

# Operator's Manual SUPPLEMENT

## WARNING:

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

Parts List  
Assembly

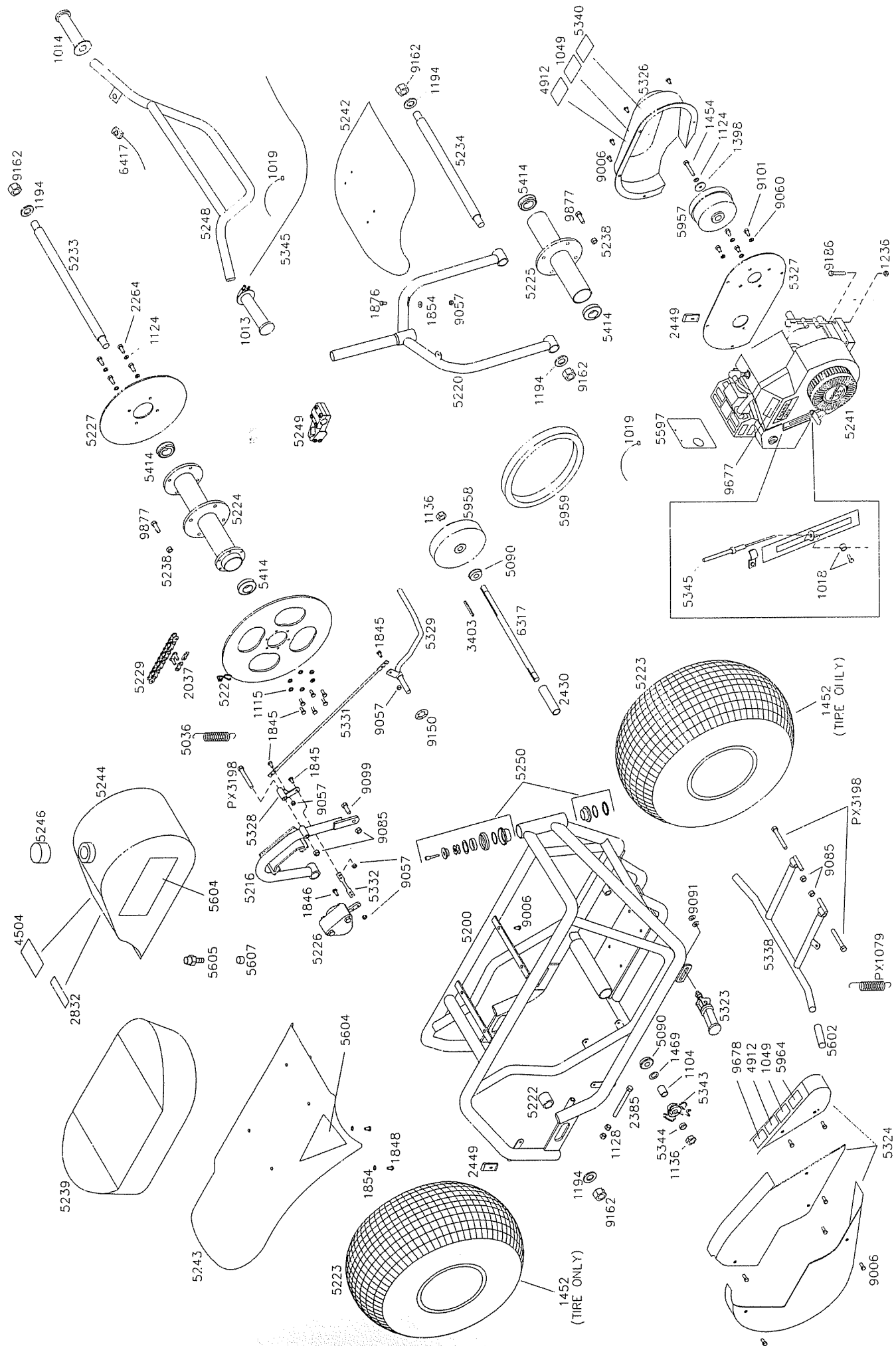
MODEL  
595-09

***MANCO***  
***PRODUCTS, INC.***

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ph (219) 432-1596 fx (219) 432-7870

THIS VEHICLE IS FOR  
OFF-ROAD USE ONLY

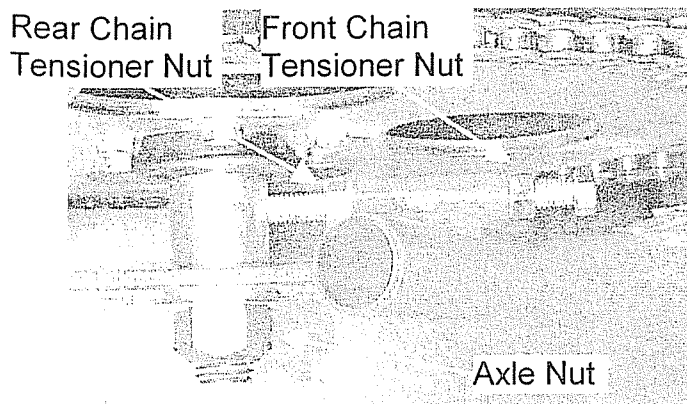
BEFORE OPERATING THIS VEHICLE, THE OWNER AND/OR OPERATOR MUST UNDERSTAND THE VEHICLE WAS NOT DESIGNED OR MANUFACTURED TO MEET SPECIFICATIONS FOR USE ON PUBLIC ROADS, STREETS, HIGHWAYS, OR THOROUGHFARES AND HAVE READ AND HAVE AN UNDERSTANDING OF ALL THE INSTRUCTIONS FOR SAFE ASSEMBLY AND OPERATION AS WELL AS THE INSTRUCTIONS GOVERNING THE ENGINE AND OTHER PORTIONS OF THE VEHICLE.



<u>PN</u>	<u>DESCRIPTION</u>	<u>PN</u>	<u>DESCRIPTION</u>	<u>PN</u>	<u>DESCRIPTION</u>
1013	Grip, Right Side Twist	5223	Tire and Wheel, 22/11 x 8"	5607	Hose Clamp, 7/16
1014	Grip, Left Side Stationary	5224	Hub, Rear	5957	Driver Pulley, 30 Ser
1018	Cable Stop	5225	Hub, Front	5958	Driven Pulley, 30 Ser
1019	Cable Tie	5226	Brake Caliper	5959	Drive Belt, 30 Ser
1049	Decal, No Foot On Drive Cover	5227	Brake Disc 10.37" OD	5964	Decal, No Oil In Crankcase
1104	Spacer 5/8 ID x 14G x 1" Long	5228	Sprocket, 420P x 80T	6317	Jackshaft, 5/8 OD x 14-1/4"
1115	Washer, 1/4 Split Lock	5229	Chain, #420 116P Including ML	6417	Stop Switch
1124	Washer, 5/16 Split Lock	5233	Axle, Rear 19-5/32"	6573	Bolt, 5/16-18 x 1-3/4 GR 5
1128	Nut, 3/8-16	5234	Axle, Front 17-9/32"	9006	Bolt, 1/4-20 x 1/2 Whiz Flange
1136	Nut, 5/8-18 Center Lock Jam	5237	Drive Cover Plate	9057	Nut, 1/4-20 Top Lock
1194	Washer, 3/4 Flat	5238	Nut, M10 1.5 Flange	9060	Washer, 5/16 Flat
1236	Nut, 5/16-18 Whiz Flange	5239	Seat	9085	Nut, 3/8-16 Top Lock
1398	Washer, 21/64ID x 1/8Thick	5241	Engine, Tecumseh 5.0 hp	9091	Washer, 3/8 Flat
1452	Tire, 22/11 x 8" Knobby	5242	Fender, Front	9099	Bolt, 3/8-16 x 1 GR 5
1454	Bolt, 5/16-24 x 1-3/4 GR 5	5243	Fender, Rear	9101	Bolt, 5/16-24 x .500 GR 5
1469	Washer, 5/8ID x 1/16Thick	5244	Fuel Tank	9150	Nut, 1/2 Push
1628	Throttle Cable Retainer	5246	Fuel Cap	9162	Nut, 3/4-10 Top Lock
1845	Bolt, 1/4-20 x 5/8 GR 5	5248-2	Handlebar	9186	Bolt, 5/16-18 x 1-1/2 GR 5
1846	Bolt, 1/4-20 x 3/4 GR 5	5249	Stem	9677	Decal, Warning Hot Surfaces
1848	Bolt, 1/4-20 x 1-1/4 GR 5	5250	Headset, 30mm/34mm	9678	Decal, Warning Exhaust Is Bad
1854	Washer, #14 Flat	5323	Foot Pegs	9877	Bolt, M10 1.5 25
1876	Bolt, 1/4-20 x 5/8 Whiz Flange	5324	Chain Guard	PX1079	Extension Spring, 3" Long x .500 OD
2037	Master Link, #420	5326	Drive Cover	PX3198	Bolt, 3/8-16 x 2-3/4 GR 5
2264	Bolt, 5/16-18 x 3/4 GR 5	5328-5	Pivot Tube, Red		
2385	Bolt, 3/8-16 x 4 GR 2 Full Thread	5329-5	Brake Lever, Red	2684E	Manual, Engine Operator
2430	Spanner, 5/8 ID x 7-1/8 Long	5331	Brake Rod, 18-11/16	4198	Manual, Mini-Bike Operator
2449	Nut, Tinnerman 1/4-20	5332	Brake Rod, 4-1/16	9233R2	Addendum, Brake/Drive Sys. Maint.
2832	Decal, No Passengers	5338-5	Center Stand, Red	9299R1	Manual, Repair Parts
3403	Key, 3/16 sq x 2"	5340	Decal, Tire Pressure	9299S1	Manual, Headset Assembly
4504	Decal, Warnings	5343	Sprocket, 420P x 8 T x 5/8 ID		
4912	Decal, Keep Chainguards In Place	5344	Spacer, 5/8 ID x 14g x 1/4 Long		
5036	Extension Spring, 3"Long x .375OD	5345	Throttle Cable		
5090	Bearing, 5/8ID w/ Snap Ring	5414	Bearing, 1"ID x 2"OD w/ Flange		
5200-5	Frame, Red	5597	Mud Guard		
5216-5	Caliper Support, Red	5602	Plastic Cover		
5220-5	Fork, Red	5604	Decal Set, Trail Sport		
5222	Spacer 1 ID x 1-1/4 OD x 1-1/4 Lg	5605	Hose Fitting, 1/4 NPT 1/4 Hose		

will have no more than 1/2" 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 crack 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 component 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 of the Headset) 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 on 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), worn bearing races (#3,5,6,8). Replace any damaged components immediately.

# 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 5248) 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.

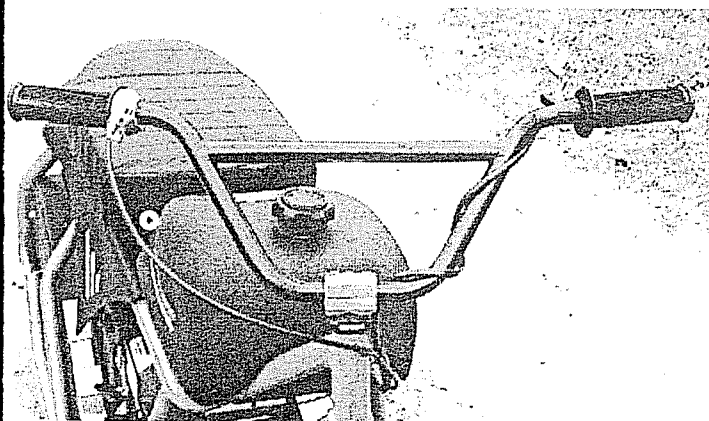


Figure 1: Cable Routing

## Throttle Assembly

10. Remove the Cable Tie holding the Twist Grip (PN 1013) and Stop Switch (PN 6417) 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 1/4". 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.

## Pre-Ride Maintenance

19. 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.

20. 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.
21. 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