

ISUZU MOTORS AMERICA, LLC PowerTrain Division	MODEL ISZJ SPEC NO. DWG NO./DATE	4JG1PK 850VE E3-1030-032-2, 11/20/2003
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BASIC ENGINE DESCRIPTION	3.1L, 4 CYL, 4 STROKE, WTR COOLED, OHV, I/L, DIRECT INJECTED, NATURALLY ASPIRATED DIESEL B=95.4mm, S=107mm, CR=18.5:1, GLOW PLUG ASSISTED START				
ENGINE CONFIGURATION	INDUSTRIAL F/F 12V US EPA (Tier 2) & EC (Stage 2) CERTIFIED	ENGINE PERFORMANCE*	62±1.9 BHP @ 2600 RPM 144±7.4 FT-LB @ ≈1800 RPM LOW IDLE SPEED: 900±50 RPM HIGH IDLE SPEED: 2880±20 RPM		
SPECIFIC OEM INFORMATION	ISZA STD	DATE OF ISSUE:	5/1/2012 ISZA	DATE RELEASED:	12/2/2002 ISZJ 3/19/2012 ISZA

**SPECIFICATION INFORMATION**

PART NAME	PART NUMBER	TYPE	PART DESCRIPTION
FLYWHEEL HSG	8-97078-924-1		SAE #4 TYPE w/METRIC THREADS w/FLAT SD MT PADS 148mm DP, w/TACH SENSOR PICK-UP PORT 3/4"-16
OIL PAN	8-97253-985-1	ASM	9.2L MAX, 7.2L MIN, 35° INCLINATION ALL DIR, wo/OIL FILLER
DIPSTICK	NONE 8-98055-323-0	TUBE GAUGE	INSTALLED ON OIL PAN LH SD
FLYWHEEL	8-97229-690-4 8-97229-688-4 (OPTIONAL)	ASM BASIC BRG HOLDER	SAE 10" w/METRIC THREADS w/DRIVE RING Z=108 w/PROVISION FOR OPTIONAL BOLT-ON PILOT BRG HOLDER (5-12339-003-1) (1-PIECE FW ASM wo/OPTIONAL BRG HOLDER)
CRANKSHAFT PULLEY	8-94140-488-3		2-GROOVE, EFF DIA=143mm, wo/PTO PROVISION
OIL FILTER	8-94327-272-1 8-97049-708-1	ASM ELEM	SYSTEM; FULL FLOW w/INTEGRAL OIL COOLER, w/REPLACEABLE SPIN-ON PAPER ELEM TYPE FILTER @ ENG RR RH SD
FUEL FILTER	SHIPPED LOOSE	ASM ELEM	
WTR PUMP	8-97105-012-5	ASM	CENTRIFUGAL VANE TYPE, SEPARATE WTR INL, HIGH FLOW
WTR OUTL PIPE	8-97207-232-1		SDWD TYPE
THERMOSTAT	8-97211-209-0		OPEN 82.5°C, FULL OPEN 95°C
THERMOSTAT HSG	8-97238-976-1	HSG	
WTR INL PIPE	8-97180-170-0		RH SD INL DNWD 60° FROM HRZ BEHIND ALT OD=38mm, OIL COOLER CONN CAPPED
COOLING FAN	SHIPPED LOOSE		
BELT; COOLING FAN	8-97314-227-0		L=1025mm
FAN PULLEY	8-94146-638-2		1-GROOVE EFF DIA=128mm RATIO=1.12:1
FAN SPACER	SHIPPED LOOSE		
OIL COOLER	N/A	ASM	INTEGRAL PART OF OIL FILTER
INL MANIFOLD	8-97011-488-2		CTR UPWD INL w/2 M10x1.25 STUD FLG LOC ENG LH SD

\*Rating: SAE J1995

Engine Model Specification continued on the following page.

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

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PART NAME	PART NUMBER	TYPE	PART DESCRIPTION
AIR INL PIPE	8-94152-318-0		RRWD TYPE
HOSE	8-97171-261-0		RUBBER PCV TO AIR INL PIPE
EXH MANIFOLD	8-94451-990-2		RR UPWD OUTL, w/2 M8x1.25mm STUDS IN MTG FLG, LOC ENG RH SD, NON-SUMP TYPE
TURBOCHARGER	N/A		
EXH ADAPTOR	N/A		
MOUNTS	8-94122-052-1 8-94428-538-2	LH RH	
INJECTION PUMP	8-97331-598-0	ASM	ROTARY BOSCH/ZEXEL "A" TYPE, VE, w/INTEGRAL SHUTDOWN SOLENOID
INJECTION NOZZLE ASM	8-97382-945-0	ASM	2-SPRING
GOVERNOR	N/A	ASM	INTEGRAL PART OF INJ PMP, 11% REGULATION
STARTER	8-97349-402-1	ASM	mitsubishi, 12V-2.2kW
ALTERNATOR	8-97228-318-0	ASM	HITACHI 12V-50A, INTERNAL REGULATOR, NO TACH PROVISION
GLOW PLUG	8-94133-759-9		QOS-II FOR 12V ELECTRIC
SHUTDOWN SOLENOID	N/A	ASM	INTEGRAL PART OF INJ PMP
COOLANT TEMP SW	8-97125-600-1		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, RH SD
TACHOMETER DRIVE	N/A	ASM	
CABLE ASM; BOND	8-97180-556-0	ASM	L=300mm
EMISSION LABEL	EPA ENGINE FAMILY NO. 7SZXL03.1GNB  EC TYPE APPROVAL NO. e4*97/68GA*2001/63*0 081*00	EPA & EC (COMB)	EPA & EC COMBINED LABEL FOR ENG HD COVER; FOR Y2007, EPA (Tier 2), EC (Stage 2)
<b>SPECIFICATION INFORMATION FOR SHIP LOOSE ITEMS</b>			
FUEL FILTER	8-94367-292-3 8-94369-299-3	ASM ELEM	w/PRIMING PMP, WTR SENSOR, & MANUAL WTR DRAIN
CONTROL RESISTOR	8-94173-948-0	ASM	FOR QOS-II GLOW PLUGS
VOLTAGE REGULATOR	N/A		ALT INTERNALLY REGULATED
COOLING FAN	5-13660-308-1		400mm, PLASTIC, 6-BLADE, PUSHER TYPE
FAN SPACER	8-97063-400-3 9-13642-077-0		STEEL t=4.5mm ALUMINUM t=26mm
BOLT, FAN FIXING	0-28050-650-0		QTY 4, M6 x 50mm
WASHER	9-09164-706-0		QTY 4, FOR FAN FIXING BOLTS
START SW	N/A		
Engine Model Specification continued on the following page.			

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

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**SPECIFICATION INFORMATION FOR SHIP LOOSE ITEMS (continued)**

PART NAME	PART NUMBER	TYPE	PART DESCRIPTION
EXH FLG GASKET	8-97016-101-0		
OWNER'S MANUAL	IDE-6063		SPECIFIC TO 4JB/4JG1-SERIES w/VE TYPE INJ PMP
EMISSION LABEL	EPA ENGINE FAMILY NO. 7SZXL03.1GNB  EC TYPE APPROVAL NO. e4*97/68GA*2001/63*0 081*00	EPA & EC (COMB)	EPA & EC COMBINED SUPPLEMENTAL LABEL FOR MACHINE; FOR Y2007, EPA (Tier 2), EC (Stage 2)

**ADDITIONAL INFORMATION**

**FIRING ORDER: 1-3-4-2**

**COOLANT CAPACITY: 4.5L**

**INJ TIMING: 4±1° BTDC**

**INJ NOZZLE OPENING PRESSURE: 19.5MPa (199 kg/cm<sup>2</sup>), 26.2MPa (267 kg/cm<sup>2</sup>) (2-SPRING NOZZLE)**

**ENGINE DRY WEIGHT: 260kg (573 lb)**

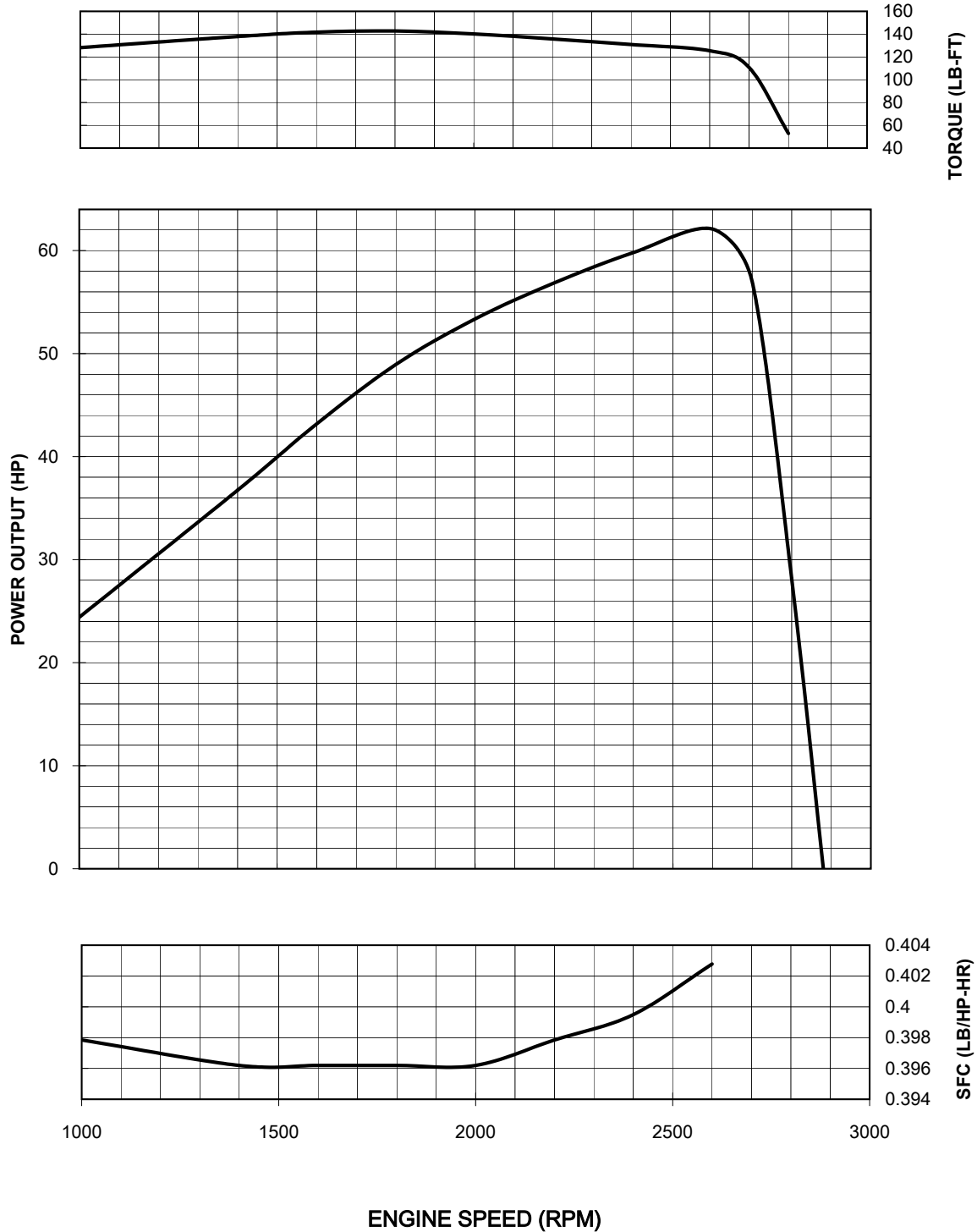
**NOTE: Part numbers are subject to change without notice.**

# ISUZU

## 4JG1PK PERFORMANCE CURVE

CONDITION	SAE J1995 GROSS
ATMOSPHERIC CONDITION	STANDARD
RUN IN	SUFFICIENT
PULLEY RATIO	1.12:1
COOLING FAN	WITHOUT
INLET RESTRICTION	WITHOUT
ALTERNATOR	WITH
EXHAUST RESTRICTION	WITHOUT

**RATED OUTPUT : 62±1.9 HP / 2600 RPM**  
**MAXIMUM TORQUE : 144±7.4 LB-FT / about 1800 RPM**



ISUZU MOTORS LIMITED

Mar-01-'05

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