# DAYTONA ANIMA 190FE ENGINE Owner's Manual

ENGINE No. ANIMA190FE: 2945572152-







#### INTRODUCTION

Thank you for purchasing of an ANIMA Engine.

This manual explains operation, inspection, basic maintenance of the engine.

If you have any questions, please contact the dealer you purchased the engine/bike from.

Please read this manual very carefully before use.



- ANIMA ENGINE is designed strictly FOR COMPETITION USE, ONLY ON A CLOSED COURSE. It is illegal to use this engine on any public road or highway. Off-road use on public space is also illegal.
  - Please check local regulation before use.
- This engine is to be used by EXPERIENCED RIDERS ONLY.
   Fatal accident may be caused unless it is used by experienced riders or maintained by professional and experienced mechanics.
- 3. This engine is to be maintained by professional and experienced mechanics. Serious damage may occur, otherwise.
- 4. This manual explains ONLY THE BASIC operation, inspection and maintenance, but it is customer's responsibility to maintain the engine to the best possible performance, depending on the circumstances of the time.

#### **CUSTOMER'S RESPONSIBILITY & CUSTOMER SERVICE**

#### **GENERAL EXCLUSIONS**

Any failures caused by the following reasons are NOT considered as the defects of Products.

(1) Overheating due to improper engine oil temp. control



# ENGINE OIL TEMPERATURE MUST BE CONTROLLED AT 90 DEGREES CELSIUS (194 DEGREES FAHRENHEIT) OR LOWER.

Serious damage will occur in the engine if engine oil temperature exceeds 90 degrees Celsius or 194 degrees Fahrenheit.

It is solely customer's responsibility to control the engine oil temperature.

- (2) Installation of parts or accessories that is not originally equipped on Products.
- (3) Abnormal strain, neglect, or abuse
- (4) Accident or collision damage
- (5) Modification to original parts
- (6) Lack of proper maintenance
- (7) Damage due to improper transportation or use

#### THE CUSTOMER'S RESPONSIBILITY

THE CUSTOMER'S RESPONSIBILITY shall be:

- (1) Operate and maintain Products as specified in the appropriate Owner's Manual
- (2) Prohibit the modification of the product

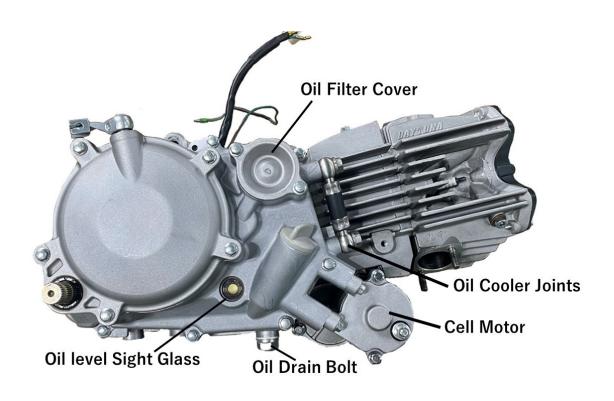
#### **CUSTOMER SERVICE**

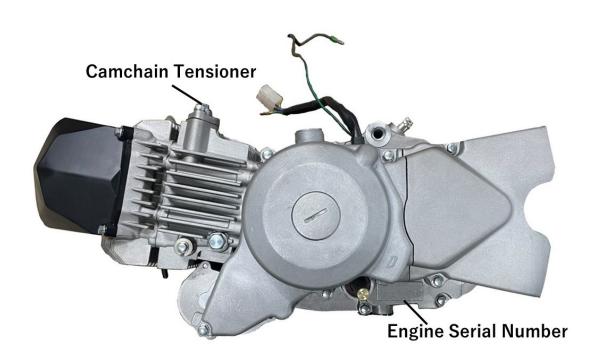
If Products require services, you must take it to the authorized dealer, who is appointed by authorized local distributors of DAYTONA.

DAYTONA Corp. JAPAN is NOT in the position to take care of services of any kind with the customers or authorized dealers due to the contract with authorized local distributors.

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# **GENERAL SPECIFICATIONS**

ENGINE	
Engine Weight (Dry)	22.5 kg
Engine type	Air Cooled 4-stroke SOHC
Cylinder arrangement	Single cylinder, Horizontally mounted
Displacement	187.18 cm3
Bore × stroke	62. 0× 62.0mm
Compression ratio	12.1 : 1
Starting system	E-Start & Kick with Decompression System
	(Kick pedal is NOT included in the Engine Kit)
Lubrication system	Wet sump
Recommended Engine Oil	SAE 10W - 40 or higher grade
	API "SG" or higher grade
Engine oil capacity	
Periodic oil change	0.65 L
With oil filter replacement	0.70 L
Total amount	0.75 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	5-Speed
Gear ratio	(Counter / Main)
1st	34/14 (2.429)
2nd	26/15 (1.733)
3rd	24/18 (1.333)
4th	24/22 (1.091)
5th	22/24 (0.917)
GEAR SHIFT PATTERN	1-N-2-3-4-5
Electrical	
Ignition system	AC-CDI
Generator system	AC magneto

Item	Standard	Limit
Cylinder head		0.05 mm
Warp limit		(0.002 in)
Cylinder:		
Bore size	62.00 - 62.015mm (2.4409 – 2.4415)	
Out of round limit		0.05 mm
		(0.002 in)
Camshaft:		
Drive method	Chain drive (Left)	
Cam dimensions		
H		
Intake "I	d" 29.55 ~ 29.65 mm	29.19 mm
	(1.1634 ~ 1.1673 in)	(1.1492 in)
"[	D"	
Exhaust "I	d" 29.58 ~ 29.68 mm	29.22 mm
	(1.1646 ~ 1.1685 in)	(1.1504 in)
"	D"	

Item	Standard	Limit
Timing chain:		
Timing chain No. of links	94 link	
Timing chain adjustment		
method	Automatic	
Valve, valve seat, valve guide	9:	
Valve clearance (cold)	IN 0.05 ~ 0.07 mm (0.0020~ 0.0028 in)	
E	EX 0.05 ~ 0.07 mm (0.0020~ 0.0028 in)	
Valve dimensions:		
		1.
	l R	
——————————————————————————————————————		====
	'	' 
"A" head diameter IN	24.4 ~ 24.6 mm (0.9606 ~ 0.9685 in)	
EX	20.9 ~ 21.1 mm (0.8228 ~ 0.8307 in)	
"B" face width IN		
EX		
"C" seat width IN	0.8 ~ 1.0 mm (0.0314 ~ 0.03937 in)	1.6 mm (0.0630 in)
EX	0.8 ~ 1.0 mm (0.0314 ~ 0.03937 in)	1.6 mm (0.0630 in)
"D" margin thickness IN		
EX	4.470	4.40 mana (0.4740 in)
Stem outside diameter IN	4.470 ~ 4.485 mm(0.17598 ~ 0.1766 in)	4.42 mm (0.1740 in)
EX Cuido incido diameter IN	4.470 ~ 4.485 mm(0.17598 ~ 0.1766 in)	4.42 mm (0.1740 in)
Guide inside diameter IN  EX	4.500 ~ 4.512 mm(0.17716 ~ 0.1776 in)	4.55 mm(0.1791 in)
	4.500 ~ 4.512 mm(0.17716 ~ 0.1776 in)	4.55 mm(0.1791 in)
Stem-to-guide clearance IN	0.015 ~ 0.042 mm(0.0005 ~ 0.0016 in) 0.03 ~ 0.057 mm(0.0011 ~ 0.0022 in)	0.08 mm(0.003 in) 0.10 mm(0.004 in)
	0.03 ~ 0.037 11111(0.0011 ~ 0.0022 111)	0.10 11111(0.004 111)
Valve spring:		
Free length		
IN ( φ 16.2)	42.59 mm(1.6767 in)	40.38 mm(1.5897 in)
EX ( φ 16.2)	42.59 mm(1.6767 in)	40.38 mm(1.5897 in)
LΛ (ψ 10.2)	72.00 mm (1.0707 m)	70.00 Hilli (1.0037 III)

Item	Standard	Limit
Piston:		
Piston to cylinder clearance	0.01 ~ 0.04 mm	0.1mm(0.004 in)
	(0.00039 ~ 0.00157in)	
Piston size "D"	61.975 ~ 61.99 mm	
H	(2.4399 ~ 2.4405 in)	
Measuring point "H"	8 mm (0.31 in)	
Piston off-set		
Piston pin bore inside	14.002 ~ 14.013 mm	14.06 mm
diameter	(0.5513 ~ 0.5517 in)	(0.5535 in)
Piston pin outside diameter	13.995 ~ 13.998 mm	13.97 mm
'	(0.5510 ~ 0.5511 in)	(0.55 in)
Piston rings:	,	
Top ring:		
Dimensions (H × W)	0.8 × 2.25 mm (0.06 × 0.09 in)	
End gap (installed)	0.05 ~ 0.20 mm (0.006 ~ 0.010 in)	0.4 mm (0.020 in)
Side clearance (installed)	0.015 ~ 0.045 mm(0.0012 ~ 0.0026in)	0.10 mm (0.005 in)
2nd ring:		
Dimensions (H × W)	0.8 × 2.25 mm (0.06 × 0.09 in)	
End gap (installed)	0.05 ~ 0.20 mm (0.006 ~ 0.010 in)	0.4 mm (0.031 in)
Side clearance	0.015 ~ 0.045 mm(0.0012 ~ 0.0026in)	0.10 mm (0.005 in)
Oil ring:		
Dimensions (H × W)	1.50 × 2.25 mm (0.06 × 0.09 in)	
End gap (installed)	0.2 ~ 0.7 mm (0.004 ~ 0.016 in)	0.9 mm (0.005 in)

Item	Standard	Limit
Crankshaft:		
Crank width "A"	42.2 mm (1.66142 in)	
Runout limit "C"	0.03 (one-side)	0.1 mm (0.0039 in)
Big end side clearance "D"	0.1 ~ 0.35 mm (0.0039 ~ 0.0137 in)	0.6 mm (0.0236 in)
Small end free play "E"		
C C C A D		
Clutch:		
Friction plate thickness	2.9 ~ 3.1 mm (0.114 ~ 0.122 in)	2.7 mm (0.106 in)
Quantity	6	
Clutch plate thickness	1.4 ~ 1.5 mm (0.055 ~ 0.059 in)	1.2 mm (0.0472 in)
Quantity	5	
Warp limit		0.2 mm (0.0787 in)
Clutch spring free length		
Quantity	4	

# **MAINTENANCE INTERVALS**

Item	After break-in (50km)	Every race	Every third (or 500 km)	Every fifth (or 1,000 km)	As requir ed	Remarks
ENGINE OIL	,		,			
Replace	•	•				
Inspect					•	
ENGINE VALVES						The engine must
Check the valve	•		•			be cold.
clearances						Check the valve
Inspect			•			seats and valve
Replace					•	stems for wear.
VALVE SPRINGS						Check the free
Inspect			•			length and the tilt.
Replace					•	
CAMSHAFTS						Inspect the
Inspect			•			camshaft surface.
Replace					•	
TIMING CHAIN						Check for wear on
SPROCKETS, TIMING						the teeth and for
CHAIN			•			damage.
Inspect					•	
Replace						
PISTON						Inspect crack
Inspect			•		•	Inspect carbon
Clean					•	deposits and
Replace					•	eliminate them.

# **MAINTENANCE INTERVALS**

PISTON RING Inspect Replace PISTON PIN Inspect Replace CYLINDER HEAD Inspect and clean Replace CLUTCH Inspect and adjust Replace CLUTCH Conspect AND CONSPECT CONSPECT AND CONSPECT CONSPECT AND CONSPECT CONSPECT AND CONS	Item	After	Every	Every	Every	As	Remarks
PISTON RING Inspect Replace PISTON PIN Inspect Replace PISTON PIN Inspect Replace CYLINDER HEAD Inspect and clean Replace CYLINDER Inspect and clean Replace CYLINDER Inspect and clean Replace CYLINDER Inspect and clean Replace CUTCH Inspect and adjust Replace CLUTCH Inspect and adjust Replace CSHIFT FORK, SHIFT CAM, GUIDE BAR Inspect Replace CROTOR NUT Retighten CRANK Inspect and align CARBURETOR CHeck ring end gap Check ring end gap Check ring end gap  Check ring end gap  Check ring end gap  Check ring end gap  Check ring end gap  Check ring end gap  Check ring end gap  Check ring end gap  Inspect carbon deposits and deposits and eliminate them. Change gasket Inspect score marks Inspect wear of gear and bearings  Inspect wear of gear and bearings		break-	race	third	fifth	requir	
PISTON RING Inspect Replace  PISTON PIN Inspect Replace  CYLINDER HEAD Inspect and clean Replace  CYLINDER Inspect and dean Replace  CYLINDER Inspect and dean Replace  CYLINDER Inspect and dean Replace  CUTCH Inspect and adjust Replace  CLUTCH Inspect and adjust Replace  CLUTCH Inspect and adjust Replace  CHITCH Inspect and adjust Replace  CHITCH Inspect and adjust Replace  CHITCH Inspect wear Inspect wear Inspect wear Inspect Replace  CHITCH Inspect wear Inspect Replace Inspect Replace  CHITCH Inspect wear Inspect Replace Inspec				•	*	e-ed	
Inspect Replace  PISTON PIN Inspect Replace  CYLINDER HEAD Inspect and clean Replace  CYLINDER Inspect and clean Replace  CYLINDER Inspect and clean Replace  CYLINDER Inspect and clean Replace  CUTCH Inspect and adjust Replace  CLUTCH Inspect and adjust Replace  CHANK Inspect and adjign  CARBURETOR		(50km)		km)	km)		
Replace  PISTON PIN Inspect Replace  CYLINDER HEAD Inspect and clean Replace  CYLINDER Inspect and clean Replace  CYLINDER Inspect and clean Replace  CUTCH Inspect and adjust Replace  CLUTCH Inspect and adjust Replace  CLUTCH Inspect and adjust Replace  CHANK Inspect and adjign  CARBURETOR							Check ring end
PISTON PIN Inspect Replace  CYLINDER HEAD Inspect and clean Replace  CYLINDER Inspect and clean Replace  CYLINDER Inspect and clean Replace  CYLINDER Inspect and clean Replace  CLUTCH Inspect and adjust Replace  CLUTCH Inspect and adjust Replace  TRANSMISSION Inspect Replace  SHIFT FORK, SHIFT CAM, GUIDE BAR Inspect Replace  ROTOR NUT Retighten  CRANK Inspect and align  CARBURETOR	Inspect			•			gap
Inspect Replace  CYLINDER HEAD Inspect and clean Replace  CYLINDER Inspect and clean Replace  CYLINDER Inspect and clean Replace  CYLINDER Inspect and clean Replace  CLUTCH Inspect and adjust Replace  CLUTCH Inspect and adjust Replace  TRANSMISSION Inspect Replace  SHIFT FORK, SHIFT CAM, GUIDE BAR Inspect Replace  ROTOR NUT Retighten  CARBURETOR	Replace			•		•	
Replace  CYLINDER HEAD Inspect and clean Replace  CYLINDER Inspect and clean Replace  CYLINDER Inspect and clean Replace  CYLINDER Inspect and clean Replace  CLUTCH Inspect and adjust Replace  CLUTCH Inspect and adjust Replace  Clutch plate and spring  TRANSMISSION Inspect Replace  SHIFT FORK, SHIFT CAM, GUIDE BAR Inspect Replace  ROTOR NUT Retighten  CRANK Inspect and align  CARBURETOR	PISTON PIN						
CYLINDER HEAD Inspect and clean Replace  CYLINDER Inspect and clean Replace  CYLINDER Inspect and clean Replace  CYLINDER Inspect and clean Replace  CLUTCH Inspect and adjust Replace  Clutch plate and spring  TRANSMISSION Inspect Replace  SHIFT FORK, SHIFT CAM, GUIDE BAR Inspect Replace  ROTOR NUT Retighten  CARBURETOR	Inspect			•			
Inspect and clean Replace  CYLINDER Inspect and clean Replace  CYLINDER Inspect and clean Replace  CLUTCH Inspect and adjust Replace  CLUTCH Inspect and adjust Replace  TRANSMISSION Inspect Replace  SHIFT FORK, SHIFT CAM, GUIDE BAR Inspect Replace  ROTOR NUT Retighten  CARBURETOR	Replace					•	
Replace  CYLINDER Inspect and clean Replace  CLUTCH Inspect and adjust Replace  Clutch plate and spring  TRANSMISSION Inspect Replace  SHIFT FORK, SHIFT CAM, GUIDE BAR Inspect Replace  ROTOR NUT Retighten  CRANK Inspect and align  CARBURETOR	CYLINDER HEAD						Inspect carbon
CYLINDER Inspect and clean Replace  CLUTCH Inspect and adjust Replace  TRANSMISSION Inspect Replace  SHIFT FORK, SHIFT CAM, GUIDE BAR Inspect Replace  ROTOR NUT Retighten  CRANK Inspect and align  CARBURETOR	Inspect and clean			•			deposits and
CYLINDER Inspect and clean Replace  CLUTCH Inspect and adjust Replace  TRANSMISSION Inspect Replace  SHIFT FORK, SHIFT CAM, GUIDE BAR Inspect Replace  ROTOR NUT Retighten  CRANK Inspect and align  CARBURETOR	Replace					•	eliminate them.
Inspect and clean Replace  CLUTCH Inspect and adjust Replace  TRANSMISSION Inspect Replace  SHIFT FORK, SHIFT CAM, GUIDE BAR Inspect Replace  ROTOR NUT Retighten  CRANK Inspect and align  CARBURETOR							Change gasket
Replace  CLUTCH Inspect and adjust Replace  TRANSMISSION Inspect Replace  SHIFT FORK, SHIFT CAM, GUIDE BAR Inspect Replace  ROTOR NUT Retighten  CRANK Inspect and align  CARBURETOR	CYLINDER						Inspect score
CLUTCH Inspect and adjust Replace  TRANSMISSION Inspect Replace  SHIFT FORK, SHIFT CAM, GUIDE BAR Inspect Replace  ROTOR NUT Retighten  CRANK Inspect and align  CARBURETOR	Inspect and clean			•			marks
Inspect and adjust Replace  TRANSMISSION Inspect Replace  SHIFT FORK, SHIFT CAM, GUIDE BAR Inspect Replace  ROTOR NUT Retighten  CARNK Inspect and align  CARBURETOR	Replace					•	Inspect wear
Replace  Clutch plate and spring  TRANSMISSION Inspect wear of gear and bearings  Replace  SHIFT FORK, SHIFT CAM, GUIDE BAR Inspect Replace  ROTOR NUT Retighten  CRANK Inspect and align  CARBURETOR	CLUTCH						Inspect housing,
TRANSMISSION Inspect Replace  SHIFT FORK, SHIFT CAM, GUIDE BAR Inspect Replace  ROTOR NUT Retighten  CRANK Inspect and align  CARBURETOR	Inspect and adjust	•	•				friction plate,
TRANSMISSION Inspect Replace  SHIFT FORK, SHIFT CAM, GUIDE BAR Inspect Replace  ROTOR NUT Retighten  CRANK Inspect and align  CARBURETOR	Replace					•	clutch plate and
Inspect Replace  SHIFT FORK, SHIFT CAM, GUIDE BAR Inspect Replace  ROTOR NUT Retighten  CRANK Inspect and align  CARBURETOR							spring
Replace  SHIFT FORK, SHIFT CAM, GUIDE BAR Inspect Replace  ROTOR NUT Retighten  CRANK Inspect and align  CARBURETOR	TRANSMISSION						Inspect wear of
SHIFT FORK, SHIFT CAM, GUIDE BAR Inspect Replace ROTOR NUT Retighten  CRANK Inspect and align  CARBURETOR	Inspect				•		gear and bearings
CAM, GUIDE BAR Inspect Replace ROTOR NUT Retighten CRANK Inspect and align CARBURETOR	Replace					•	
CAM, GUIDE BAR Inspect Replace ROTOR NUT Retighten CRANK Inspect and align CARBURETOR	SHIFT FORK, SHIFT						Inspect wear
Inspect Replace  ROTOR NUT Retighten  CRANK Inspect and align  CARBURETOR	CAM, GUIDE BAR						
Replace  ROTOR NUT  Retighten  CRANK Inspect and align  CARBURETOR	Inspect				•		
ROTOR NUT Retighten  CRANK Inspect and align  CARBURETOR						•	
Retighten  CRANK Inspect and align  CARBURETOR	-						
CRANK Inspect and align CARBURETOR		•			•		
Inspect and align  CARBURETOR		_					
CARBURETOR					•	•	
						_	
HISDEUL AURSE LIEATI   👿   💆	Inspect, adjust, clean		•				

# **MAINTENANCE INTERVALS**

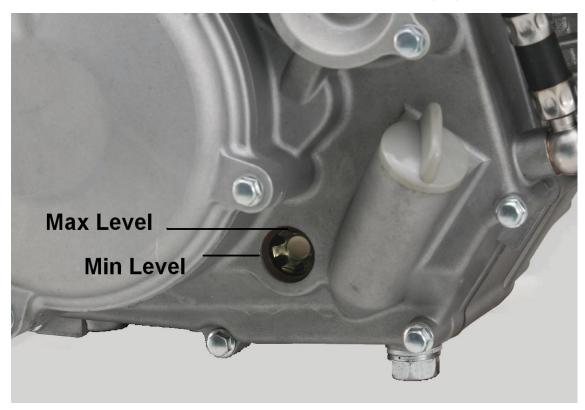
Item	After break-in (50km)	Every race	Every third (or 500 km)	Every fifth (or 1,000 km)	As requir e-ed	Remarks
SPARK PLUG						
Inspect and clean	•		•			
Replace					•	
OIL COOLING						
SYSTEM(Option)						
Check hoses &	•	•				
leakage						
Replace hoses and					•	
gaskets						
AIR FILTER (Option)						Use foam air-filter
Clean and lubricate	•	•				oil or equivalent oil
Replace					•	
OIL FILTER						
Replace	•	•				
OIL STRAINER						
Clean				•		

Before riding for break-in operation, practice or a race, make sure the engine is in good operating condition.

Before using this engine, check the following points.

#### **ENGINE OIL LEVEL INSPECTION**

- 1. Start the engine, warm it up for several minutes, and then turn off the engine and wait for a few minutes.
- 2. Place the bike on a level place and hold it up on upright position.
- Check the oil level through the sight glass.
   Oil level should be between the upper and the central point of the sight glass.



4. Add oil to proper level



Add oil as necessary, when install the oil cooler.

#### **CARBURETOR SETTING**

The carburetor is extremely sensitive to foreign matter (dirt, sand, water, etc.).

During installation, do not allow foreign matter to get into the carburetor.

Always handle the carburetor and its components carefully. Even slight scratches, bends or damage to carburetor parts may prevent the carburetor from functioning correctly.

Carefully perform all servicing with the appropriate tools and without applying excessive force.

After installing the carburetor, check that the throttle operates correctly and opens and closes smoothly.

It is highly recommended that the carburetor setting is performed by an experienced mechanic to obtain the best possible performance.

Atmospheric conditions and carburetor settings

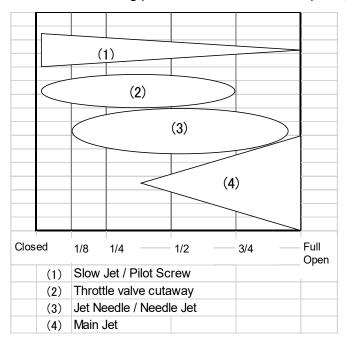
Air Temp.	Humidity	Air Pressure (Altitude)	Mixture	Setting
High	High	Low	Richer	Leaner
		(High)		
Low	Low	High	Leaner	Richer
		(Low)		

The air density (i.e., concentration of oxygen in the air) determines the richness or leanness of the air/fuel mixture. Therefore, refer to the above table for mixture settings.

#### That is:

- Higher temperature expands the air with its resultant reduced density.
- Higher humidity reduces the amount of oxygen in the air by so much of the water vapor in the same air.
- Lower atmospheric pressure (at a high altitude) reduces the density of the air.

Effects of the setting parts on the throttle valve opening



Here is the recommended setting information of TK MV33-1F and PE28 carburetor, for your reference.

#### **Tested Conditions**

Carburetor TK MV33-1F (DT#88600)

Air Temperature 35 degrees Celsius

Humidity 50%

Atmospheric Pressure 1003 hPa

with UNI Air Filter (#UP-4200ST)

Fuel Octane#100

Item	Recommendation
Main Jet	#129
Slow Jet	#38
Main No	φ 2.600
Jet Needle	5A11
	Clip position: In the 5 <sup>th</sup> groove from the top
Pilot screw	2 return

Carburetor KEIHIN PE28 (DT#85707)

Air Temperature 20 degrees Celsius

Humidity 50%

Atmospheric Pressure 1000 hPa with UNI Air Filter (#UP-4200ST)

Fuel Octane#100

Item	Recommendation
Main Jet	#122 (DT#87004)
Slow Jet	#38 (DT#89672)
Throttle Valve	#3.0
	(Original of DT#85707)
Jet Needle	#65414 / 46JFQ (-2 / \$\phi\$ 2.505)
	or
	46JFN : Original of KEIHIN PE28 (DT#85707)
	Clip position: In the 2 <sup>nd</sup> or 3 <sup>rd</sup> groove from the top
Air screw	2 return

#### ENGINE OIL TEMPERATURE CONTROL



#### WARNING

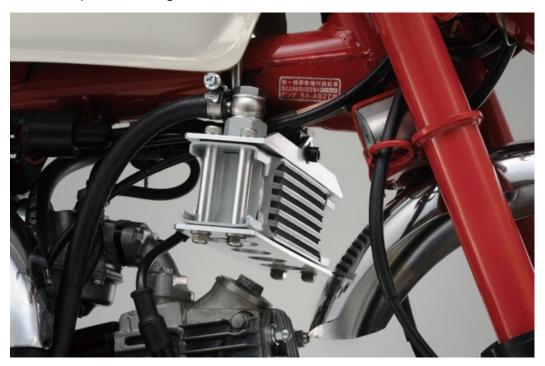
Engine oil temperature is to be strictly controlled at 90 degrees Celsius (194 degrees Fahrenheit) or lower.

Serious damage will occur in the engine if engine oil temperature exceeds 90 degrees Celsius or 194 degrees Fahrenheit.

It is solely customer's responsibility to control the engine oil temperature.

Any failures caused by overheating are NOT considered as the defects of Products.

It is highly recommended to use HIGH-EFFICIENT OIL COOLER and OIL TEMPERATURE GAUGE to protect the engine.



The above OIL COOLER is just a recommendation.

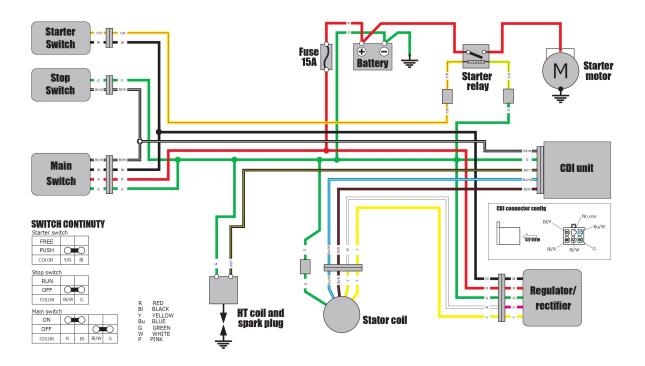
Engine oil temperature can be heated up over 90 degrees Celsius or 194 degrees Fahrenheit, even if the above recommended OIL COOLER is used.

Again, customer needs to control the oil temperature very carefully.

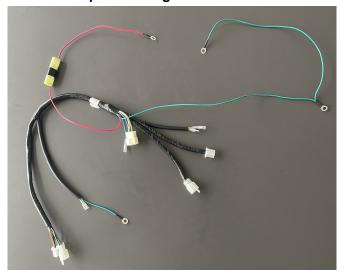


**ATTENTION** 

Wiring Harness is not included in the Anima FE Engine Kit.



DT#89416: Option Wiring Harness for Anima190FE



## **TIGHTENING TORQUE**

# Standard

Size	Tightening Torque	Size	Tightening Torque
	N.m (kgf.m)		N.m (kgf.m)
5mm Bolt, Nut	5.2 (0.5)	5mm Screw	4.2 (0.4)
6mm Bolt, Nut	10 (1.0)	6mm Screw	9.0 (0.9)
8mm Bolt, Nut	22 (2.2)	6mm Screw (Small Flange)	10 (1.0)
10mm Bolt, Nut	34 (3.5)	6mm Screw (Large Flange)	12 (1.2)
12mm Bolt, Nut	54 (5.5)	8mm Flange Bolt, Nut	27 (2.8)
		10mm Flange Bolt, Nut	39 (4.0)

# Others

Nut M8, Cylinder Head: 22N.m (2.2kgf.m)

Nut M14, Clutch center and Primary Gear: 44N.m (4.5kgf.m)

Nut M12, Magnet Rotor: 59N.m (6.0kgf.m)

Bolt M12, Oil Drain: 24N.m (2.4kgf.m)

