

TECHNICAL NETWORK LEADERSHIP

50cc TSDI

Datasheet

Reference : 755972

GENERAL CHARACTERISTICS :

SPECIFICATIONS :

Company name : Looxor I 50 cc

Mines type ** : B1AAJA

(** official French body responsible for regulating weights and measures and changes made to motor vehicles)

DIMENSIONS (in mm) :

Length : 1925

Width : 716

Height (without rear-view mirrors) : 1126

Ground clearance : 130

Wheel base : 1311

WEIGHT (in kg) :

Laden weight : 100

STEERING :

Steering column mounted with ball-bearing cone and cup.

CAPACITIES (in litres) and RECOMMENDATIONS :

Fuel tank (including reserve) : 8 : super unleaded petrol 95 or 98 only.

Oil sump : 1,2 : semi synthetic for two stroke engines with separate oiling. Complies with API TC or ISO EGC or ISO EGD.

Crankcase : *

Cooling system : *

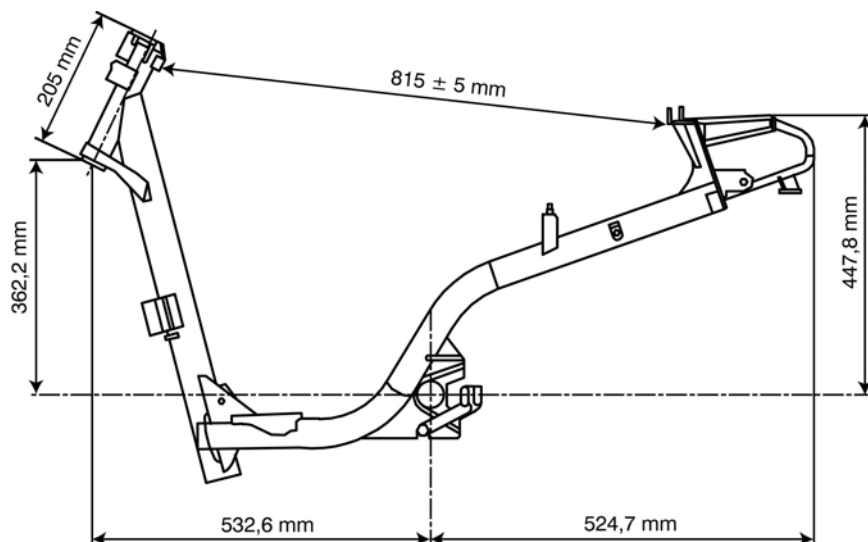
Relay box : 0,12 . SAE 80W90

Fork : 0,07 per tube (ESSO UNIVIS 46 or AGIP H LIFT 46)

Braking circuit : DOT 4

LUBRICATION :

Separate lubrication by electric pump MIKUNI ESOP-03 driven by the control unit. The oil is injected directly into the inlet hose.



* : Not completed

COOLING :

By air circulation forced by a turbine fixed on the rotor of the flywheel magneto.

ENGINE :

2 stroke single-cylinder.

Direct intake via valves into the crankcase.

Scavenging by 5 transfers.

Cylinder capacity : 49,1 cm³

Bore 1 shore : 40 x 39,1

Max power : 3 kW

Max power rating : 7000 rpm

Max torque rating : 6500 rpm

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 : straight.

SUSPENSION :

Front suspension type : hydraulic telescopic fork.

Travel : 90 mm

Rear suspension type : combined hydraulic spring-shock absorber.

Travel : 80 mm

FRONT BRAKE :

Single disc type, hydraulic control.

Diameter of the brake piston : 32 mm

Disc diameter and thickness : 226 - 4 mm

Mini thickness : 3 mm

Diameter of the master-cylinder : 11 mm

REAR BRAKE (depending on model) :

Single cam drum type controlled by cable.

Brake drum diameter : 110 mm

Brake lining thickness : 3 mm or 3,8 mm.

WHEELS AND TYRES :

Integral aluminium wheels and tubeless tyres.

	Front	Rear
Rim dimensions :	1,85" x 16"	2,5" x 16"
Tyres dimensions :	80/80 - 16	100/70 - 16
Pressures (bar) :	1,8	2
Maxi wheel disc :	*	*
Balance :	*	*

TIGHTENING TORQUES (Nm) :

ENGINE :

Cylinder head : 12 to 15

Exhaust mounting on the cylinder : 15 to 18

Crankcase : 8 to 12

Spark plug : 10 to 12

CYCLE PART :

Engine mounting on connecting rod : 60 to 70

Front wheel : 60 to 70

Upper nut on the steering column : 70 to 80

Rear wheel : 100 to 120

Shock-absorber mounting rear, upper : 43 to 50

Inner : 20 to 25

Front brake calliper : 25 to 35

Front brake disc : 27 to 32

ADJUSTMENTS AND CHECKS :

CYLINDER / PISTON :

Ring gap clearance.

Upper : 0,025 ± 0,01 mm

Lower : 0,025 ± 0,01 mm

CONNECTING ROD / CRANKSHAFT :

Crankshaft run-out : 0,12 mm

SUPPLY CIRCUIT :

Gas pump : Synerject 5,2 l/h : 358-014.

Pressure regulator to 2,5 bar driven by air pressure

Gas injector : green Siemens 37.028 0,67 g/s to 2,5 bar

Air injector : blue Synerject 37.073

Compressor : Synerject

Disc box : Bing 235011

Temperature probe : Synerject

IGNITION :

Ignition and injection control unit : Synerjectt
Spark plug : NGK CPR8E
Electrode gap : 0,55 mm
Ignition advance : cartographicic
Ignition coil : Synerject
Primary winding resistance : 0,63 Ω ± 20 %
Secondary winding resistance : *
Spark plug cap resistance : 5 kΩ ± 10 %
Pick-up resistance : 120 Ω ± 10 %

ELECTRICAL EQUIPMENT :

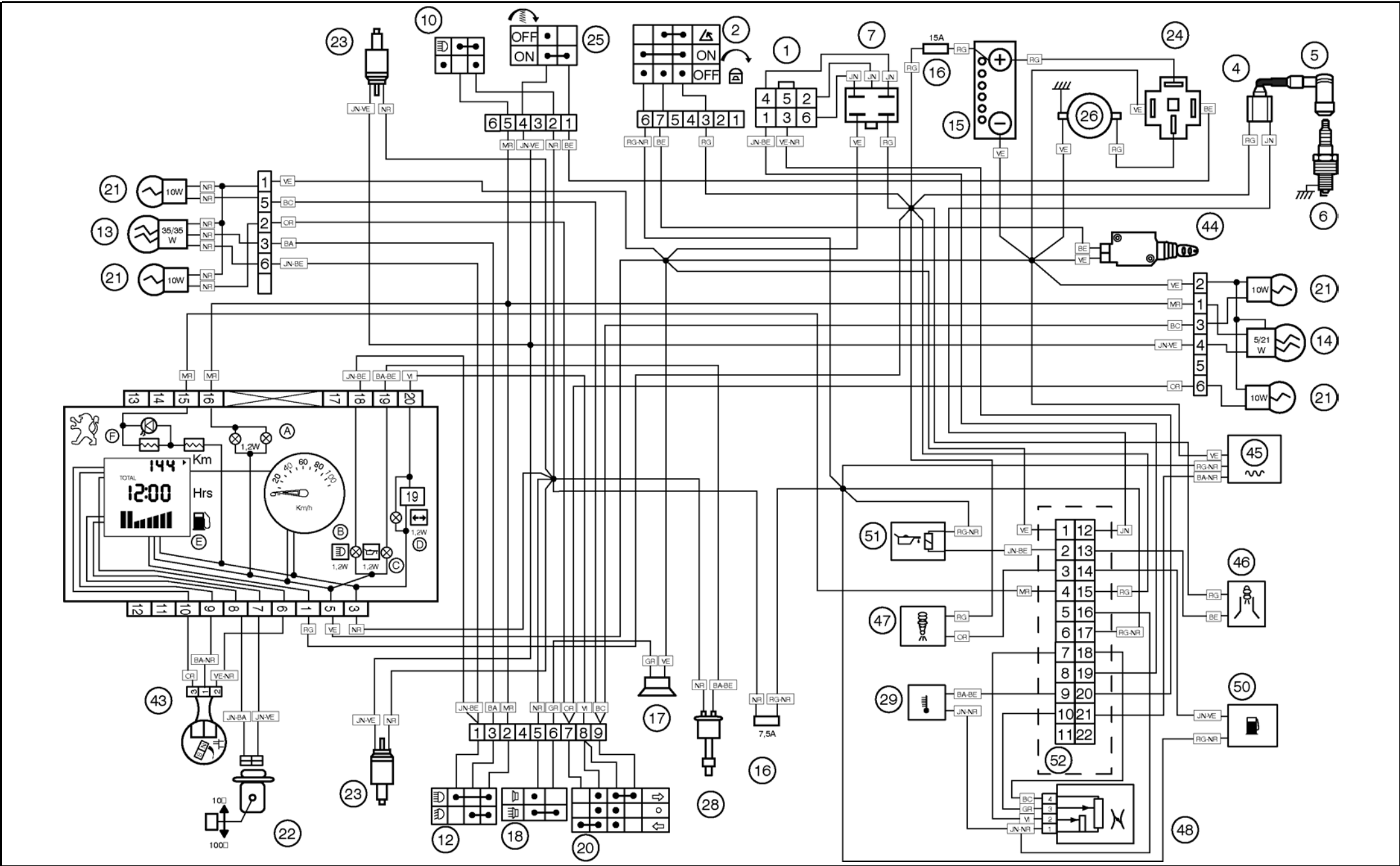
Current generator (type and power) three-phase Ø 102 - 162W
Make : MITSUBA
Stator resistance : 0,9 Ω between phases
Battery regulation voltage : 14 ± 0,5V
Battery (type and capacity) : F7-12B 12V 7Ah
Lighting voltage : battery direct voltage

STARTER :

Power and type : 250W SM 10260
Make : MITSUBA

LIGHTING AND FUSES :

	Quantity	Power
Headlamp (code light) :	1	12V - 35/35W
Rear stop lamp :	1	12V - 21/5W
Indicator lamps :	4	12V - 10W
Number plate lightning :	*	*
Dash board lighting :	2	12V - 1,2W
Instrument panel indicator lamps :	3	12V - 1,2W
Main fuse :	1	15A
Signalling fuse :	1	7,5A
"Side light" bulb :	*	*



- A Instrument panel lightning
B Main beam control
C Oil level warning light
D Indicator control light
E Fuel gauge
F LED "Anti theft device"
G Temperature gauge
H Warning light "Reserve"
J Oil pressure warning light

- 1) Generator
a : Ignition coil (inner)
b : Pickup
c : Alternating current
d : Battery charge current
2) Ignition switch
3) CDI unit
4) Ignition coil (High voltage)
5) Spark plug socket (resistive) 5 kΩ
6) Spark plug (resistive) 5 kΩ
7) Regulator, rectifier
(A) : Regulator AC
(B) : (Regulator) rectifier DC

- 8) Automatic choke
9) Resistor (in line with choke)
6,7 Ω – 5W
10) Light switch
11) Resistor (parallel to lightning)
5,9 Ω – 30W
12) Dip switch (main/low headlight)
13) Headlight
14) Stop /tail light
15) Battery
16) Fuse
17) Horn
18) Horn switch
19) Indicator relay
20) Indicator switch
21) Indicator bulb
22) Fuel gauge pickup
23) Stop light switch
24) Starter relay
25) Starter switch
26) Starter motor
28) Oil level switch

- 29) Temperature sensor
30) Immobilizer
31) Antenna for anti-theft device
32) "Side light" bulb
33) Number plate light
35) Emergency switch (ignition)
37) Oil pressure switch
38) Cooling fan
39) Thermo-switch cooling fan
40) Electrical carburettor heating
41) Power supply unit
42) Switch "Reserve"
43) Speed sensor
44) Saddle actuator
45) Diagnosis
46) Air injector
47) Gas injector
48) Disc box
49) Atmospheric pressure sensor
50) Gas pump
51) Oil pump
52) Ignition and injection control unit

- BA : White
BA-BE : White/Blue
BA-NR : White/Black
BC : Light blue
BE : Blue
GR : Grey
JN : Yellow
JN-BA : Yellow/White
JN-BE : Yellow/Blue
JN-NR : Yellow/Black
JN-VE : Yellow/Green
MR : Brown
NR : Black
OR : Orange
RG : Red
RG-NR : Red/Black
RS : Pink
VE : Green
VE-NR : Green/Black
VI : White

