## ISUZU

DIESEL





## **Data Summary**

Off-Highway Diesel Engine Model & Spec



				4JJ1XYGV	01 12V	4JJ1XYBW01 BW02 12V G0	12V CPTO
Performance	US EPA Off-Highway Emission Certification			Tier 3			
	EC Off-Highway Emission Certification		Stage	Stage 2 Stage		4	
	Rated Speed*	RPM		180		2500	
	Rated Power (SAE J1995 GROSS)*	KW	HP	75 1	101	98 131	
	Full-Load Fuel Consumption*	G/KW-HR	LB/HP-HR	209 (		210 0.3	45
	Alternator Output	V-A			12V	/-110	
Size	Height	MM	IN	812 3	32.0	842 33.	1
	Width	MM	IN	748 2	29.4	739 29.	1
	Length	MM	IN	884 3	34.8	977 38.	5
Mojobá				000	705	005 747	•
Weight		KG	LB	320 7	′05	325 717	
Basic Characteristics	Flywheel Housing / Flywheel			SAE	#3 / 11.5	5" & 10" combo	
	Gear Case PTO Spline / Pad (optional)	(standard	on BW02)			B-B" & "A-A" 2-	
	Displacement		CUBIC IN	07.12.7,0		183	
	Number of Cylinders					4	
	Electronic High Pressure Common Rail Fuel In	Electronic High Pressure Common Rail Fuel Injection System					
	Charge Air Cooler System (Required)	Charge Air Cooler System (Required)				ES	
	Cooled Exhaust Gas Recirculation (EGR) Syste		YI	ES			
Lubricating Oil System	Engine-mounted oil filter.						
Fuel System	Shipped-loose fuel filters and fuel pump to be re	emotely mo	unted.				
Control System				S	AEJ1939	9 CAN BUS	
	Shipped-loose ECM to be remotely mounted ar off-engine sensors, fuses, relays, diagnostic co harness and ECM enclosure.						
Cooling System	Padiator						
Cooling System	Radiator Heat Poinction to Coolant*	MI/IID	DTI I/A (IA)	170 (	2626	205 222	20
Cooling System	Heat Rejection to Coolant*		BTU/MIN	170 2		205 323	
Cooling System		M³/MIN	CFM	90	3178	134 473	
Cooling System	Heat Rejection to Coolant* Cooling Fan Air Flow Rate @ Restriction	M³/MIN KPA	CFM IN H <sub>2</sub> 0	90 3	3178 1.2	134 473 0.69 2.8	2
Cooling System	Heat Rejection to Coolant* Cooling Fan Air Flow Rate @ Restriction  Coolant Flow Rate*	M³/MIN KPA LPM	CFM IN H <sub>2</sub> 0 GPM	90	3178 1.2 18.5	134 473 0.69 2.8 95 25.	2
Cooling System	Heat Rejection to Coolant* Cooling Fan Air Flow Rate @ Restriction  Coolant Flow Rate* Max Allowed Engine Coolant Outlet Temp	M³/MIN KPA LPM °C	CFM IN H <sub>2</sub> 0 GPM °F	90 3	3178 1.2 18.5	134 473 0.69 2.8 95 25.	2
Cooling System	Heat Rejection to Coolant* Cooling Fan Air Flow Rate @ Restriction  Coolant Flow Rate* Max Allowed Engine Coolant Outlet Temp Max Allowed Coolant Pump Inlet Restriction	M³/MIN KPA LPM °C	CFM IN H <sub>2</sub> 0 GPM	90 3	3178 1.2 18.5	134 473 0.69 2.8 95 25.	2
Cooling System	Heat Rejection to Coolant* Cooling Fan Air Flow Rate @ Restriction  Coolant Flow Rate* Max Allowed Engine Coolant Outlet Temp Max Allowed Coolant Pump Inlet Restriction Charge Air Cooler (CAC)	M³/MIN KPA LPM °C KPA	CFM IN H <sub>2</sub> 0 GPM °F IN HG	90 3 0.29 70	3178 1.2 18.5 99 10	134 473 0.69 2.8 95 25. 210 3.0	1
Cooling System	Heat Rejection to Coolant* Cooling Fan Air Flow Rate @ Restriction  Coolant Flow Rate* Max Allowed Engine Coolant Outlet Temp Max Allowed Coolant Pump Inlet Restriction Charge Air Cooler (CAC) Heat Rejection to CAC*	M³/MIN KPA LPM °C KPA MJ/HR	CFM IN H <sub>2</sub> 0 GPM °F IN HG BTU/MIN	90 3 0.29 70	3178 1.2 18.5 99 10	134 473 0.69 2.8 95 25. 210 3.0 58 916	1
Cooling System	Heat Rejection to Coolant* Cooling Fan Air Flow Rate @ Restriction  Coolant Flow Rate* Max Allowed Engine Coolant Outlet Temp Max Allowed Coolant Pump Inlet Restriction Charge Air Cooler (CAC) Heat Rejection to CAC* Air Flow Rate*	M³/MIN KPA LPM °C KPA MJ/HR M³/MIN	CFM IN H <sub>2</sub> 0 GPM °F IN HG BTU/MIN CFM	90 3 0.29 70	3178 1.2 18.5 99 10	134 473 0.69 2.8 95 25. 210 3.0 58 916 9.2 328	1
Cooling System	Heat Rejection to Coolant* Cooling Fan Air Flow Rate @ Restriction  Coolant Flow Rate* Max Allowed Engine Coolant Outlet Temp Max Allowed Coolant Pump Inlet Restriction Charge Air Cooler (CAC) Heat Rejection to CAC* Air Flow Rate* Max Allowed CAC Out Rise Above Ambient	M³/MIN KPA LPM °C KPA  MJ/HR M³/MIN °C	CFM IN H <sub>2</sub> 0 GPM °F IN HG  BTU/MIN CFM °F	90 3 0.29 70	3178 1.2 18.5 99 10 679 290 25	134 473 0.69 2.8 95 25. 210 3.0 58 916 9.2 325	1
Cooling System	Heat Rejection to Coolant* Cooling Fan Air Flow Rate @ Restriction  Coolant Flow Rate* Max Allowed Engine Coolant Outlet Temp Max Allowed Coolant Pump Inlet Restriction Charge Air Cooler (CAC) Heat Rejection to CAC* Air Flow Rate*	M³/MIN KPA LPM °C KPA  MJ/HR M³/MIN °C	CFM IN H <sub>2</sub> 0 GPM °F IN HG BTU/MIN CFM	90 3 0.29 70	3178 1.2 18.5 99 10 679 290 25	134 473 0.69 2.8 95 25. 210 3.0 58 916 9.2 328	1
Cooling System	Heat Rejection to Coolant* Cooling Fan Air Flow Rate @ Restriction  Coolant Flow Rate* Max Allowed Engine Coolant Outlet Temp Max Allowed Coolant Pump Inlet Restriction Charge Air Cooler (CAC) Heat Rejection to CAC* Air Flow Rate* Max Allowed CAC Out Rise Above Ambient Max Allowed System Restriction Fuel Cooler	M³/MIN KPA LPM °C KPA  MJ/HR M³/MIN °C KPA	CFM IN H <sub>2</sub> 0 GPM °F IN HG  BTU/MIN CFM °F IN H <sub>2</sub> 0	90 3 0.29 70	3178 1.2 18.5 99 10 379 290 25 13.3	134 473 0.69 2.8 95 25. 210 3.0 58 916 9.2 325 45 53.4	1
Cooling System	Heat Rejection to Coolant* Cooling Fan Air Flow Rate @ Restriction  Coolant Flow Rate* Max Allowed Engine Coolant Outlet Temp Max Allowed Coolant Pump Inlet Restriction Charge Air Cooler (CAC) Heat Rejection to CAC* Air Flow Rate* Max Allowed CAC Out Rise Above Ambient Max Allowed System Restriction Fuel Cooler Fuel Flow Rate	M³/MIN KPA LPM °C KPA  MJ/HR M³/MIN °C KPA	CFM IN H <sub>2</sub> 0 GPM °F IN HG  BTU/MIN CFM °F IN H <sub>2</sub> 0 GPH	90 3 0.29 70	3178 1.2 18.5 99 10 379 290 25 13.3	134 473 0.69 2.8 95 25. 210 3.0 58 916 9.2 328 45 53.4	1
Cooling System	Heat Rejection to Coolant* Cooling Fan Air Flow Rate @ Restriction  Coolant Flow Rate* Max Allowed Engine Coolant Outlet Temp Max Allowed Coolant Pump Inlet Restriction Charge Air Cooler (CAC) Heat Rejection to CAC* Air Flow Rate* Max Allowed CAC Out Rise Above Ambient Max Allowed System Restriction Fuel Cooler	M³/MIN KPA LPM °C KPA  MJ/HR M³/MIN °C KPA	CFM IN H <sub>2</sub> 0 GPM °F IN HG  BTU/MIN CFM °F IN H <sub>2</sub> 0 GPH BTU/MIN	90 3 0.29 70	3178 1.2 18.5 99 10 379 290 25 13.3 1.3 800	134 473 0.69 2.8 95 25. 210 3.0 58 916 9.2 325 45 53.4	1
	Heat Rejection to Coolant* Cooling Fan Air Flow Rate @ Restriction  Coolant Flow Rate* Max Allowed Engine Coolant Outlet Temp Max Allowed Coolant Pump Inlet Restriction Charge Air Cooler (CAC) Heat Rejection to CAC* Air Flow Rate* 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 KPA LPM °C KPA  MJ/HR M³/MIN °C KPA  LPM KCAL/HR °C	CFM IN H <sub>2</sub> 0 GPM °F IN HG  BTU/MIN CFM °F IN H <sub>2</sub> 0  GPH BTU/MIN °F	90 3 0.29 70 43 6 8.2 2	3178 1.2 18.5 99 10 379 290 25 13.3 1.3 800 60	134 473 0.69 2.8 95 25. 210 3.0 58 916 9.2 325 45 53.4 21 53 140	32 1 5 5
Air Cleaner System	Heat Rejection to Coolant* Cooling Fan Air Flow Rate @ Restriction  Coolant Flow Rate* Max Allowed Engine Coolant Outlet Temp Max Allowed Coolant Pump Inlet Restriction Charge Air Cooler (CAC) Heat Rejection to CAC* Air Flow Rate* Max Allowed CAC Out Rise Above Ambient Max Allowed System Restriction Fuel Cooler Fuel Flow Rate Heat Rejection to Fuel Cooler	M³/MIN  KPA  LPM  °C  KPA  MJ/HR  M³/MIN  °C  KPA  LPM  KCAL/HR  °C  M³/MIN	CFM IN H <sub>2</sub> 0 GPM °F IN HG  BTU/MIN CFM °F IN H <sub>2</sub> 0  GPH BTU/MIN °F	90 3 0.29 70	3178 1.2 18.5 99 10 379 290 25 13.3 1.3 800 60	134 473 0.69 2.8 95 25. 210 3.0 58 916 9.2 325 45 53.4	32 1 5 5
Air Cleaner System	Heat Rejection to Coolant* Cooling Fan Air Flow Rate @ Restriction  Coolant Flow Rate* Max Allowed Engine Coolant Outlet Temp Max Allowed Coolant Pump Inlet Restriction Charge Air Cooler (CAC) Heat Rejection to CAC* Air Flow Rate* 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 KPA LPM °C KPA  MJ/HR M³/MIN CC KPA  LPM KCAL/HR °C	CFM IN H <sub>2</sub> 0 GPM °F IN HG  BTU/MIN CFM °F IN H <sub>2</sub> 0  GPH BTU/MIN °F  CFM IN H <sub>2</sub> 0	90 3 0.29 70 43 6 8.2 2	3178 1.2 18.5 99 10 379 290 25 13.3 1.3 800 60 290 2.5	134 473 0.69 2.8 95 25. 210 3.0 58 916 9.2 325 45 53.4 21 53 140 9.2 325 10.0	32
	Heat Rejection to Coolant* Cooling Fan Air Flow Rate @ Restriction  Coolant Flow Rate* Max Allowed Engine Coolant Outlet Temp Max Allowed Coolant Pump Inlet Restriction Charge Air Cooler (CAC) Heat Rejection to CAC* Air Flow Rate* 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 KPA LPM °C KPA  MJ/HR M³/MIN °C KPA  LPM KCAL/HR °C  M³/MIN KPA	CFM IN H <sub>2</sub> 0 GPM °F IN HG  BTU/MIN CFM °F IN H <sub>2</sub> 0  GPH BTU/MIN °F  CFM IN H <sub>2</sub> 0	90 3 0.29 70 43 6 8.2 2	3178 1.2 18.5 99 10 379 290 25 13.3 1.3 800 60 290 2.5	134 473 0.69 2.8 95 25. 210 3.0 58 916 9.2 325 45 53.4 21 53 140 9.2 325	32



## **Turn-Key Engine Accessories**

Off-Highway Diesel Engine Model & Spec



4JJ1XYGV01 12V

4JJ1XYBW01 12V BW02 12V GCPTO

Kit#

		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-mounted oil filter		
	Remote Oil Drain Hose + Valve	6G4	-005		
Fuel System	Fuel Filter Hoses + Bracket		5C7-034		
Control System	Supplemental Harness (Short), OR		5Y5	-081	
	Supplemental Harness (Long)		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		-050	
		10 FT, OR		-051	
		20 FT		-052	
	Murphy PowerView SAEJ1939 CAN Display, OR			-091	
	Remote Control Panel		5Y3	-090	
	Mating Connector Kits (if above Control System kits a	are not used)			
	Master	5Y5-025			
	Electric Fuel Pump		5Y5-042		
	Alternator		5Y5-044		
Cooling System	Cooling Module (Radiator + CAC + Fuel Cooler)		5F1-218		
	Cooling Fan		push incl on eng pull incl on eng		
	Upper and Lower Coolant Hoses		5F1	I-243	
	Hot (Turbo-to-CAC) Pipe		5F1-196	5F1-168	
	Cold (CAC-to-Engine) Pipe		5F1-167	5F1-167 (5F1-174	
Air Cleaner System	Air Cleaner, Bands, Pipes, and Hoses		5M3-073	5M3-089	
Exhaust System	Exhaust Pipe				
	Vertical Muffler w/Rain Cap		N/A 5L2-071	5L2-083 5L2-070	
Service Diagnostic Tools	EMPS3 Diagnostic Tool (PC based)		X-99960-041-0		
20. 1.100 Pingilostic 10013	ECM Pin-Out Box		X-99960-041-0 X-99960-042-0		
	Lom . III out box		^-3330U-U4∠-U		



## Turn-Key Accessories Model Views



