

ANIMA 190FDX ENGINE

Owner's Manual

GENERAL SPECIFICATIONS

ENGINE	
Engine Weight (Dry)	21.5 kg
Engine type	Air Cooled 4-stroke SOHC
Cylinder arrangement	Single cylinder, Horizontally mounted
Displacement (ANIMA150f)	187.18 cm ³
Bore × stroke (ANIMA150f)	62.0 × 62.0 mm (2.441 × 2.441 in)
Compression ratio	12.1 : 1
Starting system	Kick (Kick pedal is NOT included in the Engine Kit) With Auto Decompression System
Lubrication system	Wet sump
Recommended Engine Oil	SAE 10W-40 or higher grade API "SG" or higher grade
Engine oil capacity	
Periodic oil change	0.60 L
With oil filter replacement	0.65 L
Total amount	0.70 L
	* Need more amount of oil when oil cooler is in use
Spark plug	
Type/manufacturer	ER9EH / NGK (resistance type)
Gap	0.6 ~ 0.7 mm (0.024 ~ 0.028 in)
Clutch type	Wet, Multi-plate 6-disc
Transmission	
Primary reduction system	Gear
Primary reduction ratio	67/18 (3.722)
Transmission type	4-Speed
Gear ratio	(Counter / Main)
1st	34/13 (2.6153)
2nd	26/15 (1.7333)
3rd	26/20 (1.3000)
4 th	24/23 (1.0435)
GEAR SHIFT PATTERN	N-1-2-3-4
Electrical	
Ignition system	AC-CDI
Generator system	AC magneto