OWNERS MANUAL

PUVA LAWN TRACTOR



CHEETAH LAWN TRACTOR





KATIKATI, NEW ZEALAND

A Masport Group of Companies

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INTRODUCTION

Thank you for choosing a new KINGCAT Machine. It has been carefully designed and manufactured under strict quality controls. We are proud of our reputation as a manufacturer of quality machines. However, in order for you to be totally satisfied, it is important that you read this manual before you commence operation.

Your KINGCAT dealer is competent to advise you on the correct methods of safe operation and routine maintenance. He should explain these to you on delivery.

Once you have accepted delivery and become familiar with the operation it is important that you fill out the warranty form. This MUST be done WITHIN 14 DAYS of taking delivery and returned to our factory:-

KINGCAT INDUSTRIES LIMITED P.O. BOX 185, KATIKATI.

This is important, to ensure that your warranty becomes validated.

SAFETY

KINGCAT equipment is provided with many safeguards, but statistics prove that most accidents result from operator negligence. To prevent accidents, read the following information carefully BEFORE operating your new machine. Should you have further questions, do not hesitate to ask your KINGCAT dealer.

- 1. Always disengage mower unit and wait for blades to stop turning before dismounting from tractor.
- 2. Select neutral and ensure mower is disengaged before attempting to start.
- 3. Never make any adjustments without stopping the engine if making motor adjustments wait for it to cool down.
- 4. Keep other people and animals well clear while operating.
- 5. Do not operate machine which is not adjusted correctly or is overdue for servicing.
- 6. It is dangerous to operate the engine in confined areas.
- 7. Wait for the engine to cool down before refuelling.
- 8. Never smoke or expose a naked flame near the engine especially when refuelling.

DELIVERY AND DEMONSTRATION GUIDE

	en you receive your new Lawn Tractor ensure your dealer has carefully explained the following nts: .			
1.	Starling			
2. (Clutch and Brake Operation			
3. (Gearbox and the Use of the Gears			
4. (Operation of all Controls — key starter			
	— throttle			
	— gear lever			
	— clutch			
	— brake			
	- mower engagement			
	— steering			
5 . l	Jse of the Discharge Flap			
6. 1	6. Mowing Speeds and Mower Heights			
7. E	7. Belt Tensioning			
8. l	3. Location of Engine and Serial Numbers			
9. F	Regular Maintenance Procedures			
[☐ Air Filter .			
(Oil Drain and Level Points			
{	☐ Fuel Filters			
[Greasing Points			

OPERATING INSTRUCTIONS

ENGINE

Refer to Engine Handbook.

STARTING

- 1. Ensure mower is in the up position.
- 2. Make sure mower and transmission are out of gear.
- Keep all bystanders well clear and make sure you are comfortably seated.
 Shift throttle lever to choke position and turn key. When engine fires shift throttle lever immediately to run position.

MOVING OFF

- 1. Shift throttle lever to required position for correct engine speed. (For mowing about % full engine revs).
- Depress clutch pedal and select required gear it is possible to start off in any gear.
- Slowly lift the clutch pedal to move off.

DO NOT RIDE THE CLUTCH.

STOPPING

- 1. Depress the clutch pedal THEN apply brake pedal gently. NEVER apply brake pedal without first depressing the clutch pedal.
- 2. Shift gear lever to neutral position and release clutch pedal.
- To stop the engine simply shift the throttle to idle position and turn the key to off position.

ENGAGING MOWER

- 1. Start engine (see above).
- 2. Set throttle control just back from full revs and have mower set at full height.
- Pull mower engagement lever back slowly and ease it over to the left to lock mower into gear.
- 4. Once mower has reached operating speed set height to required position.
- 5. To disengage the mower, reverse the above process.

MOWING

As mowing conditions vary greatly, it is important that you take special note of this section.

Your mowing attachment has been designed to cope with a large range of grass types, conditions, lengths and mowing speeds. Always use high engine revs when mowing and regulate your speed with the gears. As a general rule, if you have rough ground, long grass, tough grasses (e.g. rye grass, Kikuyu etc...) or if your grass is wet then lift the flap up and travel slowly (gears 1, 2 or 3). Select a reasonably high cutting height — 6,7 or 8 if necessary, take two cuts, the first one high and the next a little lower. If your lawn is in good order and your grass of average length i.e. up to 100mm (4") long and dry then you can choose the grass to be spread or mulched. If you wish to spread the clippings, lift the flap and select the desired mowing height. If you wish to mulch, drop the flap down.

DO NOT TRY TO MULCH more than 50mm (2") of grass at one time — or the result will be displeasing. When mulching keep the travel speed down to allow time for the mower to process the cut grass.

For certain mowing conditions your dealer may recommend HVD (high velocity discharge) blades as an option.

Your KINGCAT dealer is qualified to advise you on how you should be operating your machine — if in doubt ASK HIM.

OPERATOR MAINTENANCE

Check the following every day or every eight hours of mowing:

1. Engine Oil Level - Remove dipstick and ensure level is

correct. If necessary top up with the grade of oil specified in your engine

handbook

2. Engine Air Filter - Refer engine handbook.

3. Belt Tensions Refer adjustments.

4. Battery Level

5. Tyre pressures — Front 20 p.s.i. max Rear 14 p.s.i. max

6. Make sure the underside of the mower deck is cleaned out after use.

Grease the following points:

1. King pins (on front axle assembly) 2 nipples.

2. Clutch pulley pivot shaft (under chassis at rear) 1 nipple.

3. Mower spindle - 1 nipple. (Puma 1200 5 nipples).

ADJUSTMENTS

To Tighten Mower Belt:

Set mower to the highest cutting height. At the rear of the mower deck is two adjuster nuts on each side. Back the rear nut right off on both sides. Now tighten the forward nuts up evenly on each side till the front of the mower pan just starts to lift and then back it off so the mower deck is level. Make sure the left and right sides have been adjusted evenly and then tighten up the back locking nuts.

Clutch Adjustment

The clutch pedal must have 10mm of freeplay. This is adjusted by releasing the cable clamp at the end of the cable and adjusting to give the correct freeplay — If the belt has been stretched excessively it will tend to make the clutch very jumpy. If this occurs replace the belt and re-adjust.

Pan Adjustment

If the mower is cutting unevenly, the pan may be levelled by use of the alloy cams on each side of the chassis. By slackening the cam bolts on the outside of the chassis and turning the cams, the pan support chain may be slackened or tightened, enabling each side to be raised or lowered. After adjusting, retighten all the bolts. This operation is best carried out on a concrete surface.

Brake Adjustment

The footbrake ajustment can be found on the transaxle assembly. The nyloc nut which holds the brake activating lever onto the brake asembly is the adjustment. Back this nut off ½ turn and then adjust it up until the brake pedal has 10mm freeplay. Do not attempt to adjust the nuts or spring tension on the brake activating rod. The handbrake should not require any adjustment. Note: Some transaxles may be fitted with a locknut rather than a nyloc nut.

CHEETAH SPECIFICATIONS

ENGINE:

Briggs & Stratton I/C

Syncrobalanced

Horsepower

Cylinders Cycle Cooling

5.9kw (8hp)

4 Air

OPTION Honda GV400

8.25kw (11hp)

4 Air

TRANSMISSION

Speeds Forward Min/Max Speeds Speeds Reverse

ELECTRICAL SYSTEM

Transaxle

0-12 kph 1.

CAPACITIES

Fuel Tank Engine Oil Transmission

2.7 Itr 0.94 ltr 1.018 kg

BRAKE:

Single Disc on Transmission

TYRES:

Front Rear

4.10 x 350-4 Tube Type

16×6.50×8 Tube Type

FUEL

Petrol 91 Octane

Tank location

Transmission lubrication

Mounted on engine

Battery Starter Switch Ignition

Key with starter Interlock

Solid State

Lithium grease packed and sealed

DIMENSIONS:

Cubic Length Width

1.28m³ 1600mm 800mm 1000mm 182kg

Height Weight

Monocoque Construction 3mm Plate Steel

TURNING CIRCLE:

Min. turning radius Mowing radius

675mm 825mm

CONTROLS:

CHASSIS:

Height Adjuster Engagment Lever Stop/Throttle/Choke Gear Shift

Brake Clutch

Left Hand Left Hand Right Hand Right Hand Right Foot Left Foot

MOWER

Width of Cut Suspension Cutters

700mm (28") Floating

2 Blades on Centre Bar.

Cutting Heights

10-60mm

CATCHER MODEL

ENGINE

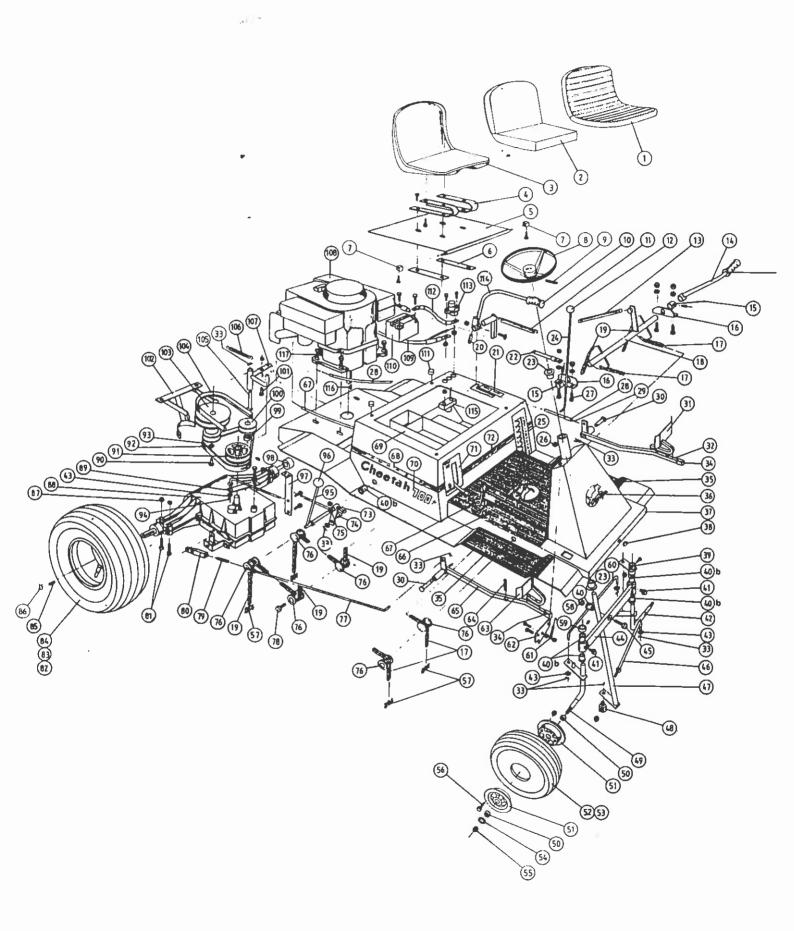
9.0kw (12hp) Briggs Stratton I/c syncrobalanced air cooled 4 stroke

CATCHER Woven (Rip Stop) polyester on metal frame. Tip-empty from seat.

MOWER

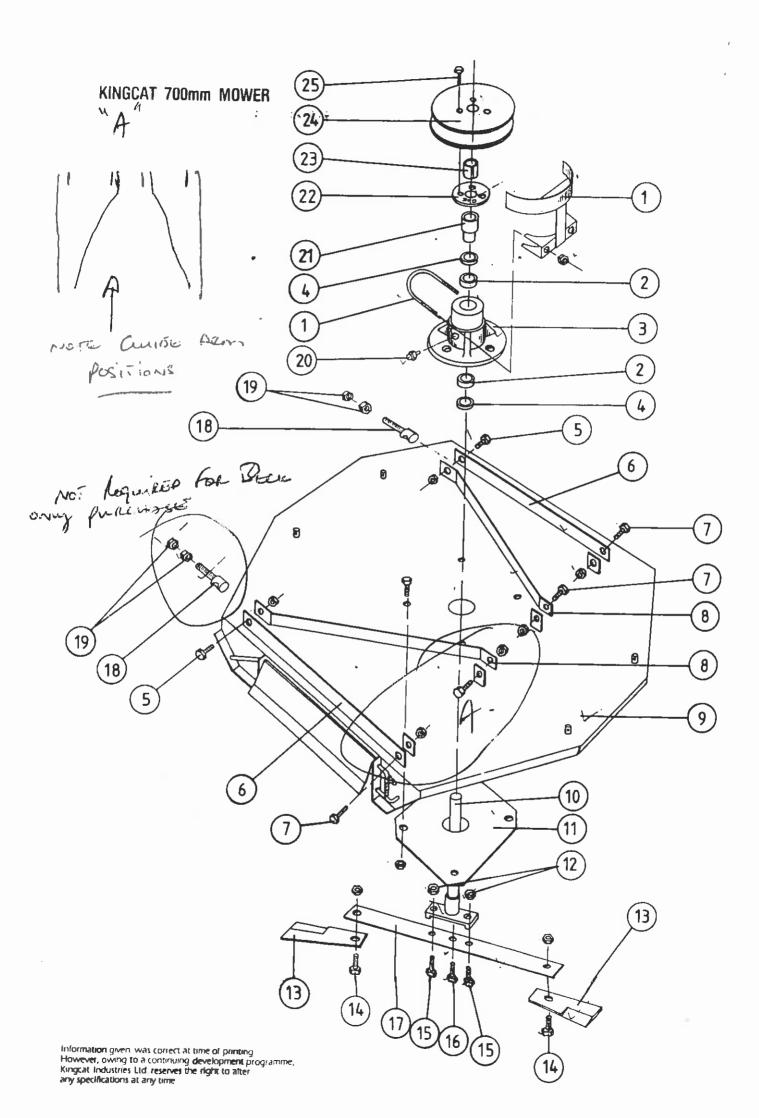
725mm (29") cut, fully floating with side discharge and 1 piece bar type blade.

KINGCAT CHEETAH LAWN TRACTOR



KINGCAT CHEETAH LAWN TRACTOR

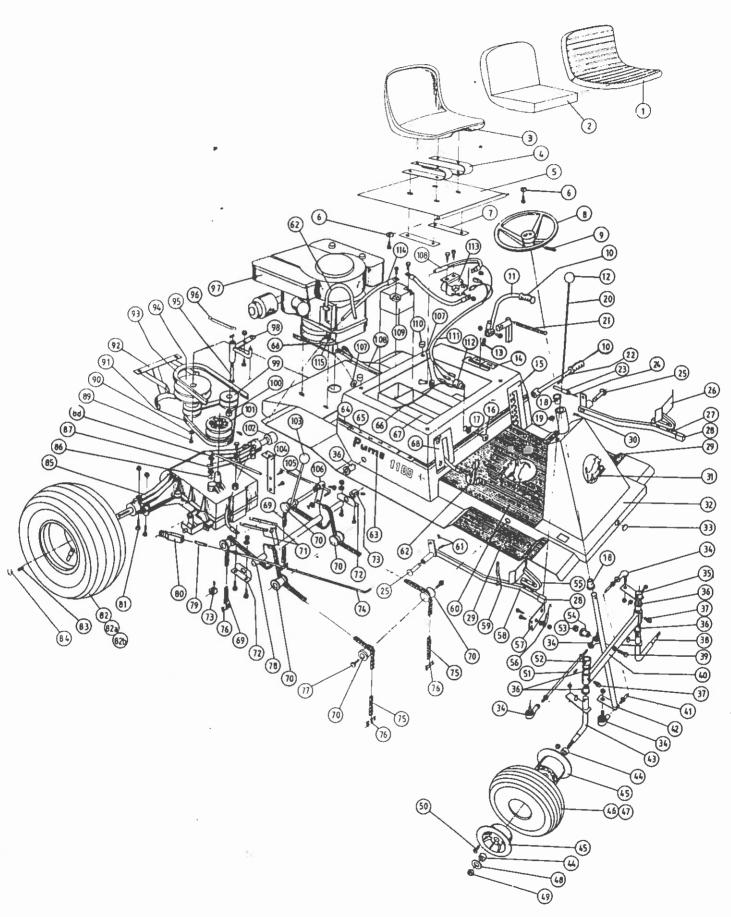
REF	NO. PART N	O. DESCRIPTION	63	115510	
1	>223320	Seat Cover		115510	
2	210210	Seal Foam Insert	64	215910	- The Country of the
3	210310		65	115810	Brake Pedal Arm
4		Seat Frame (Fibreglass)	66	216010	Rubber Mat Centre
	110410	Seat Mounting Spring	67	316210	Throttle Control & Cable
5	110510	Seat Mounting Plate	68	216510	Gear Lever Transfer
6	110610	Seal Securing Plates	69	116710	
7	110710	Seat Mounting Toggle	70	226711	Battery Box
8	310810	Steering Wheel	71		Cheetah 700 Transfer
9	210910	Steering Wheel Pin		216810	- The first lotter
10	211010	Rubber Grip	72	216410	Gold Pinstriping
11	212110	Pan Return Spring	74	119010	Gear Shift Link
12	211210		75	214810	Spacer Washer
13	217130	Handbrake Knob	76	217010	Lift Chain Adjuster
14		Spring	77	117410	Brake Connecting Rod
	112210	Lift Shaft Lever	78	217710	Bolt
15	217310	Lift Shaft Collar	79	217910	Brake Rod Spring
16	117210	Lift Shaft Bracket	80	118010	Broke Clause
17	317510	Lift Chain Front	81		Brake Clevis
18	117810	Lift Shaft	82	218110	Bolt
19	316910	Lift Chain Rear		218210	Rear Wheel 8"
20	211310	Lever Return Spring	83	318310	Tube 16 × 650 × 8
21	211410	Plade Engage Transfer	84	318410	Tyre 16 \times 650 \times 8
22		Blade Engage Transfer	85	118510	Rear Wheel Drive Key
	121710	Battery Lead Earth (-)	86	218610	Circlip
23	211810	Steering Shaft Bush	87	229210	Nylock Nut
24	112010	Handbrake Rod	88	318710	Transaxle
25	211510	Lift Gate Transfer	89	118910	
26	211910	Handbrake Grommet	90		Gear Shift Selector Arm
27	229410	Bolt	91	219110	Bolt
28	112310	Clutch Cable Outer		220510	Transaxle Pulley
29	112410	Clutch Cable Inner	92	119210	Spring Washer
30	112510	Pedal Shaft	93	119310	Transaxle Drive Belt
31			94	218810	Starlock
	112610	Clutch Pedal	95	120910	Gear Shift Lever
32	112710	Clutch Pedal Arm	96	220710	Gear Knob
33	213010	Pedal Shaft Retainer Pin	97	120810	
34	112810	Plastic Pedal Stop	98	120610	Transaxle Stabiliser Bar
35	229511	Footmat Rubber	99		Rear Wheel Spacer
36	229610	Kingcat Transfer (White)	100	220410	Clutch Pulley Bearing .
37	213210	Chassis		220330	Pulley
38	213310	5/8" Blanking Grommet .	101	229311	Cable Secure Bolt
39	125611	Steering Arm	102	126811	Belt Guide Rear
40A	215410		103	226911	Engine Pulley Double
40B	213610	Front Axle Pivot Bush	104	227011	PTO Belt
41	213710	Plastic Bush	105	119810	Clutch Arm Pivot Pin
42		Grease Nipple	106	219910	Clutch Tension Spring
43	226611	King Pin/Axle (L.H.)	107	120210	Clutch Activating Arm
	229111	Flat Washer	108	327211	Engine 8hp B & S
44	125711	Front Axle Beam		320010	Engine of the D. s. o.
45	213910	Bolt		320110	Engine 11hp B & S
46	125811	Steering Drag Link		320110	Engine 11hp Honda
47	114210	Sleering Shaft	DEC NO	DARTHO	
- · 48	125911	Tie Rod End). PART NO.	DESCRIPTION
49	126011	King Pin/Axle (R.H.)	109	127011 -	Thing Cool - I COUNSEN
50	226111			121110	Wiring Loom - B & S
51	226211	Front Wheel Bearing		121210	Wiring Loom - Honda
0.	220211	Front Wheel - 4" (Two Plastic	110	321310	Battery
50		Halves)	111	221410	Seal Buffers
52	326311	Tyre 410 × 350.4	112	227110	
			113	227112	Part of Wiring Loom Ref 109
REF NO	. PART NO.	DESCRIPTION	114		Starter Button
53	326411	Tube 410 × 350.4		111110	Pan Activating Lever
54	214810	Flat Washer	115	221610	Solenoid (Key Start Model only)
55	214910		116	229010	Engine Pulley Key
56	224630	Nylock Nut	117	221810	Bolt
57		Boll		122011	Belt Guide Engine Front
	317610	Lift Chain Links		228910	Biloc Retainer Plate & Screw
58	215310	Nylock Nut		136910	Transaxle Stabiliser Spacer
59	215210	King Pin Collar		237010	Woodruff Ken
60	126511	Tie Rod		237110	Woodruff Key
61	215610	Hand Brake Return Spring			Transaxle Neutral Switch
62	115710	Hand Brake Bellcrank		237210	Wiring Cable Clamp
		Drand Deligial IV		237310	Bush 1 " Biloc



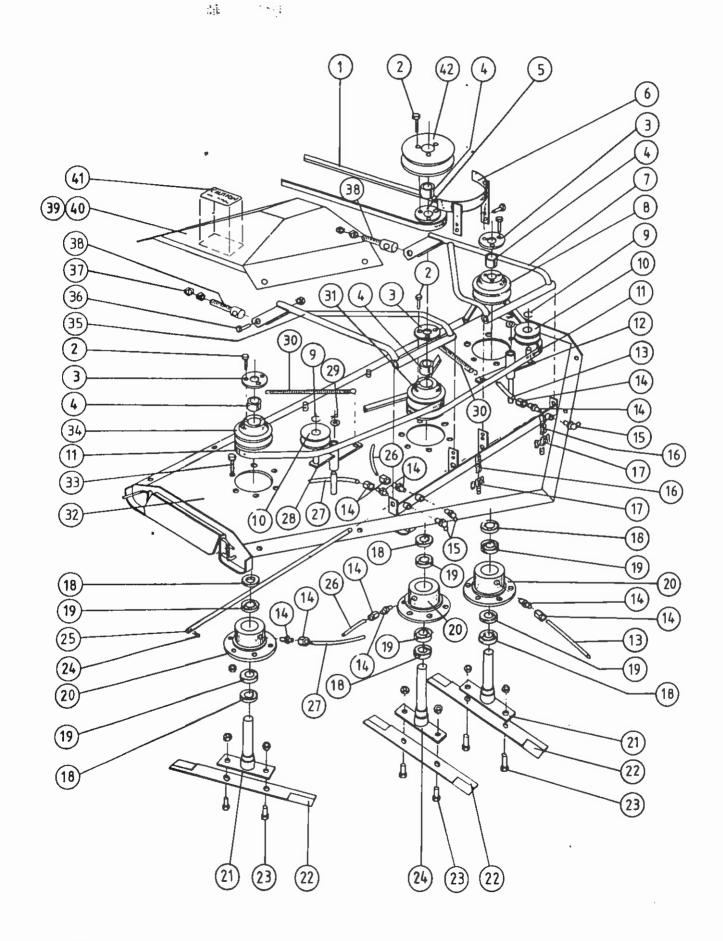
KINGCAT 700mm MOWER

REF NO.	PART NO.	DESCRIPTION
1	127321	Belt Guide
2	223320	Bearing
3	227421	Spindle Housing
4	223220	Spindle Seal
5	224920	Bolt
6	127521	Guide Arm Outer
7	217710	Bolt
8	127621	Guide Arm Inner
9	127721	Rotor Pan
10	127821	Spindle
11	127921	Stiffner Plate
12	229720	Nut -
13	228020	Blade,
14	228220	Blade Bolt & Nut
15	228721	Bolt
16	228621	Bolt
17	228320	Cutter Bar
18	125120	Pan Adjuster
19	225020	Nut
20	213730	Grease Nipple
21	128421	Spindle Spacer
22	128520	Retainer Plate
23	128620	Pulley Bush
24	125520	Drive Input Pulley
25	221920	Bolt
	228120	Turned Up Blade Available as
		Oplion

KINGCAT PUMA LAWN TRACTOR



			,		
BEE NO	PART NO	DESCRIPTION	63	216312	Puma 1100 Transfer
	210110	Seat Cover	64	216410	Gold Pinstriping
1			68	216510	Gear Lever Transfer
2	210210	Seat Foam Insert			Stop Wire
3	210310	Seat Frame (Fibreglass)	66	116610	
4	110410	Seat Mounting Springs	67	116710	Battery Box
5	110510	Seat Mounting Plate	68	216810	Throttle Transfer
6	110610	Seat Securing Plates	69	316910	Lift Chain Rear
7	110710	Seat Mounting Toggle	78	217010	Lift Chain Adjuster
			71	217130	Lift Chain Spring
8	310810	Sleering Wheel		117210	Lift Shaft Bracket
9	210910	Steering Wheel Pin	72		
10	211010	Rubber Grip	73	217310	Lift Shaft Collar
11	111110	Pan Activating Lever	74	117410	Brake Connecting Rod
12	211210	Hand Brake Knob	75	317510	Lift Chain Front
13	211310	Lever Return Spring	76	317610	Lift Chain Links
13/			27	217710	Boll
14/	211410	Blade Engage Transler	78	117810	Lift Shaft
16 16 17 18 20	211510	Lift Gate Transfer			
1.0	311610	Ignition Key	79	217910	Brake Rod Spring
17.	311710	Nut	80	118010	Brake Clevis
18	211810	Steering Shaft Bush	81	218110	Bolt
100	211910	Hand Brake Grommet	82	218210	Rear Wheel 8"
75			82A	318310	Tube 16 × 650 × 8
20	112010	Hand Brake Rod			Tyre 16 × 650 × 8
21	212110	Pan Return Spring	82B	318410	
22	112210	Lift Shaft Lever	83	118510	Rear Wheel Drive Key
23	112310	Clutch Cable Outer	84	218610	Circlip
24	112410	Clutch Cable Inner	85	318710	Transaxle (Complete Unit)
	112510	Pedal Shaft	86	218810	3/8" Starlock
25		Clutch Pedal	87	118910	Gear Shift Selector Arm
26	112610				Gear Shift Link
27	112710	Clutch Pedal Arm	88	119010	
28	112810	Plastic Pedal Stop	89	219110	Bolt
29	112912	Foot Mat (Alloy)	90	119210	Engine Washer
30,	213010	Pedal Shaft Retainer Pin	91	119310	Transaxle Drive Belt
30)		Kingcat Transfer (Coloured)	92	119412	Belt Guide Rear
,31	213110		93	219512	PTO Bell
32	213210	Chassis			Engine Pulley - Puma Large
33	213310	5/8" Blanking Grommel	94A	219612	Chylne Fulley – Furna Carge
34	313410	Tie Rod End	94B	219712	Engine Pulley - Puma Small
35	113510	Steering Arm	95	119810	Clutch Arm Pivot Pin
38	213610	Plastic Bush	96	219910	Clutch Tension Spring
38 37	213730	Grease Nipple	97	320010	Engine - Briggs & Stratton 11hp
37				320110	Engine - Honda 11hp
38	113812	King Pin/Axle (L.H.)	ng	120210	Clutch Activating Arm
38	213910	16 × 60 Bolt	98		
400	714112	Front Axle Beam	99	220330	Clutch Pulley
41	137512	Drag Link	100	220410	Clutch Pulley Bearing
42>	114210.)	Steering Shaft	101	220510	Transaxle Pulley
43	114312	King Pin/Axle (R.H.)	102	120610	Rear Wheel Spacer
		Front Wheel Bearing	1031	220710	Gear Knob
44	214410		100	220,10	
45	214512	Front Wheel 5"			BECODIETION
⁻ 46	314612	Tyre 5"	REF NO.	PART NO	DESCRIPTION
47	314712	Tube 5"	104	120810	Transaxle Stabiliser Bar
48	214810	Washer	105	120910	Gear Shift Lever
49	214910	Nut	107	221010	Grommel
		Bolt	108	121110	Wiring Loom: Briggs & Stratton
50	215012		100		Wiring Loom: Honda
51	115112	Tie Rod	_	121210	
52	215210	King Pin Collar	109	321310	Battery
53	215310	Nut	110	221410	Seat Buffers
			112	321510	Ignition Switch
REF NO.	PART NO.	DESCRIPTION	113	221610	Solenoid
54	215410	Front Axle Pivol Bush	114	121710	Battery Lead Earth (-)
55	11510	Brake Pedal			Bolt
			115	221810	
56	215610	Hand Brake Return Spring		228910	Biloc Relainer Plate & Screw
57	115710	Hand Brake Bell Crank		136910	Transaxle Stabiliser Spacer
58	115810	Brake Pedal Arm		237010	Woodruff Key
59	215910	Brake/Clutch Return Spring		237110	Transaxle Neutral Switch
60	216010	Rubber Mat		237210	Wiring Cable Clamp
	213010	Split Pin			Bush 1" Biloc
61		Throttle Control & Cable		237310	DUSIT I DIIOC
62	316210	THOUSE CONTOL OF CADIE			



KINGCAT 1200mm MOWER

REF I 1 2	NO. PART NO. 219512 221920	DESCRIPTION PTO Belt Bolt
3	128520	Retainer Plate (Drilled(
4	122120	Pulley Bush
5	122220	Retainer Plate (Threaded)
6	122320	Belt Guide
7	122422	Connecting Arm (L.H.)
8	122520	Spindle Pulley (L.H.)
9	222630	Circlip
10	220330	Pulley [
11	322720	Vee Belt
12	122820	Tension Arm (L.H.)
13	122920	Grease Tube (L.H.)
14	123020	Grease Tube Connection Set
15	223120	Grease Nipple 4~
16	317510	Lift Chain Front
17	317610	Lift Chain Links
18	223220	Spindle Seal
19	223320	Spindle Bearing
20	223420	Spindle Housing
21 22	123520	Spindle (Outside)
23	223620	Fixed Blade
23	223720 123820	Boll Spindle (Centre)
25	123920	Connecting Pin
26	124020	Grease Tube (Centre)
27	124120	Grease Tube (R.H.)
28	124220	Tension Arm (R.H.)
29	224330	Circlip
30	217130	Spring
31	224420	Spindle Pulley (Centre)
32	124520	Cutter Chassis
33	224630	Bolt
34	224720	Spindle Puliey (R.H.)
35	224820	Connecting Arm (R.H.)
36	224920	Bolt
37	225020	Nut
38	125120	Pan Adjuster
39	225220	Stainless Cover (L.H.)
40	225320	Stainless Cover (R.H.)
41	225420	Caution Transfer
42	125520	Orive Input Pulley

PUMA SPECIFICATIONS

ENGINE:

Briggs & Stratton I/C

Syncrobalanced

Horsepower

9.0kw (12hp)

Cylinders

1

Cycle Cooling

4 Air

TRANSMISSION

Transaxle

CAPACITIES

Speeds Forward

5

Fuel Tank Engine Oil 2.7 ltr

Min/Max Speeds Speeds Reverse

0-12 kph

Transmission

0.94 Itr 1.018 kg

BRAKE:

Single Disc on

Transmission

TYRES:

Front Rear

5" Tube Type

8" Tube Type

ELECTRICAL SYSTEM

Battery

12v

FUEL Tank location Petrol 91 Octane

Starter Switch

Key with starter

interlock

Mounted on engine

lanition

Solid State

Transmission lubrication

Lithium grease packed and sealed

DIMENSIONS:

Cubic

2 08m³

Length

1600mm

Width

1300 with mower fitted

Height

1000mm

Weight

215kg

CHASSIS:

Monocoque Construction 3mm Plate Steel

TURNING CIRCLE:

Min. lurning radius Mowing radius

812mm 725mm

CONTROLS:

Height Adjuster

Left Hand

Engagment Lever Stop/Throttle/Choke

Left Hand

Gear Shift

Right Hand

Right Hand

Brake

Right Foot

Clutch

Left Foot

MOWER

Cutters

Width of Cut

1200mm (48")

Suspension

Cutting Heights

Floating

3 spindles with 2 fixed blades.

10-60mm

800mm (32")

Floating

2 spindles with fixed blades

10-60mm