STARTING & CHARGING

0316L–01

SERVICE DATA

3RZ–FE:

Starter assy		
Specified current		90 A or less at 11.5 V
Starter relay		
Specified condition	1 – 2	Continuity
	3 – 5	No continuity
Battery		
Except maintenance–free battery	Standard specific gravity	1.25 – 1.29 at 20 °C (68 °F)
Voltage	at 20 °C (68 °F)	12.5 – 12.9 V
Voltage regulator	Regulating voltage	13.2 – 14.8 V
	Standard amperage	10 A or less

5L–E:

Starter		
No–load characteristics	Current	120 A or less at 11.5 V
Starter Relay		
Specified condition	1 – 2	Continuity
	3 – 5	No continuity
Battery		
Except maintenance–free battery	Standard specific gravity	1.25 – 1.29 at 20 °C (68 °F)
Voltage	at 20 °C (68 °F)	12.5 – 12.9 V
Voltage regulator	Regulating voltage	13.2 – 14.8 V
	Standard amperage	10 A or less
Glow plugs		
Resistance	at 20 °C (68 °F)	Approx. 0.72 Ω
Glow plug relay		
Specified condition	1 – 2	No continuity
	3 – 4	Continuity

1KZ–TE:

Starter (2.2 kW type)		
	Rated voltage and output power	12 V 2.2 kW
No–load characteristics	Current	120 A or less at 11.5 V
Starter (2.7 kW type)		
	Rated voltage and output power	12 V 2.7 kW
No–load characteristics	Current	180 A or less at 11.5 V
Starter relay		
Specified condition	1 – 2	Continuity
	3 – 5	No continuity
Battery		
Except maintenance–free battery	Standard specific gravity	1.25 – 1.29 at 20 °C (68 °F)
Voltage	at 20 °C (68 °F)	12.5 – 12.9 V
Voltage regulator	Regulating voltage	13.2 – 14.8 V
	Standard amperage	10 A or less
Glow plugs		
Resistance	at 20 °C (68 °F)	Approx. 0.72 Ω
Glow plug relay		
Specified condition	1 – 2	Continuity
	3 – 4	No continuity

1KD–FTV:

Starter (2.2 kW type)		
	Rated voltage and output power	12 V 2.2 kW
No–load characteristics	Current	120 A or less at 11.5 V
Starter (2.7 kW type)		
	Rated voltage and output power	12 V 2.7 kW
No–load characteristics	Current	180 A or less at 11.5 V
Starter (3.0 kW type)		
	Rated voltage and output power	12 V 3.0 kW
No–load characteristics	Current	220 A or less at 11.5 V
Starter relay		
Specified condition	1 – 2	Continuity
	3 – 5	No continuity
Battery		
Except maintenance–free battery	Standard specific gravity	1.25 – 1.29 at 20 °C (68 °F)
Voltage	at 20 °C (68 °F)	12.5 – 12.9 V
Voltage regulator	Regulating voltage	13.2 – 14.8 V
	Standard amperage	10 A or less
Glow plugs		
Resistance	at 20 °C (68 °F)	Approx. 0.72 Ω
Glow plug relay		
Specified condition	1 – 2	Continuity
	3 – 4	No continuity