SPECIFICA SHAMMED AND SHAMMED SHAMMED



MODEL NUMBER: 10 M

ENGINE		WHEELS	
2 CYCLE NUMB. CYLINDER BORE-STROKE DISPLACEMENT COMPRESSION RATIO	1 38-43 48.7 10.1	FRONT RIM REAR RIM TIRE SIZE FRONT REAR TIRE SPOKE DIMENSIONS FRONT (LEFT)	16" 15" 2"x 16" 2½x 15"
INGITION POINT GAP	.016" 2-2.25mm(0.079-0.08	FRONT (RIGHT) REAR (LEFT) REAR (RIGHT)	36)3x150mm 36)3x158mm
SPARK PLUG SIZE PLUG GAP RECOMMENDED PLUG	14mm x ½ .016-018" Champion L-81	REAR (RIGHT) SPECIFICATIONS DRY WEIGHT	110.21bs
CARBURETOR TYPE DIAMETER MAIN JET LOW SPEED JET	Dellorto Sha/14-14 14mm 62	FUEL CAPACITY WHEELBASE SEAT HEIGHT OVERALL LENGTH	0.53 gal. 37" 19"7 59"
GAS VALVE SPRAYER NEEDLE	120/0.75	FUEL OIL MIXTURE	40% SAE 40
PISTON-CYL. CLEAR.	0.0012"	TRANSMISSION CLUTCH PRIMARY SWING ARM	250cc SAE 40
TORQUE SPEC. (FT/LB)		FRONT SUSPENSION	1000 cc SAE 20
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT	5.7 ft. 1bs. 29 ft. 1bs. 29 ft. 1bs.		
PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR PRIMARY RATIO GEARBOX SPEEDS COUTSHAFT SPROCKET REAR SPROCKET CHAIN SIZE	10 teeth 24 teeth 2.4:1 3 13 teeth 45 teeth ½ x 205"		
GEAR BOX RATIOS 1st 2nd 3rd 4th 5th 6th	Primy. Secy. Ratio 12 70 5.833 17 65 3.823 25 57 2.280		

MODEL NUMBER: 12 M

ENGINE		WHEELS	· •
2 CYCLE NUMB. CYLINDER BORE-STROKE DISPLACEMENT COMPRESSION RATIO	1 60.9-60 174.7cc	FRONT RIM REAR RIM TIRE SIZE FRONT REAR TIRE SPOKE DIMENSIONS FRONT (LEFT)	WM2-19 WM3-18 275x19 350x18
INGITION POINT GAP	Mo 628M0539 20L-DE 3mm (.118) BTDC	FRONT (RIGHT) REAR (LEFT) REAR (RIGHT)	
IGN. TIMING SPARK PLUG SIZE PLUG GAP	(23° over flywheel)	REAR (RIGHT) SPECIFICATIONS	
RECOMMENDED PLUG CARBURETOR TYPE	Champion L-86 Amal 389-B/30	DRY WEIGHT FUEL CAPACITY WHEELBASE	
DIAMETER MAIN JET LOW SPEED JET	30mm 200 3.5 3.5	SEAT HEIGHT OVERALL LENGTH	
GAS VALVE SPRAYER NEEDLE	DA (Jet Holder 105A	FUEL OIL MIXTURE	5% SAE 40
PISTON-CYL. CLEAR. CRANKSHAFT CLEAR.	.03mm (.0012") .030 mm (.0012")	TRANSMISSION CLUTCH PRIMARY SWING ARM	13½0z. SAE 90 10oz. SAE 10w :
TORQUE SPEC. (FT/LB)		FRONT SUSPENSION	6½0z. SAE 20
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT	14.5-18 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 2.65:1 4 12 teeth 47 teeth ½ x 5/16 (520)		
GEAR BOX RATIOS 1st 2nd 3rd 4th 5th 6th	Primy. Secy. Ratio 13 30 2.30 18 25 1.38 21 22 1.04 25 18 .72		

MODEL NUMBER: 16 M

PNGINE WHEELS 2 CYCLE FRONT RIM NUMB. CYLINDER REAR RIM BORE-STROKE 42-54 TIRE SIZE FRONT 250x20 REAR TIRE DISPLACEMENT 74.8cc 375x17 COMPRESSION RATIO 12:1 SPOKE DIMENSIONS FRONT (LEFT) INGITION 9600433 FRONT (RIGHT) 36) 3x217 REAR (LEFT) POINT GAP 0.4mm REAR (RIGHT) 36)3x160 2mm (.078") BTDC IGN. TIMING REAR (RIGHT) (24° over flywheel) $14 \, \text{mm} \times 3/4$ SPARK PLUG SIZE SPECIFICATIONS .0157" PLUG GAP RECOMMENDED PLUG Champion N-4 DRY WEIGHT 160 lbs. FUEL CAPACITY 1.97 gal. CARBURETOR TYPE Amal L-620/404 WHEELBASE 49.5" 20mm SEAT HEIGHT 28.3" DIAMETER OVERALL LENGTH 100 73.6" MAIN JET LOW SPEED JET 40 GAS VALVE 3 ENGINE LUBRICATION 106A SPRAYER U - 2 FUEL OIL MIXTURE 4% SAE 40 NEEDLE combined PISTON-CYL. CLEAR. .03mm (.0012") TRANSMISSION .03mm 20½0z SAE 10w 30 ANKSHAFT CLEAR. CLUTCH PRIMARY SWING ARM FRONT SUSPENSION 5oz. SAE 20 TORQUE SPEC. (FT/LB) 14.5-18 ft.1bs. CYLINDER NUT 22-25.5 ft.1bs. CYLINDER HEAD NUT 72.5 ft.1bs. CK/SHFT PINION NUT 72.5 ft.lbs. MAGNETO NUT 14.5-18 ft.1bs. CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION 19teeth CLUTCH GEAR 65teeth PRIMARY RATIO 3,421,1 GEARBOX SPEEDS 11 teeth COUTSHAFT SPROCKET 52 teeth REAR SPROCKET $\frac{1}{2}$ x 0.305 CHAIN SIZE Primy. Secy. Ratio GEAR BOX RATIOS 34 2.615 13 1st 32 2.133 15 2nd 29 18 1.611 3rd1.20 24 20 4th 25 22 0.88 5th 28 19 0.678 ′ ነ

MODEL NUMBER: 19 M

		and the second s	
ENGINE		WHEELS	
2 CYCLE		FRONT RIM	WM 1 - 2 1
NUMB. CYLINDER	1	REAR RIM	WM2-18
BORE - STROKE	60.93mm-54	TIRE SIZE FRONT	275x21
T i	157.5cc	REAR TIRE	400x18
DISPLACEMENT	11.5:1	SPOKE DIMENSIONS	400810
COMPRESSION RATIO	11.3.1	FRONT (LEFT)	
INCIMION	Motoplat 9000433		36)3·5x2 3 1
INGITION	Motoplat 9000433	FRONT (RIGHT)	
l norum cin	0.01574	REAR (LEFT)	36)3.5x194
POINT GAP	0.0157"	REAR (RIGHT)	30 J 3 . 3 X I 3 T
IGN. TIMING	3mm (.118") BTDC	REAR (RIGHT)	
·	(24° over flywheel)		
SPARK PLUG SIZE	14mm x 3/4"	SPECIFICATIONS	
PLUG GAP	.0157"		472 11
RECOMMENDED PLUG	Champion N-4	DRY WEIGHT	172 lbs.
1		FUEL CAPACITY	1.2 gal.
CARBURETOR TYPE	Amal L620/403	WHEELBASE	49.6"
DIAMETER	20mm	SEAT HEIGHT	30.3"
MAIN JET	100	OVERALL LENGTH	76.3"
LOW SPEED JET	30		
GAS VALVE	2.5	ENGINE LUBRICATION	
SPRAYER	106		
NEEDLE	บ	FUEL OIL MIXTURE	5% SAE 40
ALLDEL		. JEE OIL MIXIORE	
PISTON-CYL. CLEAR.		TRANSMISSION	Combined
CRANKSHAFT CLEAR.	0.03mm (.0012")	CLUTCH PRIMARY	30.50z. SAE 10w 30
CKANKSHAFI CLEAK.	0.03mm (.0012)	SWING ARM	
Topour appa (market)		FRONT SUSPENSION	4.4oz. SAE 20
TORQUE SPEC. (FT/LB)		I KONI SUSPENSION	
<i>av.</i>	14.5-18		
CYLINDER NUT	22-25.5		
CYLINDER HEAD NUT	58		
CK/SHFT PINION NUT	•		1
MAGNETO NUT	61.5		
CLUTCH NUT	14.5-18		
PRIMARY DRIVE	10 5		
CRANKSHAFT PINION	19 T		
CLUTCH GEAR	65 T		
PRIMARY RATIO	3.421		•
GEARBOX SPEEDS	6		
COUTSHAFT SPROCKET	11 teeth		
REAR SPROCKET	52 teeth		,
CHAIN SIZE	½ x 5/16		
GEAR BOX RATIOS	Primy. Secy. Ratio		
1st	13 34 2.615		
2nd	15 32 2.133		
3rd	18 29 1.611		
	29 1.011		
4th	25 22 .88		
5th	28 19 .678		
6th	20 19 .078		
Į			1
<u> </u>	<u></u>		i

Marine 1988			
FNG I NE		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	1.	SPOKE DIMENSIONS	400218
COMPRESSION RATIO	Ratio 10:1		
INCITION	•	FRONT (LEFT)	36)3.5x231
INGITION	Motoplat 9600450	FRONT (RIGHT)	
D0 0.1 D		REAR (LEFT)	
POINT GAP	0.4"	REAR (RIGHT)	36)3.5x194
IGN. TIMING	2.5mm (.098") BTDC	REAR (RIGHT)	
	210 over flywheel)		
SPARK PLUG SIZE	$14 \text{mm} \times \frac{1}{2}$	SPECIFICATIONS	
PLUG GAP	.0157"		
RECOMMENDED PLUG	Champion L-85	DRY WEIGHT	200 lbs.
	-	FUEL CAPACITY	1.5 gal.
CARBURETOR TYPE	Amal L627/427	WHEELBASE	51.5"
DIAMETER	27mm	SEAT HEIGHT	31.2"
MAIN JET	150	OVERALL LENGTH	79.5"
LOW SPEED JET	35		
GAS VALVE	3	ENGINE LUBRICATION	
SPRAYER			
NEEDLE	U - 2	FUEL OIL MIXTURE	4% SAE 40
NEEDEL	0 - 2	TOLE OIL MIXIORE	, , ,
PISTON-CYL. CLEAR.	.03mm (.0012")	TRANSMISSION	10oz. SAE 90
TANKSHAFT CLEAR.	.03mm (.0012')	CLUTCH PRIMARY	6 3/4oz. SAE 10w 30
ANKSHAFI CLEAK.	.03mm (.0012)	SWING ARM	SAE 40
manaus appa (55 / 1)		FRONT SUSPENSION	6½oz. Hidrol 7SAE20
TORQUE SPEC. (FT/LB)		FROMI SUSPENSION	0202. HILIOI /SKE20
	14 " 10		
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		
COUTSHAFT SPROCKET	10 teeth		
REAR SPROCKET	40 teeth		
CHAIN SIZE	$5/8 \times \frac{1}{4} (520)$		
		·	1
GEAR BOX RATIOS	Primy. Secy. Ratio		
1st	10 26 2.600		
2nd	12 25 2.083		1
3rd	1		
1	14 23 1.642		
4th	17 20 1.176		
5th	21 15 .714		
6th			
I			1
ľ		1	

ENGINE	' 	WHEELS	
2 CYCLE	i : :	FRONT RIM	WM2-19 WM3-18
NUMB. CYLINDER	1	REAR RÍM	1
BORE - STROKE	72.5-60	TIRE SIZE FRONT	350x19
DISPLACEMENT	247.69cc	REAR TIRE	400x18
COMPRESSION RATIO	10.5:1	SPOKE DIMENSIONS	
		FRONT (LEFT)	36)4x164
INGITION		FRONT (RIGHT)	
		REAR (LEFT)	
POINT GAP	•	REAR (RIGHT)	36)4x154
IGN. TIMING	6mm (.236") BTDC	REAR (RIGHT)	
	· · · · · · · · · · · · · · · · · · ·	(112111)	
SPARK PLUG SIZE	14mm x ½	SPECIFICATIONS	
PLUG GAP	.4mm	STECTI TEXT TONS	
	•	DDV WEIGHT	211 11-
RECOMMENDED PLUG	Champion L-58R	DRY WEIGHT	211 lbs.
	1 700 5/50	FUEL CAPACITY	1.9 gal.
CARBURETOR TYPE	Ama1 389-B/30 Mc	WHEELBASE	53"
DIAMETER	30mm	SEAT HEIGHT	31.5"
MAIN JET	260-290	OVERALL LENGTH	79''
LOW SPEED JET	35		
GAS VALVE	3.5	ENGINE LUBRICATION	
SPRAYER			
NEEDLE	DA (Jet Holder 105A	FUEL OIL MIXTURE	5% SAE 40
PISTON-CYL. CLEAR.	.10mm (.0039")	TRANSMISSION	13½0z. SAE 90
CRANKSHAFT CLEAR.	.03mm (.0012")	CLUTCH PRIMARY	10oz. SAE 20
		SWING ARM	
TORQUE SPEC. (FT/LB)		FRONT SUSPENSION	7¼oz. SAE 20
100000000000000000000000000000000000000			•
CYLINDER NUT			
CYLINDER HEAD NUT	11-15	·	
CK/SHFT PINION NUT			
t '			
MAGNETO NUT			
CLUTCH NUT			
DRIMARY BRIDE			
PRIMARY DRIVE			
CRANKSHAFT PINION			
CLUTCH GEAR			
PRIMARY RATIO			
GEARBOX SPEEDS	4		
COUTSHAFT SPROCKET	11 teeth		
REAR SPROCKET	40 teeth		
CHAIN SIZE	$5/8 \times \frac{1}{4} (520)$		
	1		·
GEAR BOX RATIOS	Primy. Secy. Ratio		
lst	14 29 2.07	1	
2nd			
3rd			_
4th	20 23 1.15		
5th	22 21 .95		
6th			1
			1

MODEL NUMBER: 24 M

· · · · · · · · · · · · · · · · · · ·			~~ <u></u>
FNGINE		WHEELS	·
2 CYCLE NUMB. CYLINDER BORE-STROKE DISPLACEMENT	1 72.5-60 247.69cc	FRONT RIM REAR RIM TIRE SIZE FRONT REAR TIRE	WM1-21 WM3-18 300x21 400x18
COMPRESSION RATIO	10.5:1	SPOKE DIMENSIONS FRONT (LEFT)	
INGITION		FRONT (RIGHT) REAR (LEFT)	
POINT GAP IGN. TIMING	.015" 4mm (.157") BTDC (27° over flywheel)	REAR (RIGHT) REAR (RIGHT)	
SPARK PLUG SIZE PLUG GAP	14 mm x ¹ 2 .4mm	SPECIFICATIONS	
RECOMMENDED PLUG CARBURETOR TYPE DIAMETER	Champion L-5 Amal 389-B/30 ME 30mm	DRY WEIGHT FUEL CAPACITY WHEELBASE SEAT HEIGHT	218 1bs. 2.38 gal. 50" 31.5
MAIN JET LOW SPEED JET	230 45	OVERALL LENGTH	78"
GAS VALVE SPRAYER NEEDLE	3.5 DA (Jet Holder 105A	FUEL OIL MIXTURE	5% SAE 40
PISTON-CYL. CLEAR. ANKSHAFT CLEAR.	.085mm (.00335") .03mm (.0012")	TRANSMISSION CLUTCH PRIMARY SWING ARM	13½0z. SAE 90 10oz. SAE 20
TORQUE SPEC. (FT/LB)		FRONT SUSPENSION	5 3/4oz. SAE 20
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 12 teeth 42 teeth ½ x 5/16 (520)		
GEAR BOX RATIOS 1st 2nd 3rd 4th 5th h	Primy. Secy. Ratio 13 30 2.30 18 25 1.38 21 22 1.04 24 19 .79		

ENGINE		WHEELS	,
2 CYCLE NUMB. CYLINDER	1	FRONT RIM REAR RIM	WM2-19 WM3-18
BORE-STROKE	72.5-60	TIRE SIZE FRONT	300x19
DISPLACEMENT	247.69cc	REAR TIRE	400x18
COMPRESSION RATIO	12:1	SPOKE DIMENSIONS	
		FRONT (LEFT)	36)4x164
INGITION		FRONT (RIGHT)	30)48104
		REAR (LEFT)	36)4x153
POINT GAP	.335 (.012-014.1)	REAR (RIGHT)	30)47133
IGN. TIMING	5.5-7mm(.216275)	REAR (RIGHT)	
	(320-350 over fywh1)		
SPARK PLUG SIZE	14mm	SPECIFICATIONS	
PLUG GAP	.4mm Champion L-58R	DDV WEIGHT	198 lbs.
RECOMMENDED PLUG	Champion L-36k	DRY WEIGHT FUEL CAPACITY	1.9 gal.
CARBURETOR TYPE	Ama1 389	WHEELBASE	51.5"
DIAMETER	30mm	SEAT HEIGHT	31.5"
MAIN JET	310	OVERALL LENGTH	79"
LOW SPEED JET	20		
GAS VALVE	3.5	ENGINE LUBRICATION	·
SPRAYER	. 7		
NEEDLE	D	FUEL OIL MIXTURE	5% SAE 40
PISTON-CYL. CLEAR.	.023mm	TRANSMISSION	400cc SAE 90
CRANKSHAFT CLEAR.	.010mm	CLUTCH PRIMARY	10oz. SAE 20
okkiikoiiki i ozzikii		SWING ARM	
TORQUE SPEC. (FT/LB)		FRONT SUSPENSION	125cc SAE 20
CYLINDER NUT	18		
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	$5/8 \times \frac{1}{4} (520)$		
CEAR DOV DATES	Primy. Secy. Ratio		
GEAR BOX RATIOS	15 28 .53		
1st 2nd	18 25 .72		
3rd	20 23 .87	·	
4th	22 21 1.05		
5th			
6th			

FNGINE		WHEELS	
2 CYCLE	•	FRONT RIM	WM2-19
NUMB. CYLINDER	1	REAR RIM	WM2-19
BORE - STROKE	72.5-60	TIRE SIZE FRONT	325x19
DISPLACEMENT	247.69cc	REAR TIRE	300x19
COMPRESSION RATIO	10.5:1	SPOKE DIMENSIONS	
		FRONT (LEFT)	36)3.5x168
INGITION	·	FRONT (RIGHT)	30)3.32100
	0.1.2.1	REAR (LEFT)	
POINT GAP	.012"	REAR (RIGHT.)	36)3.5x168
IGN. TIMING	4mm (.157") BTDC	REAR (RIGHT)	00,000,000
	27° over flywheel)		
SPARK PLUG SIZE	14mm x ½	SPECIFICATIONS	
PLUG GAP	4 mm		0.5.4
RECOMMENDED PLUG	Champion L-5	DRY WEIGHT	231 lbs.
	Amal 790 P/70 MCF	FUEL CAPACITY	3.4 gal.
CARBURETOR TYPE	Ama1 389-B/30 MSE 30mm	WHEELBASE	50.4"
DIAMETER		SEAT HEIGHT	31.5"
MAIN JET	230	OVERALL LENGTH	76.4"
LOW SPEED JET	3.5	FNOTNE THORTON	
GAS VALVE	105-A	ENGINE LUBRICATION	
SPRAYER	DA - 7	5.1.5. A.T. M.T.V	5% SAE 40
NEEDLE	DR-7	FUEL OIL MIXTURE	3% SAE 40
DIGMON CVI CIPAD	.085mm (.0033")	TRANSMICCION	13.6oz.SAE 90
PISTON-CYL. CLEAR.	.010mm (.0004")	TRANSMISSION	10.80z.SAE 20
RANKSHAFT CLEAR.	(10.004)	CLUTCH PRIMARY SWING ARM	10.802.3AL 20
Monour oned (pm/ln)		FRONT SUSPENSION	6.oz. SAE 20
TORQUE SPEC. (FT/LB)		FRONT SUSPENSION	0.02. ORE 20
CVI INDED NUT			
CYLINDER NUT CYLINDER HEAD NUT			
CK/SHFT PINION NUT			
MAGNETO NUT	,		
CLUTCH NUT			
CLOTCH NOT			
PRIMARY DRIVE			
CRANKSHAFT PINION	20 teeth		
CLUTCH GEAR	53 teeth		
PRIMARY RATIO	2.65:1	* *	
GEARBOX SPEEDS	4		
COUTSHAFT SPROCKET	16 teeth		
REAR SPROCKET	44 teeth		
CHAIN SIZE	$\frac{1}{2} \times \frac{5}{16}$		
GEAR BOX RATIOS	Priy. Secy. Ratio		
1st	14 29 .48	1	
2 n d	18 25 .72		
3rd	21 22 .95		
4th	23 20 1.15		
5th			
ith			

	ENGINE		WHEELS	
	2 CYCLE		FRONT RIM	WM1-20
1	NUMB. CYLINDER	1	REAR RIM	WM1-17
l	BORE-STROKE	54-54	TIRE SIZE FRONT	250-20
		123.7cc	REAR TIRE	375-17
	DISPLACEMENT	12:1	SPOKE DIMENSIONS	3/3-1/
1	COMPRESSION RATIO	12:1	FRONT (LEFT)	•
	TNCTTTON	Motoplat 9600413	FRONT (RIGHT)	36)3x217
١	INGITION	MOCOPIAC 9000413	REAR (LEFT)	
	DOTNE CAD	.0157"	REAR (RIGHT)	36)3x160
1	POINT GAP	3mm (.118") BTDC	REAR (RIGHT)	
	IGN. TIMING	$(24^{\circ}-30^{\circ})$ over flywh	KEAK (KIGHI)	
	SPARK PLUG SIZE	14mm x 3/4	SPECIFICATIONS	
l	PLUG GAP	.0157"	STECTI TEXT TONS	
1	RECOMMENDED PLUG	Champion N-4	DRY WEIGHT	156.51bs.
	RECOMMENDED FLOG	Champion N-4	FUEL CAPACITY	1.2 gal.
	CARBURETOR TYPE	Ama1 625	WHEELBASE	49.5"
	DIAMETER	25mm	SEAT HEIGHT	30.3"
	MAIN JET	120	OVERALL LENGTH	73.6"
	LOW SPEED JET	30	OVERALE BENGIN	
ĺ	GAS VALVE	2.5	ENGINE LUBRICATION	
	SPRAYER	106	ENGINE BODITORITOR	
	NEEDLE	U	FUEL OIL MIXTURE	4% SAE 40
	NEEDEL			•
-	PISTON-CYL. CLEAR.	.045mm (.001772")	TRANSMISSION	combined
	CRANKSHAFT CLEAR.	.03mm	CLUTCH PRIMARY	2040z. SAE 10w 7
	CRANKSHALL CELAK.		SWING ARM	
	TORQUE SPEC. (FT/LB)		FRONT SUSPENSION	5oz. SAE 20
	TORQUE STEE. (11725)		·	
	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	$\frac{1}{2} \times 5/16 $ (428)		
	GEAR BOX RATIOS	Primy. Secy. Ratio		
	1st	13 34 2.615		
	2nd	15 32 2.133	· · · · · · · · · · · · · · · · · · ·	
	3rd	18 29 1.611	1	
	4th	20 24 1.20		
	5th	25 22 .88		
	6th	28 19 .678		
				1

MODEL NUMBER: 33 M

ENGINE		WHEELS	
Z CYCLE NUMB. CYLINDER BORE-STROKE DISPLACEMENT COMPRESSION RATIO INGITION POINT GAP IGN. TIMING	1 72.5-60 247.6 cc 13:1 Motoplat MCR-137.20 .015" 4mm (.157") BTDC	FRONT RIM REAR RIM TIRE SIZE FRONT REAR TIRE SPOKE DIMENSIONS FRONT (LEFT) FRONT (RIGHT) REAR (LEFT) REAR (RIGHT)	WM2-21 WM3-18 300x21 400x18 36)4x190 36)4x153
SPARK PLUG SIZE PLUG GAP RECOMMENDED PLUG CARBURETOR TYPE DIAMETER MAIN JET	(27° over flywheel) 14mm x ½ .1213 Champion L-58R Amal 389-8/32MC 32mm 280	REAR (RIGHT) SPECIFICATIONS DRY WEIGHT FUEL CAPACITY WHEELBASE SEAT HEIGHT OVERALL LENGTH	211 lbs. 1.9 gal. 52.7" 33.4" 78.7"
LOW SPEED JET GAS VALVE SPRAYER NEEDLE PISTON-CYL. CLEAR. RANKSHAFT CLEAR.	40 3.5 106-A DA-3 .10mm (.0039") .010mm(.0004")	ENGINE LUBRICATION FUEL OIL MIXTURE TRANSMISSION CLUTCH PRIMARY SWING ARM	5% SAE 40 13.6oz. SAE 90 10.8oz. SAE 20 6.oz. SAE 20
TORQUE SPEC. (FT/LB CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR PRIMARY RATIO GEARBOX SPEEDS	15-18 22-25 58 58 15-18 23 teeth 61 teeth 2.652:1	FRONT SUSPENSION	
COUTSHAFT SPROCKET REAR SPROCKET CHAIN SIZE GEAR BOX RATIOS 1st 2nd 3rd 4th 5th 6th	11 teeth 50 teeth 5/8 x 4 (520) Priy. Secy. Ratio 13 23 .56.1 15 22 .68.1 17 20 .85.1 19 18 1.05.1		

MODEL: KING SCORPION

•			ť
ENGINE		WHEELS	
2 CYCLE		FRONT RIM	WM2-21
NUMB. CYLINDER	- <u>1</u> .	REAR RIM	WM3-18
	72.5-60	ı	300x21
BORE-STROKE	247.69cc	TIRE SIZE FRONT	400x18
DISPLACEMENT	10:1	REAR TIRE	400218
COMPRESSION RATIO	10.1	SPOKE DIMENSIONS	
	Motoplat 9600532	FRONT (LEFT)	
INGITION	Motopiac 9000332	FRONT (RIGHT)	
		REAR (LEFT)	
POINT GAP	7mm (11011) PTDC	REAR (RIGHT)	·
IGN. TIMING	3mm (.118") BTDC (23° over flywheel)	REAR (RIGHT)	4
	14mm x ½		
SPARK PLUG SIZE	14mm X 2	SPECIFICATIONS	
PLUG GAP	Champion I 5		279 11-
RECOMMENDED PLUG	Champion L-5 NGK B-7H	DRY WEIGHT	238 lbs.
	1	FUEL CAPACITY	2.9 gal. 54.5"
CARBURETOR TYPE	Ama1 627	WHEELBASE	
DIAMETER	27mm	SEAT HEIGHT	31.5"
MAIN JET	160-170 40-45	OVERALL LENGTH	
LOW SPEED JET	25		
GAS VALVE	25	ENGINE LUBRICATION	
SPRAYER	U (lot Holder 106)		48 CAT 40
NEEDLE	U (Jet Holder 106)	FUEL OIL MIXTURE	4% SAE 40
	.035mm (.00138")		17 CAE 00
PISTON-CYL. CLEAR.	.030mm (.00138)	TRANSMISSION	13oz. SAE 90 11oz. SAE 20
CRANKSHAFT CLEAR.	1.030mm (.0012)	CLUTCH PRIMARY	1102. SAE 20
1	1		Z .
		SWING ARM	6 1/307 SAE10 20
TORQUE SPEC. (FT/LB)		SWING ARM FRONT SUSPENSION	6 1/3oz. SAE10,20,
		I .	6 1/3oz. SAE10,20, 30,
CYLINDER NUT	14.5-18	I .	
CYLINDER NUT CYLINDER HEAD NUT	14.5-18 22-25.5	I .	
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT	14.5-18	I .	
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT	14.5-18 22-25.5 72.5 72.5	I .	
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT	14.5-18 22-25.5 72.5	I .	
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT	14.5-18 22-25.5 72.5 72.5	I .	
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE	14.5-18 22-25.5 72.5 72.5 14.5-18	I .	
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION	14.5-18 22-25.5 72.5 72.5 14.5-18	I .	
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR	14.5-18 22-25.5 72.5 72.5 14.5-18	I .	
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR PRIMARY RATIO	14.5-18 22-25.5 72.5 72.5 14.5-18	I .	
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR PRIMARY RATIO GEARBOX SPEEDS	14.5-18 22-25.5 72.5 72.5 14.5-18 20 teeth 53 teeth 265:1	I .	
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	14.5-18 22-25.5 72.5 72.5 14.5-18 20 teeth 53 teeth 265:1 5 12 teeth 44 teeth	I .	
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	14.5-18 22-25.5 72.5 72.5 14.5-18 20 teeth 53 teeth 265:1 5 12 teeth	I .	
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	14.5-18 22-25.5 72.5 72.5 14.5-18 20 teeth 53 teeth 265:1 5 12 teeth 44 teeth	I .	
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	14.5-18 22-25.5 72.5 72.5 14.5-18 20 teeth 53 teeth 265:1 5 12 teeth 44 teeth 5/8 x ½ (520)	I .	
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 GEAR BOX RATIOS	14.5-18 22-25.5 72.5 72.5 14.5-18 20 teeth 53 teeth 265:1 5 12 teeth 44 teeth 5/8 x ½ (520) Primy. Secy. Ratio	I .	
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 GEAR BOX RATIOS 1st	14.5-18 22-25.5 72.5 72.5 14.5-18 20 teeth 53 teeth 265:1 5 12 teeth 44 teeth 5/8 x ½ (520) Primy. Secy. Ratio 11 25 2.272	I .	
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 GEAR BOX RATIOS 1st 2nd	14.5-18 22-25.5 72.5 72.5 72.5 14.5-18 20 teeth 53 teeth 265:1 5 12 teeth 44 teeth 5/8 x ½ (520) Primy. Secy. Ratio 11 25 2.272 14 22 1.571	I .	
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 GEAR BOX RATIOS 1st 2nd 3rd	14.5-18 22-25.5 72.5 72.5 72.5 14.5-18 20 teeth 53 teeth 265:1 5 12 teeth 44 teeth 5/8 x ½ (520) Primy. Secy. Ratio 11 25 2.272 14 22 1.571 17 20 1.176	I .	
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 GEAR BOX RATIOS 1st 2nd 3rd 4th	14.5-18 22-25.5 72.5 72.5 72.5 14.5-18 20 teeth 53 teeth 265:1 5 12 teeth 44 teeth 5/8 x ½ (520) Primy. Secy. Ratio 11 25 2.272 14 22 1.571 17 20 1.176 19 17 .084	I .	
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 GEAR BOX RATIOS 1st 2nd 3rd 4th 5th	14.5-18 22-25.5 72.5 72.5 72.5 14.5-18 20 teeth 53 teeth 265:1 5 12 teeth 44 teeth 5/8 x ½ (520) Primy. Secy. Ratio 11 25 2.272 14 22 1.571 17 20 1.176	I .	
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 GEAR BOX RATIOS 1st 2nd 3rd 4th	14.5-18 22-25.5 72.5 72.5 72.5 14.5-18 20 teeth 53 teeth 265:1 5 12 teeth 44 teeth 5/8 x ½ (520) Primy. Secy. Ratio 11 25 2.272 14 22 1.571 17 20 1.176 19 17 .084	I .	
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 GEAR BOX RATIOS 1st 2nd 3rd 4th 5th	14.5-18 22-25.5 72.5 72.5 72.5 14.5-18 20 teeth 53 teeth 265:1 5 12 teeth 44 teeth 5/8 x ½ (520) Primy. Secy. Ratio 11 25 2.272 14 22 1.571 17 20 1.176 19 17 .084	I .	

MODEL NUMBER: 38 M

ENGINE		MHEETS	
2 CYCLE	1	FROM RIN	WM1-21
NUMB. CYLINDER	54~54	REAR RIM	WM3 - 1 3
BORE - STROKE	123.7cc	TIRE SIZE FRONT	300x21
PISPLACEMENT COMPRESSION RATIO	16:1.	REAR TIRE	400x18
COMPRESSION RATIO		SPOKE DIMENSIONS	10)7 5-004
INGITION	Motoplat 9600915-1	FRONT (LEFT)	18) 3.5x224
7.NGT1TON	l motopant south s	FRONT (RIGHT) REAF (LEFT)	18)3.5x238 18)4x208
POINT GAP	.	REAR (RIGHT)	9)4x182
IGN. TIMING	2mm (.078") BTDC	REAR (RIGHT)	9)4x186
	(20° over flywheel)	name (as out)	5) 17.200
SPARK PLUG SIZE	14mm x ½	SPECIFICATIONS	
PLUG GAP		Accordance of the Control of the Con	
RECOMMENDED PLUG	Champion N-57R	DRY WEIGHT	196 lbs.
	NGK E-10NP	FUEL CAPACITY	1.7 gal.
CARBURETOP TYPE	Bing 11000-8 (54)	WHEELBASE	33 N
DIAMETER	32mm	SEAT HEIGHT	35.4
MAIN JET	150	OVERALL LENGTH	33"
LOW SPEED JET	40-80		
GAS VALVE	0	ENGINE LUBRICATION	
SPRAYER	6.5 x 1.5	Service Co., service on indigent community and are a property of the control of t	
NEEDLE		FUEL OIL MIXTURE	43 SAE 40
	0.50 (0.000.00)	İ	. c h i n o d
PISTON-CYL. CLEAR.	.058mm (.0022")	TRANSMISSION	combined
TANKSHAFT CLEAR.	.03mm (.0012")	CLUTCH PRIMARY	30.5oz. SAE 10w 30 SAE 40 as needed
		SWING ARM	7.4oz. Hidrol 10
TORQUE SPEC. (FT/LB)		FRONT SUSPENSION	7.402. MILLION 10
CVI INDED NUT	14.5-18		
CYLINDER NUT CYLINDER HEAD NUT	22-25.5		
CK/SHFT PINION NUT	58		
MAGNETO NUT	51		
CLUTCH NUT	14.5-18] ! !
C BOT CIT. NO.			
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	$5/8 \times \frac{1}{4} (520)$		}
	Primy. Secy. Ratio		
GEAR BOX RATIOS			À
1st	14 31 2.215		
2nd	17 30 1.764		1
3rd	19 27 1.421 21 24 1.14?		j
4th	21 24 1.14? 23 22 .956	1	
5th 6+h	26 21 .807		
, - 11	20 21 .007		[]
1			

		<u> </u>	,
ENGINE	·	WHEELS	
2.01.12			
2 CYCLE		FRONT RIM	WM1-21
NUMB. CYLINDER	1	REAR RIM	WM3-18
BORE-STROKE	54-54	TIRE SIZE FRONT	300x18
DISPLACEMENT	123.2cc	REAR TIRE	400x18
COMPRESSION RATIO	17:5.1	SPOKE DIMENSIONS	
		FRONT (LEFT)	18)3.5x221
INGITION	Motoplat 9600915-1	FRONT (RIGHT)	18)3.5x234
		REAR (LEFT)	18)4x208
POINT GAP		REAR (RIGHT)	9)4x192
IGN. TIMING	2mm (.078") BTDC	REAR (RIGHT)	9)4x185
	(20° over flywheel)	t	
SPARK PLUG SIZE	14mm x ½	SPECIFICATIONS	
PLUG GAP	.02"		
RECOMMENDED PLUG	Champ N-54R	DRY WEIGHT	1961bs.
	NGK B-10NP	FUEL CAPACITY	1.7 gal.
CARBURETOR TYPE	Bing 11623/0	WHEELBASE	55.1 "
DIAMETER	36mm	SEAT HEIGHT	35.4"
MAIN JET	155	OVERALL LENGTH	82.7"
LOW SPEED JET	40-80		
GAS VALVE	0	ENGINE LUBRICATION	
SPRAYER	6.5 x 1.5		
NEEDLE	#3	FUEL OIL MIXTURE	4% SAE 40
	050- (00224)		70 5 -
PISTON-CYL. CLEAR.	.058mm (.0022")	TRANSMISSION	30.5oz. SAE 10w 30
CRANKSHAFT CLEAR.	.03mm (.0012")	CLUTCH PRIMARY	GAT 40 1-1
		SWING ARM	SAE 40 as needed 8.3oz. Hidralex 4
TORQUE SPEC. (FT/LB))	FRONT SUSPENSION	8.302. Hidralex 4
CVI TUDED NUM	14.5-18		
CYLINDER NUT	22-25.5	Ì	
CYLINDER HEAD NUT	57.7	1	
CK/SHFT PINION NUT	50.7		
MAGNETO NUT	14.5-18		
CLUTCH NUT			
PRIMARY DRIVE			
CRANKSHAFT PINION	19 teeth	1	
		1	
I CINTCU CEAD	65 teeth		
CLUTCH GEAR	65 teeth 3.421		
PRIMARY RATIO	1		
PRIMARY RATIO GEARBOX SPEEDS	3.421		
PRIMARY RATIO GEARBOX SPEEDS COUTSHAFT SPROCKET	3.421 6 12 teeth 56 teeth		
PRIMARY RATIO GEARBOX SPEEDS COUTSHAFT SPROCKET REAR SPROCKET	3.421 6 12 teeth		
PRIMARY RATIO GEARBOX SPEEDS COUTSHAFT SPROCKET	3.421 6 12 teeth 56 teeth 5/8 x 4 (520)		
PRIMARY RATIO GEARBOX SPEEDS COUTSHAFT SPROCKET REAR SPROCKET CHAIN SIZE	3.421 6 12 teeth 56 teeth 5/8 x 4 (520) Primy. Secy. Ratio		
PRIMARY RATIO GEARBOX SPEEDS COUTSHAFT SPROCKET REAR SPROCKET	3.421 6 12 teeth 56 teeth 5/8 x 4 (520) Primy. Secy. Ratio 14 31 2.215		
PRIMARY RATIO GEARBOX SPEEDS COUTSHAFT SPROCKET REAR SPROCKET CHAIN SIZE GEAR BOX RATIOS	3.421 6 12 teeth 56 teeth 5/8 x 4 (520) Primy. Secy. Ratio 14 31 2.215 17 30 1.764		
PRIMARY RATIO GEARBOX SPEEDS COUTSHAFT SPROCKET REAR SPROCKET CHAIN SIZE GEAR BOX RATIOS 1st	3.421 6 12 teeth 56 teeth 5/8 x ¹ ₄ (520) Primy. Secy. Ratio 14 31 2.215 17 30 1.764 19 27 1.421		
PRIMARY RATIO GEARBOX SPEEDS COUTSHAFT SPROCKET REAR SPROCKET CHAIN SIZE GEAR BOX RATIOS 1st 2nd	3.421 6 12 teeth 56 teeth 5/8 x ½ (520) Primy. Secy. Ratio 14 31 2.215 17 30 1.764 19 27 1.421 21 24 1.142		
PRIMARY RATIO GEARBOX SPEEDS COUTSHAFT SPROCKET REAR SPROCKET CHAIN SIZE GEAR BOX RATIOS 1st 2nd 3rd	3.421 6 12 teeth 56 teeth 5/8 x 4 (520) Primy. Secy. Ratio 14 31 2.215 17 30 1.764 19 27 1.421 21 24 1.142 23 22 .956		
PRIMARY RATIO GEARBOX SPEEDS COUTSHAFT SPROCKET REAR SPROCKET CHAIN SIZE GEAR BOX RATIOS 1st 2nd 3rd 4th	3.421 6 12 teeth 56 teeth 5/8 x ½ (520) Primy. Secy. Ratio 14 31 2.215 17 30 1.764 19 27 1.421 21 24 1.142		
PRIMARY RATIO GEARBOX SPEEDS COUTSHAFT SPROCKET REAR SPROCKET CHAIN SIZE GEAR BOX RATIOS 1st 2nd 3rd 4th 5th	3.421 6 12 teeth 56 teeth 5/8 x 4 (520) Primy. Secy. Ratio 14 31 2.215 17 30 1.764 19 27 1.421 21 24 1.142 23 22 .956		

MODEL:

43M

MODEL NUMBER:

			
ENGINE		WHEELS	
			WM2-21
CYCLE	1	FRONT RIM	WM3-18
NUMB. CYLINDER	72.5-60	REAR RIM	T. C.
BORE-STROKE		TIRE SIZE FRONT	300x21
DISPLACEMENT	247.69cc	REAR TIRE	400x18
COMPRESSION RATIO	13:1	SPOKE DIMENSIONS	· • • • • • • • • • • • • • • • • • • •
	Watanlat 0600304	FRONT (LEFT)	7634 102
INGITION	Motoplat 9600204	FRONT (RIGHT)	36)4x192
	·	REAR (LEFT)	
POINT GAP		REAR (RIGHT)	36)4x156
IGN. TIMING	4mm (.157") BTDC	REAR (RIGHT)	
	(23.50 over flywheel		i
SPARK PLUG SIZE	14mm x ½	SPECIFICATIONS	
PLUG GAP			
RECOMMENDED PLUG	Champion L-57R	DRY WEIGHT	
		FUEL CAPACITY	
CARBURETOR TYPE	Amal 389-B/32 MC	WHEELBASE	
DIAMETER	32	SEAT HEIGHT	
MAIN JET	290	OVERALL LENGTH	
LOW SPEED JET	45	STERRED BEHOLII	
GAS VALVE	3.5	ENGINE LUBRICATION	
SPRAYER		ENGINE EUDRICATION	
NEEDLE	DA (Jet Holder 106A	FUEL OIL MIXTURE	4% SAE 40
NEEDLE		FOEL OIL MIXIORE	·
PISTON-CYL. CLEAR.	.0039"	TRANSMISSION	11oz. SAE 40
CRANKSHAFT CLEAR.	.0004	CLUTCH PRIMARY	10oz. SAE 30
		I CLUICH PRIMARI	
TANKSHAFI CELAK.			· i
		SWING ARM	6½0z. SAE 20
TORQUE SPEC. (FT/LB)			6½0z. SAE 20
TORQUE SPEC. (FT/LB)		SWING ARM	6½oz. SAE 20
TORQUE SPEC. (FT/LB)	11-15	SWING ARM	6½0z. SAE 20
TORQUE SPEC. (FT/LB) CYLINDER NUT CYLINDER HEAD NUT	11-15 21-25	SWING ARM	6½0z. SAE 20
TORQUE SPEC. (FT/LB) CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT	11-15 21-25 72	SWING ARM	6½0z. SAE 20
TORQUE SPEC. (FT/LB) CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT	11-15 21-25 72 72	SWING ARM	6½0z. SAE 20
TORQUE SPEC. (FT/LB) CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT	11-15 21-25 72	SWING ARM	6½0z. SAE 20
TORQUE SPEC. (FT/LB) CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT	11-15 21-25 72 72	SWING ARM	6½0z. SAE 20
TORQUE SPEC. (FT/LB) CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE	11-15 21-25 72 72 15-18	SWING ARM	6½0z. SAE 20
TORQUE SPEC. (FT/LB) CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION	11-15 21-25 72 72 15-18	SWING ARM	6½0z. SAE 20
TORQUE SPEC. (FT/LB) CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR	11-15 21-25 72 72 15-18 23 teeth 61 teeth	SWING ARM	6½0z. SAE 20
TORQUE SPEC. (FT/LB) CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR PRIMARY RATIO	11-15 21-25 72 72 15-18 23 teeth 61 teeth 2.65:1	SWING ARM	6½0z. SAE 20
TORQUE SPEC. (FT/LB) CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR PRIMARY RATIO GEARBOX SPEEDS	11-15 21-25 72 72 15-18 23 teeth 61 teeth 2.65:1	SWING ARM	6½0z. SAE 20
TORQUE SPEC. (FT/LB) 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	11-15 21-25 72 72 15-18 23 teeth 61 teeth 2.65:1 5 12 teeth	SWING ARM	6½0z. SAE 20
TORQUE SPEC. (FT/LB) 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	11-15 21-25 72 72 15-18 23 teeth 61 teeth 2.65:1 5 12 teeth 52 teeth	SWING ARM	6½0z. SAE 20
TORQUE SPEC. (FT/LB) 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	11-15 21-25 72 72 15-18 23 teeth 61 teeth 2.65:1 5 12 teeth	SWING ARM	6½0z. SAE 20
TORQUE SPEC. (FT/LB) 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	11-15 21-25 72 72 15-18 23 teeth 61 teeth 2.65:1 5 12 teeth 52 teeth 5/8 x ¼ (520)	SWING ARM	6½0z. SAE 20
TORQUE SPEC. (FT/LB) 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 GEAR BOX RATIOS	11-15 21-25 72 72 15-18 23 teeth 61 teeth 2.65:1 5 12 teeth 52 teeth 5/8 x 4 (520) Primy. Secy. Ratio	SWING ARM	6½0z. SAE 20
TORQUE SPEC. (FT/LB) 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 GEAR BOX RATIOS 1st	11-15 21-25 72 72 15-18 23 teeth 61 teeth 2.65:1 5 12 teeth 52 teeth 5/8 x ¼ (520) Primy. Secy. Ratio 12 24 2	SWING ARM	6½0z. SAE 20
TORQUE SPEC. (FT/LB) 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 GEAR BOX RATIOS 1st 2nd	11-15 21-25 72 72 15-18 23 teeth 61 teeth 2.65:1 5 12 teeth 52 teeth 5/8 x ½ (520) Primy. Secy. Ratio 12 24 2 15 22 1.46	SWING ARM	6½0z. SAE 20
TORQUE SPEC. (FT/LB) 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 GEAR BOX RATIOS 1st 2nd 3rd	11-15 21-25 72 72 15-18 23 teeth 61 teeth 2.65:1 5 12 teeth 52 teeth 5/8 x ¼ (520) Primy. Secy. Ratio 12 24 2	SWING ARM	6½0z. SAE 20
TORQUE SPEC. (FT/LB) 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 GEAR BOX RATIOS 1st 2nd 3rd 4th	11-15 21-25 72 72 15-18 23 teeth 61 teeth 2.65:1 5 12 teeth 52 teeth 5/8 x ½ (520) Primy. Secy. Ratio 12 24 2 15 22 1.46	SWING ARM	6½0z. SAE 20
TORQUE SPEC. (FT/LB) 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 GEAR BOX RATIOS 1st 2nd 3rd	11-15 21-25 72 72 15-18 23 teeth 61 teeth 2.65:1 5 12 teeth 5/8 x \(\frac{1}{4} \) (520) Primy. Secy. Ratio 12 24 2 15 22 1.46 17 20 1.17	SWING ARM	6½0z. SAE 20
TORQUE SPEC. (FT/LB) 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 GEAR BOX RATIOS 1st 2nd 3rd 4th	11-15 21-25 72 72 15-18 23 teeth 61 teeth 2.65:1 5 12 teeth 5/8 x ¹ / ₄ (520) Primy. Secy. Ratio 12 24 2 15 22 1.46 17 20 1.17 19 18 .94	SWING ARM	6½0z. SAE 20
TORQUE SPEC. (FT/LB) 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 GEAR BOX RATIOS 1st 2nd 3rd 4th 5th	11-15 21-25 72 72 15-18 23 teeth 61 teeth 2.65:1 5 12 teeth 5/8 x ¹ / ₄ (520) Primy. Secy. Ratio 12 24 2 15 22 1.46 17 20 1.17 19 18 .94	SWING ARM	6½0z. SAE 20
TORQUE SPEC. (FT/LB) 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 GEAR BOX RATIOS 1st 2nd 3rd 4th 5th	11-15 21-25 72 72 15-18 23 teeth 61 teeth 2.65:1 5 12 teeth 5/8 x ¹ / ₄ (520) Primy. Secy. Ratio 12 24 2 15 22 1.46 17 20 1.17 19 18 .94	SWING ARM	6½0z. SAE 20

MODEL:	N NOTONIA	MODEL NUMBER: 441	
ENGINE		WHEELS	
2 CYCLE		FRONT RIM	WM1-21
NUMB. CYLINDER	1	REAR RIM	WM2-18
BORE - STROKE	70-64	TIRE SIZE FRONT	275/300x21
	246.3cc	REAR TIRE	400x18
DISPLACEMENT	10:1	SPOKE DIMENSIONS	400x16
COMPRESSION RATIO	10.1		1937 5-224
	Motoplat 9600590	FRONT (LEFT)	18)3.5x224
INGITION	Motopiat 9000390	FRONT (RIGHT)	18)3.5x238
		REAR (LEFT)	18)4x224
POINT GAP	7 (110H) PERC	REAR (RIGHT)	9)4x206
IGN. TIMING	3mm (.118") BTDC	REAR (RIGHT)	9)4x200
	(22° over flywheel)	·	
SPARK PLUG SIZE	14mm x 3	SPECIFICATIONS	
PLUG GAP	.020"		
RECOMMENDED PLUG	Champion N-3	DRY WEIGHT	242 1bs.
	NGK B-7E	FUEL CAPACITY	2.5 gal.
CARBURETOR TYPE	Bing 11500-32	WHEELBASE	56"
DIAMETER	32mm	SEAT HEIGHT	36"
MAIN JET	148	OVERALL LENGTH	84"
LOW SPEED JET	40	OVERABE EERGIII	
	4	ENGINE LUBRICATION	
GAS VALVE	6.5 x 1.5	ENGINE LUBRICATION	
SPRAYER	0.3 X 1.3	FUEL OIL MENEUDE	Automix SAE 40
NEEDLE	**.	FUEL OIL MIXTURE	Automix SAE 40
PISTON-CYL. CLEAR. CRANKSHAFT CLEAR.	.03mm (.0012")	TRANSMISSION CLUTCH PRIMARY SWING ARM FRONT SUSPENSION	11oz. SAE 90 10oz. SAE 10w 30 SAE 40 as needed 6 3/4oz. SAE 30
TORQUE SPEC. (FT/LB)	1	I KONI SOSI ENSION	0 3/402. SRL 30
CYLINDER NUT	14.5-18		
CYLINDER HEAD NUT	25.5-29		
CK/SHFT PINION NUT	72.5		
MAGNETO NUT	72.5		
	14.5-18		
CLUTCH NUT			
DD 744 DV DD 744 D			
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	,		
CHAIN SIZE	$5/8 \times \frac{1}{4} (520)$		
	Deimu Cons Datis		
GEAR BOX RATIOS	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	
ENGINE		WHEELS	
ENGINE 2 CYCLE NUMB. CYLINDER BORE-STROKE DISPLACEMENT COMPRESSION RATIO INGITION POINT GAP IGN. TIMING SPARK PLUG SIZE PLUG GAP RECOMMENDED PLUG CARBURETOR TYPE DIAMETER MAIN JET LOW SPEED JET GAS VALVE SPRAYER NEEDLE PISTON-CYL. CLEAR. RANKSHAFT CLEAR. TORQUE SPEC. (FT/LB) CYLINDER NUT CYLINDER NUT CK/SHFT PINION NUT	1 70-64 246.3cc 12:1 Motoplat 9600590 3mm (.118") BTDC (22° over flywheel) 14mm x 3/4 0.5mm (.02") Champion N-3 NGK B-7E Bing 11500 32mm 148 40 4 6.5 x 1.5 .06mm (.0024") .03mm (.0012") 14.5-18 255-29 72.5 72.5	FRONT RIM REAR RIM TIRE SIZE FRONT REAR TIRE SPOKE DIMENSIONS FRONT (LEFT) FRONT (RIGHT) REAR (LEFT) REAR (RIGHT) REAR (RIGHT) SPECIFICATIONS DRY WEIGHT FUEL CAPACITY WHEELBASE SEAT HEIGHT OVERALL LENGTH ENGINE LUBRICATION FUEL OIL MIXTURE TRANSMISSION CLUTCH PRIMARY SWING ARM FRONT SUSPENSION	WM2-19 WM3-18 325x19 400x18 18)3.5x224 18)3.5x238 18)4x224 9)4x206 9)4x200 242 lbs. 2.5 gal. 56" 36" 84" Automix SAE 40 11oz. SAE 90 10oz. SAE 10w 30 SAE 40 as needed 6 3/4oz. SAE 30
MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR PRIMARY RATIO GEARBOX SPEEDS COUTSHAFT SPROCKET REAR SPROCKET CHAIN SIZE GEAR BOX RATIOS 1st 2nd 3rd 4th 5th	20 teeth 53 teeth 2.650 5 13 teeth 48 teeth 5/8 x 4 Primy. Secy. Ratio 10 26 2.600 13 21 1.615 17 19 1.117 18 15 .833 22 15 0.681		

parallel in the contract and a second			
ENGINE	·	WHEELS	
2 67615		EDONE DIM	WW 2 10
2 CYCLE NUMB. CYLINDER	1	FRONT RIM REAR RIM	WM2-19 WM3-18
BORE-STROKE	78-73.5	TIRE SIZE FRONT	350x19
DISPLACEMENT	351.2cc	REAR TIRE	400x18
COMPRESSION RATIO	11:1	SPOKE DIMENSIONS	400X16
COMPRESSION RATIO		FRONT (LEFT)	**
INGITION	Motoplat 9600204	FRONT (RIGHT)	36)4x192
INGITION	Notopido socolo:	REAR (LEFT)	
POINT GAP	,015"	REAR (RIGHT)	36)4x156
IGN. TIMING	4mm (.157") BTDC	REAR (RIGHT)	:
	(23.50 over flywheel		
SPARK PLUG SIZE	14mm x 3/4	SPECIFICATIONS	$\label{eq:continuous} \mathcal{A}_{ij} = \{ (i,j) \mid i \in \mathcal{A}_{ij} = \{ (i,j) $
PLUG GAP			
RECOMMENDED PLUG	Champion N-57R	DRY WEIGHT	231 lbs.
		FUEL CAPACITY	3.5 gal.
CARBURETOR TYPE	Ama1 389-B/32MC	WHEELBASE	55"
DIAMETER	32mm	SEAT HEIGHT	31" 81.5"
MAIN JET	280-300	OVERALL LENGTH	01.5
LOW SPEED JET	3,5		
GAS VALVE	6.5x1.5	ENGINE LUBRICATION	
SPRAYER	DA (Jet Holder 106-A	FUEL OIL WINTER	4% SAE 40
NEEDLE	DA (See Horder 100-)	FUEL OIL MIXIURE	70 3.12 40
PISTON-CYL. CLEAR.	.065mm (.00334")	TRANSMISSION	11oz. SAE 40
CRANKSHAFT CLEAR.	.03mm (.0012")	CLUTCH PRIMARY	10oz. SAE 20
CRANKSHAFI CELAK.			
		SWING ARM FRONT SUSPENSION	5 3/4oz. SAE 20
TORQUE SPEC. (FT/LB		SWING ARM	5 3/4oz. SAE 20
	11-15	SWING ARM	5 3/4oz. SAE 20
TORQUE SPEC. (FT/LB CYLINDER NUT CYLINDER HEAD NUT	11-15 11-15	SWING ARM	5 3/4oz. SAE 20
TORQUE SPEC. (FT/LB CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT	11-15 11-15 58	SWING ARM	5 3/4oz. SAE 20
TORQUE SPEC. (FT/LB CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT	11-15 11-15	SWING ARM	5 3/4oz. SAE 20
TORQUE SPEC. (FT/LB CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT	11-15 11-15 58	SWING ARM	5 3/4oz. SAE 20
TORQUE SPEC. (FT/LB CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT	11-15 11-15 58	SWING ARM	5 3/4oz. SAE 20
TORQUE SPEC. (FT/LB CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE	11-15 11-15 58 65.3	SWING ARM	5 3/4oz. SAE 20
TORQUE SPEC. (FT/LB CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION	11-15 11-15 58 65.3	SWING ARM	5 3/4oz. SAE 20
TORQUE SPEC. (FT/LB CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR	11-15 11-15 58 65.3	SWING ARM	5 3/4oz. SAE 20
TORQUE SPEC. (FT/LB CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR PRIMARY RATIO	11-15 11-15 58 65.3 34 teeth 61 teeth	SWING ARM	5 3/4oz. SAE 20
TORQUE SPEC. (FT/LB CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR PRIMARY RATIO GEARBOX SPEEDS	11-15 11-15 58 65.3 34 teeth 61 teeth 1.79:1	SWING ARM	5 3/4oz. SAE 20
TORQUE SPEC. (FT/LB 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	11-15 11-15 58 65.3 34 teeth 61 teeth 1.79:1 4 11 teeth 44 teeth	SWING ARM	5 3/4oz. SAE 20
TORQUE SPEC. (FT/LB 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	11-15 11-15 58 65.3 34 teeth 61 teeth 1.79:1 4 11 teeth	SWING ARM	5 3/4oz. SAE 20
TORQUE SPEC. (FT/LB 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	11-15 11-15 58 65.3 34 teeth 61 teeth 1.79:1 4 11 teeth 44 teeth 5/8 x ½ (520)	SWING ARM	5 3/4oz. SAE 20
TORQUE SPEC. (FT/LB 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	11-15 11-15 58 65.3 34 teeth 61 teeth 1.79:1 4 11 teeth 44 teeth 5/8 x ½ (520) Primy. Secy. Ratio	SWING ARM	5 3/4oz. SAE 20
TORQUE SPEC. (FT/LB 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 GEAR BOX RATIOS 1st	11-15 11-15 58 65.3 34 teeth 61 teeth 1.79:1 4 11 teeth 44 teeth 5/8 x ½ (520) Primy. Secy. Ratio 12 24 2	SWING ARM	5 3/4oz. SAE 20
TORQUE SPEC. (FT/LB 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 GEAR BOX RATIOS 1st 2nd	11-15 11-15 58 65.3 34 teeth 61 teeth 1.79:1 4 11 teeth 44 teeth 5/8 x ½ (520) Primy. Secy. Ratio 12 24 2 15 22 1.46	SWING ARM	5 3/4oz. SAE 20
TORQUE SPEC. (FT/LB 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 GEAR BOX RATIOS 1st 2nd 3rd	11-15 11-15 58 65.3 34 teeth 61 teeth 1.79:1 4 11 teeth 44 teeth 5/8 x ½ (520) Primy. Secy. Ratio 12 24 2 15 22 1.46 17 20 1.17	SWING ARM	5 3/4oz. SAE 20
TORQUE SPEC. (FT/LB 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 GEAR BOX RATIOS 1st 2nd 3rd 4th	11-15 11-15 58 65.3 34 teeth 61 teeth 1.79:1 4 11 teeth 44 teeth 5/8 x ½ (520) Primy. Secy. Ratio 12 24 2 15 22 1.46	SWING ARM	5 3/4oz. SAE 20
TORQUE SPEC. (FT/LB 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 GEAR BOX RATIOS 1st 2nd 3rd 4th 5th	11-15 11-15 58 65.3 34 teeth 61 teeth 1.79:1 4 11 teeth 44 teeth 5/8 x ½ (520) Primy. Secy. Ratio 12 24 2 15 22 1.46 17 20 1.17	SWING ARM	5 3/4oz. SAE 20
TORQUE SPEC. (FT/LB 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 GEAR BOX RATIOS 1st 2nd 3rd 4th	11-15 11-15 58 65.3 34 teeth 61 teeth 1.79:1 4 11 teeth 44 teeth 5/8 x ½ (520) Primy. Secy. Ratio 12 24 2 15 22 1.46 17 20 1.17	SWING ARM	5 3/4oz. SAE 20
TORQUE SPEC. (FT/LB 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 GEAR BOX RATIOS 1st 2nd 3rd 4th 5th	11-15 11-15 58 65.3 34 teeth 61 teeth 1.79:1 4 11 teeth 44 teeth 5/8 x ½ (520) Primy. Secy. Ratio 12 24 2 15 22 1.46 17 20 1.17	SWING ARM	5 3/4oz. SAE 20

MODEL NUMBER:50MC

(ODEL)		HODEL MONDEK : 2014C		
ENGINE		WHEELS		
Z CYCLE NUMB. CYLINDER BORE-STROKE DISPLACEMENT COMPRESSION RATIO	1 38-43 48.7cc	FRONT RIM REAR RIM TIRE SIZE FRONT REAR TIRE SPOKE DIMENSIONS	45mm x 16" 50mm x 15" 2" x 16" 2½" x 15"	
INGITION	Motoplat 9600054	FRONT (LEFT) FRONT (RIGHT) REAR (LEFT)	36)3x150	
POINT GAP IGN. TIMING	.016" 2.5mm (.097") BTDC	REAR (RIGHT) REAR (RIGHT)	36)3x158	
SPARK PLUG SIZE PLUG GAP RECOMMENDED PLUG CARBURETOR TYPE DIAMETER MAIN JET LOW SPEED JET GAS VALVE SPRAYER NEEDLE PISTON-CYL. CLEAR. TORQUE SPEC. (FT/LB) CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT	14mm x ½ .016018" Champion L-8 NGK B-7H Dellorto SHA/14-14 14mm 62 1.20/.75 .03mm .03mm	DRY WEIGHT FUEL CAPACITY WHEELBASE SEAT HEIGHT OVERALL LENGTH ENGINE LUBRICATION FUEL OIL MIXTURE TRANSMISSION CLUTCH PRIMARY SWING ARM FRONT SUSPENSION	110 lbs53 gal. 37" 19" 59"	
MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR PRIMARY RATIO GEARBOX SPEEDS COUTSHAFT SPROCKET REAR SPROCKET CHAIN SIZE GEAR BOX RATIOS 1st 2nd 3rd 4th 5th 6th	10 teeth 24 teeth 2.4 3 13 teeth 45 teeth ½ x 5/16 (420) Primy. Secy. Ratio 12 70 5.833 17 65 3.823 25 57 2.280			
			:	

ENGINE		WHEELS	
2 CYCLE		FRONT RIM	WM1-21
NUMB. CYLINDER	1	REAR RIM	WM2-18
BORE-STROKE	78-64	TIRE SIZE FRONT	275-21
	305.8cc		400-18
DISPLACEMENT	9:1	REAR TIRE	400-10
COMPRESSION RATIO		SPOKE DIMENSIONS	
<u>'</u>	Motoplat 9600456	FRONT (LEFT)	36)3.5x231
INGITION	Motopiat 3000430	FRONT (RIGHT)	30)3.3231
	.0157"	REAR (LEFT)	36)3.5x194
POINT GAP	1.8mm (.072") BTDC	REAR (RIGHT)	o o you can be
IGN. TIMING	17½° over flywheel	REAR (RIGHT)	
	14mmx19		
SPARK PLUG SIZE	.0216"	SPECIFICATIONS	
PLUG GAP	Champion N-12Y		196 lbs.
RECOMMENDED PLUG	Champion N-121	DRY WEIGHT	1.32 gal.
	Ama 1 2626/402	FUEL CAPACITY	51.5"
CARBURETOR TYPE	Amal 2626/402 27mm	WHEELBASE	31.7"
DIAMETER	145	SEAT HEIGHT	79.5"
MAIN JET	20	OVERALL LENGTH	19.5
LOW SPEED JET	3.5		
GAS VALVE		ENGINE LUBRICATION	
SPRAYER	107		4% SAE 40
NEEDLE	U3	FUEL OIL MIXTURE	4% SAE 40
	.03mm (,0012")		10oz. SAE 90
PISTON-CYL. CLEAR.	.03mm (.0012")	TRANSMISSION	6 3/40x.SAE 10w 30
CRANKSHAFT CLEAR.	1.03mm (.0012")	CLUTCH PRIMARY	0 37 402.3AL 10W 30
4	I '	2	
		SWING ARM	6k07 Hidro1-4
TORQUE SPEC. (FT/LB)		2	6½0z. Hidro1-4
	 	SWING ARM	6½0z. Hidrol-4
CYLINDER NUT	14.5-18	SWING ARM	6½0z. Hidro1-4
CYLINDER NUT CYLINDER HEAD NUT	14.5-18 22-25.5	SWING ARM	6½oz. Hidro1-4
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT	14.5-18 22-25.5 58	SWING ARM	6½0z. Hidro1-4
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT	14.5-18 22-25.5 58 65.3	SWING ARM	6½0z. Hidro1-4
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT	14.5-18 22-25.5 58	SWING ARM	6½0z. Hidro1-4
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT	14.5-18 22-25.5 58 65.3	SWING ARM	6½oz. Hidro1-4
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE	14.5-18 22-25.5 58 65.3 14.5-18	SWING ARM	6½oz. Hidro1-4
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION	14.5-18 22-25.5 58 65.3 14.5-18	SWING ARM	6½oz. Hidro1-4
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR	14.5-18 22-25.5 58 65.3 14.5-18	SWING ARM	6½0z. Hidro1-4
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR PRIMARY RATIO	14.5-18 22-25.5 58 65.3 14.5-18	SWING ARM	6½0z. Hidro1-4
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR PRIMARY RATIO GEARBOX SPEEDS	14.5-18 22-25.5 58 65.3 14.5-18	SWING ARM	6½0z. Hidro1-4
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	14.5-18 22-25.5 58 65.3 14.5-18 20 64 3.20 6 10teeth	SWING ARM	6½0z. Hidro1-4
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	14.5-18 22-25.5 58 65.3 14.5-18 20 64 3.20 6 10teeth 33teeth	SWING ARM	6½0z. Hidro1-4
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	14.5-18 22-25.5 58 65.3 14.5-18 20 64 3.20 6 10teeth	SWING ARM	6½0z. Hidro1-4
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	14.5-18 22-25.5 58 65.3 14.5-18 20 64 3.20 6 10teeth 33teeth 5/8 x ½	SWING ARM FRONT SUSPENSION	6½oz. Hidro1-4
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 GEAR BOX RATIOS	14.5-18 22-25.5 58 65.3 14.5-18 20 64 3.20 6 10teeth 33teeth 5/8 x ¹ / ₄ Primy. Sec y.	SWING ARM FRONT SUSPENSION Ratio	6½oz. Hidro1-4
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 GEAR BOX RATIOS 1st	14.5-18 22-25.5 58 65.3 14.5-18 20 64 3.20 6 10teeth 33teeth 5/8 x ¹ / ₄ Primy. Secy. 16-18-11 21-23-23	Ratio 3.506	6½oz. Hidro1-4
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 GEAR BOX RATIOS 1st 2nd	14.5-18 22-25.5 58 65.3 14.5-18 20 64 3.20 6 10teeth 33teeth 5/8 x ¹ / ₄ Primy.	Ratio 3.506 2.820	6½oz. Hidro1-4
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 GEAR BOX RATIOS 1st 2nd 3rd	14.5-18 22-25.5 58 65.3 14.5-18 20 64 3.20 6 10teeth 33teeth 5/8 x ¹ / ₄ Primy.	Ratio 3.506 2.820 1.908	6½oz. Hidro1-4
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 GEAR BOX RATIOS 1st 2nd 3rd 4th	14.5-18 22-25.5 58 65.3 14.5-18 20 64 3.20 6 10teeth 33teeth 5/8 x ½ Primy. 16-18-11 21-23-23 18-18-11 19-23-23 21-18-11 15-23-23 21	Ratio 3.506 2.820 1.908 1.312	6½oz. Hidro1-4
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 GEAR BOX RATIOS 1st 2nd 3rd 4th 5th	14.5-18 22-25.5 58 65.3 14.5-18 20 64 3.20 6 10teeth 33teeth 5/8 x	Ratio 3.506 2.820 1.908 1.312 1.055	6½oz. Hidro1-4
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 GEAR BOX RATIOS 1st 2nd 3rd 4th	14.5-18 22-25.5 58 65.3 14.5-18 20 64 3.20 6 10teeth 33teeth 5/8 x ½ Primy. 16-18-11 21-23-23 18-18-11 19-23-23 21-18-11 15-23-23 21	Ratio 3.506 2.820 1.908 1.312	6½oz. Hidro1-4
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 GEAR BOX RATIOS 1st 2nd 3rd 4th 5th	14.5-18 22-25.5 58 65.3 14.5-18 20 64 3.20 6 10teeth 33teeth 5/8 x	Ratio 3.506 2.820 1.908 1.312 1.055	6½oz. Hidro1-4

			
ENGINE		WHEELS	
	·		
∠ CYCLE		FRONT RIM	WM1-21
NUMB. CYLINDER	1	REAR RIM	WM2-18
BORE-STROKE	70-64	TIRE SIZE FRONT	275/300x21
DISPLACEMENT	246.3cc	REAR TIRE	400/450x18
COMPRESSION RATIO	12:1	SPOKE DIMENSIONS	100, 100,120
		FRONT (LEFT)	18)3.5x224
INGITION	Motoplat 9600186-1	FRONT (RIGHT)	18)3.5x238
	<u>-</u>	REAR (LEFT)	18)4x224
POINT GAP		•	
IGN. TIMING	3mm (.118") BTDC	1 1	9)4x206
IGN. IIMING	(22° over flywheel)	REAR (RIGHT)	9)4x200
CDARK BING CITE	14mm x 3/4	OPPOSE TO LET ON A	
SPARK PLUG SIZE	.020"	SPECIFICATIONS	
PLUG GAP	· ·		
RECOMMENDED PLUG	Champion N-3	DRY WEIGHT	233 lbs.
	NGK B-7E	FUEL CAPACITY	3 gal.
CARBURETOR TYPE	Ama1 2900	WHEELBASE	57"
DIAMETER	32mm	SEAT HEIGHT	34.8"
MAIN JET	210	OVERALL LENGTH	86"
LOW SPEED JET	30		
GAS VALVE	2928/060	ENGINE LUBRICATION	
SPRAYER			·
NEEDLE	2-D-1	FUEL OIL MIXTURE	5% SAE 40
PISTON-CYL. CLEAR.	.06mm(.0024")	TRANSMISSION	11oz. SAE 90
CANKSHAFT CLEAR.	.03mm(.0012")	CLUTCH PRIMARY	10oz. SAE 10w 30
ANKOHALI CEEAK.		CDOICH INIMAKI	10021 010 100 00
		SWING ARM	SAE 40 as needed
		SWING ARM	SAE 40 as needed 7 607 (SAE 20)
TORQUE SPEC. (FT/LB)		SWING ARM FRONT SUSPENSION	SAE 40 as needed 7.6oz. (SAE 20)
TORQUE SPEC. (FT/LB)	14.5-18	^	
TORQUE SPEC. (FT/LB) CYLINDER NUT	14.5-18	^	
TORQUE SPEC. (FT/LB) CYLINDER NUT CYLINDER HEAD NUT	14.5-18 25.5-29	^	
TORQUE SPEC. (FT/LB) CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT	14.5-18 25.5-29 72.5	^	
TORQUE SPEC. (FT/LB) CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT	14.5-18 25.5-29 72.5 72.5	^	
TORQUE SPEC. (FT/LB) CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT	14.5-18 25.5-29 72.5	^	
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	^	
TORQUE SPEC. (FT/LB) CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE	14.5-18 25.5-29 72.5 72.5 14.5-18	^	
TORQUE SPEC. (FT/LB) CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION	14.5-18 25.5-29 72.5 72.5 14.5-18	^	
TORQUE SPEC. (FT/LB) CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE	14.5-18 25.5-29 72.5 72.5 14.5-18	^	
TORQUE SPEC. (FT/LB) CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION	14.5-18 25.5-29 72.5 72.5 14.5-18 20 teeth 53 teeth 2.65	^	
TORQUE SPEC. (FT/LB) CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR	14.5-18 25.5-29 72.5 72.5 14.5-18 20 teeth 53 teeth 2.65	^	
TORQUE SPEC. (FT/LB) CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR PRIMARY RATIO	14.5-18 25.5-29 72.5 72.5 14.5-18 20 teeth 53 teeth 2.65	^	
TORQUE SPEC. (FT/LB) CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR PRIMARY RATIO GEARBOX SPEEDS	14.5-18 25.5-29 72.5 72.5 14.5-18 20 teeth 53 teeth 2.65 5 11 teeth 48 teeth	^	
TORQUE SPEC. (FT/LB) 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	14.5-18 25.5-29 72.5 72.5 14.5-18 20 teeth 53 teeth 2.65 5 11 teeth 48 teeth	^	
TORQUE SPEC. (FT/LB) 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	14.5-18 25.5-29 72.5 72.5 14.5-18 20 teeth 53 teeth 2.65 5	^	
TORQUE SPEC. (FT/LB) 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	14.5-18 25.5-29 72.5 72.5 14.5-18 20 teeth 53 teeth 2.65 5 11 teeth 48 teeth 5/8 x ¹ / ₄ (520)	^	
TORQUE SPEC. (FT/LB) 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 GEAR BOX RATIOS	14.5-18 25.5-29 72.5 72.5 14.5-18 20 teeth 53 teeth 2.65 5 11 teeth 48 teeth 5/8 x 4 (520) Primy. Secy. Ratio	^	
TORQUE SPEC. (FT/LB) 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 GEAR BOX RATIOS 1st	14.5-18 25.5-29 72.5 72.5 14.5-18 20 teeth 53 teeth 2.65 5 11 teeth 48 teeth 5/8 x 4 (520) Primy. Secy. Ratio 10 26 2.600	^	
TORQUE SPEC. (FT/LB) 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 GEAR BOX RATIOS 1st 2nd	14.5-18 25.5-29 72.5 72.5 14.5-18 20 teeth 53 teeth 2.65 5 11 teeth 48 teeth 5/8 x 4 (520) Primy. Secy. Ratio 10 26 2.600 13 21 1.615	^	
TORQUE SPEC. (FT/LB) 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 GEAR BOX RATIOS 1st 2nd 3rd	14.5-18 25.5-29 72.5 72.5 14.5-18 20 teeth 53 teeth 2.65 5 11 teeth 48 teeth 5/8 x ½ (520) Primy. Secy. Ratio 10 26 2.600 13 21 1.615 17 29 1.117	^	
TORQUE SPEC. (FT/LB) 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 GEAR BOX RATIOS 1st 2nd 3rd 4th	14.5-18 25.5-29 72.5 72.5 14.5-18 20 teeth 53 teeth 2.65 5 11 teeth 48 teeth 5/8 x 4 (520) Primy. Secy. Ratio 10 26 2.600 13 21 1.615 17 29 1.117 18 15 0.833	^	
TORQUE SPEC. (FT/LB) 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 GEAR BOX RATIOS 1st 2nd 3rd 4th 5th	14.5-18 25.5-29 72.5 72.5 14.5-18 20 teeth 53 teeth 2.65 5 11 teeth 48 teeth 5/8 x ½ (520) Primy. Secy. Ratio 10 26 2.600 13 21 1.615 17 29 1.117	^	
TORQUE SPEC. (FT/LB) 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 GEAR BOX RATIOS 1st 2nd 3rd 4th	14.5-18 25.5-29 72.5 72.5 14.5-18 20 teeth 53 teeth 2.65 5 11 teeth 48 teeth 5/8 x 4 (520) Primy. Secy. Ratio 10 26 2.600 13 21 1.615 17 29 1.117 18 15 0.833	^	
TORQUE SPEC. (FT/LB) 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 GEAR BOX RATIOS 1st 2nd 3rd 4th 5th	14.5-18 25.5-29 72.5 72.5 14.5-18 20 teeth 53 teeth 2.65 5 11 teeth 48 teeth 5/8 x 4 (520) Primy. Secy. Ratio 10 26 2.600 13 21 1.615 17 29 1.117 18 15 0.833	^	

ENGINE		WHEELS	. 2
2 CYCLE NUMB. CYLINDER BORE-STROKE DISPLACEMENT	1 72.5-60	FRONT RIM REAR RIM TIRE SIZE FRONT REAR TIRE	WM1-21 WM3-18 300x21 400x18
COMPRESSION RATIO INGITION POINT GAP IGN. TIMING	Motoplat 9600552 3mm (.118") BTDC	SPOKE DIMENSIONS FRONT (LEFT) FRONT (RIGHT) REAR (LEFT) REAR (RIGHT) REAR (RIGHT)	
SPARK PLUG SIZE PLUG GAP	(23 ⁰ over flywheel) 14 x 3/4 .018-020"	SPECIFICATIONS	
RECOMMENDED PLUG CARBURETOR TYPE DIAMETER MAIN JET	Amal 389-B/32 MCZ 32mm 280	DRY WEIGHT FUEL CAPACITY WHEELBASE SEAT HEIGHT OVERALL LENGTH	
LOW SPEED JET GAS VALVE SPRAYER NEEDLE	40 3.5 106 a DA	ENGINE LUBRICATION FUEL OIL MIXTURE	5% SAE 40
PISTON-CYL. CLEAR. CRANKSHAFT CLEAR. TORQUE SPEC. (FT/LB)	.075 (.0030") .03mm(.0012")	TRANSMISSION CLUTCH PRIMARY SWING ARM FRONT SUSPENSION	116z. SAE 40 10oz. 10w 30 SAE 40 as needed 6.5oz. SAE 20
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT	15-18 25-29 58 60 15-18		
PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR PRIMARY RATIO GEARBOX SPEEDS COUTSHAFT SPROCKET REAR SPROCKET CHAIN SIZE			
GEAR BOX RATIOS 1st 2nd 3rd	Primy. Secy. Ratio 1.84 1.46 1.17		
4th 5th 6th	.94		
			,

MODEL NUMBER: 66 M

			i .
ENGINE		WHEELS	
~ CYCLE	1	FRONT RIM	WM1-21
NUMB. CYLINDER	1	REAR RIM	WM2-18
BORE - STROKE	83.5-64	,	
	350.4cc	TIRE SIZE FRONT	300x21
DISPLACEMENT		REAR TIRE	450x18
COMPRESSION RATIO	12:1	SPOKE DIMENSIONS	
***		FRONT (LEFT)	18)3.5x224
INGITION	Motop1at 9600306	FRONT (RIGHT)	18)3.5x238
	į	REAR (LEFT)	18)4x224
POINT GAP		REAR (RIGHT)	9)4x206
IGN. TIMING	3mm (.118") BTDC	REAR (RIGHT)	9)4x200
	(240 over flywheel)		
SPARK PLUG SIZE	14mmx ¹ 2	SPECIFICATIONS	·
PLUG GAP	.023"		
RECOMMENDED PLUG	Champion N-60 R	DRY WEIGHT	211 lbs.
	NGK B-8EN	FUEL CAPACITY	1.7 gal.
CARBURETOR TYPE	Bing 11.612/0	WHEELBASE	58.2"
DIAMETER	36mm	SEAT HEIGHT	35"
MAIN JET	165	OVERALL LENGTH	84.8"
	40-80	CYERNEL LENGIN	
LOW SPEED JET	0	PROTUC THEORYCATION	
GAS VALVE	1 -	ENGINE LUBRICATION	
SPRAYER	6.5 x 1.5		5% CAE 40
NEEDLE		FUEL OIL MIXTURE	5% SAE 40
			4.7
PISTON-CYL. CLEAR.	.07mm(.0027")	TRANSMISSION	17oz. SAE 40
RANKSHAFT CLEAR.	.03mm(.0012")	CLUTCH PRIMARY	100z. SAE 10w 30
		SWING ARM	SAE 40 as needed
TORQUE SPEC. (FT/LB))	FRONT SUSPENSION	6 3/4oz. Hidrol 10
	1		
CYLINDER NUT	14.5-18		
CYLINDER HEAD NUT	25.5-29		
CK/SHFT PINION NUT	58		· ·
MAGNETO NUT	51	•	
CLUTCH NUT	14.5-18		
CEOTON NOT			
PRIMARY DRIVE			
	22 teeth	·	
CRANKSHAFT PINION	45 teeth		
CLUTCH GEAR	2.045		
PRIMARY RATIO	4		
GEARBOX SPEEDS	11 teeth		
COUTSHAFT SPROCKET	56 teeth		
REAR SPROCKET	5/8 x ¼ (520)		
CHAIN SIZE	3/6 X 4 (320)		
	Drimy Cook Botic	, the investment of	
GEAR BOX RATIOS	Primy. Secy. Ratio		
1st	13 24 1.846		
2nd	15 22 1.466		
3rd	17 20 1.176		
A 4 1.	110 10 047		}
4th	19 18 947		,
5th	19 18 947		
5th	19 18 94/		
1	19 18 947		
5th	19 18 947		

ENGINE		WHEELS	
2 CYCLE	1	FRONT RIM	WM1-21
NUMB, CYLINDER	1	REAR RIM	WM3-18
BORE - STROKE	70-64	TIRE SIZE FRONT	300x21
	246.3cc	1	
DISPLACEMENT	12:1	REAR TIRE	450x18
COMPRESSION RATIO		SPOKE DIMENSIONS	10)7 5224
TNGTETON	Motoplat 9600306	FRONT (LEFT)	18)3.5x224
INGITION	Motopiat 3000300	FRONT (RIGHT)	18)3.5x238
		REAR (LEFT)	18)4x224
POINT GAP	7 (119H) PTDC	REAR (RIGHT)	9)4x206
IGN. TIMING	3mm (.118") BTDC	REAR (RIGHT)	9)4x200
	(24° over flywheel)		1,
SPARK PLUG SIZE	14mm x ½	SPECIFICATIONS	· ·
PLUG GAP	.015"		
RECOMMENDED PLUG	Champion N-60 R	DRY WEIGHT	220 1bs.
	NGK B-8EN	FUEL CAPACITY	1.7 gal.
CARBURETOR TYPE	Bing 11500-34	WHEELBASE	56"
DIAMETER	34 mm	SEAT HEIGHT	32"
MAIN JET	155	OVERALL LENGTH	84"
LOW SPEED JET	50		
GAS VALVE	1	ENGINE LUBRICATION	
SPRAYER	6.5 x 1.5		
NEEDLE	*,	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-
CRANKONATI CELAK.		1	•
		SWING ARM	SAE 40 as needed
TORQUE SPEC. (FT/LB		1	•
TORQUE SPEC. (FT/LB	14-18	SWING ARM	SAE 40 as needed
TORQUE SPEC. (FT/LB	14-18	SWING ARM	SAE 40 as needed
TORQUE SPEC. (FT/LB CYLINDER NUT CYLINDER HEAD NUT	14-18 22-25.5	SWING ARM	SAE 40 as needed
TORQUE SPEC. (FT/LB CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT	14-18 22-25.5 72.5	SWING ARM	SAE 40 as needed
TORQUE SPEC. (FT/LB CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT	14-18 22-25.5 72.5 72.5	SWING ARM	SAE 40 as needed
TORQUE SPEC. (FT/LB CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT	14-18 22-25.5 72.5	SWING ARM	SAE 40 as needed
TORQUE SPEC. (FT/LBCCYLINDER NUTCYLINDER HEAD NUTCK/SHFT PINION NUTMAGNETO NUTCLUTCH NUT	14-18 22-25.5 72.5 72.5	SWING ARM	SAE 40 as needed
TORQUE SPEC. (FT/LB CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE	14-18 22-25.5 72.5 72.5 14.5-18	SWING ARM	SAE 40 as needed
TORQUE SPEC. (FT/LB CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION	14-18 22-25.5 72.5 72.5 14.5-18	SWING ARM	SAE 40 as needed
TORQUE SPEC. (FT/LB CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR	14-18 22-25.5 72.5 72.5 14.5-18 26 teeth 58 teeth	SWING ARM	SAE 40 as needed
TORQUE SPEC. (FT/LB CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR PRIMARY RATIO	14-18 22-25.5 72.5 72.5 14.5-18 26 teeth 58 teeth 2.230	SWING ARM	SAE 40 as needed
TORQUE SPEC. (FT/LB CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR PRIMARY RATIO GEARBOX SPEEDS	14-18 22-25.5 72.5 72.5 14.5-18 26 teeth 58 teeth 2.230 5	SWING ARM	SAE 40 as needed
TORQUE SPEC. (FT/LB 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	14-18 22-25.5 72.5 72.5 14.5-18 26 teeth 58 teeth 2.230 5 11 teeth	SWING ARM	SAE 40 as needed
TORQUE SPEC. (FT/LB 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	14-18 22-25.5 72.5 72.5 14.5-18 26 teeth 58 teeth 2.230 5 11 teeth 56 teeth	SWING ARM	SAE 40 as needed
TORQUE SPEC. (FT/LB 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	14-18 22-25.5 72.5 72.5 14.5-18 26 teeth 58 teeth 2.230 5 11 teeth	SWING ARM	SAE 40 as needed
TORQUE SPEC. (FT/LB 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	14-18 22-25.5 72.5 72.5 14.5-18 26 teeth 58 teeth 2.230 5 11 teeth 56 teeth 5/8 x ½	SWING ARM	SAE 40 as needed
TORQUE SPEC. (FT/LB 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 GEAR BOX RATIOS	14-18 22-25.5 72.5 72.5 14.5-18 26 teeth 58 teeth 2.230 5 11 teeth 56 teeth 5/8 x ½ Primy. Secy. Ratio	SWING ARM	SAE 40 as needed
TORQUE SPEC. (FT/LB 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 GEAR BOX RATIOS 1st	14-18 22-25.5 72.5 72.5 14.5-18 26 teeth 58 teeth 2.230 5 11 teeth 56 teeth 5/8 x ¼ Primy. Secy. Ratio 13 24 1.846	SWING ARM	SAE 40 as needed
TORQUE SPEC. (FT/LB 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 GEAR BOX RATIOS 1st 2nd	14-18 22-25.5 72.5 72.5 14.5-18 26 teeth 58 teeth 2.230 5 11 teeth 56 teeth 5/8 x ½ Primy. Secy. Ratio 13 24 1.846 15 22 1.466	SWING ARM	SAE 40 as needed
TORQUE SPEC. (FT/LB 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 GEAR BOX RATIOS 1st 2nd 3rd	14-18 22-25.5 72.5 72.5 14.5-18 26 teeth 58 teeth 2.230 5 11 teeth 56 teeth 5/8 x ½ Primy. Secy. Ratio 13 24 1.846 15 22 1.466 17 20 1.176	SWING ARM	SAE 40 as needed
TORQUE SPEC. (FT/LB 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 GEAR BOX RATIOS 1st 2nd 3rd 4th	14-18 22-25.5 72.5 72.5 14.5-18 26 teeth 58 teeth 2.230 5 11 teeth 56 teeth 5/8 x \frac{1}{4} Primy. Secy. Ratio 13	SWING ARM	SAE 40 as needed
TORQUE SPEC. (FT/LB 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 GEAR BOX RATIOS 1st 2nd 3rd 4th 5th	14-18 22-25.5 72.5 72.5 14.5-18 26 teeth 58 teeth 2.230 5 11 teeth 56 teeth 5/8 x ½ Primy. Secy. Ratio 13 24 1.846 15 22 1.466 17 20 1.176	SWING ARM	SAE 40 as needed
TORQUE SPEC. (FT/LB 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 GEAR BOX RATIOS 1st 2nd 3rd 4th	14-18 22-25.5 72.5 72.5 14.5-18 26 teeth 58 teeth 2.230 5 11 teeth 56 teeth 5/8 x \frac{1}{4} Primy. Secy. Ratio 13	SWING ARM	SAE 40 as needed
TORQUE SPEC. (FT/LB 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 GEAR BOX RATIOS 1st 2nd 3rd 4th 5th	14-18 22-25.5 72.5 72.5 14.5-18 26 teeth 58 teeth 2.230 5 11 teeth 56 teeth 5/8 x \frac{1}{4} Primy. Secy. Ratio 13	SWING ARM	SAE 40 as needed

MODEL NUMBER: 73 M

FNGINE		WHEELS	
2 CYCLE		FRONT RIM	WM1-21
NUMB. CYLINDER	1	REAR RIM	WM2-18
BORE-STROKE	70-64	TIRE SIZE FRONT	300x21
DISPLACEMENT	246.3cc	REAR TIRE	450x18
COMPRESSION RATIO	13:1	SPOKE DIMENSIONS	
	Waterlat 0(0070) 1	FRONT (LEFT)	18)3.5x224
INGITION	Motoplat 9600306-1	FRONT (RIGHT)	18)3.5x238
DOTNE GAD		REAR (LEFT)	18)4x224
POINT GAP IGN. TIMING	3mm (.118") BTDC	REAR (RIGHT)	9)4x206 9)4x200
IGN. IIMING	(24° over flywheel)	REAR (RIGHT)	9)4X200
SPARK PLUG SIZE	14mm x ½	SPECIFICATIONS	
PLUG GAP	.0157"	SI ECTITIONS	
RECOMMENDED PLUG	Champion N-57 R	DRY WEIGHT	222 lbs.
	NGK B-9EN	FUEL CAPACITY	1.7 gal.
CARBURETOR TYPE	Bing 11609/0	WHEELBASE	56"
DIAMETER	34mm	SEAT HEIGHT	36.6"
MAIN JET	165 40-80	OVERALL LENGTH	84.5"
LOW SPEED JET	0		
GAS VALVE	6.5 x 1.5	ENGINE LUBRICATION	
SPRAYER	11.208/ON3	TUDI OIL MINDUR	5% SAE 40
NEEDLE		FUEL OIL MIXTURE	3 * 3 RL 40
PISTON-CYL. CLEAR.	.07mm (.0027)	TRANSMISSION	110z. SAE 40
CANKSHAFT CLEAR.	.03mm (.0012")	CLUTCH PRIMARY	10oz. SAE 10w 30
ANKSHALI CHEAK.		SWING ARM	SAE 40 as needed
	•		
TOROUE SPEC. (FT/LB)		FRONT SUSPENSION	6 3/4 oz. Hidrol 10
TORQUE SPEC. (FT/LB)		FRONT SUSPENSION	6 3/4 oz. Hidrol 10
TORQUE SPEC. (FT/LB) CYLINDER NUT	11-15	FRONT SUSPENSION	6 3/4 oz. Hidrol 10
CYLINDER NUT CYLINDER HEAD NUT	11-15 22-25.5	FRONT SUSPENSION	6 3/4 oz. Hidrol 10
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT	11-15 22-25.5 72.5	FRONT SUSPENSION	6 3/4 oz. Hidrol 10
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT	11-15 22-25.5	FRONT SUSPENSION	6 3/4 oz. Hidrol 10
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT	11-15 22-25.5 72.5 72.5	FRONT SUSPENSION	6 3/4 oz. Hidrol 10
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT	11-15 22-25.5 72.5 72.5	FRONT SUSPENSION	6 3/4 oz. Hidrol 10
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE	11-15 22-25.5 72.5 72.5 14.5-18	FRONT SUSPENSION	6 3/4 oz. Hidrol 10
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION	11-15 22-25.5 72.5 72.5 14.5-18 26 teeth 58 teeth	FRONT SUSPENSION	6 3/4 oz. Hidrol 10
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR	11-15 22-25.5 72.5 72.5 14.5-18 26 teeth 58 teeth 2.230	FRONT SUSPENSION	6 3/4 oz. Hidrol 10
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION	11-15 22-25.5 72.5 72.5 14.5-18 26 teeth 58 teeth 2.230	FRONT SUSPENSION	6 3/4 oz. Hidrol 10
CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR PRIMARY RATIO	11-15 22-25.5 72.5 72.5 14.5-18 26 teeth 58 teeth 2.230 5 11 teeth	FRONT SUSPENSION	6 3/4 oz. Hidrol 10
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	11-15 22-25.5 72.5 72.5 14.5-18 26 teeth 58 teeth 2.230 5 11 teeth 56 teeth	FRONT SUSPENSION	6 3/4 oz. Hidrol 10
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	11-15 22-25.5 72.5 72.5 14.5-18 26 teeth 58 teeth 2.230 5 11 teeth	FRONT SUSPENSION	6 3/4 oz. Hidrol 10
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	11-15 22-25.5 72.5 72.5 14.5-18 26 teeth 58 teeth 2.230 5 11 teeth 56 teeth 5/8 x ½ (520)	FRONT SUSPENSION	6 3/4 oz. Hidrol 10
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 GEAR BOX RATIOS	11-15 22-25.5 72.5 72.5 14.5-18 26 teeth 58 teeth 2.230 5 11 teeth 56 teeth	FRONT SUSPENSION	6 3/4 oz. Hidrol 10
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 GEAR BOX RATIOS 1st	11-15 22-25.5 72.5 72.5 72.5 14.5-18 26 teeth 58 teeth 2.230 5 11 teeth 56 teeth 5/8 x 1/2 (520) Primy. Secy. Ratio 13 24 1.846 15 22 1.466	FRONT SUSPENSION	6 3/4 oz. Hidrol 10
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 GEAR BOX RATIOS 1st 2nd	11-15 22-25.5 72.5 72.5 72.5 14.5-18 26 teeth 58 teeth 2.230 5 11 teeth 56 teeth 5/8 x	FRONT SUSPENSION	6 3/4 oz. Hidrol 10
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 GEAR BOX RATIOS 1st 2nd 3rd	11-15 22-25.5 72.5 72.5 14.5-18 26 teeth 58 teeth 2.230 5 11 teeth 56 teeth 5/8 x ½ (520) Primy. Secy. Ratio 13 24 1.846 15 22 1.466 17 20 1.176 19 18 .947	FRONT SUSPENSION	6 3/4 oz. Hidrol 10
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 GEAR BOX RATIOS 1st 2nd 3rd 4th	11-15 22-25.5 72.5 72.5 72.5 14.5-18 26 teeth 58 teeth 2.230 5 11 teeth 56 teeth 5/8 x	FRONT SUSPENSION	6 3/4 oz. Hidrol 10
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 GEAR BOX RATIOS 1st 2nd 3rd	11-15 22-25.5 72.5 72.5 14.5-18 26 teeth 58 teeth 2.230 5 11 teeth 56 teeth 5/8 x ½ (520) Primy. Secy. Ratio 13 24 1.846 15 22 1.466 17 20 1.176 19 18 .947	FRONT SUSPENSION	6 3/4 oz. Hidrol 10
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 GEAR BOX RATIOS 1st 2nd 3rd 4th 5th	11-15 22-25.5 72.5 72.5 14.5-18 26 teeth 58 teeth 2.230 5 11 teeth 56 teeth 5/8 x ½ (520) Primy. Secy. Ratio 13 24 1.846 15 22 1.466 17 20 1.176 19 18 .947	FRONT SUSPENSION	6 3/4 oz. Hidrol 10
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 GEAR BOX RATIOS 1st 2nd 3rd 4th 5th	11-15 22-25.5 72.5 72.5 14.5-18 26 teeth 58 teeth 2.230 5 11 teeth 56 teeth 5/8 x ½ (520) Primy. Secy. Ratio 13 24 1.846 15 22 1.466 17 20 1.176 19 18 .947	FRONT SUSPENSION	6 3/4 oz. Hidrol 10

ENGINE		WHEELS	. :
2 CYCLE		FRONT RIM	WM1-21
NUMB. CYLINDER	1	REAR RIM	WM3-18
BORE-STROKE	70-64	TIRE SIZE FRONT	275/300-21
DISPLACEMENT	246.cc	REAR TIRE	400/450-18
COMPRESSION RATIO	12:1	SPOKE DIMENSIONS	400/430-18
COMPRESSION RATIO		FRONT (LEFT)	18)3.5x224
INCITION	Motoplat 9600186-1	FRONT (RIGHT)	18)3.5x224
INGITION		REAR (LEFT)	18)4x224
POINT GAP		REAR (RIGHT)	9)4x206
I control to the cont	2.5mm (.098")BTDC	REAR (RIGHT)	9)4x200 9)4x197
IGN. TIMING	200 over flywheel	REAK (RIGHT)	9)4X197
SPARK PLUG SIZE	14mm x 3/4	SPECIFICATIONS	
PLUG GAP	.020"	STECTI TONI	
RECOMMENDED PLUG	Champion N-3	DRY WEIGHT	224.7 lbs.
RECOMMENDED PLUG	NGK B-7E	FUEL CAPACITY	2.37 gal
CARBURETOR TYPE	Ama1 2900	WHEELBASE	57"
DIAMETER	32mm	SEAT HEIGHT	36-37"
MAIN JET	210	OVERALL LENGTH	87"
LOW SPEED JET	30	OVERALE BENGIN	
GAS VALVE	2928/060	ENGINE LUBRICATION	
SPRAYER	6.5 x 1.5	ENGINE BODRICKTION	
NEEDLE	2 - D - 1	FUEL OIL MIXTURE	5% SAE 40
NEEDBE .		TOLD OID MIXIONE	
PISTON-CYL. CLEAR.	.06mm (.0024")	TRANSMISSION	11oz. SAE 90
CRANKSHAFT CLEAR.	.03mm (.0012")	l .	I .
I CRANKSHAFI CLEAR	, , , , , , , , , , , , , , , , , , , ,	I CLUICH PRIMARY	1 TUOZ. SAE TUW SU
CRANKSHAFI CLEAR.		CLUTCH PRIMARY SWING ARM	10oz. SAE 10w 30 SAE 40 as needed
		SWING ARM FRONT SUSPENSION	SAE 40 as needed
TORQUE SPEC. (FT/LB		SWING ARM	L
TORQUE SPEC. (FT/LB	14.5-18	SWING ARM	SAE 40 as needed 7.60z Hidrol 7
TORQUE SPEC. (FT/LB	14.5-18 25.5-29	SWING ARM	SAE 40 as needed 7.60z Hidrol 7
TORQUE SPEC. (FT/LB CYLINDER NUT CYLINDER HEAD NUT	14.5-18 25.5-29 58	SWING ARM	SAE 40 as needed 7.60z Hidrol 7
TORQUE SPEC. (FT/LB	14.5-18 25.5-29 58 54.5	SWING ARM	SAE 40 as needed 7.60z Hidrol 7
TORQUE SPEC. (FT/LB CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT	14.5-18 25.5-29 58	SWING ARM	SAE 40 as needed 7.60z Hidrol 7
TORQUE SPEC. (FT/LB CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT	14.5-18 25.5-29 58 54.5	SWING ARM	SAE 40 as needed 7.60z Hidrol 7
TORQUE SPEC. (FT/LB CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT	14.5-18 25.5-29 58 54.5 14.5-18	SWING ARM	SAE 40 as needed 7.60z Hidrol 7
TORQUE SPEC. (FT/LB CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT	14.5-18 25.5-29 58 54.5 14.5-18	SWING ARM	SAE 40 as needed 7.60z Hidrol 7
TORQUE SPEC. (FT/LB CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE	14.5-18 25.5-29 58 54.5 14.5-18	SWING ARM	SAE 40 as needed 7.60z Hidrol 7
TORQUE SPEC. (FT/LB CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR PRIMARY RATIO	14.5-18 25.5-29 58 54.5 14.5-18 20 teeth 53 teeth 2.65	SWING ARM	SAE 40 as needed 7.60z Hidrol 7
TORQUE SPEC. (FT/LB CYLINDER NUT CYLINDER HEAD NUT CK/SHFT PINION NUT MAGNETO NUT CLUTCH NUT PRIMARY DRIVE CRANKSHAFT PINION CLUTCH GEAR PRIMARY RATIO GEARBOX SPEEDS	14.5-18 25.5-29 58 54.5 14.5-18 20 teeth 53 teeth 2.65	SWING ARM	SAE 40 as needed 7.60z Hidrol 7
TORQUE SPEC. (FT/LB 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	14.5-18 25.5-29 58 54.5 14.5-18 20 teeth 53 teeth 2.65 5	SWING ARM	SAE 40 as needed 7.60z Hidrol 7
TORQUE SPEC. (FT/LB 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	14.5-18 25.5-29 58 54.5 14.5-18 20 teeth 53 teeth 2.65 5 12 teeth 54 teeth	SWING ARM	SAE 40 as needed 7.60z Hidrol 7
TORQUE SPEC. (FT/LB 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	14.5-18 25.5-29 58 54.5 14.5-18 20 teeth 53 teeth 2.65 5	SWING ARM	SAE 40 as needed 7.60z Hidrol 7
TORQUE SPEC. (FT/LB 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	14.5-18 25.5-29 58 54.5 14.5-18 20 teeth 53 teeth 2.65 5 12 teeth 54 teeth 5/8 x ¹ / ₄	SWING ARM	SAE 40 as needed 7.60z Hidrol 7
TORQUE SPEC. (FT/LB 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 GEAR BOX RATIOS	14.5-18 25.5-29 58 54.5 14.5-18 20 teeth 53 teeth 2.65 5 12 teeth 54 teeth 5/8 x ¹ / ₄ Primy, Secy, Ratio	SWING ARM	SAE 40 as needed 7.60z Hidrol 7
TORQUE SPEC. (FT/LB 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 GEAR BOX RATIOS 1st	14.5-18 25.5-29 58 54.5 14.5-18 20 teeth 53 teeth 2.65 5 12 teeth 54 teeth 5/8 x ¹ / ₄ Primy. Secy. Ratio 10 26 2.600	SWING ARM	SAE 40 as needed 7.60z Hidrol 7
TORQUE SPEC. (FT/LB 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 GEAR BOX RATIOS 1st 2nd	14.5-18 25.5-29 58 54.5 14.5-18 20 teeth 53 teeth 2.65 5 12 teeth 54 teeth 5/8 x ¹ / ₄ Primy. Secy. Ratio 10 26 2.600 13 21 1.615	SWING ARM	SAE 40 as needed 7.60z Hidrol 7
TORQUE SPEC. (FT/LB 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 GEAR BOX RATIOS 1st 2nd 3rd	14.5-18 25.5-29 58 54.5 14.5-18 20 teeth 53 teeth 2.65 5 12 teeth 54 teeth 5/8 x ¹ / ₄ Primy. Secy. Ratio 10 26 2.600 13 21 1.615 17 19 1.117	SWING ARM	SAE 40 as needed 7.60z Hidrol 7
TORQUE SPEC. (FT/LB 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 GEAR BOX RATIOS 1st 2nd 3rd 4th	14.5-18 25.5-29 58 54.5 14.5-18 20 teeth 53 teeth 2.65 5 12 teeth 54 teeth 5/8 x \frac{1}{4} Primy. Secy. Ratio 10 26 2.600 13 21 1.615 17 19 1.117 18 15 .833	SWING ARM	SAE 40 as needed 7.60z Hidrol 7
TORQUE SPEC. (FT/LB 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 GEAR BOX RATIOS 1st 2nd 3rd 4th 5th	14.5-18 25.5-29 58 54.5 14.5-18 20 teeth 53 teeth 2.65 5 12 teeth 54 teeth 5/8 x ¹ / ₄ Primy. Secy. Ratio 10 26 2.600 13 21 1.615 17 19 1.117	SWING ARM	SAE 40 as needed 7.60z Hidrol 7
TORQUE SPEC. (FT/LB 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 GEAR BOX RATIOS 1st 2nd 3rd 4th	14.5-18 25.5-29 58 54.5 14.5-18 20 teeth 53 teeth 2.65 5 12 teeth 54 teeth 5/8 x \frac{1}{4} Primy. Secy. Ratio 10 26 2.600 13 21 1.615 17 19 1.117 18 15 .833	SWING ARM	SAE 40 as needed 7.60z Hidrol 7
TORQUE SPEC. (FT/LB 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 GEAR BOX RATIOS 1st 2nd 3rd 4th 5th	14.5-18 25.5-29 58 54.5 14.5-18 20 teeth 53 teeth 2.65 5 12 teeth 54 teeth 5/8 x \frac{1}{4} Primy. Secy. Ratio 10 26 2.600 13 21 1.615 17 19 1.117 18 15 .833	SWING ARM	SAE 40 as needed 7.60z Hidrol 7