIL PRESSURE SW	5-86400-014-0		OPERATING PRESSURE 49.0±9.8kPA, PUSH-OFF TYPE
EMISSION LABEL	EPA ENGINE FAMILY NO. KYDXL1.64NGA	EPA	FOR ENGINE HEAD COVER; FOR Y2019, EPA (Tier 4)
SPECIFICATION INFORMATION FOR SHIP LOOSE ITEMS			
GASKET, SILENCER	5-86400-142-0		t=0.5mm
FUEL FEED PUMP; ELC.	5-86400-024-0		U-SHIN CO., 12V, ELECTROMAGNET TYPE
SEPARATOR ASM; WATER	5-86401-869-0 5-86401-981-0	ASM ELEM	
DIODE; SOLENOID	5-86400-055-0		600V-1.1A
RELAY; GLOW PLUG	5-86401-952-0	ASM	QTY 2
TIMER; GLOW PLUG	5-86400-124-0		12V-15sec
TIMER; SOLENOID	5-86400-219-0		12V-1sec
CURRENT LIMITER (REGULATOR)	DELETE		
OWNER'S MANUAL	IDE-6146B		SPECIFIC TO 3CE1/3CH1/3CJ1 TIER 4 ENGINES
EMISSION LABEL	EPA ENGINE FAMILY NO. KYDXL1.64NGA	EPA	SUPPLEMENTAL LABEL FOR MACHINE; FOR Y2019, EPA (Tier 4)
FUEL TANK FILL LOCATION LABEL	5-86401-948-0	EPA	INDICATES " ULTRA LOW SULFUR DIESEL FUEL ONLY" (TEMPORARILY ATTACHED TO ENGINE)
Engine Model Specification continued on the following page.			

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

MODEL:

3CE1UGZG1

ADDITIONAL INFORMATION

FIRING ORDER: 1-3-2

COOLANT CAPACITY: 2.0L

INJ TIMING: 14.5±1° BTDC

ENGINE DRY WEIGHT: ≈158kg (348 lb) (NOT INCLUDING SHIP LOOSE ITEMS)

APPROXIMATE DIMENSIONS: HEIGHT 682mm, LENGTH 619mm, WIDTH 514mm

NOTE: Part numbers are subject to change without notice.