## ISUZU

DIESEL





## **Data Summary**

Off-Highway Diesel Engine Model & Spec



				4JJ1TYG\	/01 12V	4JJ BW0	1TYB\ 02 12\	W01 12V / GCPTO
Performance	US EPA Off-Highway Emission Certification			Tier 3				
	EC Off-Highway Emission Certification			Stag			Stag	e 3A
	Rated Speed*	RPM		180			25	
	Rated Power (SAE J1995 GROSS)*	KW	HP	51	69		63	84
	Full-Load Fuel Consumption*	G/KW-HR		211	0.347	2	222	0.365
	Alternator Output	V-A			12V	-110		
Size	Height	MM	IN	847	33.3		847	33.3
0.00	Width	MM		748			748	
	Length	MM		884			953	
Weight		KG	LB	320	705		320	705
Basic Characteristics	Flywheel Housing / Flywheel			SAF	#3 / 11.5	" & 10	" con	nbo
	Gear Case PTO Spline / Pad (optional)	(standard	on BW02)		' / SAE "E			
	Displacement		CUBIC IN	G/ (E 1/0		183	, , ,	L DOIL
	Number of Cylinders					4		
	Electronic High Pressure Common Rail Fuel In	ection Syste	em			ĒS		
	Charge Air Cooler System (Required)					0		
	Cooled Exhaust Gas Recirculation (EGR) System					ΞS		
Lubricating Oil System	Engine-mounted oil filter.							
Fuel System	Shipped-loose fuel filters and fuel pump to be re	emotely mo	unted.					
Control System					AEJ1939	CAN	RHS	•
Cooling System	Shipped-loose ECM to be remotely mounted ar off-engine sensors, fuses, relays, diagnostic co harness and ECM enclosure.  Radiator							
Cooling System	Heat Rejection to Coolant*	MINIE	DTI I/A AIN I	125	1975		160	2520
	Cooling Fan Air Flow Rate @ Restriction		BTU/MIN		3178			2528
	Cooling Fan Air Flow Rate @ Restriction	M³/MIN						4732
	Coolant Flow Rate*		IN H <sub>2</sub> 0	0.29	1.2 18.5	(	0.69	2.o 25.1
	Max Allowed Engine Coolant Outlet Temp	LPM		70		040	95	20.1
	Max Allowed Coolant Pump Inlet Restriction	°C				210		
	Charge Air Cooler (CAC)	KPA	IN HG		10	3.0		
	Heat Rejection to CAC*		DTI I/NAINI	NI/A	N I / A		NI/A	N/A
	rical rejection to one							14//7
	Air Flow Rate*	MJ/HR		N/A				NI/A
	Air Flow Rate*  May Allowed CAC Out Rise Above Ambient	M³/MIN	CFM	N/A N/A	N/A		N/A N/A	N/A
	Max Allowed CAC Out Rise Above Ambient	M³/MIN °C	CFM °F		N/A N/A	N/A		N/A
	Max Allowed CAC Out Rise Above Ambient Max Allowed System Restriction	M³/MIN °C	CFM		N/A N/A			N/A
	Max Allowed CAC Out Rise Above Ambient Max Allowed System Restriction Fuel Cooler	M³/MIN °C KPA	°F IN H <sub>2</sub> 0		N/A N/A N/A	N/A N/A		N/A
	Max Allowed CAC Out Rise Above Ambient Max Allowed System Restriction Fuel Cooler Fuel Flow Rate	M³/MIN °C KPA LPM	CFM °F IN H <sub>2</sub> 0 GPH		N/A N/A N/A	N/A N/A		N/A
	Max Allowed CAC Out Rise Above Ambient Max Allowed System Restriction Fuel Cooler	M³/MIN °C KPA	CFM °F IN H <sub>2</sub> 0 GPH BTU/MIN		N/A N/A N/A 1.3 800	N/A N/A		N/A
Air Cleaner Syctem	Max Allowed CAC Out Rise Above Ambient Max Allowed System Restriction Fuel Cooler Fuel Flow Rate Heat Rejection to Fuel Cooler Max Allowed Engine Fuel Inlet Temp	M³/MIN °C KPA  LPM KCAL/HR °C	CFM  °F IN H <sub>2</sub> 0  GPH BTU/MIN °F	N/A	N/A N/A N/A 1.3 800 60	N/A N/A 21 53	N/A	
Air Cleaner System	Max Allowed CAC Out Rise Above Ambient Max Allowed System Restriction Fuel Cooler Fuel Flow Rate Heat Rejection to Fuel Cooler	M³/MIN °C KPA  LPM KCAL/HR °C  M³/MIN	CFM  °F IN H <sub>2</sub> 0  GPH BTU/MIN °F		N/A N/A N/A 1.3 800 60	N/A N/A 21 53		
	Max Allowed CAC Out Rise Above Ambient Max Allowed System Restriction Fuel Cooler Fuel Flow Rate Heat Rejection to Fuel Cooler Max Allowed Engine Fuel Inlet Temp  Air Flow Rate* Max Allowed System Restriction	M³/MIN °C KPA  LPM KCAL/HR °C  M³/MIN KPA	CFM °F IN H <sub>2</sub> 0 GPH BTU/MIN °F CFM IN H <sub>2</sub> 0	N/A 3.2	N/A N/A N/A 1.3 800 60 113 2.5	N/A N/A 21 53 140	N/A 4.4	155
Air Cleaner System  Exhaust System	Max Allowed CAC Out Rise Above Ambient Max Allowed System Restriction Fuel Cooler Fuel Flow Rate Heat Rejection to Fuel Cooler Max Allowed Engine Fuel Inlet Temp  Air Flow Rate*	M³/MIN  °C  KPA  LPM  KCAL/HR  °C  M³/MIN  KPA	CFM °F IN H <sub>2</sub> 0 GPH BTU/MIN °F CFM IN H <sub>2</sub> 0	N/A	N/A N/A N/A 1.3 800 60 113 2.5	N/A N/A 21 53 140	N/A	155



## **Turn-Key Engine Accessories**

Off-Highway Diesel Engine Model & Spec



4JJ1TYGV01 12V

4JJ1TYBW01 12V BW02 12V GCPTO

		Kit #			
Drive System	Flywheel Pilot Bearing Carrier		9-12339-061-1	included on eng	
	Gear Case PTO		N/A	N/A (included)	
	Air Compressor		N/A	N/A (4H1-002)	
Lubricating Oil System	Oil Filter Hoses + Bracket		engine-mour		
	Remote Oil Drain Hose + Valve	6G4-	.005		
Fuel System	Fuel Filter Hoses + Bracket		5C7-034		
Control System	Supplemental Harness (Short), OR		EVE	001	
	Supplemental Harness (Long)		<b>5Y5-081</b> 5Y5-085		
	Alternator Adapter Harness		5Y5-080		
	ECM Enclosure (with controls), OR		5Y3-088		
	ECM Enclosure (without controls)		5Y3-089		
	Extension Harness	6 FT, OR	5Y5-		
	Extension Hamood	10 FT, OR	5Y5-		
		20 FT	5Y5-	052	
	Murphy PowerView SAEJ1939 CAN Display, OR		5Y3-		
	Remote Control Panel		5Y3-		
	Mating Connector Kits (if above Control System kits a	re not used)			
	Master		5Y5-		
	Electric Fuel Pump		5Y5-		
	Alternator		5Y5-	044	
Cooling System	Cooling Module (Radiator + Fuel Cooler)			-247	
	Cooling Fan Upper and Lower Coolant Hoses		push incl on eng 5F1	pull incl on eng -243	
Air Cleaner System	Air Cleaner, Bands, Pipes, and Hoses		5M3	-088	
Exhaust System	Exhaust Pipe		51.2	-082	
	Vertical Muffler w/Rain Cap			-071	
Service Diagnostic Tools	EMPS3 Diagnostic Tool (PC based)			0-041-0	
	ECM Pin-Out Box		X-9996	0-042-0	



## Turn-Key Accessories Model Views



