





50 cc IAE

TECHNICAL NETWORK LEADERSHIP

Datasheet

Reference: 757886

GENERAL CHARACTERISTICS

SPECIFICATIONS

Company name: Jet C-Tech
Official type-approval code: A1AAAA

DIMENSIONS

Length: 1915 mm
Width: 720 mm
Height (without rear-view mirrors): 1165 mm
Ground clearance: 137 mm
Wheelbase: 1340 mm

WEIGHT

Unladen weight: 114 kg

STEERING

Steering column mounted with ball-bearing cone and cup.

CAPACITIES AND RECOMMENDATIONS

Fuel tank (including reserve) : 7.8 l : super unleaded petrol (95 or 98) only.
Oil tank: 1.2 l: Semi synthetic for 2 stroke engines with separate oiling. Complies with standards: API TC or ISO EGC or ISO EGD
Crankcase: *
Cooling system: 1.3 l
Relay box: 0.12 l SAE 80W90
Fork: 0.12 l per tube (ESSO UNIVIS 46 or AGIP H LIFT 46)
Braking circuit: DOT 4

LUBRICATION

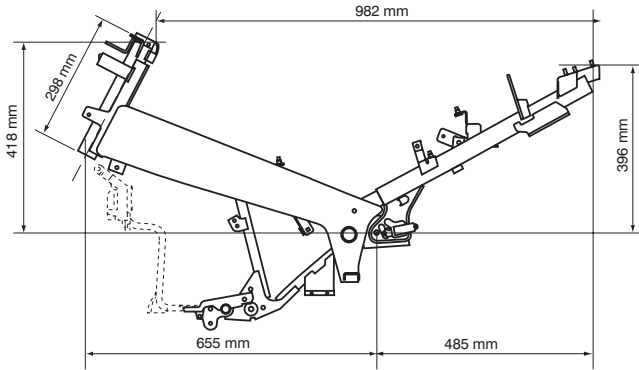
Separate lubrication by Dell'orto electric pump driven by the control unit. The oil is injected directly into the carburettor.

OIL PUMP CONTROL UNIT

Type: Electric
Make: Dell'orto

COOLING

Cooling by pump driven water circulation driven by the rotor of the flywheel magneto.



ENGINE

2-stroke single-cylinder. Air injected into the exhaust system and catalytic converter.
Direct intake via valves into the crankcase.
Scavenging by 5 transfer ports.
Cubic capacity: 49.9 cc
Bore x stroke: 39.9 x 39.8 mm
Max. power output: 3.6 kW
Max. power rating: 7300 rpm
Max. torque rating: 7000 rpm

AIR PUMP

Type: Piston pump
Make: Dell'orto

TRANSMISSION

By 2 variable pulleys and V-type belt. 6 roller type drive pulley mounted on the left shank of the crankshaft. Fixed flange of the pulley equipped with cooling fins to cool the belt.
Driven/centrifugal 3 block lined clutch pulley mounted on the end of the relay box input shaft.

RELAY BOX

By shaft and pinions. Double set of pinions.
1st gear teeth set: Helical.
2nd gear teeth set: Helical.

SUSPENSION

Type of front suspension: Hydraulic telescopic fork.
Travel: 85 mm
Type of rear suspension: Combined spring and hydraulically-damped shock absorber.
Travel: 95 mm

FRONT BRAKE

Single disc type, hydraulic control.
Diameter of brake pistons: 2 pistons of 32 mm
Disc diameter and thickness: 226 mm - 4 mm
Mini. thickness: 3.5 mm
Diameter of the master-cylinder: 11 mm

REAR BRAKE

Single disc type, hydraulic control.
Diameter of brake pistons: 2 pistons of 30 mm
Disc diameter and thickness: 190 mm - 3.5 mm
Mini. thickness: 3 mm
Diameter of the master-cylinder: 12 mm

WHEELS AND TYRES

Integral aluminium wheels and tubeless tyres.

	Front	Rear
Rim dimensions	3" x 12"	3.5" x 12"
Tyres dimensions	120/70 - 12	130/70 - 12
Pressures (bar)	1.6	1.8
Max. wheel lateral runout	0.8 mm	0.8 mm
Balance	*	*

TIGHTENING TORQUES

ENGINE

Cylinder head: 12 to 15 Nm
Exhaust mounting on the cylinder: 15 to 18 Nm
Crankcase: 8 to 12 Nm
Spark plug: 20 Nm

CYCLE PART

Engine mounting on connecting rod: 57 to 70 Nm
Front wheel: 60 to 70 Nm
Upper nut on the steering column: 70 to 80 Nm
Rear wheel: 100 to 120 Nm
Shock-absorber mounting rear, upper: 43 to 50 Nm
Lower: 20 to 25 Nm
Front brake caliper: 25 to 35 Nm
Front brake disc: 27 to 32 Nm
Rear brake caliper: 25 to 35 Nm
Rear brake disc: 27 to 32 Nm

ADJUSTMENTS AND CHECKS

CYLINDER/PISTON

Piston ring gap.
Upper: 0.025 ± 0.01 mm
Lower: 0.025 ± 0.01 mm

CONNECTING ROD/CRANKSHAFT

Crankshaft run-out: 0.05 mm

CARBURETION

Carburettor.
Make and model: GURTNER PYA
Adjustment: 419
Main jet: 55
Idle jet: 42
Needle: L3035F
Starter jet: 45
Mixture screw: 1 tr 1/4
Idle setting: 1600 rpm ± 200
Adjustment % CO: *
Heater element.

IGNITION

Ignition unit: CDI
Spark plug: NGK CR7EB
Electrode gap: 0.6 to 0.7 mm
Ignition advance: fixed 13°
Ignition coil: TEC MP11 or T11C X7A
Primary coil resistance: 0.26 Ω ± 20 %
Secondary coil resistance: 3 kΩ ± 20 %
Spark plug cap resistance: 5 kΩ ± 20 %
Pick-up resistance: 120 Ω ± 10 %
Ignition coil resistance: 550 Ω ± 20 %

ELECTRICITY

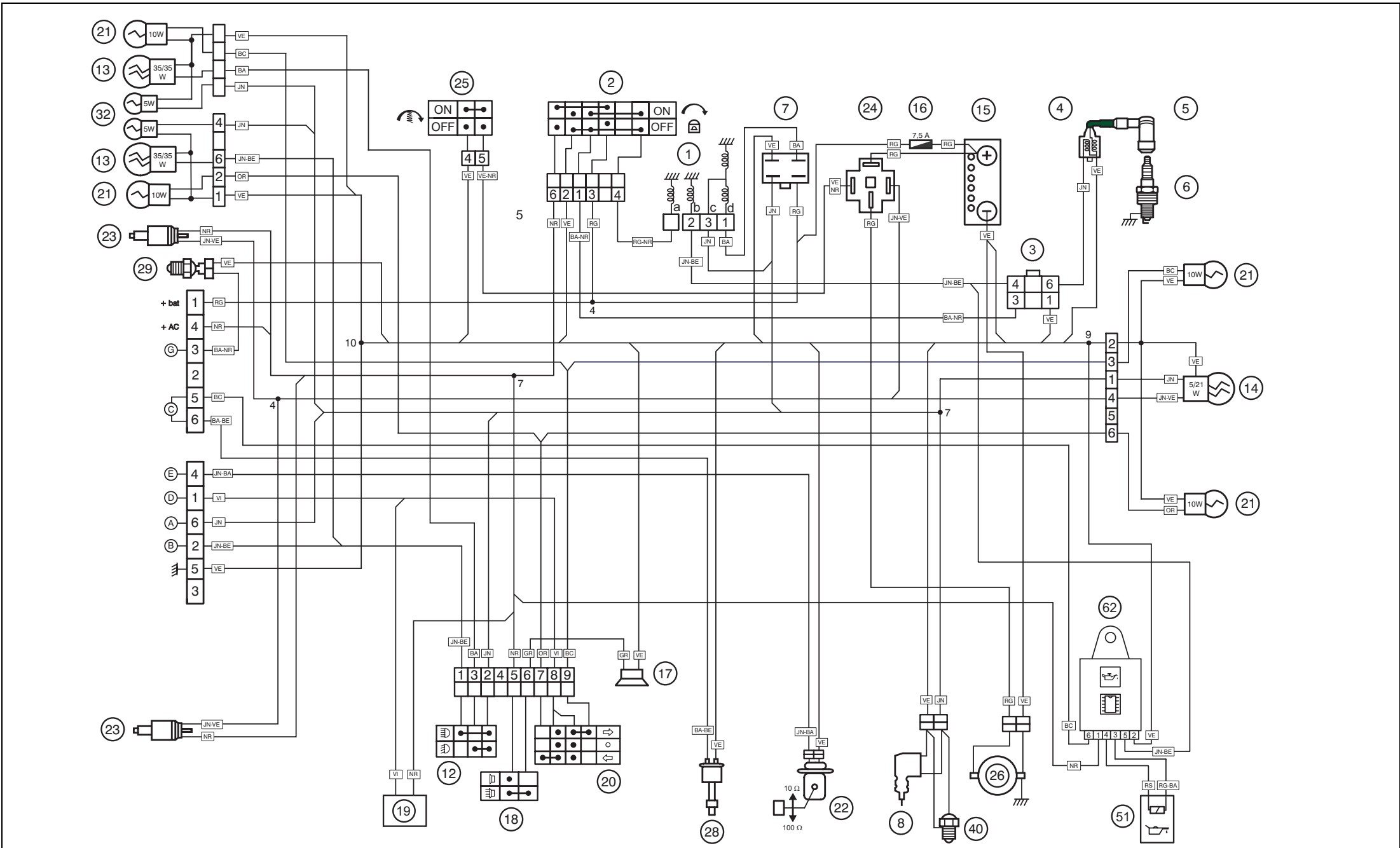
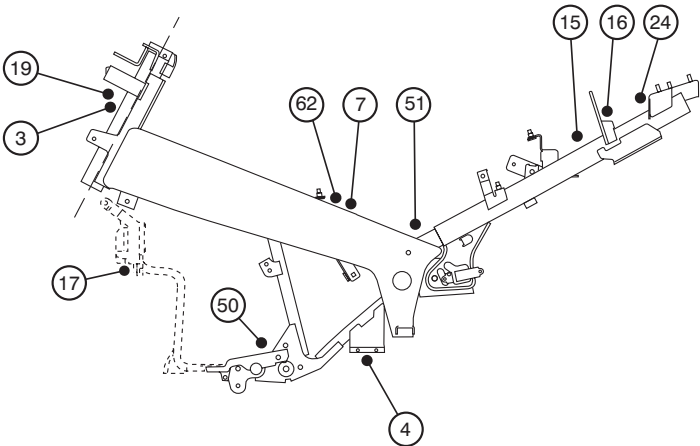
Current generator (type and power): AC/DC 89 W
Make: KOKUSAN
Stator resistance: Yellow wire 0.6 Ω - White wire 0.7 Ω ± 25 %
Battery regulation voltage: 14.5 ± 0.5 V
Battery (type and capacity): YUHASA YB4L-B or FIAMM 6ES-12 - 12V 4Ah
Lighting voltage: Alternating current regulated at: 13.1 ± 0.5 V

STARTER MOTOR

Power: 150 W / 160 W
Make: MITSUBA / MORIC

LIGHTING AND FUSES

	Quantity	Power
Headlamp (low beam)	2	12V - 35/35W
Tail light and stop light	1	12V - 21/5W
Indicator lamps	4	12V - 10W
Number plate lightning	*	*
Dash board lighting	3	12V-2W
Instrument panel indicator lamps	4	12V-1,2W
Main fuse	1	7.5A
Signalling fuse	*	*
"Side light" bulbs	2	12V-5W



A Instrument panel lightning	15) Battery	42) Switch "Reserve"	BA: White	VC: Light green
B Main beam control	16) Fuses	43) Speed sensor	BA-BE: White/blue	VE: Green
C Low oil level warning light	17) Horn	44) Saddle lock	BA-NR: White/black	VE-NR: Green/black
D Direction indicator warning light/Hazard warning lights	18) Horn switch	45) Diagnostic plug	BC: Light blue	VI: Purple
E Fuel gauge	19) Flasher unit	46) Air injector	BE: Blue	
F LED "Anti theft device"	20) Indicator relay	47) Petrol injector	GR: Grey	
G Temperature gauge	21) Blinking lights bulbs	48) Throttle unit	JN: Yellow	
H Warning light "reserve"	22) Fuel gauge	50) Petrol pump	JN-BA: Yellow/white	
1) Magneto flywheel	23) Stop light switch	51) Oil pump	JN-BE: Yellow/blue	
a) Ignition	24) Starter motor relay	52) Ignition and injection control unit	JN-NR: Yellow/black	
b) Sensor	25) Starter motor switch	53) Idle valve	JN-VE: Yellow/green	
c) Alternating current	26) Electric starter motor	54) Altimetric and air temperature sensor	MC: Light brown	
d) Battery charge current	28) Mini oil level switch	55) Blinking light relay	MF: Dark brown	
2) Ignition switch	29) Temperature sensor	56) Blinking light relay	MR: Brown	
3) CDI unit	30) Immobilizer	57) ABS/PBS relay	MR-BA: Brown/white	
4) Ignition coil (high voltage)	31) Transponder antenna	58) Fuel pump relay	NR: Black	
5) Spark plug socket 5 kΩ	32) "Side light" bulb	59) Hazard warning lights switch	OR: Orange	
6) Resistive spark plug 5 kΩ	33) Number plate light	60) ABS/PBS	RG: Red	
7) Diode regulator	36) Neutral contactor	61) Lighting relay	RG-BA: Red/white	
8) Choke	37) Oil pressure switch	62) Oil pump control unit	RG-JN: Red/yellow	
12) Dip switch (main/low headlight)	38) Cooling fan		RG-NR: Red/black	
13) Headlight bulb	39) Thermo-switch cooling fan		RS: Pink	
14) Stop/tail bulb	40) Carburettor electric heating			