Operator's Manual
SUPPLEMENT
Model No.
596C-1

⚠WARNING:

Read Engine Owner's Manual, Vehicle Operator's Manual, and Supplement Carefully Before Operating Vehicle.

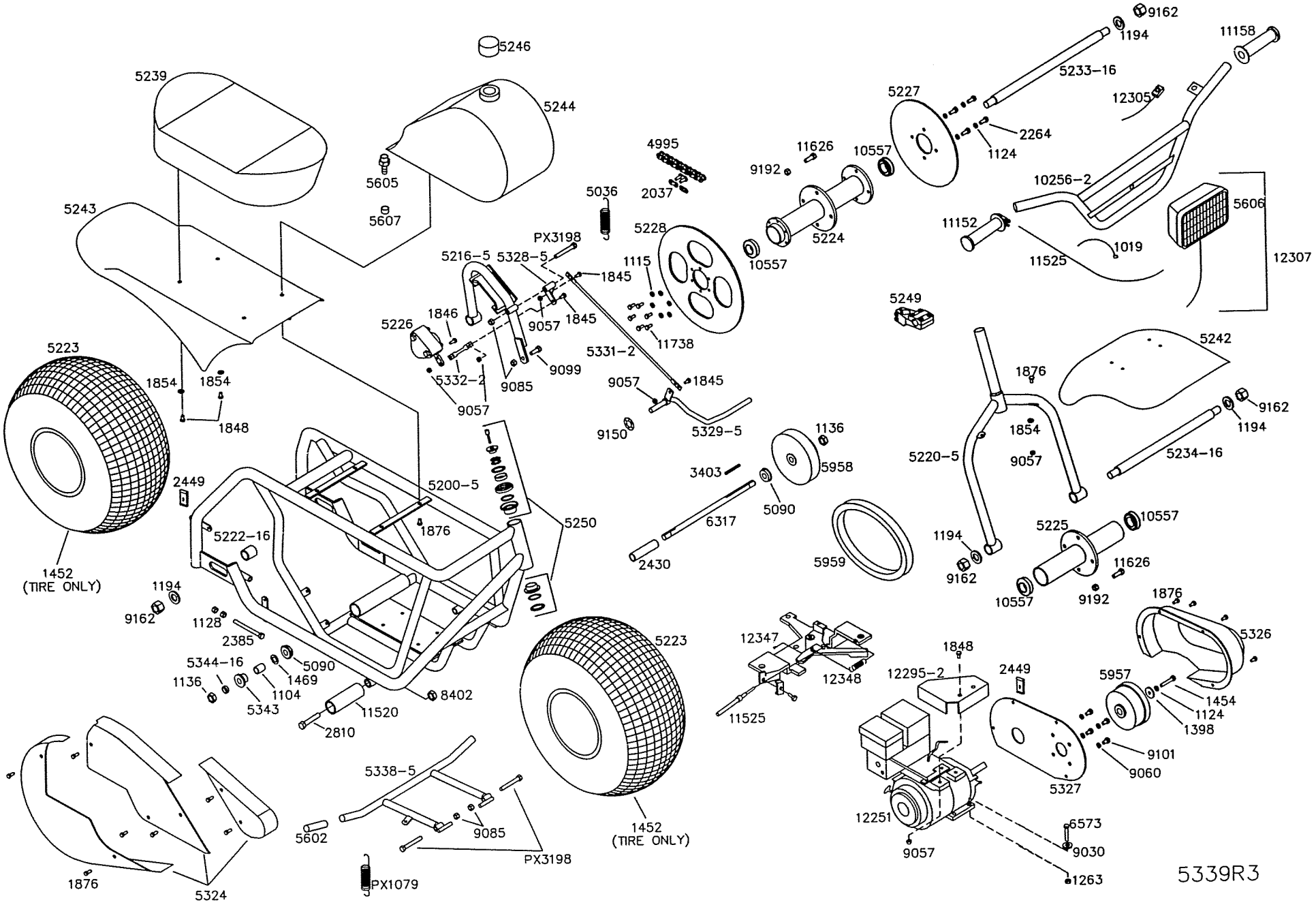
Parts List

Front Wheel Spacer 12838

Rear Wheel Spacer 12839

THIS VEHICLE IS FOR OFF-ROAD USE ONLY

BEFORE OPERATING THIS VEHICLE, THE OWNER AND/OR OPERATOR MUST UNDERSTAND THE VEHICLE WAS NOT DESIGNED OR MANUFACTURED TO MEET SPECIFICATIONS FOR USE ON STREETS, HIGHWAYS, OR THOROUGHFARES AND HAVE READ AND HAVE AN UNDERSTANDING OF ALL THE INSTRUCTIONS FOR SAFE ASSEMBLY AND OPERATION AS WELL AS THE INSTRUCTIONS GOVERNING THE ENGINE AND OTHER PORTIONS OF THE VEHICLE.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PN	DESCRIPTION
1019	Cable Tie
1104	Spacer 5/8 ID x 14G x 1" Long
1115	Washer, 1/4 Split Lock
1124	Washer, 5/16 Split Lock
1128	Nut, 3/8-16
1136	Nut, 5/8-18 Center Lock Jam
1194	Washer, 3/4 Flat
1263	Nut, 5/16-18 Whiz Flange
1398	Washer, 21/64ID x 1/8Thick
1452	Tire, 22/11 x 8" Knobby
1454	Bolt, 5/16-24 x 1-3/4 GR 5
1469	Washer, 5/8ID x 1/16Thick
1845	Bolt, 1/4-20 x 5/8 GR 5
1846	Bolt, 1/4-20 x 3/4 GR 5
1848	Bolt, 1/4-20 x 1-1/4 GR 5
1854	Washer, #14 Flat
1876	Bolt, 1/4-20 x 5/8 Whiz Flange
2037	Master Link, #420
2264	Bolt, 5/16-18 x 3/4 GR 5
2385	Bolt, 3/8-16 x 4 GR 2 Full Thread
2430	Spanner, 5/8 ID x 7-1/8 Long
2449	Nut, Tinnerman 1/4-20
2810	Bolt, 7/16-20 X 1.75 HHCS
3403	Key, 3/16 sq x 2"
4995	Chain, #420 116P Including ML
5036	Extension Spring, 3"Long x .375OD
5090	Bearing, 5/8ID w/ Snap Ring
5200-5	Frame
5216-5	Caliper Support
5220-5	Fork
5222-16	Spacer 1 ID x 1-1/4 OD x 1-1/4 Lg
5223	Tire and Wheel, 22/11 x 8"
5224	Hub, Rear
5225	Hub, Front
5226	Brake Caliper

PN	DESCRIPTION
5227	Brake Disc 10.37" OD
5228	Sprocket, 420P x 80T
5233-16	Axle, Rear 19-5/32"
5234-16	Axle, Front 17-9/32"
5239	Seat
5242	Fender, Front
5243	Fender, Rear
5244	Fuel Tank
5246	Fuel Cap
5249	Stem
5250	Headset, 30mm/34mm
5324	Chain Guard
5326	Drive Cover
5327	Drive Cover Plate
5328-5	Pivot Tube
5329-5	Brake Lever
5331-2	Brake Rod, 18-11/16
5332-2	Brake Rod, 4-1/16
5338-5	Center Stand
5343	Sprocket, 420P x 8 T x 5/8 ID
5344-16	Spacer, 5/8 ID x 14g x 1/4 Long
5602	Plastic Cover
5605	Hose Fitting, 1/4 NPT 1/4 Hose
5606	Headlight only
5607	Hose Clamp, 7/16
5957	Driver Pulley, 30 Ser
5958	Driven Pulley, 30 Ser
5959	Drive Belt, 30 Ser
6317	Jackshaft, 5/8 OD x 14-1/4"
6573	Bolt, 5/16-18 x 1-3/4 GR 5
8402	Nut 7/16-20 TL Hex YZ
9006	Bolt, 1/4-20 x 1/2 Whiz Flange
9057	Nut, 1/4-20 Top Lock
9060	Washer, 5/16 Flat
9085	Nut, 3/8-16 Top Lock

PN	DESCRIPTION
9099	Bolt, 3/8-16 x 1 GR 5
9101	Bolt, 5/16-24 x .500 GR 5
9150	Nut, ½ Push
9162	Nut, ¾-10 Top Lock
9186	Bolt, 5/16-18 x 1-1/2 GR 5
9192	Nut 3/8-16 Hex WF
10256-2	Handlebar
10557	Bearing 1IN ID 2IN OD Snap Ring
11152	Twist Grip Asm (incl PN 5345)
11158	Stationary Grip
11520	Foot Peg
11525	Throttle Cable, 56.25IN.
11626	Bolt 3/8-16 X 1.25 WF G5 Z
11738	Bolt 1/4-20 X 7/8 HHCS
12251	Engine 6.5HP OHC W/O Tank W/Coil
12295-2	Guard Robin Engine GBLK
12305	Stop Switch
12307	Headlight Asm w/ Harness (incl PN 5606)
12347	Swivel Screw
12348	Return Spring
PX1079	Extension Spring, 3" Long x .500 OD
PX3198	Bolt, 3/8-16 x 2-3/4 GR 5
11330	Decal Sheet Warnings
12268	Manual, Engine Operator
4198	Manual, Mini-Bike Operator
9233R2	Addendum, Brake/Drive Sys. Maint.
9299S1	Manual, Headset Assembly
8746M	Manco Safety Video

ASSEMBLY INSTRUCTIONS

General

1. Carefully unpack all parts from shipping containers.
2. Locate the Mini-Bike Operator's Manual and complete the information block on the back page.
3. Identify all parts to be assembled.
4. Reference the exploded view for correct assembly of all parts.

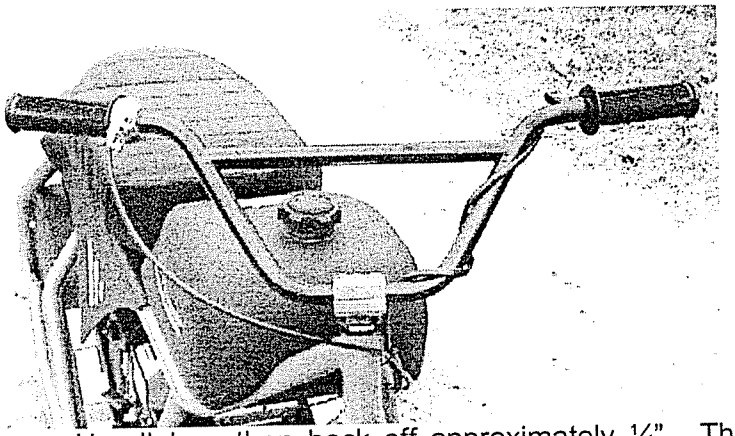
Handlebar Assembly

5. Remove the four (4) Allen head bolts in the top of the Stem (PN 5249) using a 6mm Allen Wrench.
6. Place the Handlebar (PN 10256-2) under the top plate of the Stem. Make sure the Handlebar Grips angle toward the back of the vehicle and that it is centered on the Stem.
7. Replace the top plate and fasten with the four (4) Allen head bolts removed in Step 5.
8. Adjust the angle of the Handlebars so that the Operator has adequate reach throughout the entire rotation of the Forks. The Handlebars should not hit the Operator's knees or the Fuel Tank.
9. Ensure the bolts are tight.

Figure 1: Cable Routing

Throttle Assembly

10. Remove the Cable Tie holding the Twist Grip (PN 11152) and Stop Switch (PN 12305) secure during shipping.
11. Rout the Throttle Cable as shown in Figure 1.
12. Loosen the two Screws on the Twist Grip. Slide the Twist Grip all the way onto the Right Handlebar, then back off approximately ¼". This will ensure that the Twist Grip will not bottom out on the end of the Handlebar and bind.



13. Rotate the Twist Grip so that the Throttle Cable points downward and slightly ahead as shown in Figure 1. The Throttle Cable should form a smooth curve from the Twist Grip to the Frame.
14. Tighten the two (2) screws in the Twist Grip securely.

CAUTION: Rotate the Twist Grip counterclockwise to the full open position and release it to insure that it snaps back to the idle position. The Twist Grip must rotate easily in both directions to ensure safe operation. If the Twist Grip does not rotate easily in both directions, repeat the assembly procedure.

Stop Switch Assembly

15. Wrap the Stop Switch Wire around the left Handlebar once.
16. Remove the Nut and On/Off Plate from the Stop Switch.
17. Pass the Stop Switch up through the mounting hole on the Handlebar and replace the On/Off Plate and the Nut. Securely tighten the Nut.
18. Turn the Handlebar through its full range of movement to ensure that neither the Throttle Cable nor the Stop Switch Wires bind, stretch, or are pinched in the process. Correct any problems.

Headlight Assembly

19. Remove the ty-wrap holding the Headlight Assembly during shipment.
20. Route the wire harness along the frame tube.
21. Mount the Headlight Assembly to the bracket on the handle bar.

Pre-Ride Maintenance

22. Carefully and completely read the Engine Owner's Manual. Fill the Engine Crankcase with oil as described in the Engine Owner's Manual.

⚠ CAUTION: The Engine is shipped without oil in the crankcase.

23. Carefully and completely read the Mini-Bike Operator's Manual. Follow the Pre-Ride Inspection steps. Fill the Fuel Tank with Fuel and lubricate appropriate points as described in the Mini-Bike Operator's Manual.

24. If there are any problems or discrepancies, contact your Dealer or the Customer Service Department at Manco Products, Inc.

Checking/Adjusting Chain Tension

A new drive Chain will loosen in the first twenty minutes of use and need to be adjusted. The drive chain should be kept properly adjusted for the best performance and to prevent excessive Chain and Sprocket wear.

Check the tension by removing the Front and Center section of the Chain Guard. A properly adjusted chain will have no more than ½" of flex between the two sprockets.

Adjust the Chain tension as follows:

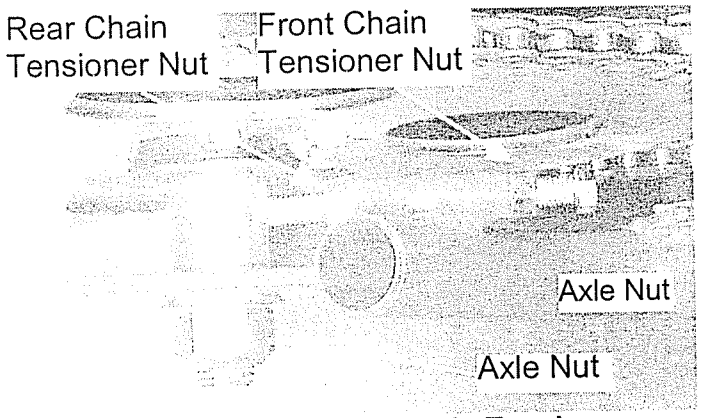


Figure 2: Right Side Chain Tensioner

1. Remove the three sections of the Chain Guard (PN 5324).
2. Ensure the Brake Caliper Bracket (PN 5216) mounting Bolt is loose enough to allow the Bracket to slide. There should be at least two Bolt threads protruding from the Nut.
3. Loosen the rear Axle Nuts (PN 9162) approximately one turn. See Figure 2.
4. Loosen the front Chain Tensioner Nut on the left and right side of the vehicle.
5. Tighten the right and left Chain Tensioner Bolts equal amounts while holding the rear Nuts in position.

CAUTION: Failure to turn the left and right Bolts equal amounts will result in the rear Tire being out of alignment and cause poor handling and adverse tire wear.

6. Check the Chain tension and ensure it flexes approximately 3/8". Do not over tighten the Chain!

CAUTION: Failure to properly tighten the Chain will result in poor performance and possible damage to the Chain and Sprocket.

7. Tighten the front Chain Tensioner Nut against the bushing while holding the rear Axle Tensioner Nut in position. Repeat for the opposite side.
8. Tighten the Axle Nuts securely and replace the three sections of the Chain Guard.
9. Check the Brakes to ensure they are not dragging. If necessary, adjust as directed in the Addendum to Operator's Manual (PN 9233R2).

Headset Maintenance/Adjusting

Note: Reference YST Installation Instructions. Inspect the Headset (PN 5250) each time before riding the vehicle. Ensure the Bearing Cup (#6) is free of cracks, there is no visible grease around the Head Tube of the Frame, and that there is no excessive looseness of the Headset. Replace any damaged components immediately.

If there is excessive looseness of the Headset, the bearing pre-load must be adjusted as follows:

1. Loosen the two Stembinder bolts (right side PN 5249) using a 6mm Allen Wrench.
2. Remove the small black rubber trim piece from the head of the Headset Compression Bolt.
3. Tighten the Compression Bolt using a 5mm Allen Wrench to remove any play, but not tight enough to cause the Headset to bind.

WARNING: Insufficient pre-load force will result in a loose headset. Excess pre-load force will result in the Headset binding. Either condition will cause rapid Headset wear and could adversely affect the steering characteristics of the vehicle and may result in personal injury.

4. Align the Handlebars then securely tighten the two Stem Binder Bolts. Replace the rubber trim cap in the Compression Bolt.

WARNING: Make sure that the stem binder bolts are sufficiently tight to keep the Stem and Handlebars from turning on the Fork Steer Tube. A loose Stem can result in damage to the vehicle, loss of control, and severe injury or death.

The Headset should be disassembled, cleaned, inspected, and lubricated twice per year. If the vehicle is used in extremely sandy, muddy, or wet conditions, service the Headset more often. Check for cracked bearing cups (#5,6), missing ball bearings (#4,7), and worn bearing races (#3,5,6,8). Replace any damaged components immediately.

MAINTENANCE RECORD

DATE	MAINTENANCE PERFORMED	DATE	MAINTENANCE PERFORMED