



TECHNICAL NETWORK LEADERSHIP

150 cc

Datasheet

Reference : 754729

GENERAL CHARACTERISTICS :

SPECIFICATIONS :

Company name : Elyséo 150 cc  
Mines type \*\* : G2A variant C  
(\* \*\* official French body responsible for regulating weights and measures and changes made to motor vehicles).

DIMENSIONS (in mm) :

Length : 1900  
Width : 720  
Height (without rear-view mirrors) : 1230  
Ground clearance : 90  
Wheel base : 1368

WEIGHT (in kg) :

Laden weight : 149

STEERING :

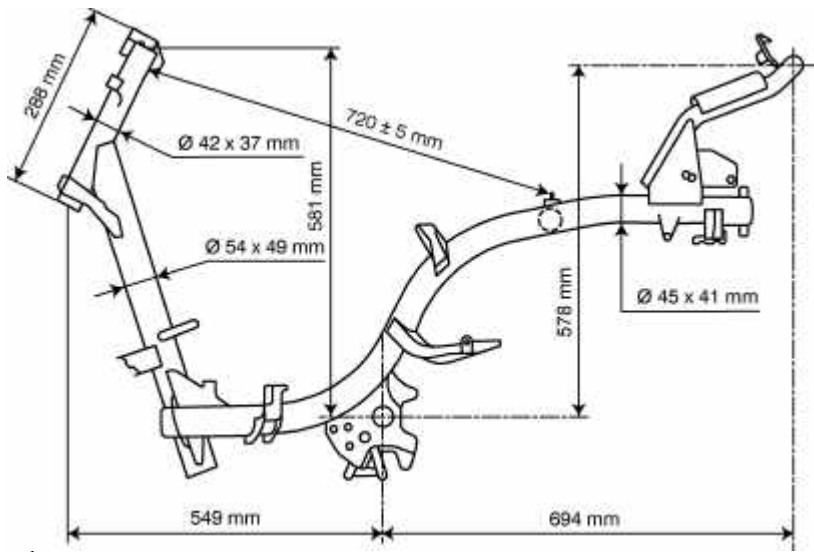
Steering column mounted with ball-bearing cone and cup.

CAPACITIES (in litres) and RECOMMENDATIONS :

Fuel tank (including reserve): 8,5 : super unleaded petrol (95 or 98) only.  
Oil sump : \*  
Crankcase : 1,25  
Cooling system : 1,6  
Relay box : 0,12 . SAE 80W90  
Fork : 0,15 per tube (ESSO UNIVIS 46 or AGIP H LIFT 46)  
Braking circuit : DOT 4

GREASING :

Pressuring wet sump lubrication, trochoid pump driven by a gear set from the crankshaft, pressure relief valve calibrated at 4 bars.  
Filter : removable paper cartridge.



COOLING :

Cooling by pump driven water circulation, pump integrated in the engine sump and driven by a gear set from the crankshaft. Pressurised, sealed circuit with pump, thermostat (opening at 85°C, fully open at 100°C), radiator, expansion tank and electric fan controlled by a thermal switch (engaging at 90°C, cut out at 85°C).

ENGINE :

4 stroke single-cylinder, 2 valves per cylinder with chain driven by overhead camshaft.  
Cylinder capacity : 150 cm<sup>3</sup>  
Bore 1 shore : 57 x 58,9  
Max power : 10 kW  
Max power rating : 8450 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.  
• 1<sup>st</sup> gear teeth set : helical.  
• 2nd gear teeth set : helical.

SUSPENSION :

Front suspension type : hydraulic telescopic fork.  
Travel : 100 mm  
Rear suspension type : 2 adjustable spring suspension units with hydraulic shock absorbers.  
Travel : 93 mm

FRONT BRAKE :

Single disc type, hydraulic control.  
Diameter of brake pistons : 25 mm x 2  
Disc diameter and thickness : 226 – 4,5 mm  
Mini thickness : 4 mm  
Diameter of the master-cylinder : 11 mm

REAR BRAKE :

Single disc type, hydraulic control.  
Diameter of the brake piston : 30 mm  
Disc diameter and thickness : 210 – 4 mm  
Mini thickness : 3,5 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) :	1,5	1,8
Max wheel disc :	0,8 mm	0,8 mm
Balance :	yes	*

TIGHTENING TORQUES (Nm) :

ENGINE :

Cylinder head : 23  
Exhaust mounting on the cylinder : 15 to 18  
Crankcase : 8 to 10  
Spark plug : 10

CYCLE PART :

Engine mounting on connecting rod : 52 to 62  
Front wheel : 47 to 53  
Upper nut on the steering column : 60 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  
Rear brake calliper : 25 to 35  
Rear brake disc : 27 to 32

REGLAGES ET CONTROLES :

4 Stroke ENGINE :

Distribution diagram. AOA : 10° AOE : 40°  
RFA : 40° RFE : 10°  
Valve clearances. Intake : 0,10 to 0,15 mm  
Exhaust : 0,25 to 0,30 mm

CYLINDER / PISTON :

Ring gap clearance.  
Upper : 0,15 to 0,35 mm  
Lower : 0,15 to 0,35 mm

CONNECTING ROD/CRANKSHAFT :

Crankshaft run-out : 0,07 mm

CARBURATION :

Vacuum carburettor, automatic, electronic choke and electric heating.  
Make : type : DELL'ORTO PHCF24 - 8016  
Main jet : 97  
Idle jet : 46  
Needle (type and adjustment step) : SH 89 3<sup>rd</sup> position  
Starter jet : 38  
Idle adjustment : 1600 rpm ± 100  
CO<sup>2</sup> % adjustment : 3,5% ± 0,5%

\* : Not completed

IGNITION :

Ignition unit : ACI 100 MAGNETI MARELLI

Spark plug : NGK CR7E

Electrode gap : 0,6 to 0,7 mm

Ignition advance : variable

Ignition coil : TEC MP11 or T11C X7A

Primary winding resistance : 0,26Ω ± 20%

Secondary winding resistance : 3 kΩ ± 20%

Spark plug cap resistance : 5 kΩ ± 10%

Pick-up resistance : 120Ω ± 10%

ELECTRICAL EQUIPMENT :

Current generator (type and power) : GF8 – 253 – 235W

Make : MITSUBA

Stator resistance : (3 yellow wires) 0,3 to 0,5Ω between the phases

Battery regulation voltage : 14,5 ± 0,5V

Battery (type and capacity) : YT12LB 12V 12Ah

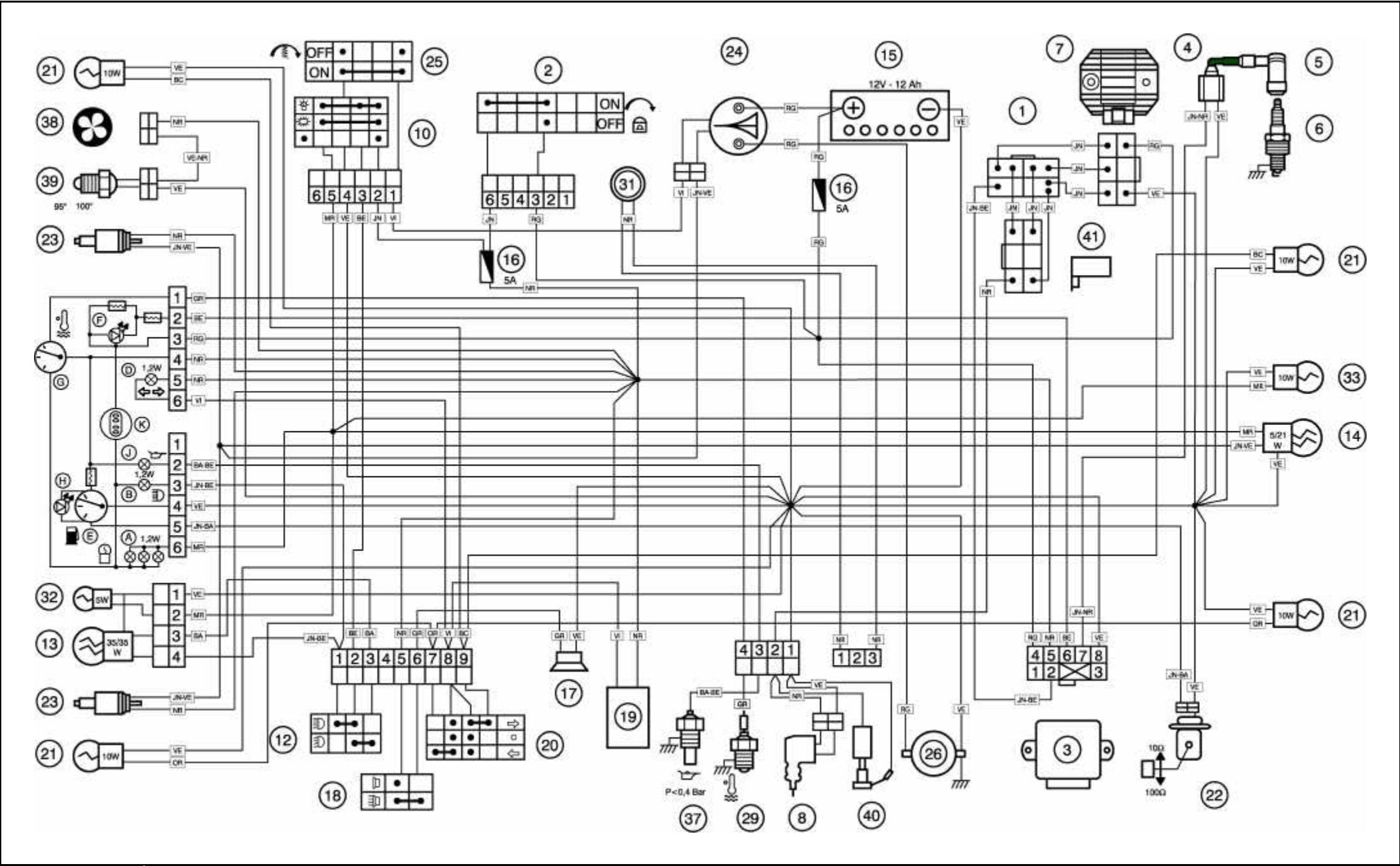
STARTER :

Power and type : 470W SM14202

Make : MITSUBA

LIGHTING AND FUSES :

	Quantity	Power
Headlamp (code light) :	1	12V - 60/55W
Red stop lamp :	1	12V - 21/5W
Indicator lamps :	4	12V - 10W
Number plate lightning :	1	12V - 5W
Dash board lighting :	3	12V - 1,2W
Instrument panel indicator lamps :	3	12V - 1,2W
Main fuse :	1	20A
Signalling fuse:	1	5A
"Side light" bulb :	1	12V - 5W



- 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
- K

Watch
- 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)  
6,7Ω – 5W
- 10)

Light switch
- 11)

Resistor (parallel to lightning)  
5,9Ω – 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
- 27)

Current limiter
- 28)

Oil level switch
- 29)

Temperature sensor
- 30)

Immobilizer
- 31)

Antenna for anti-theft device
- 32)

"Side light" bulb
- 33)

Number plate light
- 34)

Lateral stand switch
- 35)

Emergency switch (ignition)
- 36)

"Neutral" switch (gearbox)
- 37)

Oil pressure switch
- 38)

Cooling fan
- 39)

Thermo-switch cooling fan
- 40)

Electrical carburettor heating
- 41)

Power supply unit
- 42)

Switch "Reserve"

- 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 :

Purple

