

SPECIFICATION

SHEET 6

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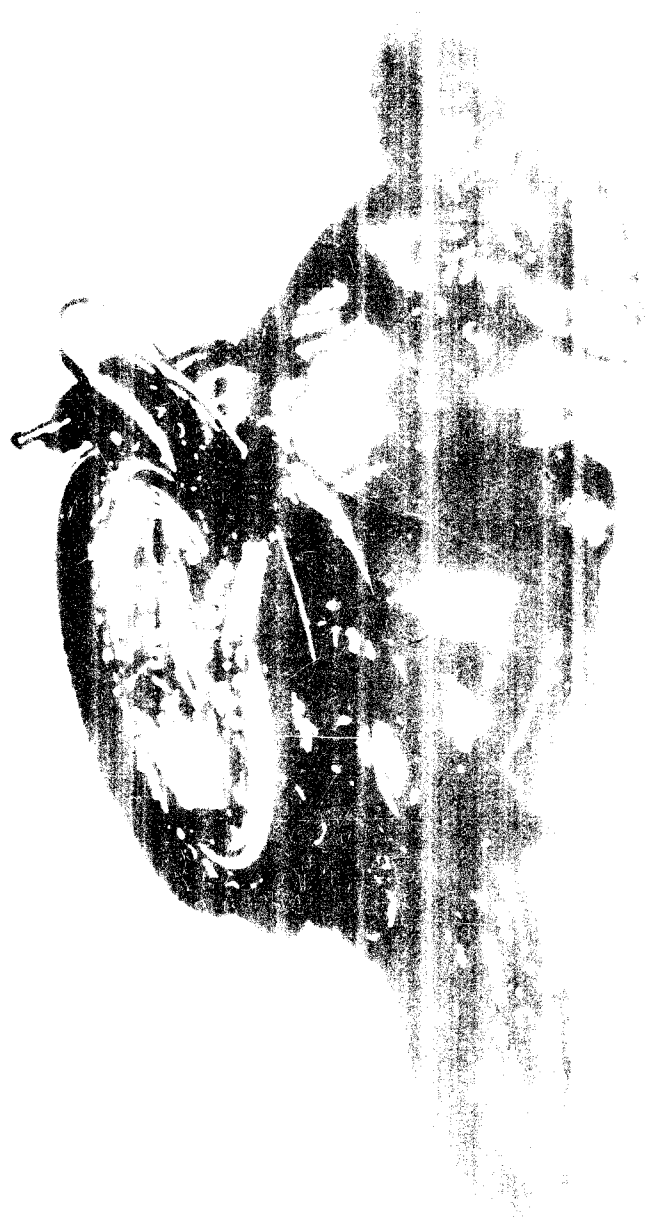
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MODEL: COTA 25

MODEL NUMBER: 101M

<u>ENGINE</u>		<u>WHEELS</u>	
2 CYCLE		FRONT RIM	16"
NUMB. CYLINDER	1	REAR RIM	15"
BORE-STROKE	38-43	TIRE SIZE FRONT	2"x 16"
DISPLACEMENT	48.7	REAR TIRE	2½x 15"
COMPRESSION RATIO	10.1	SPOKE DIMENSIONS	
<u>IGNITION</u>		FRONT (LEFT)	
POINT GAP	.016"	FRONT (RIGHT)	36) 3x150mm
IGN. TIMING	2-2.25mm(0.079-0.088)	REAR (LEFT)	
		REAR (RIGHT)	36) 3x158mm
		REAR (RIGHT)	
SPARK PLUG SIZE	14mm x ½	<u>SPECIFICATIONS</u>	
PLUG GAP	.016-.018"	DRY WEIGHT	110.21bs
RECOMMENDED PLUG	Champion L-81	FUEL CAPACITY	0.53 gal.
CARBURETOR TYPE	Dellorto Sha/14-14	WHEELBASE	37"
DIAMETER	14mm	SEAT HEIGHT	19"7
MAIN JET	62	OVERALL LENGTH	59"
LOW SPEED JET		<u>ENGINE LUBRICATION</u>	
GAS VALVE		FUEL OIL MIXTURE	40% SAE 40
SPRAYER	120/0.75	TRANSMISSION	
NEEDLE		CLUTCH PRIMARY	250cc SAE 40
PISTON-CYL. CLEAR.	0.0012"	SWING ARM	
CRANKSHAFT CLEAR.	0.0012"	FRONT SUSPENSION	1000 cc SAE 20
<u>TORQUE SPEC. (FT/LB)</u>			
CYLINDER NUT	5.7 ft. lbs.		
CYLINDER HEAD NUT	29 ft. lbs.		
CK/SHFT PINION NUT	29 ft. lbs.		
MAGNETO NUT			
CLUTCH NUT			
PRIMARY DRIVE	10 teeth		
CRANKSHAFT PINION	24 teeth		
CLUTCH GEAR	2.4:1		
PRIMARY RATIO	3		
GEARBOX SPEEDS	13 teeth		
COUTSHAFT SPROCKET	45 teeth		
REAR SPROCKET	½ x 205"		
CHAIN SIZE			
<u>GEAR BOX RATIOS</u>		Primy. Secy. Ratio	
1st	12	70	5.833
2nd	17	65	3.823
3rd	25	57	2.280
4th			
5th			
6th			

MODEL: 175 TEXAS

MODEL NUMBER: 12 M

<u>ENGINE</u>		<u>WHEELS</u>	
2 CYCLE	1	FRONT RIM	WM2-19
NUMB. CYLINDER	60.9-60	REAR RIM	WM3-18
BORE-STROKE	174.7cc	TIRE SIZE FRONT	275x19
DISPLACEMENT		REAR TIRE	350x18
COMPRESSION RATIO		SPOKE DIMENSIONS	
<u>IGNITION</u>	Mo 628M0539 20L-DE	FRONT (LEFT)	
POINT GAP		FRONT (RIGHT)	
IGN. TIMING	3mm (.118) BTDC (23° over flywheel)	REAR (LEFT)	
SPARK PLUG SIZE	14mm x ½	REAR (RIGHT)	
PLUG GAP		REAR (RIGHT)	
RECOMMENDED PLUG	Champion L-86	<u>SPECIFICATIONS</u>	
CARBURETOR TYPE	Amal 389-B/30	DRY WEIGHT	
DIAMETER	30mm	FUEL CAPACITY	
MAIN JET	200	WHEELBASE	
LOW SPEED JET	35	SEAT HEIGHT	
GAS VALVE	3.5	OVERALL LENGTH	
SPRAYER		<u>ENGINE LUBRICATION</u>	
NEEDLE	DA (Jet Holder 105A	FUEL OIL MIXTURE	5% SAE 40
PISTON-CYL. CLEAR.	.03mm (.0012")	TRANSMISSION	13½oz. SAE 90
CRANKSHAFT CLEAR.	.030 mm (.0012")	CLUTCH PRIMARY	10oz. SAE 10w 3
<u>TORQUE SPEC. (FT/LB)</u>		SWING ARM	
CYLINDER NUT		FRONT SUSPENSION	6½oz. SAE 20
CYLINDER HEAD NUT	14.5-18		
CK/SHFT PINION NUT	72.5		
MAGNETO NUT	72.5		
CLUTCH NUT	14.5-18		
PRIMARY DRIVE			
CRANKSHAFT PINION	20 teeth		
CLUTCH GEAR	53 teeth		
PRIMARY RATIO	2.65:1		
GEARBOX SPEEDS	4		
COUTSHAFT SPROCKET	12 teeth		
REAR SPROCKET	47 teeth		
CHAIN SIZE	½ x 5/16 (520)		
<u>GEAR BOX RATIOS</u>	Primy. Secy. Ratio		
1st	13 30 2.30		
2nd	18 25 1.38		
3rd	21 22 1.04		
4th	25 18 .72		
5th			
6th			

MODEL: COTA 74

MODEL NUMBER: 16 M

ENGINE

2 CYCLE
 NUMB. CYLINDER
 BORE-STROKE
 DISPLACEMENT
 COMPRESSION RATIO

1
 42-54
 74.8cc
 12:1

IGNITION

9600433

POINT GAP
 IGN. TIMING

0.4mm
 2mm (.078") BTDC
 (24° over flywheel)

SPARK PLUG SIZE
 PLUG GAP
 RECOMMENDED PLUG

14mm x 3/4
 .0157"
 Champion N-4

CARBURETOR TYPE
 DIAMETER
 MAIN JET
 LOW SPEED JET
 GAS VALVE
 SPRAYER
 NEEDLE

Amal L-620/404
 20mm
 100
 40
 3
 106A
 U-2

PISTON-CYL. CLEAR.
 CRANKSHAFT CLEAR.

.03mm (.0012")
 .03mm

TORQUE SPEC. (FT/LB)

CYLINDER NUT
 CYLINDER HEAD NUT
 CK/SHFT PINION NUT
 MAGNETO NUT
 CLUTCH NUT

14.5-18 ft.lbs.
 22-25.5 ft.lbs.
 72.5 ft.lbs.
 72.5 ft.lbs.
 14.5-18 ft.lbs.

PRIMARY DRIVE
 CRANKSHAFT PINION
 CLUTCH GEAR
 PRIMARY RATIO
 GEARBOX SPEEDS
 COUNTERSHAFT SPROCKET
 REAR SPROCKET
 CHAIN SIZE

19teeth
 65teeth
 3.421.1
 6
 11 teeth
 52 teeth
 1/2 x 0.305

GEAR BOX RATIOS

	Primy.	Secy.	Ratio
1st	13	34	2.615
2nd	15	32	2.133
3rd	18	29	1.611
4th	20	24	1.20
5th	25	22	0.88
6th	28	19	0.678

WHEELS

FRONT RIM
 REAR RIM
 TIRE SIZE FRONT
 REAR TIRE
 SPOKE DIMENSIONS
 FRONT (LEFT)
 FRONT (RIGHT)
 REAR (LEFT)
 REAR (RIGHT)
 REAR (RIGHT)

250x20
 375x17

 36)3x217
 36)3x160

SPECIFICATIONS

DRY WEIGHT
 FUEL CAPACITY
 WHEELBASE
 SEAT HEIGHT
 OVERALL LENGTH

160 lbs.
 1.97 gal.
 49.5"
 28.3"
 73.6"

ENGINE LUBRICATION

FUEL OIL MIXTURE

4% SAE 40

TRANSMISSION
 CLUTCH PRIMARY
 SWING ARM
 FRONT SUSPENSION

combined
 20 1/2 oz SAE 10w 30
 5oz. SAE 20

MODEL: COTA 172

MODEL NUMBER: 19 M

ENGINE

2 CYCLE
NUMB. CYLINDER
BORE-STROKE
DISPLACEMENT
COMPRESSION RATIO

1
60.93mm-54
157.5cc
11.5:1

IGNITION

Motoplat 9000433

POINT GAP
IGN. TIMING

0.0157"
3mm (.118") BTDC
(24° over flywheel)

SPARK PLUG SIZE
PLUG GAP
RECOMMENDED PLUG

14mm x 3/4"
.0157"
Champion N-4

CARBURETOR TYPE
DIAMETER
MAIN JET
LOW SPEED JET
GAS VALVE
SPRAYER
NEEDLE

Amal L620/403
20mm
100
30
2.5
106
U

PISTON-CYL. CLEAR.
CRANKSHAFT CLEAR.

0.03mm (.0012")

TORQUE SPEC. (FT/LB)

CYLINDER NUT
CYLINDER HEAD NUT
CK/SHFT PINION NUT
MAGNETO NUT
CLUTCH NUT

14.5-18
22-25.5
58
61.5
14.5-18

PRIMARY DRIVE
CRANKSHAFT PINION
CLUTCH GEAR
PRIMARY RATIO
GEARBOX SPEEDS
COUTSHAFT SPROCKET
REAR SPROCKET
CHAIN SIZE

19 T
65 T
3.421
6
11 teeth
52 teeth
½ x 5/16

GEAR BOX RATIOS

1st
2nd
3rd
4th
5th
6th

Primy.	Secy.	Ratio
13	34	2.615
15	32	2.133
18	29	1.611
20	24	1.20
25	22	.88
28	19	.678

WHEELS

FRONT RIM
REAR RIM
TIRE SIZE FRONT
REAR TIRE
SPOKE DIMENSIONS
FRONT (LEFT)
FRONT (RIGHT)
REAR (LEFT)
REAR (RIGHT)
REAR (RIGHT)

WM1-21
WM2-18
275x21
400x18

36)3.5x231
36)3.5x194

SPECIFICATIONS

DRY WEIGHT
FUEL CAPACITY
WHEELBASE
SEAT HEIGHT
OVERALL LENGTH

172 lbs.
1.2 gal.
49.6"
30.3"
76.3"

ENGINE LUBRICATION

FUEL OIL MIXTURE

5% SAE 40

TRANSMISSION
CLUTCH PRIMARY
SWING ARM
FRONT SUSPENSION

Combined
30.5oz. SAE 10w 30
4.4oz. SAE 20

MODEL: COTA 247

MODEL NUMBER: 21 M

ENGINE		WHEELS	
2 CYCLE		FRONT RIM	WM1-21
NUMB. CYLINDER	1	REAR RIM	WM2-18
BORE-STROKE	72.5-60	TIRE SIZE FRONT	275x21
DISPLACEMENT	247.7cc	REAR TIRE	400x18
COMPRESSION RATIO	Ratio 10:1	SPOKE DIMENSIONS	
IGNITION	Motoplat 9600450	FRONT (LEFT)	36)3.5x231
POINT GAP	0.4"	FRONT (RIGHT)	
IGN. TIMING	2.5mm (.098") BTDC	REAR (LEFT)	
	21° over flywheel)	REAR (RIGHT)	36)3.5x194
SPARK PLUG SIZE	14mm x ½		
PLUG GAP	.0157"	SPECIFICATIONS	
RECOMMENDED PLUG	Champion L-85	DRY WEIGHT	200 lbs.
CARBURETOR TYPE	Amal L627/427	FUEL CAPACITY	1.5 gal.
DIAMETER	27mm	WHEELBASE	51.5"
MAIN JET	150	SEAT HEIGHT	31.2"
LOW SPEED JET	35	OVERALL LENGTH	79.5"
GAS VALVE	3	ENGINE LUBRICATION	
SPRAYER		FUEL OIL MIXTURE	4% SAE 40
NEEDLE	U-2	TRANSMISSION	10oz. SAE 90
PISTON-CYL. CLEAR.	.03mm (.0012")	CLUTCH PRIMARY	6 3/4oz. SAE 10w 30
CRANKSHAFT CLEAR.	.03mm (.0012")	SWING ARM	SAE 40
TORQUE SPEC. (FT/LB)		FRONT SUSPENSION	6½oz. Hidrol 7SAE20
CYLINDER NUT	14.5-18		
CYLINDER HEAD NUT	22-25.5		
CK/SHFT PINION NUT	58		
MAGNETO NUT	65.25		
CLUTCH NUT	14.5-18		
PRIMARY DRIVE			
CRANKSHAFT PINION	20 t		
CLUTCH GEAR	64 t		
PRIMARY RATIO	3.2		
GEARBOX SPEEDS	5		
CRANKSHAFT SPROCKET	10 teeth		
REAR SPROCKET	40 teeth		
CHAIN SIZE	5/8 x ¼ (520)		
GEAR BOX RATIOS	Primy. Secy. Ratio		
1st	10 26 2.600		
2nd	12 25 2.083		
3rd	14 23 1.642		
4th	17 20 1.176		
5th	21 15 .714		
6th			

MODEL: LA CROSS 250

MODEL NUMBER: 23M

ENGINE 2 CYCLE NUMB. CYLINDER BORE-STROKE DISPLACEMENT COMPRESSION RATIO	1 72.5-60 247.69cc 10.5:1	WHEELS FRONT RIM REAR RIM TIRE SIZE FRONT REAR TIRE SPOKE DIMENSIONS FRONT (LEFT) FRONT (RIGHT) REAR (LEFT) REAR (RIGHT) REAR (RIGHT)	WM2-19 WM3-18 350x19 400x18 36)4x164 36)4x154
IGNITION POINT GAP IGN. TIMING SPARK PLUG SIZE PLUG GAP RECOMMENDED PLUG	6mm (.236") BTDC 14mm x ½ .4mm Champion L-58R	SPECIFICATIONS DRY WEIGHT FUEL CAPACITY WHEELBASE SEAT HEIGHT OVERALL LENGTH	211 lbs. 1.9 gal. 53" 31.5" 79"
CARBURETOR TYPE DIAMETER MAIN JET LOW SPEED JET GAS VALVE SPRAYER NEEDLE	Amal 389-B/30 Mc 30mm 260-290 35 3.5 DA (Jet Holder 105A)	ENGINE LUBRICATION FUEL OIL MIXTURE TRANSMISSION CLUTCH PRIMARY SWING ARM FRONT SUSPENSION	5% SAE 40 13½oz. SAE 90 10oz. SAE 20 7¼oz. SAE 20
PISTON-CYL. CLEAR. CRANKSHAFT CLEAR. TORQUE SPEC. (FT/LB)	.10mm (.0039") .03mm (.0012")		
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT	11-15		
PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR PRIMARY RATIO GEARBOX SPEEDS COUTSHAFT SPROCKET REAR SPROCKET CHAIN SIZE	4 11 teeth 40 teeth 5/8 x ¼ (520)		
GEAR BOX RATIOS 1st 2nd 3rd 4th 5th 6th	Primy. Secy. Ratio 14 29 2.07 18 25 1.38 20 23 1.15 22 21 .95		

MODEL: SCORPION 250

MODEL NUMBER: 24 M

ENGINE

2 CYCLE
 NUMB. CYLINDER
 BORE-STROKE
 DISPLACEMENT
 COMPRESSION RATIO

1
 72.5-60
 247.69cc
 10.5:1

IGNITION

POINT GAP
 IGN. TIMING
 SPARK PLUG SIZE
 PLUG GAP
 RECOMMENDED PLUG

.015"
 4mm (.157") BTDC
 (27° over flywheel)
 14 mm x ½
 .4mm
 Champion L-5

CARBURETOR TYPE
 DIAMETER
 MAIN JET
 LOW SPEED JET
 GAS VALVE
 SPRAYER
 NEEDLE

Amal 389-B/30 ME
 30mm
 230
 45
 3.5

PISTON-CYL. CLEAR.
 CRANKSHAFT CLEAR.

.085mm (.00335")
 .03mm (.0012")

TORQUE SPEC. (FT/LB)

CYLINDER NUT
 CYLINDER HEAD NUT
 CK/SHFT PINION NUT
 MAGNETO NUT
 CLUTCH NUT

11-15

PRIMARY DRIVE
 CRANKSHAFT PINION
 CLUTCH GEAR
 PRIMARY RATIO
 GEARBOX SPEEDS
 COUNTERSHAFT SPROCKET
 REAR SPROCKET
 CHAIN SIZE

4
 12 teeth
 42 teeth
 ½ x 5/16 (520)

GEAR BOX RATIOS

1st
 2nd
 3rd
 4th
 5th
 h

	Primy.	Secy.	Ratio
1st	13	30	2.30
2nd	18	25	1.38
3rd	21	22	1.04
4th	24	19	.79

WHEELS

FRONT RIM
 REAR RIM
 TIRE SIZE FRONT
 REAR TIRE
 SPOKE DIMENSIONS
 FRONT (LEFT)
 FRONT (RIGHT)
 REAR (LEFT)
 REAR (RIGHT)
 REAR (RIGHT)

WM1-21
 WM3-18
 300x21
 400x18

SPECIFICATIONS

DRY WEIGHT
 FUEL CAPACITY
 WHEELBASE
 SEAT HEIGHT
 OVERALL LENGTH

218 lbs.
 2.38 gal.
 50"
 31.5
 78"

ENGINE LUBRICATION

FUEL OIL MIXTURE

5% SAE 40

TRANSMISSION
 CLUTCH PRIMARY
 SWING ARM
 FRONT SUSPENSION

13½oz. SAE 90
 10oz. SAE 20
 5 3/4oz. SAE 20

MODEL: IMPALA CROSS 250

MODEL NUMBER: 25 M

<u>ENGINE</u>		<u>WHEELS</u>	
2 CYCLE		FRONT RIM	WM2-19
NUMB. CYLINDER	1	REAR RIM	WM3-18
BORE-STROKE	72.5-60	TIRE SIZE FRONT	300x19
DISPLACEMENT	247.69cc	REAR TIRE	400x18
COMPRESSION RATIO	12:1	SPOKE DIMENSIONS	
<u>IGNITION</u>		FRONT (LEFT)	36)4x164
POINT GAP	.3-.35 (.012-.014.1)	FRONT (RIGHT)	
IGN. TIMING	5.5-7mm(.216-.275) (320-350° over fywhl)	REAR (LEFT)	36)4x153
SPARK PLUG SIZE	14mm	REAR (RIGHT)	
PLUG GAP	.4mm	REAR (RIGHT)	
RECOMMENDED PLUG	Champion L-58R	<u>SPECIFICATIONS</u>	
CARBURETOR TYPE	Amal 389	DRY WEIGHT	198 lbs.
DIAMETER	30mm	FUEL CAPACITY	1.9 gal.
MAIN JET	310	WHEELBASE	51.5"
LOW SPEED JET	20	SEAT HEIGHT	31.5"
GAS VALVE	3.5	OVERALL LENGTH	79"
SPRAYER	7	<u>ENGINE LUBRICATION</u>	
NEEDLE	D	FUEL OIL MIXTURE	5% SAE 40
PISTON-CYL. CLEAR.	.023mm	TRANSMISSION	400cc SAE 90
CRANKSHAFT CLEAR.	.010mm	CLUTCH PRIMARY	10oz. SAE 20
<u>TORQUE SPEC. (FT/LB)</u>		SWING ARM	
CYLINDER NUT	18	FRONT SUSPENSION	125cc SAE 20
CYLINDER HEAD NUT	15		
CK/SHFT PINION NUT			
MAGNETO NUT			
CLUTCH NUT			
PRIMARY DRIVE			
CRANKSHAFT PINION	23 teeth		
CLUTCH GEAR	61 teeth		
PRIMARY RATIO	2.652 to 1		
GEARBOX SPEEDS	4		
COUTSHAFT SPROCKET	11 teeth		
REAR SPROCKET	52 teeth		
CHAIN SIZE	5/8 x 1/4 (520)		
<u>GEAR BOX RATIOS</u>			
1st	15	28	.53
2nd	18	25	.72
3rd	20	23	.87
4th	22	21	1.05
5th			
6th			

MODEL: IMPALA SPORT 250

MODEL NUMBER: 25 M

<u>ENGINE</u> 2 CYCLE NUMB. CYLINDER BORE-STROKE DISPLACEMENT COMPRESSION RATIO	1 72.5-60 247.69cc 10.5:1	<u>WHEELS</u> FRONT RIM REAR RIM TIRE SIZE FRONT REAR TIRE SPOKE DIMENSIONS FRONT (LEFT) FRONT (RIGHT) REAR (LEFT) REAR (RIGHT) REAR (RIGHT)	WM2-19 WM2-19 325x19 300x19 36)3.5x168 36)3.5x168
<u>IGNITION</u> POINT GAP IGN. TIMING SPARK PLUG SIZE PLUG GAP RECOMMENDED PLUG CARBURETOR TYPE DIAMETER MAIN JET LOW SPEED JET GAS VALVE SPRAYER NEEDLE	.012" 4mm (.157") BTDC 27° over flywheel) 14mm x ½ 4mm Champion L-5 Amal 389-B/30 MSE 30mm 230 37 3.5 105-A DA-7	<u>SPECIFICATIONS</u> DRY WEIGHT FUEL CAPACITY WHEELBASE SEAT HEIGHT OVERALL LENGTH <u>ENGINE LUBRICATION</u> FUEL OIL MIXTURE	231 lbs. 3.4 gal. 50.4" 31.5" 76.4" 5% SAE 40
PISTON-CYL. CLEAR. CRANKSHAFT CLEAR. <u>TORQUE SPEC. (FT/LB)</u>	.085mm (.0033") .010mm (.0004")	TRANSMISSION CLUTCH PRIMARY SWING ARM FRONT SUSPENSION	13.6oz.SAE 90 10.8oz.SAE 20 6.oz. SAE 20
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR PRIMARY RATIO GEARBOX SPEEDS COUTSHAFT SPROCKET REAR SPROCKET CHAIN SIZE	20 teeth 53 teeth 2.65:1 4 16 teeth 44 teeth ½ x 5/16		
<u>GEAR BOX RATIOS</u> 1st 2nd 3rd 4th 5th 6th	Priy. Secy. Ratio 14 29 .48 18 25 .72 21 22 .95 23 20 1.15		

MODEL; COTA 123

MODEL NUMBER: 28M

<u>ENGINE</u>		<u>WHEELS</u>	
2 CYCLE		FRONT RIM	WM1-20
NUMB. CYLINDER	1	REAR RIM	WM1-17
BORE-STROKE	54-54	TIRE SIZE FRONT	250-20
DISPLACEMENT	123.7cc	REAR TIRE	375-17
COMPRESSION RATIO	12:1	SPOKE DIMENSIONS	
		FRONT (LEFT)	36)3x217
<u>IGNITION</u>	Motoplat 9600413	FRONT (RIGHT)	
POINT GAP	.0157"	REAR (LEFT)	36)3x160
IGN. TIMING	3mm (.118") BTDC (24°-30° over flywh.	REAR (RIGHT)	
SPARK PLUG SIZE	14mm x 3/4		
PLUG GAP	.0157"	<u>SPECIFICATIONS</u>	
RECOMMENDED PLUG	Champion N-4	DRY WEIGHT	156.5lbs.
		FUEL CAPACITY	1.2 gal.
CARBURETOR TYPE	Amal 625	WHEELBASE	49.5"
DIAMETER	25mm	SEAT HEIGHT	30.3"
MAIN JET	120	OVERALL LENGTH	73.6"
LOW SPEED JET	30		
GAS VALVE	2.5	<u>ENGINE LUBRICATION</u>	
SPRAYER	106	FUEL OIL MIXTURE	4% SAE 40
NEEDLE	U		
PISTON-CYL. CLEAR.	.045mm (.001772")	TRANSMISSION	combined
CRANKSHAFT CLEAR.	.03mm	CLUTCH PRIMARY	20½oz. SAE 10w 7
		SWING ARM	
<u>TORQUE SPEC. (FT/LB)</u>		FRONT SUSPENSION	5oz. SAE 20
CYLINDER NUT	14.5-18		
CYLINDER HEAD NUT	22-25		
CK/SHFT PINION NUT	72.5		
MAGNETO NUT	72.5		
CLUTCH NUT	14.5-18		
PRIMARY DRIVE			
CRANKSHAFT PINION	19 teeth		
CLUTCH GEAR	65 teeth		
PRIMARY RATIO	3.421		
GEARBOX SPEEDS	6		
COUTSHAFT SPROCKET	12 teeth		
REAR SPROCKET	52 teeth		
CHAIN SIZE	½ x 5/16 (428)		
<u>GEAR BOX RATIOS</u>			
1st	Primy. 13 Secy. 34 Ratio 2.615		
2nd	15 32 2.133		
3rd	18 29 1.611		
4th	20 24 1.20		
5th	25 22 .88		
6th	28 19 .678		

MODEL: CAPPRA 250

MODEL NUMBER: 33 M

<u>ENGINE</u>		<u>WHEELS</u>	
2 CYCLE NUMB. CYLINDER BORE-STROKE DISPLACEMENT COMPRESSION RATIO	1 72.5-60 247.6 cc 13:1	FRONT RIM REAR RIM TIRE SIZE FRONT REAR TIRE SPOKE DIMENSIONS	WM2-21 WM3-18 300x21 400x18
<u>IGNITION</u>	Motoplat MCR-137.20	FRONT (LEFT)	36)4x190
POINT GAP IGN. TIMING	.015" 4mm (.157") BTDC (27° over flywheel)	FRONT (RIGHT) REAR (LEFT) REAR (RIGHT) REAR (RIGHT)	36)4x153
SPARK PLUG SIZE PLUG GAP RECOMMENDED PLUG	14mm x 1/2 .12-.13 Champion L-58R	<u>SPECIFICATIONS</u>	
CARBURETOR TYPE DIAMETER MAIN JET LOW SPEED JET GAS VALVE SPRAYER NEEDLE	Amal 389-8/32MC 32mm 280 40 3.5 106-A DA-3	DRY WEIGHT FUEL CAPACITY WHEELBASE SEAT HEIGHT OVERALL LENGTH	211 lbs. 1.9 gal. 52.7" 33.4" 78.7"
PISTON-CYL. CLEAR. CRANKSHAFT CLEAR.	.10mm (.0039") .010mm(.0004")	<u>ENGINE LUBRICATION</u>	
<u>TORQUE SPEC. (FT/LB)</u>		FUEL OIL MIXTURE	5% SAE 40
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT	15-18 22-25 58 58 15-18	TRANSMISSION CLUTCH PRIMARY SWING ARM FRONT SUSPENSION	13.6oz. SAE 90 10.8oz. SAE 20 6.oz. SAE 20
PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR PRIMARY RATIO GEARBOX SPEEDS COUTSHAFT SPROCKET REAR SPROCKET CHAIN SIZE	23 teeth 61 teeth 2.652:1 4 11 teeth 50 teeth 5/8 x 1/4 (520)		
<u>GEAR BOX RATIOS</u>	Priy. Secy. Ratio		
1st 2nd 3rd 4th 5th 6th	13 23 .56.1 15 22 .68.1 17 20 .85.1 19 18 1.05.1		

MODEL: KING SCORPION

MODEL NUMBER: 34M

<u>ENGINE</u>		<u>WHEELS</u>	
2 CYCLE	1	FRONT RIM	WM2-21
NUMB. CYLINDER	72.5-60	REAR RIM	WM3-18
BORE-STROKE	247.69cc	TIRE SIZE FRONT	300x21
DISPLACEMENT	10:1	REAR TIRE	400x18
COMPRESSION RATIO		SPOKE DIMENSIONS	
		FRONT (LEFT)	
		FRONT (RIGHT)	
		REAR (LEFT)	
		REAR (RIGHT)	
		REAR (RIGHT)	
<u>IGNITION</u>	Motoplat 9600532	<u>SPECIFICATIONS</u>	
POINT GAP		DRY WEIGHT	238 lbs.
IGN. TIMING	3mm (.118") BTDC (23° over flywheel)	FUEL CAPACITY	2.9 gal.
SPARK PLUG SIZE	14mm x ½	WHEELBASE	54.5"
PLUG GAP		SEAT HEIGHT	31.5"
RECOMMENDED PLUG	Champion L-5	OVERALL LENGTH	
	NGK B-7H	<u>ENGINE LUBRICATION</u>	
	Amal 627	FUEL OIL MIXTURE	4% SAE 40
CARBURETOR TYPE	27mm	TRANSMISSION	13oz. SAE 90
DIAMETER	160-170	CLUTCH PRIMARY	11oz. SAE 20
MAIN JET	40-45	SWING ARM	
LOW SPEED JET	25	FRONT SUSPENSION	6 1/3oz. SAE10,20, 30,
GAS VALVE			
SPRAYER	U (Jet Holder 106)		
NEEDLE			
PISTON-CYL. CLEAR.	.035mm (.00138")		
CRANKSHAFT CLEAR.	.030mm (.0012")		
<u>TORQUE SPEC. (FT/LB)</u>			
CYLINDER NUT	14.5-18		
CYLINDER HEAD NUT	22-25.5		
CK/SHFT PINION NUT	72.5		
MAGNETO NUT	72.5		
CLUTCH NUT	14.5-18		
PRIMARY DRIVE	20 teeth		
CRANKSHAFT PINION	53 teeth		
CLUTCH GEAR	265:1		
PRIMARY RATIO	5		
GEARBOX SPEEDS	12 teeth		
COUTSHAFT SPROCKET	44 teeth		
REAR SPROCKET	5/8 x ¼ (520)		
CHAIN SIZE			
<u>GEAR BOX RATIOS</u>	Primy. Secy. Ratio		
1st	11 25 2.272		
2nd	14 22 1.571		
3rd	17 20 1.176		
4th	19 17 .084		
5th	21 15 .714		
6th			

MODEL: CAPPRA 125 VA

MODEL NUMBER: 38 M

ENGINE		WHEELS	
2 CYCLE		FRONT RIM	WM1-21
NUMB. CYLINDER	1	REAR RIM	WM3-12
BORE-STROKE	54-54	TIRE SIZE FRONT	300x21
DISPLACEMENT	123.7cc	REAR TIRE	400x18
COMPRESSION RATIO	16:1	SPOKE DIMENSIONS	
IGNITION	Motoplat 9600915-1	FRONT (LEFT)	18) 3.5x224
POINT GAP		FRONT (RIGHT)	18) 3.5x238
IGN. TIMING	2mm (.078") BTDC (20° over flywheel)	REAR (LEFT)	18) 4x208
SPARK PLUG SIZE	14mm x 1/2	REAR (RIGHT)	9) 4x182
PLUG GAP		REAR (RIGHT)	9) 4x186
RECOMMENDED PLUG	Champion N-57R	SPECIFICATIONS	
CARBURETOR TYPE	NGK P-10NP	DRY WEIGHT	106 lbs.
DIAMETER	Bing 1100G-8 (54)	FUEL CAPACITY	1.7 gal.
MAIN JET	32mm	WHEELBASE	33"
LOW SPEED JET	150	SEAT HEIGHT	35.4
GAS VALVE	40-80	OVERALL LENGTH	33"
SPRAYER	0	ENGINE LUBRICATION	
NEEDLE	6.5 x 1.5	FUEL OIL MIXTURE	4 1/2 SAE 40
PISTON-CYL. CLEAR.	.058mm (.0022")	TRANSMISSION	combined
CRANKSHAFT CLEAR.	.03mm (.0012")	CLUTCH PRIMARY	30.5oz. SAE 10w 30
TORQUE SPEC. (FT/LB)		SWING ARM	SAE 40 as needed
		FRONT SUSPENSION	7.4oz. Hidrol 10
CYLINDER NUT	14.5-18		
CYLINDER HEAD NUT	22-25.5		
CK/SHFT PINION NUT	58		
MAGNETO NUT	51		
CLUTCH NUT	14.5-18		
PRIMARY DRIVE			
CRANKSHAFT PINION	19 teeth		
CLUTCH GEAR	65 teeth		
PRIMARY RATIO	3.421		
GEARBOX SPEEDS	6		
COUTSHAFT SPROCKET	11 teeth		
REAR SPROCKET	56 teeth		
CHAIN SIZE	5/8 x 1/4 (520)		
GEAR BOX RATIOS	Primy. Secy. Ratio		
1st	14 31 2.215		
2nd	17 30 1.764		
3rd	19 27 1.421		
4th	21 24 1.142		
5th	23 22 .956		
6th	26 21 .807		

MODEL: 125 YB

MODEL NUMBER: 38M

<u>ENGINE</u>		<u>WHEELS</u>	
2 CYCLE	1	FRONT RIM	WM1-21
NUMB. CYLINDER	54-54	REAR RIM	WM3-18
BORE-STROKE	123.2cc	TIRE SIZE FRONT	300x18
DISPLACEMENT	17:5.1	REAR TIRE	400x18
COMPRESSION RATIO		SPOKE DIMENSIONS	
<u>IGNITION</u>	Motoplat 9600915-1	FRONT (LEFT)	18) 3.5x221
POINT GAP	2mm (.078") BTDC	FRONT (RIGHT)	18) 3.5x234
IGN. TIMING	(20° over flywheel)	REAR (LEFT)	18) 4x208
SPARK PLUG SIZE	14mm x ½	REAR (RIGHT)	9) 4x192
PLUG GAP	.02"	REAR (RIGHT)	9) 4x185
RECOMMENDED PLUG	Champ N-54R	<u>SPECIFICATIONS</u>	
	NGK B-10NP	DRY WEIGHT	196lbs.
CARBURETOR TYPE	Bing 11623/0	FUEL CAPACITY	1.7 gal.
DIAMETER	36mm	WHEELBASE	55.1 "
MAIN JET	155	SEAT HEIGHT	35.4"
LOW SPEED JET	40-80	OVERALL LENGTH	82.7"
GAS VALVE	0	<u>ENGINE LUBRICATION</u>	
SPRAYER	6.5 x 1.5	FUEL OIL MIXTURE	4% SAE 40
NEEDLE	#3	TRANSMISSION	30.5oz. SAE 10w 30
PISTON-CYL. CLEAR.	.058mm (.0022")	CLUTCH PRIMARY	SAE 40 as needed
CRANKSHAFT CLEAR.	.03mm (.0012")	SWING ARM	8.3oz. Hidrallex 4
<u>TORQUE SPEC. (FT/LB)</u>		FRONT SUSPENSION	
CYLINDER NUT	14.5-18		
CYLINDER HEAD NUT	22-25.5		
CK/SHFT PINION NUT	57.7		
MAGNETO NUT	50.7		
CLUTCH NUT	14.5-18		
PRIMARY DRIVE	19 teeth		
CRANKSHAFT PINION	65 teeth		
CLUTCH GEAR	3.421		
PRIMARY RATIO	6		
GEARBOX SPEEDS	12 teeth		
COUTSHAFT SPROCKET	56 teeth		
REAR SPROCKET	5/8 x ¼ (520)		
CHAIN SIZE			
<u>GEAR BOX RATIOS</u>	Primy. Secy. Ratio		
1st	14 31 2.215		
2nd	17 30 1.764		
3rd	19 27 1.421		
4th	21 24 1.142		
5th	23 22 .956		
6th	26 21 .807		

MODEL: CAPRA 250

MODEL NUMBER: 43M

<u>ENGINE</u>		<u>WHEELS</u>	
2 CYCLE		FRONT RIM	WM2-21
NUMB. CYLINDER	1	REAR RIM	WM3-18
BORE-STROKE	72.5-60	TIRE SIZE FRONT	300x21
DISPLACEMENT	247.69cc	REAR TIRE	400x18
COMPRESSION RATIO	13:1	SPOKE DIMENSIONS	
<u>IGNITION</u>	Motoplat 9600204	FRONT (LEFT)	
POINT GAP		FRONT (RIGHT)	36)4x192
IGN. TIMING	4mm (.157") BTDC (23.5° over flywheel)	REAR (LEFT)	
SPARK PLUG SIZE	14mm x ½	REAR (RIGHT)	36)4x156
PLUG GAP		REAR (RIGHT)	
RECOMMENDED PLUG	Champion L-57R	<u>SPECIFICATIONS</u>	
CARBURETOR TYPE	Amal 389-B/32 MC	DRY WEIGHT	
DIAMETER	32	FUEL CAPACITY	
MAIN JET	290	WHEELBASE	
LOW SPEED JET	45	SEAT HEIGHT	
GAS VALVE	3.5	OVERALL LENGTH	
SPRAYER		<u>ENGINE LUBRICATION</u>	
NEEDLE	DA (Jet Holder 106A	FUEL OIL MIXTURE	4% SAE 40
PISTON-CYL. CLEAR.	.0039"	TRANSMISSION	11oz. SAE 40
CRANKSHAFT CLEAR.	.0004	CLUTCH PRIMARY	10oz. SAE 30
TORQUE SPEC. (FT/LB)		SWING ARM	
CYLINDER NUT	11-15	FRONT SUSPENSION	6½oz. SAE 20
CYLINDER HEAD NUT	21-25		
CK/SHFT PINION NUT	72		
MAGNETO NUT	72		
CLUTCH NUT	15-18		
PRIMARY DRIVE			
CRANKSHAFT PINION	23 teeth		
CLUTCH GEAR	61 teeth		
PRIMARY RATIO	2.65:1		
GEARBOX SPEEDS	5		
COUTSHAFT SPROCKET	12 teeth		
REAR SPROCKET	52 teeth		
CHAIN SIZE	5/8 x ¼ (520)		
<u>GEAR BOX RATIOS</u>	Primy. Secy. Ratio		
1st	12 24 2		
2nd	15 22 1.46		
3rd	17 20 1.17		
4th	19 18 .94		
5th	20 17 .85		
6th			

MODEL: KING SCORPION AUTOMIX

MODEL NUMBER: 44M

<u>ENGINE</u>		<u>WHEELS</u>	
2 CYCLE	1	FRONT RIM	WM1-21
NUMB. CYLINDER	70-64	REAR RIM	WM2-18
BORE-STROKE	246.3cc	TIRE SIZE FRONT	275/300x21
DISPLACEMENT	10:1	REAR TIRE	400x18
COMPRESSION RATIO		SPOKE DIMENSIONS	
<u>IGNITION</u>	Motoplat 9600590	FRONT (LEFT)	18) 3.5x224
POINT GAP	3mm (.118") BTDC	FRONT (RIGHT)	18) 3.5x238
IGN. TIMING	(22° over flywheel)	REAR (LEFT)	18) 4x224
SPARK PLUG SIZE	14mm x 3	REAR (RIGHT)	9) 4x206
PLUG GAP	.020"	REAR (RIGHT)	9) 4x200
RECOMMENDED PLUG	Champion N-3	<u>SPECIFICATIONS</u>	
	NGK B-7E	DRY WEIGHT	242 lbs.
CARBURETOR TYPE	Bing 11500-32	FUEL CAPACITY	2.5 gal.
DIAMETER	32mm	WHEELBASE	56"
MAIN JET	148	SEAT HEIGHT	36"
LOW SPEED JET	40	OVERALL LENGTH	84"
GAS VALVE	4	<u>ENGINE LUBRICATION</u>	
SPRAYER	6.5 x 1.5	FUEL OIL MIXTURE	Automix SAE 40
NEEDLE			
PISTON-CYL. CLEAR.	.06mm (.0024")	TRANSMISSION	11oz. SAE 90
CRANKSHAFT CLEAR.	.03mm (.0012")	CLUTCH PRIMARY	10oz. SAE 10w 30
		SWING ARM	SAE 40 as needed
<u>TORQUE SPEC. (FT/LB)</u>		FRONT SUSPENSION	6 3/4oz. SAE 30
CYLINDER NUT	14.5-18		
CYLINDER HEAD NUT	25.5-29		
CK/SHFT PINION NUT	72.5		
MAGNETO NUT	72.5		
CLUTCH NUT	14.5-18		
PRIMARY DRIVE	20 teeth		
CRANKSHAFT PINION	53 teeth		
CLUTCH GEAR	2.650		
PRIMARY RATIO	5		
GEARBOX SPEEDS	12 teeth		
COUTSHAFT SPROCKET	48 teeth		
REAR SPROCKET	5/8 x 1/4 (520)		
CHAIN SIZE			
<u>GEAR BOX RATIOS</u>	Primy. Secy. Ratio		
1st	10 26 2.600		
2nd	13 21 1.615		
3rd	17 19 1.117		
4th	18 15 .833		
5th	22 15 .681		
6th			

MODEL: Rapita 250

MODEL NUMBER: 45M

<u>ENGINE</u>		<u>WHEELS</u>	
2 CYCLE NUMB. CYLINDER BORE-STROKE DISPLACEMENT COMPRESSION RATIO	1 70-64 246.3cc 12:1	FRONT RIM REAR RIM TIRE SIZE FRONT REAR TIRE SPOKE DIMENSIONS	WM2-19 WM3-18 325x19 400x18
<u>IGNITION</u>	Motoplat 9600590	FRONT (LEFT) FRONT (RIGHT) REAR (LEFT) REAR (RIGHT) REAR (RIGHT)	18) 3.5x224 18) 3.5x238 18) 4x224 9) 4x206 9) 4x200
POINT GAP IGN. TIMING	3mm (.118") BTDC (22° over flywheel)	<u>SPECIFICATIONS</u>	
SPARK PLUG SIZE PLUG GAP RECOMMENDED PLUG	14mm x 3/4 0.5mm (.02") Champion N-3 NGK B-7E	DRY WEIGHT FUEL CAPACITY WHEELBASE SEAT HEIGHT OVERALL LENGTH	242 lbs. 2.5 gal. 56" 36" 84"
CARBURETOR TYPE DIAMETER MAIN JET LOW SPEED JET GAS VALVE SPRAYER NEEDLE	Bing 11500 32mm 148 40 4 6.5 x 1.5	<u>ENGINE LUBRICATION</u>	
PISTON-CYL. CLEAR. CRANKSHAFT CLEAR.	.06mm (.0024") .03mm (.0012")	FUEL OIL MIXTURE	Automix SAE 40
<u>TORQUE SPEC. (FT/LB)</u>		TRANSMISSION CLUTCH PRIMARY SWING ARM FRONT SUSPENSION	11oz. SAE 90 10oz. SAE 10w 30 SAE 40 as needed 6 3/4oz. SAE 30
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT	14.5-18 255-29 72.5 72.5 14.5-18		
PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR PRIMARY RATIO GEARBOX SPEEDS COUTSHAFT SPROCKET REAR SPROCKET CHAIN SIZE	20 teeth 53 teeth 2.650 5 13 teeth 48 teeth 5/8 x 1/4		
<u>GEAR BOX RATIOS</u>	Primy. Secy. Ratio		
1st 2nd 3rd 4th 5th 6th	10 26 2.600 13 21 1.615 17 19 1.117 18 15 .833 22 15 0.681		

MODEL: CAPPRA 360 CP

MODEL NUMBER: 46M

<u>ENGINE</u>		<u>WHEELS</u>	
2 CYCLE		FRONT RIM	WM2-19
NUMB. CYLINDER	1	REAR RIM	WM3-18
BORE-STROKE	78-73.5	TIRE SIZE FRONT	350x19
DISPLACEMENT	351.2cc	REAR TIRE	400x18
COMPRESSION RATIO	11:1	SPOKE DIMENSIONS	
<u>IGNITION</u>	Motoplat 9600204	FRONT (LEFT)	
POINT GAP	.015"	FRONT (RIGHT)	36)4x192
IGN. TIMING	4mm (.157") BTDC (23.50 over flywheel)	REAR (LEFT)	
SPARK PLUG SIZE	14mm x 3/4	REAR (RIGHT)	36)4x156
PLUG GAP		REAR (RIGHT)	
RECOMMENDED PLUG	Champion N-57R	<u>SPECIFICATIONS</u>	
CARBURETOR TYPE	Amal 389-B/32MC	DRY WEIGHT	231 lbs.
DIAMETER	32mm	FUEL CAPACITY	3.5 gal.
MAIN JET	280-300	WHEELBASE	55"
LOW SPEED JET	45	SEAT HEIGHT	31"
GAS VALVE	3.5	OVERALL LENGTH	81.5"
SPRAYER	6.5x1.5	<u>ENGINE LUBRICATION</u>	
NEEDLE	DA (Jet Holder 106-A	FUEL OIL MIXTURE	4% SAE 40
PISTON-CYL. CLEAR.	.065mm (.00334")	TRANSMISSION	11oz. SAE 40
CRANKSHAFT CLEAR.	.03mm (.0012")	CLUTCH PRIMARY	10oz. SAE 20
<u>TORQUE SPEC. (FT/LB)</u>		SWING ARM	
CYLINDER NUT	11-15	FRONT SUSPENSION	5 3/4oz. SAE 20
CYLINDER HEAD NUT	11-15		
CK/SHFT PINION NUT	58		
MAGNETO NUT	65.3		
CLUTCH NUT			
PRIMARY DRIVE			
CRANKSHAFT PINION	34 teeth		
CLUTCH GEAR	61 teeth		
PRIMARY RATIO	1.79:1		
GEARBOX SPEEDS	4		
COUTSHAFT SPROCKET	11 teeth		
REAR SPROCKET	44 teeth		
CHAIN SIZE	5/8 x 1/4 (520)		
<u>GEAR BOX RATIOS</u>	Primy. Secy. Ratio		
1st	12 24 2		
2nd	15 22 1.46		
3rd	17 20 1.17		
4th	19 18 .94		
5th			
6th			

MODEL; COTA 25C

MODEL NUMBER:50MC

<u>ENGINE</u>		<u>WHEELS</u>	
2 CYCLE		FRONT RIM	45mm x 16"
NUMB. CYLINDER	1	REAR RIM	50mm x 15"
BORE-STROKE	38-43	TIRE SIZE FRONT	2" x 16"
DISPLACEMENT	48.7cc	REAR TIRE	2½" x 15"
COMPRESSION RATIO		SPOKE DIMENSIONS	
<u>IGNITION</u>	Motoplat 9600054	FRONT (LEFT)	36)3x150
POINT GAP	.016"	FRONT (RIGHT)	
IGN. TIMING	2.5mm (.097") BTDC	REAR (LEFT)	36)3x158
		REAR (RIGHT)	
SPARK PLUG SIZE	14mm x ½	<u>SPECIFICATIONS</u>	
PLUG GAP	.016-.018"	DRY WEIGHT	110 lbs.
RECOMMENDED PLUG	Champion L-8	FUEL CAPACITY	.53 gal.
	NGK B-7H	WHEELBASE	37"
CARBURETOR TYPE	Dellorto SHA/14-14	SEAT HEIGHT	19"
DIAMETER	14mm	OVERALL LENGTH	59"
MAIN JET	62	<u>ENGINE LUBRICATION</u>	
LOW SPEED JET		FUEL OIL MIXTURE	
GAS VALVE		TRANSMISSION	
SPRAYER		CLUTCH PRIMARY	
NEEDLE	1.20/.75	SWING ARM	
		FRONT SUSPENSION	
PISTON-CYL. CLEAR.	.03mm		
CRANKSHAFT CLEAR.	.03mm		
<u>TORQUE SPEC. (FT/LB)</u>			
CYLINDER NUT	5.7		
CYLINDER HEAD NUT	29		
CK/SHFT PINION NUT	29		
MAGNETO NUT			
CLUTCH NUT			
PRIMARY DRIVE			
CRANKSHAFT PINION	10 teeth		
CLUTCH GEAR	24 teeth		
PRIMARY RATIO	2.4		
GEARBOX SPEEDS	3		
COUTSHAFT SPROCKET	13 teeth		
REAR SPROCKET	45 teeth		
CHAIN SIZE	½ x 5/16 (420)		
<u>GEAR BOX RATIOS</u>	Primy. Secy. Ratio		
1st	12 70 5.833		
2nd	17 65 3.823		
3rd	25 57 2.280		
4th			
5th			
6th			

MODEL: COTA 348

MODEL NUMBER: 51 M

<u>ENGINE</u>		<u>WHEELS</u>	
2 CYCLE	1	FRONT RIM	WM1-21
NUMB. CYLINDER	78-64	REAR RIM	WM2-18
BORE-STROKE	305.8cc	TIRE SIZE FRONT	275-21
DISPLACEMENT	9:1	REAR TIRE	400-18
COMPRESSION RATIO		SPOKE DIMENSIONS	
		FRONT (LEFT)	36)3.5x231
		FRONT (RIGHT)	
		REAR (LEFT)	36)3.5x194
		REAR (RIGHT)	
		REAR (RIGHT)	
<u>IGNITION</u>		<u>SPECIFICATIONS</u>	
POINT GAP	.0157"	DRY WEIGHT	196 lbs.
IGN. TIMING	1.8mm (.072") BTDC	FUEL CAPACITY	1.32 gal.
	17½° over flywheel	WHEELBASE	51.5"
SPARK PLUG SIZE	14mmx19	SEAT HEIGHT	31.7"
PLUG GAP	.0216"	OVERALL LENGTH	79.5"
RECOMMENDED PLUG	Champion N-12Y		
		<u>ENGINE LUBRICATION</u>	
CARBURETOR TYPE	Amal 2626/402	FUEL OIL MIXTURE	4% SAE 40
DIAMETER	27mm		
MAIN JET	145	TRANSMISSION	10oz. SAE 90
LOW SPEED JET	20	CLUTCH PRIMARY	6 3/4oz.SAE 10w 30
GAS VALVE	3.5	SWING ARM	
SPRAYER	107	FRONT SUSPENSION	6½oz. Hidrol-4
NEEDLE	U3		
PISTON-CYL. CLEAR.	.03mm (.0012")		
CRANKSHAFT CLEAR.	.03mm (.0012")		
<u>TORQUE SPEC. (FT/LB)</u>			
CYLINDER NUT	14.5-18		
CYLINDER HEAD NUT	22-25.5		
CK/SHFT PINION NUT	58		
MAGNETO NUT	65.3		
CLUTCH NUT	14.5-18		
PRIMARY DRIVE			
CRANKSHAFT PINION	20		
CLUTCH GEAR	64		
PRIMARY RATIO	3.20		
GEARBOX SPEEDS	6		
COUTSHAFT SPROCKET	10teeth		
REAR SPROCKET	33teeth		
CHAIN SIZE	5/8 x ¼		
<u>GEAR BOX RATIOS</u>			
1st	Primy. 16-18-11	Secy. 21-23-23	Ratio 3.506
2nd	18-18-11	19-23-23	2.820
3rd	21-18-11	15-23-23	1.908
4th	21	16	1.312
5th	19	18	1.055
6th	15	21	.714

MODEL: ENDURO 250

MODEL NUMBER: 54 M

ENGINE

2 CYCLE
 NUMB. CYLINDER
 BORE-STROKE
 DISPLACEMENT
 COMPRESSION RATIO

1
 70-64
 246.3cc
 12:1

IGNITION

POINT GAP
 IGN. TIMING

Motoplat 9600186-1

SPARK PLUG SIZE
 PLUG GAP
 RECOMMENDED PLUG

3mm (.118") BTDC
 (22° over flywheel)
 14mm x 3/4
 .020"

CARBURETOR TYPE
 DIAMETER
 MAIN JET
 LOW SPEED JET
 GAS VALVE
 SPRAYER
 NEEDLE

Champion N-3
 NGK B-7E
 Amal 2900
 32mm
 210
 30
 2928/060

PISTON-CYL. CLEAR.
 CRANKSHAFT CLEAR.

.06mm (.0024")
 .03mm (.0012")

TORQUE SPEC. (FT/LB)

CYLINDER NUT
 CYLINDER HEAD NUT
 CK/SHFT PINION NUT
 MAGNETO NUT
 CLUTCH NUT

14.5-18
 25.5-29
 72.5
 72.5
 14.5-18

PRIMARY DRIVE
 CRANKSHAFT PINION
 CLUTCH GEAR
 PRIMARY RATIO
 GEARBOX SPEEDS
 COUTSHAFT SPROCKET
 REAR SPROCKET
 CHAIN SIZE

20 teeth
 53 teeth
 2.65
 5
 11 teeth
 48 teeth
 5/8 x 1/4 (520)

GEAR BOX RATIOS

1st
 2nd
 3rd
 4th
 5th
 6th

	Primy.	Secy.	Ratio
1st	10	26	2.600
2nd	13	21	1.615
3rd	17	29	1.117
4th	18	15	0.833
5th	22	15	0.681

WHEELS

FRONT RIM
 REAR RIM
 TIRE SIZE FRONT
 REAR TIRE
 SPOKE DIMENSIONS
 FRONT (LEFT)
 FRONT (RIGHT)
 REAR (LEFT)
 REAR (RIGHT)
 REAR (RIGHT)

WM1-21
 WM2-18
 275/300x21
 400/450x18
 18) 3.5x224
 18) 3.5x238
 18) 4x224
 9) 4x206
 9) 4x200

SPECIFICATIONS

DRY WEIGHT
 FUEL CAPACITY
 WHEELBASE
 SEAT HEIGHT
 OVERALL LENGTH

233 lbs.
 3 gal.
 57"
 34.8"
 86"

ENGINE LUBRICATION

FUEL OIL MIXTURE

5% SAE 40

TRANSMISSION
 CLUTCH PRIMARY
 SWING ARM
 FRONT SUSPENSION

11oz. SAE 90
 10oz. SAE 10w 30
 SAE 40 as needed
 7.6oz. (SAE 20)

MODEL: CAPPRA MX 250

MODEL NUMBER: 63M

<p><u>ENGINE</u></p> <p>2 CYCLE NUMB. CYLINDER BORE-STROKE DISPLACEMENT COMPRESSION RATIO</p> <p><u>IGNITION</u></p> <p>POINT GAP IGN. TIMING</p> <p>SPARK PLUG SIZE PLUG GAP RECOMMENDED PLUG</p> <p>CARBURETOR TYPE DIAMETER MAIN JET LOW SPEED JET GAS VALVE SPRAYER NEEDLE</p> <p>PISTON-CYL. CLEAR. CRANKSHAFT CLEAR.</p> <p><u>TORQUE SPEC. (FT/LB)</u></p> <p>CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT</p> <p>PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR PRIMARY RATIO GEARBOX SPEEDS COUTSHAFT SPROCKET REAR SPROCKET CHAIN SIZE</p> <p><u>GEAR BOX RATIOS</u></p> <p>1st 2nd 3rd 4th 5th 6th</p>	<p>1 72.5-60</p> <p>Motoplat 9600552</p> <p>3mm (.118") BTDC (23° over flywheel) 14 x 3/4 .018-.020"</p> <p>Amal 389-B/32 MCZ 32mm 280 40 3.5 106 a DA</p> <p>.075 (.0030") .03mm(.0012")</p> <p>15-18 25-29 58 60 15-18</p> <p>Primy. Secy. Ratio 1.84 1.46 1.17 .94 .80</p>	<p><u>WHEELS</u></p> <p>FRONT RIM REAR RIM TIRE SIZE FRONT REAR TIRE SPOKE DIMENSIONS FRONT (LEFT) FRONT (RIGHT) REAR (LEFT) REAR (RIGHT) REAR (RIGHT)</p> <p><u>SPECIFICATIONS</u></p> <p>DRY WEIGHT FUEL CAPACITY WHEELBASE SEAT HEIGHT OVERALL LENGTH</p> <p><u>ENGINE LUBRICATION</u></p> <p>FUEL OIL MIXTURE</p> <p>TRANSMISSION CLUTCH PRIMARY SWING ARM FRONT SUSPENSION</p>	<p>WM1-21 WM3-18 300x21 400x18</p> <p>5% SAE 40</p> <p>116z. SAE 40 10oz. 10w 30 SAE 40 as needed 6.5oz. SAE 20</p>
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MODEL: 360 VA

MODEL NUMBER: 66 M

<u>ENGINE</u> CYCLE NUMB. CYLINDER BORE-STROKE DISPLACEMENT COMPRESSION RATIO	1 83.5-64 350.4cc 12:1	<u>WHEELS</u> FRONT RIM REAR RIM TIRE SIZE FRONT REAR TIRE SPOKE DIMENSIONS FRONT (LEFT) FRONT (RIGHT) REAR (LEFT) REAR (RIGHT) REAR (RIGHT)	WM1-21 WM2-18 300x21 450x18 18)3.5x224 18)3.5x238 18)4x224 9)4x206 9)4x200
<u>IGNITION</u> POINT GAP IGN. TIMING SPARK PLUG SIZE PLUG GAP RECOMMENDED PLUG CARBURETOR TYPE DIAMETER MAIN JET LOW SPEED JET GAS VALVE SPRAYER NEEDLE	Motoplat 9600306 3mm (.118") BTDC (24° over flywheel) 14mmx½ .023" Champion N-60 R NGK B-8EN Bing 11.612/0 36mm 165 40-80 0 6.5 x 1.5	<u>SPECIFICATIONS</u> DRY WEIGHT FUEL CAPACITY WHEELBASE SEAT HEIGHT OVERALL LENGTH	211 lbs. 1.7 gal. 58.2" 35" 84.8"
PISTON-CYL. CLEAR. CRANKSHAFT CLEAR.	.07mm (.0027") .03mm (.0012")	<u>ENGINE LUBRICATION</u> FUEL OIL MIXTURE	5% SAE 40
<u>TORQUE SPEC. (FT/LB)</u>		TRANSMISSION CLUTCH PRIMARY SWING ARM FRONT SUSPENSION	17oz. SAE 40 10oz. SAE 10w 30 SAE 40 as needed 6 3/4oz. Hidrol 10
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT	14.5-18 25.5-29 58 51 14.5-18		
PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR PRIMARY RATIO GEARBOX SPEEDS COUTSHAFT SPROCKET REAR SPROCKET CHAIN SIZE	22 teeth 45 teeth 2.045 4 11 teeth 56 teeth 5/8 x ¼ (520)		
<u>GEAR BOX RATIOS</u> 1st 2nd 3rd 4th 5th 6th	Primy. Secy. Ratio 13 24 1.846 15 22 1.466 17 20 1.176 19 18 947		

MODEL: CAPPRA 250 VR

MODEL NUMBER: 73 M

<u>ENGINE</u>		<u>WHEELS</u>	
2 CYCLE	1	FRONT RIM	WM1-21
NUMB. CYLINDER	70-64	REAR RIM	WM3-18
BORE-STROKE	246.3cc	TIRE SIZE FRONT	300x21
DISPLACEMENT	12:1	REAR TIRE	450x18
COMPRESSION RATIO		SPOKE DIMENSIONS	
<u>IGNITION</u>	Motoplat 9600306	FRONT (LEFT)	18) 3.5x224
POINT GAP	3mm (.118") BTDC	FRONT (RIGHT)	18) 3.5x238
IGN. TIMING	(24° over flywheel)	REAR (LEFT)	18) 4x224
SPARK PLUG SIZE	14mm x ½	REAR (RIGHT)	9) 4x206
PLUG GAP	.015"	REAR (RIGHT)	9) 4x200
RECOMMENDED PLUG	Champion N-60 R	<u>SPECIFICATIONS</u>	
CARBURETOR TYPE	NGK B-8EN	DRY WEIGHT	220 lbs.
DIAMETER	Bing 11500-34	FUEL CAPACITY	1.7 gal.
MAIN JET	34mm	WHEELBASE	56"
LOW SPEED JET	155	SEAT HEIGHT	32"
GAS VALVE	50	OVERALL LENGTH	84"
SPRAYER	1	<u>ENGINE LUBRICATION</u>	
NEEDLE	6.5 x 1.5	FUEL OIL MIXTURE	5% SAE 40
PISTON-CYL. CLEAR.	.07mm (.0027")	TRANSMISSION	11oz. SAE 40
CRANKSHAFT CLEAR.	.03mm (.0012")	CLUTCH PRIMARY	10oz. SAE 10w 30
<u>TORQUE SPEC. (FT/LB)</u>		SWING ARM	SAE 40 as needed
CYLINDER NUT	14-18	FRONT SUSPENSION	6 3/4oz. Hidrol 10
CYLINDER HEAD NUT	22-25.5		
CK/SHFT PINION NUT	72.5		
MAGNETO NUT	72.5		
CLUTCH NUT	14.5-18		
PRIMARY DRIVE			
CRANKSHAFT PINION	26 teeth		
CLUTCH GEAR	58 teeth		
PRIMARY RATIO	2.230		
GEARBOX SPEEDS	5		
COUTSHAFT SPROCKET	11 teeth		
REAR SPROCKET	56 teeth		
CHAIN SIZE	5/8 x ¼		
<u>GEAR BOX RATIOS</u>	Primy. Secy. Ratio		
1st	13 24 1.846		
2nd	15 22 1.466		
3rd	17 20 1.176		
4th	19 18 .947		
5th	20 16 .800		
6th			

MODEL: CAPPRA 250 VA

MODEL NUMBER: 73 M

<u>ENGINE</u>		<u>WHEELS</u>	
2 CYCLE	1	FRONT RIM	WM1-21
NUMB. CYLINDER	70-64	REAR RIM	WM2-18
BORE-STROKE	246.3cc	TIRE SIZE FRONT	300x21
DISPLACEMENT	13:1	REAR TIRE	450x18
COMPRESSION RATIO		SPOKE DIMENSIONS	
<u>IGNITION</u>	Motoplat 9600306-1	FRONT (LEFT)	18)3.5x224
POINT GAP	3mm (.118") BTDC	FRONT (RIGHT)	18)3.5x238
IGN. TIMING	(24° over flywheel)	REAR (LEFT)	18)4x224
SPARK PLUG SIZE	14mm x 1/2	REAR (RIGHT)	9)4x206
PLUG GAP	.0157"	REAR (RIGHT)	9)4x200
RECOMMENDED PLUG	Champion N-57 R	<u>SPECIFICATIONS</u>	
CARBURETOR TYPE	NGK B-9EN	DRY WEIGHT	222 lbs.
DIAMETER	Bing 11609/0	FUEL CAPACITY	1.7 gal.
MAIN JET	34mm	WHEELBASE	56"
LOW SPEED JET	165	SEAT HEIGHT	36.6"
GAS VALVE	40-80	OVERALL LENGTH	84.5"
SPRAYER	0	<u>ENGINE LUBRICATION</u>	
NEEDLE	6.5 x 1.5	FUEL OIL MIXTURE	5% SAE 40
	11.208/ON3	TRANSMISSION	11oz. SAE 40
PISTON-CYL. CLEAR.	.07mm (.0027)	CLUTCH PRIMARY	10oz. SAE 10w 30
CRANKSHAFT CLEAR.	.03mm (.0012")	SWING ARM	SAE 40 as needed
<u>TORQUE SPEC. (FT/LB)</u>		FRONT SUSPENSION	6 3/4 oz. Hidrol 10
CYLINDER NUT	11-15		
CYLINDER HEAD NUT	22-25.5		
CK/SHFT PINION NUT	72.5		
MAGNETO NUT	72.5		
CLUTCH NUT	14.5-18		
PRIMARY DRIVE	26 teeth		
CRANKSHAFT PINION	58 teeth		
CLUTCH GEAR	2.230		
PRIMARY RATIO	5		
GEARBOX SPEEDS	11 teeth		
COUTSHAFT SPROCKET	56 teeth		
REAR SPROCKET	5/8 x 1/2 (520)		
CHAIN SIZE			
<u>GEAR BOX RATIOS</u>	Primy. Secy. Ratio		
1st	13 24 1.846		
2nd	15 22 1.466		
3rd	17 20 1.176		
4th	19 18 .947		
5th	20 16 .800		
6th			

MODEL, ENDURO 250 H

MODEL NUMBER: 54 M

<u>ENGINE</u>		<u>WHEELS</u>	
2 CYCLE	1	FRONT RIM	WM1-21
NUMB. CYLINDER	70-64	REAR RIM	WM3-18
BORE-STROKE	246.cc	TIRE SIZE FRONT	275/300-21
DISPLACEMENT	12:1	REAR TIRE	400/450-18
COMPRESSION RATIO		SPOKE DIMENSIONS	
<u>IGNITION</u>	Motoplat 9600186-1	FRONT (LEFT)	18) 3.5x224
POINT GAP	2.5mm (.098") BTDC	FRONT (RIGHT)	18) 3.5x238
IGN. TIMING	20° over flywheel	REAR (LEFT)	18) 4x224
SPARK PLUG SIZE	14mm x 3/4	REAR (RIGHT)	9) 4x206
PLUG GAP	.020"	REAR (RIGHT)	9) 4x197
RECOMMENDED PLUG	Champion N-3	<u>SPECIFICATIONS</u>	
CARBURETOR TYPE	NGK B-7E	DRY WEIGHT	224.7 lbs.
DIAMETER	Amal 2900	FUEL CAPACITY	2.37 gal
MAIN JET	32mm	WHEELBASE	57"
LOW SPEED JET	210	SEAT HEIGHT	36-37"
GAS VALVE	30	OVERALL LENGTH	87"
SPRAYER	2928/060	<u>ENGINE LUBRICATION</u>	
NEEDLE	6.5 x 1.5	FUEL OIL MIXTURE	5% SAE 40
	2-D-1	TRANSMISSION	11oz. SAE 90
PISTON-CYL. CLEAR.	.06mm (.0024")	CLUTCH PRIMARY	10oz. SAE 10w 30
CRANKSHAFT CLEAR.	.03mm (.0012")	SWING ARM	SAE 40 as needed
<u>TORQUE SPEC. (FT/LB)</u>		FRONT SUSPENSION	7.6oz Hidrol 7
CYLINDER NUT	14.5-18		SAE 20
CYLINDER HEAD NUT	25.5-29		
CK/SHFT PINION NUT	58		
MAGNETO NUT	54.5		
CLUTCH NUT	14.5-18		
PRIMARY DRIVE			
CRANKSHAFT PINION	20 teeth		
CLUTCH GEAR	53 teeth		
PRIMARY RATIO	2.65		
GEARBOX SPEEDS	5		
COUTSHAFT SPROCKET	12 teeth		
REAR SPROCKET	54 teeth		
CHAIN SIZE	5/8 x 1/4		
<u>GEAR BOX RATIOS</u>	Primy. Secy. Ratio		
1st	10 26 2.600		
2nd	13 21 1.615		
3rd	17 19 1.117		
4th	18 15 .833		
5th	22 15 .681		
6th			