



ludix Classic

50 cc IAE

TECHNICAL NETWORK LEADERSHIP

Datasheet

Reference : 757844

GENERAL CHARACTERISTICS :

SPECIFICATIONS :

Company name : Ludix 14 Base
Mines type ** : L1AABM
(*official French body responsible for regulating weights and measures and changes made to motor vehicles).

DIMENSIONS (in mm) :

Length : 1725
Width : 665
Height (without rear-view mirrors) : 1075
Ground clearance : 130
Wheel base : 1235

WEIGHT (in kg) :

Laden weight : 69

STEERING :

Steering column mounted with ball-bearing cone and cup.

CAPACITIES (in litres) and RECOMMENDATIONS :

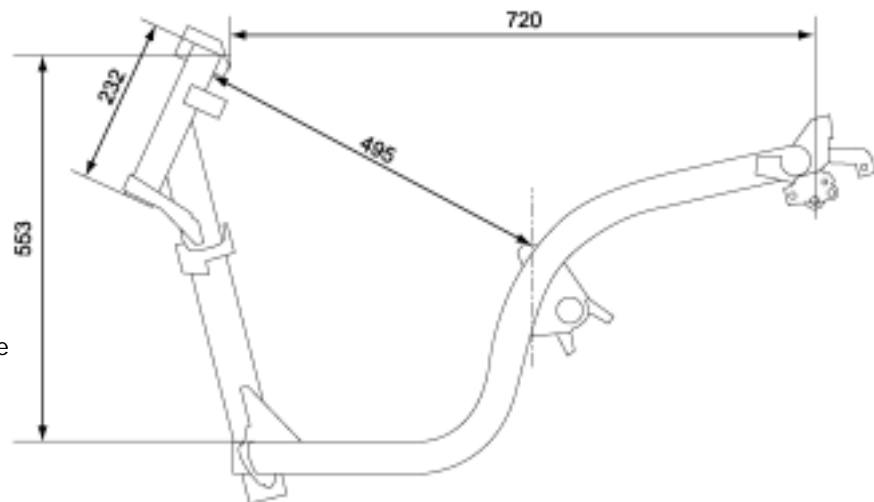
Fuel tank (including reserve) : 5,5 : super unleaded petrol (95 or 98) only.
Oil sump : 1,2 : semi synthetic for two stroke engines with separate oiling. Complies with API TC or ISO EGC or ISO EGD.
Crankcase : *
Cooling system : *
Relay box : 0,12 . SAE 80W90
Fork : *
Braking circuit : *

LUBRICATION :

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

COOLING :

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



* : Not completed

ENGINE :

2 stroke single-cylinder. Air-injection emissions control
system and catalyser.
Direct intake via valves into the crankcase.
Scavenging by 5 transfers.
Cylinder capacity : 49,9 cm³
Bore x stroke : 39,9 x 39,8
Max power : 3,2 kW
Max power rating : 7100 rpm
Max torque rating : 6800 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 : helical.

SUSPENSION :

Front suspension type : reverse telescopic fork.
Travel : 73 mm
Rear suspension type : 1 central combined hydraulic spring-
shock absorber.
Travel : 65 mm

FRONT BRAKE :

Single cam drum type controlled by cable.
Brake drum diameter : 110 mm
Brake lining thickness : 3,8 mm

REAR BRAKE :

Single cam drum type controlled by cable.
Brake drum diameter : 110 mm
Brake lining thickness : 3,8 mm

WHEELS AND TYRES :

Integral aluminium wheels and tubeless tyres.

	Front	Rear
Rim dimensions :	2,15" x 14"	2,15" x 14"
Tyres dimensions :	80/80 - 14	80/80 - 14
Pressures (bar) :	1,8	2
Maxi wheel disc :	0,8 mm	0,8 mm
Balance :	*	*

TIGHTENING TORQUES (Nm) :

ENGINE :

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

CYCLE PART :

Engine mounting on connecting rod : 57 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
Lower : 20 to 25
Front / rear brake calliper : *
Front / rear brake disc : *

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 : 0,05 mm

CARBURATION :

Carburettor.
Make and type : GURTNER PY 12
Adjustment n° : 410
Main jet : 56
Idle jet : 36
Needle (type and adjustment step) : L 5035 E
Starter jet : 45
Mixture screw : 1 rev ¼ to 1 rev ½
Idle adjustment : 1600 rpm
CO² % adjustment : *

IGNITION :

Ignition unit : CDI
Spark plug : NGK BR 7HS or EYQUEM R 850
Electrode gap : 0,6 to 0,7 mm
Ignition advance : Fixed 13°
Ignition coil : TEC MP11 or T11C X7A
Primary winding resistance : 0,26 Ω ± 20 %
Secondary winding resistance : 3 KΩ ± 20 %
Spark plug cap resistance : 5 kΩ ± 20 %
Pick-up resistance : 120 Ω ± 10 %

ELECTRICAL EQUIPMENT :

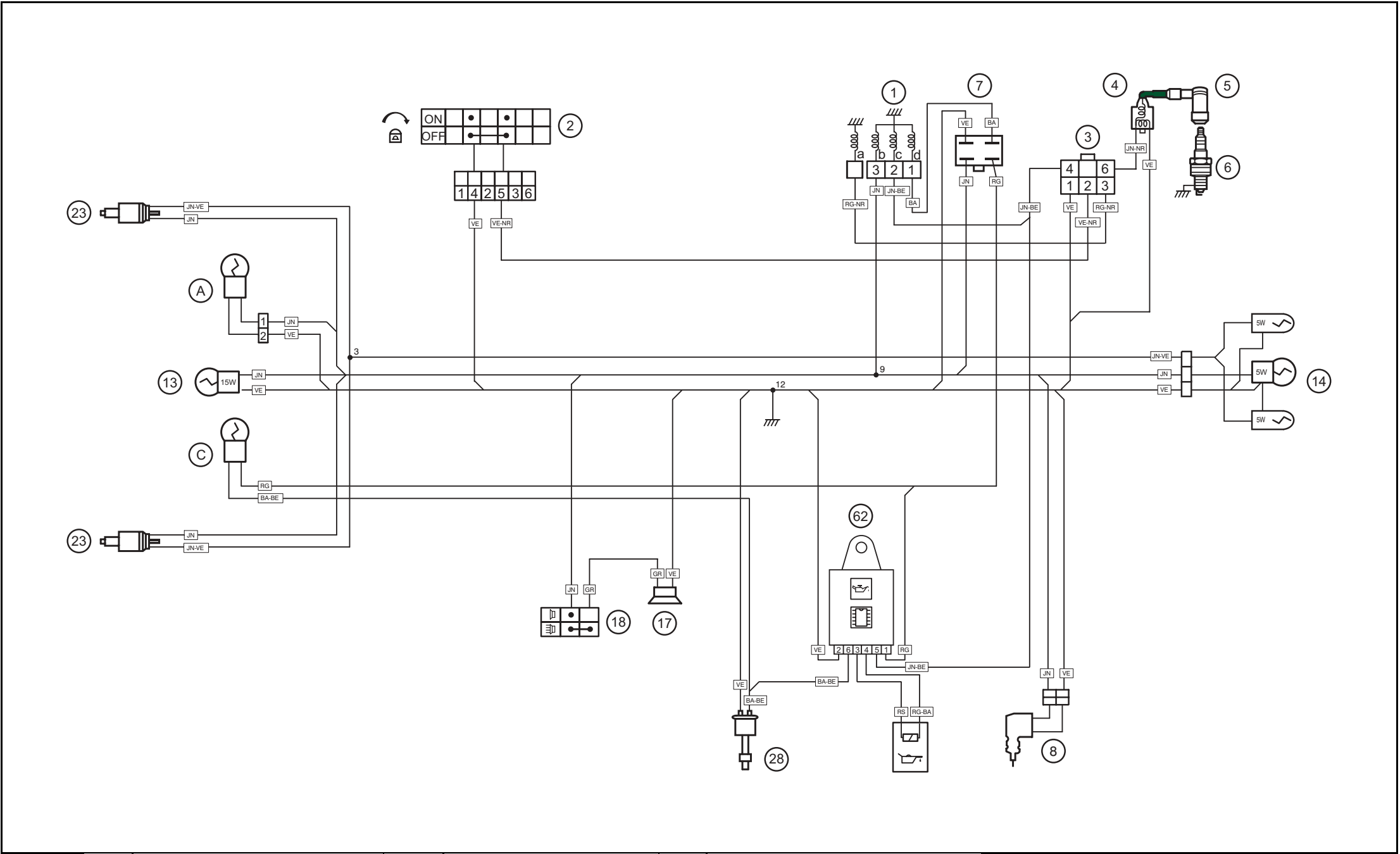
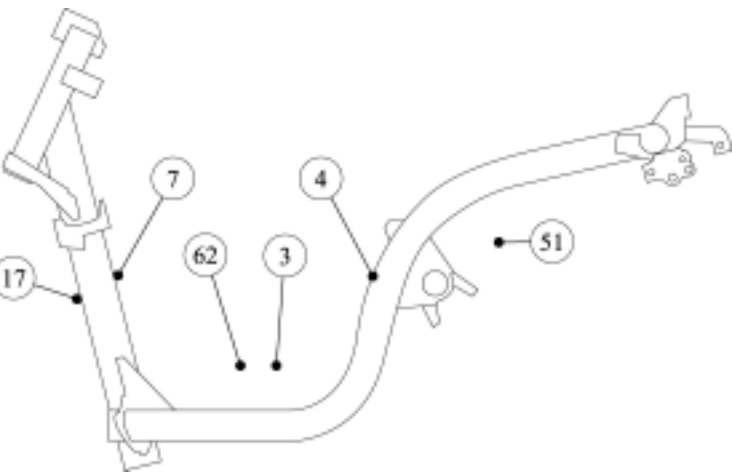
Current generator (type and power) : AC/DC 89 W
Make : KOKUSAN
Stator resistance : yellow wire 0,6 Ω ± 25 %
Battery regulation voltage : *
Battery (type and capacity) : *
Lighting voltage : alternating current regulation at : 13,1 ± 0,5 V

STARTER :

Power : *
Make : *

LIGHTING AND FUSES :

	Quantity	Power
Headlamp (code light) :	1	12 V – 15 W
Red stop lamp :	1	12 V – 10/5 W
Indicator lamps :	*	*
Number plate lightning :	*	*
Dash board lighting :	1	12 V – 2 W
Instrument panel indicator lamps :	1	12 V – 1,2 W
Main fuse :	*	*
Signalling fuse :	*	*
"Side light" bulbs :	*	*



A	Instrument panel lightning	12)	Dip switch (main/low headlight)	37)	Oil pressure switch	BA :	White	VE :	Green
B	Main beam control	13)	Headlight	38)	Cooling fan	BA-BE :	White/Blue	VE-NR :	Green/Black
C	Oil level warning light	14)	Stop /tail light	39)	Thermo-switch cooling fan	BA-NR :	White/Black	VI :	Purple
D	Indicator control light	15)	Battery	42)	Switch "Reserve"	BC :	Light blue		
E	Fuel gauge	16)	Fuses	43)	Speed sensor	BE :	Blue		
F	LED "Anti theft device"	17)	Horn	44)	Saddle actuator	GR :	Grey		
G	Temperature gauge	18)	Horn switch	45)	Diagnostic plug	JN :	Yellow		
H	Warning light "reserve"	19)	Indicator relay	46)	Air injector	JN-BA :	Yellow/White		
J	Oil pressure	20)	Indicator switch	47)	Fuel injector	JN-BE :	Yellow/Blue		
K	Watch	21)	Indicator bulb	48)	Throttle unit	JN-NR :	Yellow/Black		
L	EFI diagnostic light	22)	Fuel gauge pickup	50)	Fuel pump	JN-VE :	Yellow/Green		
M	ABS/PBS light	23)	Stop light switch	51)	Oil pump	MC :	Light Brown		
N	Revolution counter	24)	Starter relay	62)	Oil pump control unit	MR :	Brown		
1)	Generator	25)	Starter switch			MR-BA :	Brown/White		
2)	Ignition switch	26)	Starter motor			NR :	Black		
3)	CDI unit	28)	Oil level switch			OR :	Orange		
4)	Ignition coil (high voltage)	29)	Temperature sensor			RG :	Red		
5)	Spark plug socket (resistive) 5 kΩ	30)	Immobilizer			RG-BA :	Red/White		
6)	Spark plug (resistive) 5 kΩ	31)	Antenna for anti-theft device			RG-JN :	Red/Yellow		
7)	Regulator, rectifier	32)	"Side light" bulb			RG-NR :	Red/Black		
8)	Automatic choke	33)	Number plate light			RS :	Pink		
10)	Light switch	36)	"Neutral" switch (gearbox)			VC :	Light Green		