Engine character by model

2022/1/25 DAYTONA JAPAN

	①With E-start	②Big-magneto rotor engines with Lighting system, without E-start					③Big-magneto rotor engines without Lighting system & E-start						④Small-magneto rotor engines without Lighting system & E-start				
Displacement	190	150	190				150	160	190				150	160	190		
E-Start	With E-start	Without E-start system (only Kick start)					Without E-start system (only Kick start)						Without E-start system (only Kick start)				
Lighting system	With Lighting system	With Lighting system					Without Lighting system						Without Lighting system				
Magneto rotor	Big magneto rotor	Big magneto rotor					Big magneto rotor						Small magneto rotor				
Engine Stroke	Square-stroke	Square-stroke				Short-stroke	Square-stroke				Short-stroke		Square-stroke				Short-stroke
Camshaft	ECO	Type LM	ECO		190 STD		Type LM		190 STD				Type LM		190 STD		
Gear	5	4	5	4		5	4		5		4		4			5	4	5
Final Gear ratio	0.917	1.043	0.917		1.043	0.917	1.043		0.917		1.043				0.917	1.043	0.917
CDI selectable Limit & Timing	Non-selectable	Selectable	Non-selectable		Selectable		Selectable						Non-selectable				

MODEL	190FE	150FLX	190FZ5	190FD	190FLX	190SYL (NEW)	190SGL (190SZ)	150FDX	160FDX	190FDX	190FD5	190SGH	190SYH (NEW)	150FSM	160FSM	190FSM	190FS5	190SYS (NEW)	190SGS
Part #	88392	89203	89202	87718	87616	80735	80382	87614	87896	87615	89734	80312	80734	88026	88025	88018	88616	80733	80311
Engine Specifications																			
Displacement	187.2cc	149.7cc	187.2cc	187.2cc	187.2cc	189.9cc	189.9cc	149.7cc	159.7cc	187.2cc	187.2cc	189.9cc	189.9cc	149.7cc	159.7cc	187.2cc	187.2cc	189.9cc	189.9cc
Transmission Type	5-speed STD	4-speed short	5-speed STD	4-speed long	4-speed short	4-speed short	5-speed STD	4-speed short	4-speed short	4-speed short	5-speed STD	5-speed STD	4-speed short	4-speed short	4-speed short	4-speed short	5-speed STD	4-speed short	5-speed STD
Gear Shift Pattern	1-N2345	N-1234	1-N2345	1-N234	N-1234	N-1234	1-N2345	N-1234	N-1234	N-1234	1-N2345	1-N2345	N-1234	N-1234	N-1234	N-1234	1-N2345	N-1234	1-N2345
Primary reduction	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722	3.722
1st	2.429	2.615	2.429	2.615	2.615	2.615	2.429	2.615	2.615	2.615	2.429	2.429	2.615	2.615	2.615	2.615	2.429	2.615	2.429
2nd	1.733	1.733	1.733	1.733	1.733	1.733	1.733	1.733	1.733	1.733	1.733	1.733	1.733	1.733	1.733	1.733	1.733	1.733	1.733
3rd	1.333	1.300	1.333	1.190	1.300	1.300	1.333	1.300	1.300	1.300	1.333	1.333	1.300	1.300	1.300	1.300	1.333	1.300	1.333
4th	1.091	1.043	1.091	0.917	1.043	1.043	1.091	1.043	1.043	1.043	1.091	1.091	1.043	1.043	1.043	1.043	1.091	1.043	1.091
5th	0.917	-	0.917	-	-	-	0.917	-	-	-	0.917	0.917	-	-	-	-	0.917	-	0.917
Starting	**Kick& Electrical Motor**	Kick	Kick	Kick	Kick	Kick	Kick	Kick	Kick	Kick	Kick	Kick	Kick	Kick	Kick	Kick	Kick	Kick	Kick
Camshaft	ECO	Type LM	ECO	ECO	190 STD	190 STD	190 STD	Type LM	Type LM	190 STD	190 STD	190 STD	190 STD	Type LM	Type LM	190 STD	190 STD	190 STD	190 STD
CDI	Non-Selectable	Selectable spark timing & Lev limiter	Non-Selectable	Non-Selectable	Selectable spark timing & Lev limiter	Selectable spark timing & Lev limiter	Selectable spark timing & Lev limiter	Selectable spark timing & Lev limiter	Selectable spark timing & Lev limiter	Selectable spark timing & Lev limiter	Selectable spark timing & Lev limiter	Selectable spark timing & Lev limiter	Selectable spark timing & Lev limiter	Non-Selectable	Non-Selectable	Non-Selectable	Non-Selectable	Non-Selectable	Non-Selectable
Generator - Magneto	BIG Magneto	Big Magneto	Big Magneto	Big Magneto	Big Magneto	Big Magneto	Big Magneto	Big Magneto	Big Magneto	Big Magneto	Big Magneto	Big Magneto	Big Magneto	Small Magneto	Small Magneto	Small Magneto	Small Magneto	Small Magneto	Small Magneto
Generator - Lighting	with	with	with	with	with	with	with	without	without	without	without	without	without	without	without	without	without	without	without