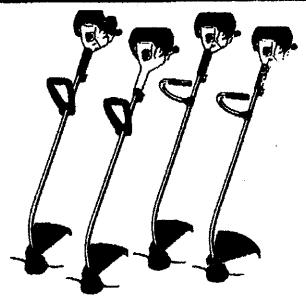
## **ILLUSTRATED PARTS LIST**

### 28cc and 32cc GAS POWERED CURVED SHAFT STRING TRIMMERS

MODEL	(†)SERIAL. NUMBER	MODEL	ENGINE			
NAME	PREFIX	NUMBER	112F	DRIVE	SHAFT	HANCLE
MAC 1385L	27-	400132-93	32œ	CLUTCH	48"	0
MAC 2816	12- / 22-	400128-01	28cc	DIRECT	44"	0
MAC 2818	12-/22-	400128-19	28cc	DIRECT	44"	ט
MAC 2815	12-/22-	400128-21	28cc	DIRECT	44"	0
MAC 2816	12-/22-	400128-27	28cc	DIRECT	44"	0
MAC 2816	12- / 22-	400128-51	28cc	DIRECT	44"	0
MAC 2816	12- / 22-	400128-73	2Ecc	DIRECT	44"	D
MAC 2816	12-	400128-85	2Bcc	DIRECT	44"	<u> D</u>
MAC 2816	12-/22-	400128-93	28cc	DIRECT	44"	<u> </u>
MAC 2816	22-	400128-97	28cc	DIRECT	44"	
MAC 2816	12-/22-	400128-02	28cc	CLUTCH	48"	_D_
MAC 2818	12-/22-	400128-30	28cc	CLUTCH	48"	0
MAC 2818	12- / 22-	400128-58	2Bcc	CLUTCH		_0_
MAC 2B1B	12-/22-	400128-94	2 <b>8</b> C£	CLUTCH		0
Eager Beaver 282	12-	400128-05	28cc	DIRECT	44"	<u>D</u>
Euger Beaver 28	12-	400128-17	78ct	DIRECT	44"	<u> </u>
Eager Beaver 262	12-	400128-47	<b>25</b> 00	DIRECT	44"	0
Ezger Beaver 207	12	400128-10	28cc	CLUTCH		_ <u>P</u>
Eager Beaver 287	12	400125-28	28c	CLUTCH		<u>D</u>
Eager Beaver 287	12-	400128-48	28cc	CLUTCH		
Eager Beaver 287	12-	400128-52	28cc	CLUTCH		<u>0</u>
ProMac I Super	12-/22-	400132-01	<u> 320:</u>	DIRECT		_ i
ProMac   Super	12-	400132-44	32cc	DIRECT	48-	<u>C</u>
PowerPro P1528	22.	400128-96	28cc	DIRECT		<u>p</u>
PowerPro P17320		400132-86	32cc	CLUTCH		<u> P</u>
Roadrunner III	12-/22-	400128-11	28cc	DIRECT		j
Hoadroner III	12-/22-	400128-18	28cc			
Readrumer III	12- 12-	400128-25 400128-59	28cc 28cc	DIRECT		D J
Roadrumer III Roadrumer III	12-/ 22-	400128-61	26cc	DIRECT		J
Handrimer III	12-1 22-	400128-63	28cc	CLUTCH		<del></del>
Silver Eagle 28	12- / 22-	400128-03		DIRECT		<u> </u>
Silver Eagle 28C	12- / 22-	400128-06		CLUTCH		J
Silver Eagle 20	12- / 22-	400128-17				D
Silver Engle 28C	12- / 22-	400128-20				J
Silver Eagle 28	12-	400128-49		DIRECT		D
Silver Eagle 280	12-	400128-50		DIRECT	48"	1
Silver Lagie 280	12-	400128 74	28cs	CLUTC	48"	
Silver Eagle 28	12-	400128-75	29cc	DIFFECT	44"	U
FR 15" DD 44"	90-	002815-00		DIRECT		O
FR 15" DD 44"	90-	002816-00	28cc	DIRECT	44"	Q
FR 17" CD 48"	90-	002817-00		CLUTCH	48"	D
FR 17" CD 48"	90-	002818-00	29cc	CLUTCH	1 48	D



P.O. Box 11990 Tucson, Arizona 85734-1990 - U.S.A.



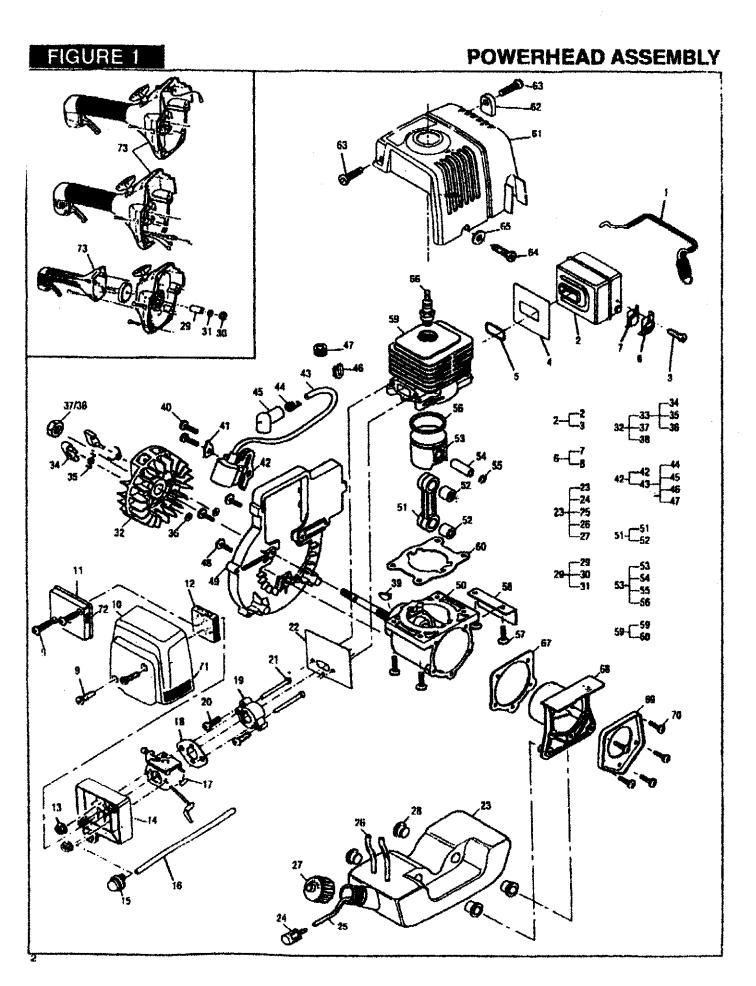
McCulloch products are identified by a model number (in this instance 400128) followed by a suffix number (01). Suffix numbers denote variations in parts or assemblies used in the manufacture of this product.

Illustrated Parts Lists (IPLs) contain a PART NUMBER, DESCRIPTION, UNITS per assembly and STOCKING CODE for each part. Stocking Codes are:

- A Dealer stocked. Fast to medium moving part.
- B Distributor stocked, Medium to slow moving part.
- C Factory stocked. Slow moving part.
- T Indicates a McCulloch service tool.
- NOTE: The following explains symbols and footnotes in this IPL:
  - (a) A dash preceding a PART NUMBER indicates that it is a new part number, different from the one listed in the previous IPL for this unit.
  - (.) One or more dots (. Spring, Starter) preceding a part DESCRIPTION indicates the part is included in the kit or assembly described directly above the dot(s).
  - (---)
    If four dashes appear in place of a PART NUMBER, the part is not available individually but is included in the next higher assembly or subassembly.
  - ©© Circled numbers preceding a DESCRIPTION footnote the part or assembly to additional information on the page
  - (\*) As asterisk denotes that choices follow or precede.
  - (†) Serial Number Prefix (in this instance 22-) denotes CARB approved unit -- all parts are interchangeable with Serial Number Prefix 12-.

The policy of McCulloch Corporation is one of continual improvement in design, manufacturing and engineering advancement wherever possible to assure still liner power tools. Hence, specifications, equipment colors, design and manufacturer's suggested list prices are subject to change without notice. McCulloch Corporation reserves the right to make such changes without prior notification or obligation to backfit or supply backfit components for units previously shipped from the factory.

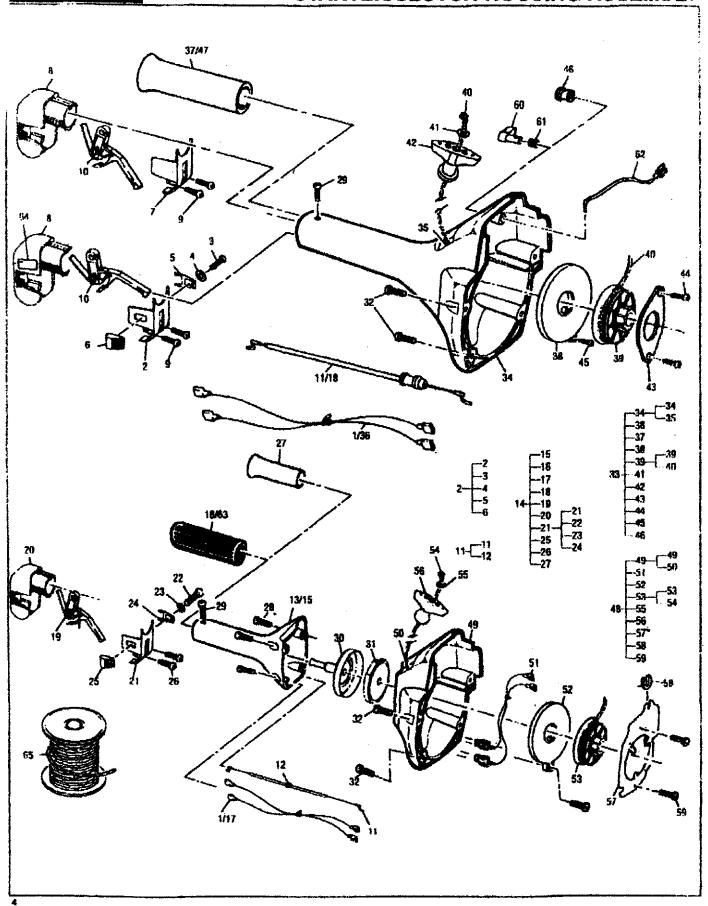
OCTOBER 1996



## **POWERHEAD ASSEMBLY**

ITEM NO.	SIK	PART NUMBER		UNIT DESCRIPTION PER AS	
,	A	224044		Spring, Muffler	1
2	В	-224034		Kit, Muffler	ì
3	B	111072		. Screw, 8-18 x .31 Pn Dh Sl Torx	1
4	A	224228		Gasket, Muffler	1
ş	A	224922		Gasket, Exhaust Port	1
6	٨	- <b>302424</b> 224040		Kit, Spark Arrester . Screen, Spark Arrester	1
13	Â	322032		. Gover, Spark Arrester	i
9	۸	111055		Screw, 10-24 x .625, Plast	ż
10	٨	224236	•	Cover, Air Cleaner, Large (Black)	1
10	8	224236-72	(5)	Cover, Air Cleaner, Large (Green)	1
11	A	224237	Ø	Gover, Air Cleaner, Small (Black)	1
12 13	A A	224239 111058		Filter, Air	2
14	Ä	224238	<b>6</b> 0	Nut, 10-24 Hex, Flange Box, Air (Bik)	1
15	A	224242-02	42	Primer, Remote	1
16	٨	225163		Hosa, Fuel Return	i
17	•	FIGURE 3		Carburetor w/Choke	1
18	A	218933		Gasket, Carburetor	1
19 20	A A	-224041-02 111053		Insulator, Carburetor Screw, 10-24 x .88 Thd Form	1
21	8	111053		Screw, 10-24 X .88 Ind Form Screw, 10-24 Spl	2
22	Ā	322031		Gasket, Manifold	ĩ
23	A	302349		Tank, Fuel (Natural)	1
24	A	-216985		, Filter, Fuel	1
25	Ā	225162		. Hose, Fuel	1
26	Ā	225163		. Hose, Fuel Return	1
27 28	Á	-223508 322105		. Cap, Fuel, w/Retainer Isolator, Fuel Tank	1
29	Â	307114	<b>②</b>	Kit, Spacer, Clutch	1
30	C	322847	_	. Nut, Hex, 7/15-20	1
31	B	322844		. Washer, Shaft	1
32	A B	-300827-01		Kit, Flywheel, 28/32	1
34	A	-322297		. Kit, Pawis/Flywheel Pawi, Starter	1
35	Ä	-322835		Spring, Starter Pawl	2 2 2
36	A	111066		Ring, Retainer	2
37	8	111085	Ф	. Nut, Direct Drive	1
38	Ç	322847	2	. Not., 7/16-20, Clutch Orive	1
39 40	A A	102164 111053		Key, Flywheel Screw, 10-24 x .88 Thd Form	2
41	B	300321	æ	Terminal Tab	1
42	Ä	302138	•	Ignition Asy	i
43	A	223864		. Kit, Spark Plug Wire	i
44	Ą	102556		Connector, Spark	1
45 46	A	95266		_ Boot, Spark Plug	1
47	8	215533-01 110995	Ø 9	Grommet, H/T Lead, Split Grommet, S/Plug Wire	1
48	Ř	111067	•	Screw, 10-24x.63 SiTorTp	3
49	8	224042		Shroud, Engine	1
<b>~50</b>	8	301539	Φ	C'case/C'shaft Asy, Direct Drive	1
	•	<del></del>		. C'case Asy	1
	-			. C'case, Machined	1
	-			Bearing 6202 Bearing 6202RS	1
1	-	** **		Seal	í
1	-			Spacer	1
				O-ring	1
-50	B	301821	₩	C'case/C'shaft Asy, Clutch Drive	1
	-	** **		. C'shaft Asy	1
1	-	** **		. C'case, Machined Bearing 6202	1
1	-			Bearing 6202RS	1
	-			Seal	i
	-			Spacer	1
				O Alng	1

						JURE 1	
ITEM	STK	PART		<b></b>		UN	175
KO.	CODE	NUMBER		DESCRIPTIO	<u>N</u>	PER A	SY
51		-301982		Rod, Connect	Ing As	y	•
52 53	A A	91117 300661	Œ	. Bearing Kit, Piston, 28	lea Alı	ettims (etc.	2
53 54	8	300482	w	. Pin, C'shaft			1
55	Ă	215876		. Ring, Retain			į
56	A	224224		. Ring, Piston		m	Ė
53	A	300663	<b>(A)</b>	Kit, Piston, 37			Ť
54 55	B A	300482 215876		I'm, C'slaft			1
56	Â	224217		. Alog, Retain . Alog, Piston			1
57	Â	111065		Screw, 10-24		Tri And	4
58	A	322030		Shield Muffle			i
59	A	300452	0	Kit. Cylinder/		, 28cc Chon	
60	Ā	224022	_	Gasket, Cylin			1
59 60	A	300453 224022	3	Kit, Cylinder/C Gasket, Cylin		, azce Chrom	16 T
61	8	224235		Cover, Cylinde		lier (Ritark)	1
62	B	322210		Washer, Plast		-con facilities)	1
63	8	111067		Screw, 10-24	x .63		2
64	B	111068		Screw, 10-14			1
65 66	A A	93469 92879		Washer, 469 Spark Plug, R	UU/.Zz	2211)	1
67	Â	224023		Gasket, C'eas			- 1
68	Ä	-224024-01		Plug, C'case	•		3
<del>59</del>	C	-322437-90		Plate, C'case,	Coate	d Finish	1
70	A	111065	_	Screw, 10-24			5
71	C	322240	Ø	Label, Choke			1
72	U	322480		Label, Staring			<b>h</b> 1
<b>②</b>	 Direct D Clutch 1	FIGURE 2 Prive Models ( Drive Models (	anty (	models with Starter/Clutch refer to chart or refer to chart o	siide Hous page page	to stop switching Asy	h 1
73 Ø :	Direct D Clutch L 28cc M 32cc M	FIGURE 2 Prive Models ( Drive Models ( odels Only (re	Only (i fer to fer to	models with Starter/Clutch refer to chart or refer to chart or chart on page chart on page	siide Hous page n page 1)	to stop switching Asy	
73 D   D   D   D   D   D   D   D   D   D	Direct D Clutch L 28cc M 32cc M	FIGURE 2 Drive Models ( Drive Models ( Dudels Only (re Dudels Only (re Dud On These N	Only (i fer to fer to lodels	models with Starter/Clutch refer to chart or refer to chart or chart on page chart on page	siide Hous page n page 1)	to stop switching Asy	1
73 D (1) D (1) D (1) D (1) D (1)	Direct D Clutch L 28cc M 32cc M Not Use Repres large bl	FIGURE 2  Drive Models ( Orive Models ( oricles Only (re	Only (i fer to fer to lodels Re sti	modets with Starter/Clutch refer to chart or chart on page chart on page presents a rall black air	siide Haus n page n page 1)	to stop switc ing Asy 1) 1) Represents terminal tab	1
73 20 20 30 30 50	Direct Di	FIGURE 2  Prive Models Corrive Models Codels Only (re ordels Only (re)	Only (i fer to fer to lodels Re Sn bo	models with Starter/Clusich refer to chart or refer to chart or chart on page chart on page in presents a nall black air	siide Haus n page n page 1)	to stop switching Asy  1) 1) Represents terminal tab 22400128-0	2
73 D 20 30 30 S	Direct Di	FIGURE 2  Prive Models ( Prive Model	Only (i fer to fer to lodels Re Sn bo 22	modets with Starter/Clutch refer to chart or chart on page chart on page presents a rall black air	siide Haus n page n page 1)	to stop switching Asy  1) 1) Represents terminal tab 22400128-0	1 2 6
73 D   D   D   D   D   D   D   D   D   D	Direct D Clutch L 28cc M 32cc M Nat Use Repres large bl bage 224001 224001 224001	FIGURE 2  Prive Models (C)  Pr	Only (i fer to fer to lodels Re Sn 22 22 12	models with Starter/Clutch refer to chart or chart on page chart on page chart on page inpresents a presents a	siide Haus n page n page 1)	to stop switching Asy  1) 1) Represents terminal rab- 22400128-0 12400128-1 22400128-1	1 2 2 6 0 1
73 D D D D D D D D D D D D D D D D D D D	Direct D Clutch L 28cc M 32cc M Not Use Repres large bl box 224001 224001 224001	FIGURE 2  Prive Models (  Priva Models (  Prive Models (  Prive Models (  Prive Models (  Priv	Only (I fer to fer to lodels Re Sn 22 22 12	models with Starter/Clutch refer to chart or refer to chart or chart on page chart on page in presents a nall black air ux 2400128-01 400128-02 400128-10	siide Haus n page n page 1)	to stop switching Asy  (1) (1) (1) (2) (2) (2) (4) (1) (2) (4) (1) (2) (2) (4) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	1 2 12 16 10 1 8
73	Direct D Clutch L 28cc M 32cc M Nat Use Repres large bl bage 224001 224001 224001	FIGURE 2  Prive Models Corrive Models (records Only (records Only (records Artista)  Prive Models Only (records Only (records Only (records Artista)  28-03  28-03  28-17  28-18	Only (I fer to fer to lodels Re Sn 22 22 12 22 22	models with Starter/Clutch refer to chart or chart on page chart on page chart on page inpresents a presents a	siide Haus n page n page 1)	to stop switching Asy  1) 1) Represents terminal rab- 22400128-0 12400128-1 22400128-1	1 2 2 6 0 1 8 0
73	Direct Direct Direct Market Market Use Nat Use	FIGURE 2  Prive Models ( Orive Models ( Orive Models ( Orive Only (re odels Only (re od On These N ents a	Only (Per to lear to lodels Respondent 12 22 12 12 12 12 12 12 12 12 12 12 12	models with Starter/Clutch refer to chart or refer to chart or chart on page chart on page chart on page presents a spresents	siide Haus n page n page 1)	to stop switching Asy  1) 1) 2400128-1 22400128-1 22400128-1 22400128-1 12400128-2 12400128-2 12400128-2 12400128-2	1 26018058
73	Direct Direct Direct Market Ma	FIGURE 2  Prive Models ( Orive Models ( Orive Models ( Orive ( re odels Only (	Only (i fer to fer to lodels sn bo 22 22 12 12 12 12	models with Starter/Clutch refer to chart or refer to chart or chart on page chart on page chart on page chart on page presents a rall black air vx 2400128-01 2400128-19 2400128-21 2400128-21 2400128-21	siide Haus n page n page 1)	to stop switching Asy  1) 1) 1) Represents terminal tab 22400128-1 22400128-1 12400128-1 12400128-1 12400128-1 12400128-1	1 260180580
73	Direct Direct Direct Market Market Use Nat Use	FIGURE 2  Drive Models (C)  Dr	Only (i fer to fer to lodels sn bo 22 22 12 12 12 12	models with Starter/Clutch refer to chart or refer to chart or chart on page chart on page chart on page presents a spresents	siide Haus n page n page 1)	to stop switching Asy  1) 1) 2400128-1 22400128-1 22400128-1 22400128-1 12400128-1 12400128-2 12400128-2 12400128-2	1 260180580H
73	Direct Direct Direct May 22ca Minut Use Nove 224001 224001 224001 124001	FIGURE 2  Prive Models Corive Models Corive Models Only (re odels	Only (ifer to fer to lodels for some 22 22 12 12 12 12 12 12 12 12 12 12 12	models with Starter/Clusch Starter/Clusch Starter/Clusch Starter/Clusch Starter to chart or page chart on page chart on page start on page start on page start of page sta	siide Haus n page n page 1)	to stop switching Asy  (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	1 260180580R90
73	Direct Direct Direct Direct M32cc Minot Use M4001 224001 224001 1	FIGURE 2  Prive Models ( Orive Model	Only (i fer to fer to lodels Re Start 12 12 12 12 12 12 12 12 12 12 12 12 12	models with Starter/Clusch Starter/Clusch Starter/Clusch Starter/Clusch Start on chart on page chart on page chart on page stall black air lax 1400128-02 1400128-19 1400128-19 1400128-27 1400128-28 1400128-30 1400128-30 1400128-30 1400128-30 1400128-48 1400128-48 1400128-51	siide Haus n page n page 1)	to stop switching Asy  1) 1) 2) Represents terminal tab 22400128-0 12400128-1 22400128-1 12400128-2 12400128-3 12400128-3 12400128-3 12400128-3 12400128-3 12400128-3 12400128-3 12400128-5 12400128-5	1 260180580H8002
73	Direct Direct Direct May 22ca Minut Use Nove 224001 224001 224001 124001	FIGURE 2  Prive Models (Orive Models (Orive Models Orive) (recodels Orive)	Only (i for to lodels Refer to lodels Refer to lodels 222 22 12 12 12 12 12 12 12 12 12 12 12	models with Starter/Clusch Starter/Clusch Starter/Clusch Starter/Clusch Starter to chart or page chart on page chart on page start on page start on page start of page sta	siide Haus n page n page 1)	to stop switching Asy  (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	2 260180580H9028
73	Direct Di	FIGURE 2  Prive Models (C) Prive Models (C) Prive Models (Prive Models (	Only (infer to	models with Starter/Clutch Starter/Clutch Starter/Clutch Starter/Clutch Starter/Clutch Starter to chart on page chart on page chart on page stall black air like 400128-01 400128-19 400128-19 400128-28 400128-28 400128-48 128-48 128-48 128-48 128-48 128-48 128-58 1400128-58 1	siide Haus n page n page 1)	to Stop switching Asy  (1) (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	1 260180580H902H91
73	Direct D Clutch L 28cc M 32cc M Nat Use Repres large bl large bl 224001 224001 224001 124001 124001 124001 124001 124001 124001 124001 124001 124001 124001 124001	FIGURE 2  Drive Models Corive Models Corive Models Only (records Only (r	Only (infer to	models with Starter/Clusch Starter/Clusch Starter/Clusch Starter/Clusch Starter/Clusch Starter to chart on page chart on page chart on page start star	siide Haus n page n page 1)	to stop switching Asy  (1) (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	1 260180580H902H914
73	Direct Di	FIGURE 2  Prive Models ( Orive Model	Only (infer to	models with Starter/Clutch Starter/Clutch Starter/Clutch Starter/Clutch Starter/Clutch Starter to chart on page chart on page chart on page stall black air like 400128-01 400128-19 400128-19 400128-28 400128-28 400128-48 128-48 128-48 128-48 128-48 128-48 128-58 1400128-58 1	siide Haus n page n page 1)	to stop switching Asy  (1) (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	1 260180580H802B91434
73	Direct Direct Direct Direct Direct Discount Disc	FIGURE 2  Prive Models ( Orive Model	Only (infer to	models with Starter/Cluster Starter/Cluster Starter/Cluster Starter to chart or refer to chart on page chart on page chart on page chart on page stall black air law 128-02 (400128-05) (400128-19) (4	siide Haus n page n page 1)	to stop switching Asy  (1) (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	1 260180580H9028914344
73	Direct Direct Direct Direct Direct Discount Disc	FIGURE 2  Prive Models ( Orive Model	Only (infer to	models with Starter/Cluster Starter/Cluster Starter/Cluster Starter to chart or refer to chart on page chart on page chart on page chart on page stall black air stall black a	siide Haus n page n page 1)	to stop switching Asy  1) 1) 2) Represents terminal tab 22400128-0 12400128-1	* 1260   80580   180580   180743446
73	Direct Direct Direct Direct Direct Discount Disc	FIGURE 2  Prive Models ( Orive Model	Only (infer to	models with Starter/Cluster Starter/Cluster Starter/Cluster Starter to chart or refer to chart on page chart on page chart on page chart on page stall black air law 128-02 (400128-05) (400128-19) (4	siide Haus n page n page 1)	to stop switching Asy  (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	* 26018058088028974344610
73	Direct Direct Direct Direct Direct Discount Disc	FIGURE 2  Prive Models ( Orive Model	Unity (infer to	models with Starter/Clusch Starter/Clusch Starter/Clusch Starter/Clusch Starter/Clusch Starter to chart or page chart on page chart on page chart on page start on page st	siide Haus n page n page 1)	to stop switching Asy  (1) (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	* 26018058088028974344610
73	Direct Direct Direct Direct Direct Discount Disc	FIGURE 2  Prive Models ( Orive Model	Only (infer to	modets with Starter/Clusch Starter/Clusch Starter/Clusch Starter/Clusch Starter/Clusch Starter to chart or page chart on page chart on page chart on page start on page start of page st	stide Hous	to stop switching Asy  (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	* 260180580H90ZB91743446GB00
73	Direct Direct Direct Direct Direct Discount Disc	FIGURE 2  Prive Models ( Orive Model	Only (infer to	models with Starter/Clusch Starter/Clusch Starter/Clusch Starter/Clusch Starter/Clusch Starter to chart or page chart on page chart on page chart on page start on page st	siide Haus n page n page 1)	to stop switching Asy  (1) (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	* 260180580H90ZB9143446G00
73	Direct Direct Direct Direct Direct Discount Disc	FIGURE 2  Prive Models ( Orive Model	Only (infer to	modets with Starter/Clusch Starter/Clusch Starter/Clusch Starter/Clusch Starter/Clusch Starter to chart or page chart on page chart on page chart on page start on page start of page st	stide Hous	to stop switching Asy  (1) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	1 260180580H90ZB91743446GB00



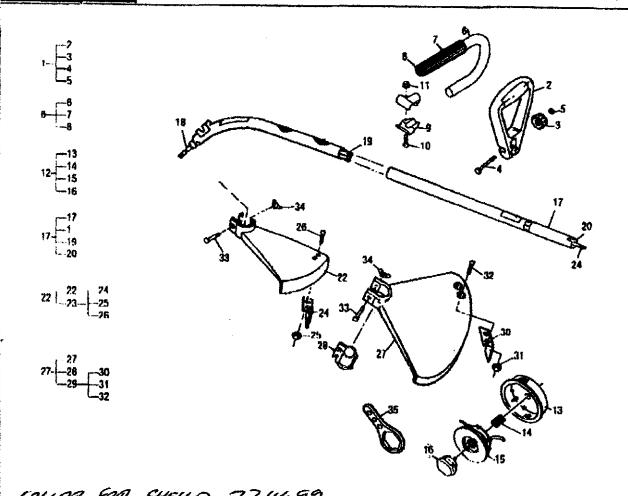
## STARTER/CLUTCH HOUSING ASSEMBLY

	<u>.Y</u>				JRE 2
TEM VO.	STK	PART NUMBER		DESCRIPTION	UNIT: PER AS
43	8	322362		Puttey, Retained, Direc	
44	Ā	223357		. Screw, 8-16 Plastite	
45	8	322027		. Screw, Spring Retains	t
46	C	300119	<b>(9)</b>	Plug, Switch Cover	
47	Ā	322234		Protecting Slavy	
48	Ą	224916	<b>Ø</b>	Starter Asy (Yellow), Chr	
49 50	Ā	300616		. Housing, Starter/Rope	filmin
51	Ā	301134		Rope Guide	
52	Â	300475		. Wire Asy, Starter Hsg . Spring, Starter Rewind	
53	Â	300872		Driam/Rope Asy, 28/32	
54	Ä	222869		Hope, Starter, 46 in	•
55	8	218941		. Washer, Nylon	,
56	A	216792		. Handle, Starter	
57	5	224927		. Plate, Baffle, Clutch Di	rive .
56	8	215533-01		. Grommet, H/T Lead	
59	Ā	223357		Screw, 8-16 Plastite	
48 49	B B	300013	@එ	Starter Asy (Grey) Chite	th th
43 50	-	300618		Housing, Starter/Rape	CHOS
50 51	Ā	301134		Rope Guide . Wire Asy, Starter Hag.	Photob Po
52	Â	300475		Spring Asy, Package	fither th
53	Â	300872		. Drum/Rope Asy	
54	Ä	222869		Rope, Starter, 46 in.	
55	8	218941		. Washer, Nylon	
56	A	216792		Handle, Starter	
57	8	224927		. Plate, Baffle, Clutch Dr	rive
58	R	215533-01		. Grommet, HVT Lead, S	gslid
50	Ÿ	223357		. Screw, 8-16 Plastite	
48	B	224916-61	<b>(2)(III)</b>	Starter Asy Clutch Drive	
49	8	224240-61		. Housing, Starter Cl Dr	(Black)
50 51	Ā	301134		Rope Guide	Minch D.
52	Â	300475		. Wire Asy, Starter Heg, . Spring Asy, Package	CIVILITY OF
53	Â	300872		. Orum/Rope Asy	
54	Â	222869		Rope, Starter, 46 in.	
55	B	218941		, Washer, Nylon	
56	A	216792		. Handle, Starter	
57	8	224927		. Plate, Baffle, Clutch Ur	rive
58	8	215533-01		. Grommet, H/T Lead	
59	Ÿ	223357		Screw, 8-16 Plastite	
60	8	222914	<b>#</b>	Button, Stop	
61 62	8	222913 222926	0	Spring, Stop Button	
63	8	322140	<b>©</b>	Wire Asy, Switch Grip	
64	B	322061	Ġ	Label, ON/OFF Switch	
65	8	300415	•	Rope, Bulk	
D Dia 20 Cit	rect Drive utah Orlu	: Madeis Only • Modeis Only	(reler to (reler to	chart on page 1) chart on page 1)	

		- <del> </del>	
© Represents grey 25/00 22/00/128-03 12/00/128-17 12/00/128-49 12/00/128-75	S Propresents black any 00 22400128-90  Represents yellow asy 02 22400128-02	© Represents 949 459/CL 22400128-08 12400128-20 12400128-50 12400128-74	69 Represents 100/ interests, switch 22400128-01 22400128-03 12400128-05 22400128-11 12400128-17 22400128-18
Represents paleur 25/00 22/00/128-01 12/00/128-11 12/00/128-11 12/00/128-12 12/00/128-27 12/00/128-47 22/00/128-57 12/00/128-57 12/00/128-57 12/00/128-57 12/00/128-57 12/00/128-57 12/00/128-57 12/00/128-53 12/00/1	12406128-18 22400128-18 22400128-38 12400128-52 22400128-52 22400128-53 22400128-94 12400128-91 12400132-44 90002818-00	# Represents black asyC1 22400132-86 22400132-95   **The Properties of the Propertie	22400128-19 22400128-21 12400128-25 12400128-45 12400128-44 12400128-47 22400128-51 12400128-61 12400128-73 12400128-73 12400128-73 12400128-75 12400128-75

TEM	STK	PART		CH HOUSING	UNITS
10.	CODE	NUMBER		DESCRIPTION PE	R ASY
•	A	301133	¢.	Wire Asy, Switch	1
i ?	R A	301135	00	Wire Asy, Switch	1
	ĝ	300064 111069	49	Cover, Asy, Switch . Screw, 8-16 x .375 Plastite	1
	9	105497		. Washer, Flat, 180 (O max	
	A	224246		Contact, Switch	1
	K.	224245	4.	. Button, Stop Switch	1
	8 8	274914 274234	49	Cover, Switch Housing Trigger Hag Asy, 22mm, 28/32	1
	Ä	111061		Screw, 6-19 x .62 Fl Hd Plasth	1 1 2
	A	300361		Trigger, Throme	1
	٨	300149-01	Ψ	Huattis Cable, Direct Drive	1
	A A	300372-01 111074	Ø	Throttle Cable, Clutch Orive Nut, Speed, .188 ID	1
	8	224912	Œ)	Housing , Clutch, 7/8 in. (Yello	
	В	300014	4	Housing, Clutch, 7/8 in. (Grey)	1
	ii A	300782-61 224912-61	CD)	Housing Asy, Clutch, 7/8 in (Bl.	ack) 1
	B	322140		. Housing, Člutch 7/8 (Black) . Grip	3
	Ă	301133		. Wire Asy, Switch	
	A	.386372-01		. Cable Asy, Thronte	•
	A	300361		. Trigger, Throttie	1
	B	224234 300064		. Triggger Hsg Asy, 22mm (28/ . Cover Asy, Switch	32)
	R	111069		Screw, R-16 x .375 Plasting	1
	8	105497		Washer, Flat, ,180 ID max	
	A	224246		Contact, Switch	1 1
	R A	224245 111051		Bulton, Stop Switch . Scrow, 6-19x,62 Fi Hd Plast	1
	Â	322234		. Sleave, Protecting	4
	A	224919		Screw, 10-14 x 1,0 Pn Hd	4
	A	111070		Screw, 12-11 x .5 Pn Hd Torx	1
	A A	- 302106 300459	(3) (3)	Drum, Clutch, Heat Treated	1
	Â	111054	4	Kit, Cluich Screw, 10-24 x .625	
	C	300979	(I)(I)	Kit, Starter Any w/Plug (Grey)	3
	C	300980		. Housing, Starter/Rope Guide	
	B	301135	•	Rope Guide	1
	Ä	322234	138	. Wire Asy, Switch . Sleeve, Protecting	1
	A	300475		. Spring, Starter Rewind	1
	Ņ	300872		Drum/Rope Asy, 28/32	1
	A B	222869 218941		., Rops, Starter, 46 in. . Washer, Nylon	1
	Ä	216792		. Handle, Sturter	•
	B	322362		. Pulley, Retained, Direct Drive	1
	A 8	223357 220002		. Screw, 5-16 Plastile	- 3
	Ĉ	300119	•	. Screw, Spring Herainer . Plug, Switch Cover	1
	Ă	300118	00	Starter Asy w/Plug (Yellow)	
	A	300621		. Housing, Starter/Rope Guide	. 1
			_	Rope Guide	1
	8 A	301135 322234	(3)	. Wire Asy, Switch . Stewn, Protecting	3
	Â	300475		. Spring, Starter Rewind	
	A	300872		. Drum/Rope Asy	
	Ž	222869		., Rope, Starter, 46 in.	•
	B A	218941 216792		. Washer, Nylon . Handle Starter	1
	ŝ	322362		. Pulley, Retained, Direct Drive	
	Ã	223357		. Screw, 8-16 Plantite	•
	B	322027		Screw, Spring Relainer	•
	G	300119	(B)	. Plug, Switch Cover	
	8	224917-61	О	Starter Asy (Black) Direct Orive . Housing, Starter DD (Black)	
				. Rope Guide	•
	B	301135	9	Wire Asy, Switch	1
	Ā	322234		. Sleeve, Protecting	
	A	300475 300872		. Spring, Starter Rewind . Drum/Rope Asy	
) )	A	300072		Rope, Starter, 46 in.	;
	В	218941		. Washer, Nylon	
•	A	216792		Handle Starter	-

## SHAFT / HANDLE / STRINGHEAD ASSEMBLY

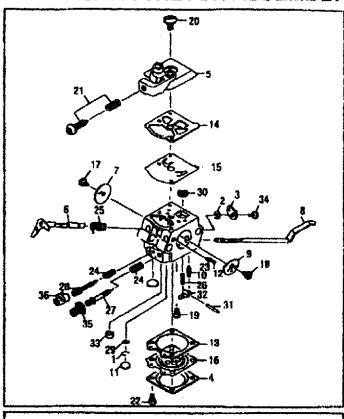


	47.4			TEILD ZEHUT	<u></u>
ITEM		PART		UN	HT3
NO.	CODE	NUMBER		DESCRIPTION PER	ASY
1	8	300834	Ġ	Handle, Oelta Kit	1
2.	C	37106-10		Assist Handle w/Cap Asy	1
3	8	322719		Knob	1
4	8	09075-99		. Boft, 1/4 frt20 x 2,5 Hx Cap	1
5	8	13035-99		. Nut. 1/4 in20 x .22 T	1
6	B	300540	4	Handle, J-Grip Asy	1
7	Ç	322139		. Grip	1
8	B	218328		. Plug, Tubing	1
9	0	215337	<b>(4)</b>	Clamp, Handle	2
10	A	217935	(8)	Scraw	2 2 2
11	A	218315	(6)	Nut, 10-24	2
12	A	300651		Kit, Stringhead, Small	1
13	A	322025		. Housing/Eyelet Asy w/Collar	1
14	A	-324089		. Spring, McC Stringhead	1
15	Α	300688		. Kit, Line on Spool, M-Sm	1
15	A	-300736-01		. Kit, Knob Asy, Smail	1
*17	Ά.	300429	<b>(</b> )	Housing Asy, Outer, 44"	1
20	A	223412		. Clip, Spring External	2
-17	A	300424	<b>②</b>	Housing Asy, Outer, 48"	1
20	A	223412		Clip, Spring External	2
-21	Α	- 301023	O	Shadt, Flex, 44"	1
.51	A	215324	<b>②</b>	Shair, Flex, 48"	1
22	A	224062	,	Shield Asy, Grass, R. 17in.	1
23	A	300626		. Kit. Kinite	1
24	٨	- 224497-01		Cutter	1
25	Α	216682		Nut. Lock 10 24 Hex	2
26	A	217935		Screw, 10-24 x 50 Torx	2
<u></u>					

ITEM	STK	PART		UNITS
NO.	CODE	NUMBER	DESCRIPTION	PER ASY
27	Α .	300317	© Shield Asy, Grass, 90"	1
28	В	224499	. Spacer	1
29	A	300626	Kit, Kriffe	1
30	A	-224497-01	Cutter	1.
31	A	216882	Nut, Lock 10-24 <del>Hex</del>	<b>t</b> !
32	A	217935	Screw, 10-24 x .50 Torx	2
33	A	216595	Screw, M6 x 1.0 Hex	1
34	A	111102	Nut, Wing M6 x 1.0	1
35	Ť	322344	Wrench, Stringhead	1
O	44" Sh	aft Models ()	nly (refer to chart on page 1)	
•	48" Sh	alt Models ()	nly (refer to chart on page 1)	
Φ	22400 22400 22400 22400 22400 22400 12400 12400 12400 22400	andie 128-01 128-03 128-03 128-05 128-05 128-17 128-19 128-21 128-21 128-47 128-47 128-49 128-51	22400128-73	sents a die 1128-06 1128-11 1128-20 1128-25 1128-48 1128-50 1128-61 1128-50

## FIGURE 4

## **CARBURETOR ASSEMBLY**



ITEM NO.		••	PART NUMBER		DESCRIPTION	UNITS PER ASY
	٨		323602 03		Carburetor, Walbra W7 434	1
1				(f)	Rong, Scroom Rethieur	i
2					Pleg, Shaft Retainer	i
3			·• ··		Laver, Throate	i
4	_				. Cover, Metecing Lever	i
5	8		390072		. Cover, Fuel Pump	t
6 7					. Shaft Asy, Throitie	1
8				_	, Valva, Fhruittia	1
9				9	Shaft Asy, Cheke	1
10				on: ⊘	. Valve, Citalia	1
11				w	. Valve, Inlet Heedle . Seat Asy. Check Valve	1
12				ø	. Man visy, Green varie . Plut, Cup	Į.
13				Ď	. Plus. Weich	
14			., .,	ă	, Hall, Choke Friction	i
15				000	. Gaziet, Metering Disphrages	
16			<del>-</del>	(30)	. Caster, Fuel Purpo	i
17				000	, Displement, Fuel Purso	i
16				00	, Dispferson Asy, Malaring	i
13			<del></del>	00	. Screw, Velve	2
20				Ó	Scarner, Minhering Larence Pine	i i
21			re •••		Screw, Plana Cover	1
22			ee 4+		Spring, Idle Adjust Kit	1
23					. Screw, Motoring Cover	4
24	A			•	. Sydna. Cholu Friction	1
25					. Spring, Idle Heedle	1
26				•	. Spring, High Speed Needle	1
2/ 28			~ **	_	Spring, Thruttle Heliana	ţ
20 29			** **	Ф	, Spring, Motoring Lover	1
30					. Novete, High Speed	1
31					Meedle, Low Speed	1
39				Ó	. Screen, Check Value	3
33				Ω. An	Screen, Fuel Inlet Pin, Metering Lever	1
34				•	. Lever, Meterine	1
35					. Ring, High Social	•
36					Washer, High Squad	i
37	75		323601		Cap, Limiter, High, Black	1
38	8		323682		. Cap, Limiter, Low, White	i
100		30045	7	Kit, Major i	Repair Assistant (Site Code A)	
(20		37446	0		Ellaphragan (BT 768WT (5th Code A	it.
da da		722.W	-		Lavor 40 999 (Sile Code A)	•
				ME LANGE	75-m -4 333 (145 PMV (4)	

ITEM		PART	****		UNITS
ND.	COUL	MUMBER	1	DESCRIPTION	PER ASY
	A	- 323602-03	!	Carbusator, Zama C1U M290	ŧ
1				, Ring, Screen Retainer	\$
2				Colle	
3				, Lever, Throttle	1
4	_			. Cover, Metering Lover	ł
5	8	300456		. Cover, Fuel Pump	t
6				. Shalt Asy, Throtto	1
7			_	Valve, Throttle	1
			•	Shaft Asy, Cholor	1
3		**	•	Valve, Choire	1
10 11			Φ.	. Valve, Injet Needle	1
12			Ø	. Plug. Welch . Ball. Chake Friction	3
13			00	. Gashet, Metering Disphragm	
14			00	. Gashet, Fuel Pump	
15			03	. Otophragm, Fast Pump	1
16			0029	. Diaphragm Asy, Matering	,
17			4	. Serew_Jalve	, ,
18			_	Screw, Valve	1
19				. Screw, Metering Lever Pin	i
20				, Screw, Pamp Caver	
21				. Screw, Idle Adjust 10t	2
22				, Screw, Metarine Cover	7
22			OH.	. Spring, Chelte Friction	i
24				. Spring Rhedin	7
25		** **		Spring, Throttle Return	1
28		**	Œ	. Spring, Metering Laver	1
27			٠.	. Headle, High Speed	1
28			_	. Neaste, Ldw Spand	1
29		~*		. Screen, Check Valve	1
30		~ **	Ø.	. Screen, fuel Inlet	2
31			0	. Pio, Melering Lever	*
32			Ø.	. Laures, Milatering	! !
33 34		** **		Nozzie Asy, Check Valve	! !
25		303000		. Screen, Throttle Lever	1
35	8 8	323603 373604		Cay, Limiter, High, Black	1
	ď	3 <b>2.504</b> *		Cap, Limiter, Low, White	`
ø	3004	54	Kil Marer	Rapair RB-48 (SM: Code 8)	
	3904			Maphagen 680-13 (Sik Code A)	1
- 03	3223	_		l ever 46-999 (SM Coda A)	
	100 5 15		rat, tennet	s darks and the dark from the tall	

# MCCULLOCH

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MONDAY - FRIDAY - 6:00 AM - 4:30 PM (MST)

### TORQUE SPECIFICATIONS FASTEMER FIG/ TORQUE DESCRIPTION PART NO. ITEM (MALBS) LOCTITE C'Case to Cylinder 111065 1/57 55 - 60 C'Case to Plast Plug 111065 1/70 35 - 40 242 insulator to Cylinder 111053 1/20 45 - 50 242 Shroud to C'Case 111054 1/48 55 - 60 242 Ignition Asy 111053 1/40 45 - 50 242 111058 Carburetor 1/13 25 - 30Spack Plan 92879 1/66 110 120 Flywheel Nut 111085 1/37 140-145 242 Flywheel Nut 322847 1/38 140 - 145 242 Starter Housing 111054 2/18 30 - 35 Clutch Housing 224919 2/14 30 - 35

# 322235-02 Lociite Kit 322236 . Retaining Compound 620 (10 ml) 322237 . Thread Locker 242 (10 ml) 322238 . Gasket Eliminator 518 (50 ml) 322239-01 . Black Max 380 (3 ml) 323749 . Thread Locker 262 (10 ml) 323762 . Anti-Seize Lubricant 767 (30 ml)

ENGINE SP	ECIFICATIONS
Engine Type	Air-Cooled, Two Cycle, Single Chrome Cylinder
Displacement	.28cc or 32cc
Maximum Horsepower	28cc = 1.1 HP 32cc = 1.3 HP
	. 28cc = 1.37x1.12 in. (35x28.6mm) 32cc = 1/49x1/12 in. (38x28.6mm)
Idle RPM, Direct Dr (asmbl'd)	.3000 - 3500 RPM
Idle RPM, Clutch Dr (asmb/d)	2700 - 3000 RPM
Maximum RPM (asmbl'd)	./000 - 8000 RPM
Compression, PSI	
Ignition	f leatronia - 1
Plywheel to Ignition Gap	0.010-0.015 in. (0.254-0.381mm)
Spark Plug	Champion ROJ8J
Spark Plug Gap	.0.025 in. (0.63mm)
Fuel Tank Capacity	24 oz. (71mi)
Fuel Type	Unleaded - Regular Grade
Fuel to Oil Ratio	40:1 McCulloch Custom Lubricant
Dry Weight	44" = 9.9 lbs 48" = 13.5 lbs
Carburetor	. Disphragm with Primer
Starter Cord	. Nylon, Type 3.5, Length 46 in.

