



ANIMATION TECHNIQUE RESEAU

125 cc / 125 cc M

Datasheet

Reference : 754725

GENERAL CHARACTERISTICS :

SPECIFICATIONS :

Company name : Elyséo 125 cc  
Mines type \*\* : G2A variant B  
(\*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 : 140

STEERING :

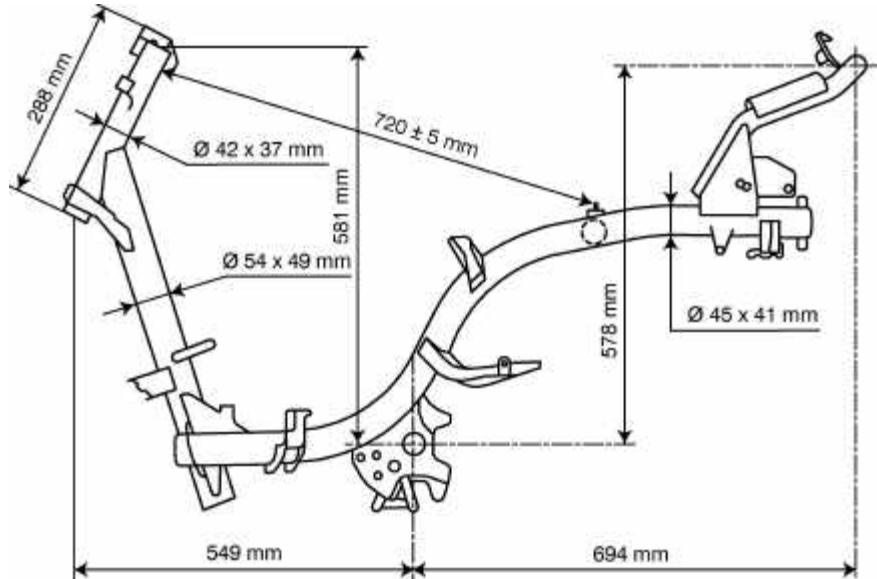
Steering column mounted with ball-bearing cone and cup.

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 : 1,5  
Relay box : 0,12. SAE 80W90  
Fork : 0,11 per tube / 0,15 per tube version M (ESSO UNIVIS 46 or AGIP H LIFT 46)  
Braking circuit : DOT 4

GREASING :

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



\* : Not completed

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 overhead camshaft.  
Cylinder capacity : 124,8 cm<sup>3</sup>  
Bore 1 shore : 57 x 48,9  
Max power : 9 kW  
Max power rating : 8750 rpm  
Max torque rating : 7500 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 Ø 33 – Ø 36 version M.  
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 the brake pistons : 32 mm / 25 mm x 2 version M  
Disc diameter and thickness : 226 – 4 mm / 4,5 mm version M  
Mini thickness : 3,5 mm / 4 mm version M  
Diameter of the master-cylinder : 11 mm

REAR BRAKE (depending on model) :

Single cam drum type controlled by cable.  
Brake drum diameter : 130 mm  
Brake lining thickness : 4 mm  
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

ADJUSTEMENTS AND CHECKS :

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 : MIKUNI BS26  
Main jet : 125  
Idle jet : 35  
Needle (type and adjustment step) : 4 CZ3 2<sup>nd</sup> position  
Starter jet : 25  
Mixture screw : 2 rev  
Idle adjustment : 1600 rpm  
CO<sup>2</sup> % adjustment : 3,5 % ± 0,5 %

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 5Ω between the phases

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

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

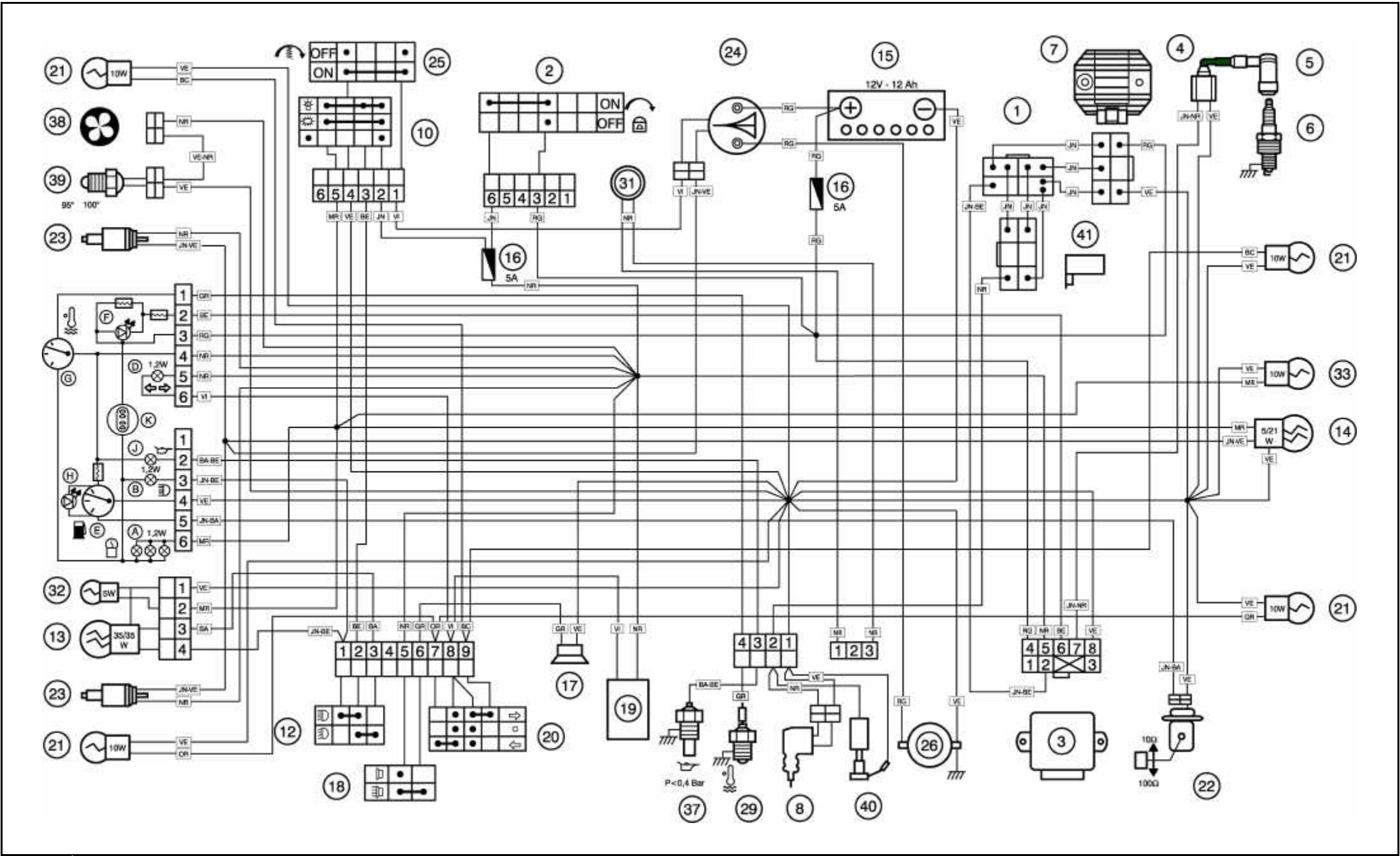
STARTER :

Power and type : 440W SM14217

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 - 5V
Dash board lighting :	3	12V - 1,2W
Instrument panel indicator lamps :	3	12 - 1,2W
Main fuse :	1	20A
Signalling fuse :	1	5A
"Side light" bulb :	1	12V - 5W



A	Instrument panel lightning	7)	Regulator, rectifier (A) : Regulator AC (B) : (Regulator) rectifier DC	23)	Stop light switch	BA :	White
B	Main beam control	8)	Automatic choke	24)	Starter relay	BA-BE :	White/Blue
C	Oil level warning light	9)	Resistor (in line with choke) 6,7Ω – 5W	25)	Starter switch	BA-NR :	White/Black
D	Indicator control light	10)	Light switch	26)	Starter motor	BC :	Light blue
E	Fuel gauge	11)	Resistor (parallel to lightning) 5,9Ω – 30W	27)	Current limiter	BE :	Blue
F	LED "Anti theft device"	12)	Dip switch (main/low headlight)	28)	Oil level switch	GR :	Grey
G	Temperature gauge	13)	Headlight	29)	Temperature sensor	JN :	Yellow
H	Warning light "reserve"	14)	Stop /tail light	30)	Immobilizer	JN-BA :	Yellow/White
J	Oil pressure warning light	15)	Battery	31)	Antenna for anti-theft device	JN-BE :	Yellow/Blue
K	Watch	16)	Fuse	32)	"Side light" bulb	JN-NR :	Yellow/Black
1)	Generator a : Ignition coil (inner) b : Pickup c : Alternating current d : Battery charge current	17)	Horn	33)	Number plate light	JN-VE :	Yellow/Green
2)	Ignition switch	18)	Horn switch	34)	Lateral stand switch	MR :	Brown
3)	CDI unit	19)	Indicator relay	35)	Emergency switch (ignition)	NR :	Black
4)	Ignition coil (high voltage)	20)	Indicator switch	36)	"Neutral" switch (gearbox)	OR :	Orange
5)	Spark plug socket (resistive) 5 kΩ	21)	Indicator bulb	37)	Oil pressure switch	RG :	Red
6)	Spark plug (resistive) 5 kΩ	22)	Fuel gauge pickup	38)	Cooling fan	RG-NR :	Red/Black
				39)	Thermo-switch cooling fan	RS :	Pink
				40)	Electrical carburettor heating	VE :	Green
				41)	Power supply unit	VE-NR :	Green/Black
				42)	Switch "Reserve"	VI :	Purple

