

Thank you for purchasing the Cyclone Rake Single Pin Conversion Kit! This manual will guide you through the process of upgrading your existing Cyclone Rake with the Single Point Hitch. Please read and follow these instructions carefully to ensure a smooth and safe installation process.

## GETTING STARTED

Your Cyclone Rake Single Point Conversion Kit includes the following boxed components:

- **Single Point Hitch Assembly Box** (includes Hitch Components and Hardware)
- **Wheel Forks Box** (Dual or Single depending on your order)
- **Hose Hanger & Wheel Axle Box**
- **Deck Hose** (if required for your setup)

Before you begin, please verify that all parts listed above are present.

## TOOLS YOU'LL NEED:

- Two 1/2" Box wrenches or sockets
- Two 9/16" Box wrenches or sockets
- Two 3/4" Box wrenches or sockets (or 15/16" if your wheel forks require it)
- 7/16" Wrench
- 1" Wrench
- Utility knife
- Cutting pliers

## OK, LET'S GET STARTED!

### PREPARE THE CHASSIS FOR NEW PARTS

#### REMOVE THE ENGINE UNIT:

1. **Fig. 1)** Unscrew the two engine clamp knobs that secure the engine to the Chassis and carefully remove the Engine Unit from the frame.

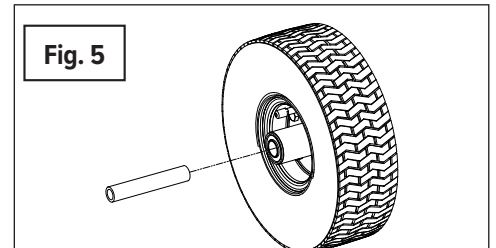
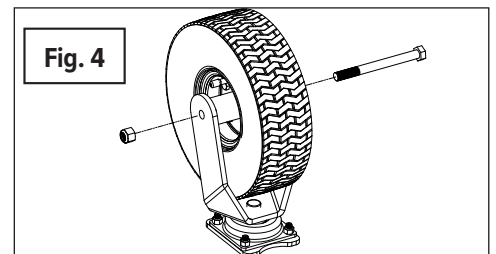
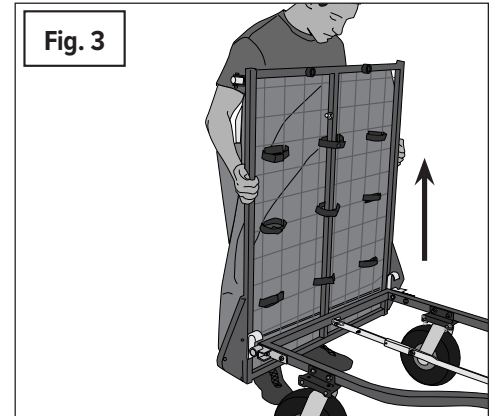
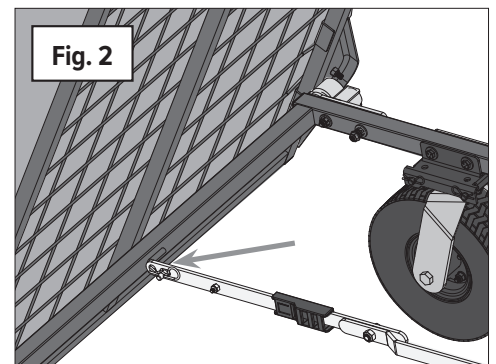
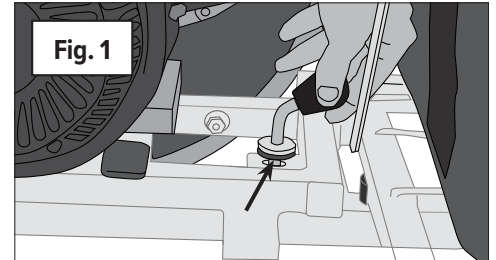
**CAUTION:** *The Engine/Blower Unit is heavy. You may need assistance removing it from the Chassis.*

#### REMOVE THE COLLECTOR UNIT:

1. **(Fig. 2)** Lift up the Collector and remove the bridge pin from the dump link. Then attach the dump link to the stud on the Chassis.
2. **(Fig. 3)** Remove the Collector by lifting it off the Chassis and set it aside.
3. Unhook the Chassis from the tractor if it is attached.
4. Next, flip the Chassis upside down so the wheels are on top.

#### REMOVE THE OLD WHEEL FORKS

1. Remove one of the quick-release pins from the caster pads, on each side.  
**Or** if using the permanent connection, remove one of the bolts on each side and then remove the wheels.
2. **(Fig. 4)** Next, remove the axle bolt from the wheel assembly, using the two wrenches. 3/4" wrenches, or, if you have dual wheels use the two 5/16" wrenches.
3. **(Fig. 5)** Then, remove the axle tube that is inside the wheel assembly.
4. Save the wheels and discard the old Wheel Forks.



## REMOVE THE OLD HITCH FORKS

1. **(Fig. 6)** Using the 1/2" wrenches or sockets remove the 4 bolts and nuts that hold the hitch forks onto the Chassis. If you have a Jack Stand also remove the Jack Stand bracket and the mounting tube that is on the Chassis.

## INSTALLING THE NEW WHEEL FORKS (2 WAYS)

### WHERE TO FIND THE PARTS

Open the box marked **Wheel Forks** to find the wheel forks.

Open the **Hose Hanger & Wheel Axle Box** to find the wheel axle.

You will also find the Hose Hanger and Hose Hammock in this box. Set them aside.

You will install them later.

**PLEASE NOTE:** *There are cut outs in the box for 2 axles depending on the length, You will only need the one axle shipped. You are not missing anything.*

### TOOLS YOU'LL NEED:

- Two 9/16" Box wrenches or sockets
- Two 3/4" Box wrenches or sockets (or 15/16" if your wheel forks require it)

### QUICK RELEASE INSTALLATION

**(Fig. 7)** If you are planning on removing your wheels when storing your Cyclone Rake.

1. Slip the wheel fork under the remaining 3/8-16 x 5" hex head bolt.
2. Then reinstall the Quick-Release Pin into lower hole and secure it with the bow tie pin **on the inside of the Chassis** as shown in Fig 3.
3. Repeat on the other side.

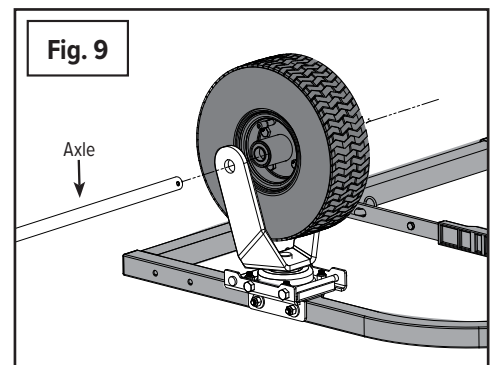
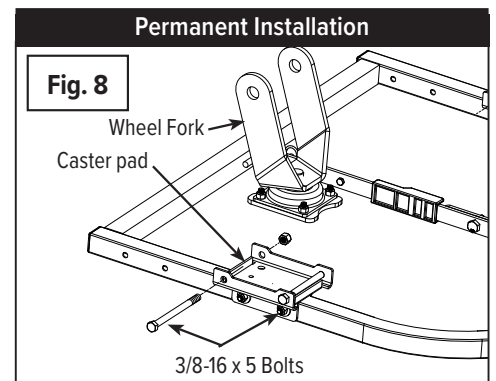
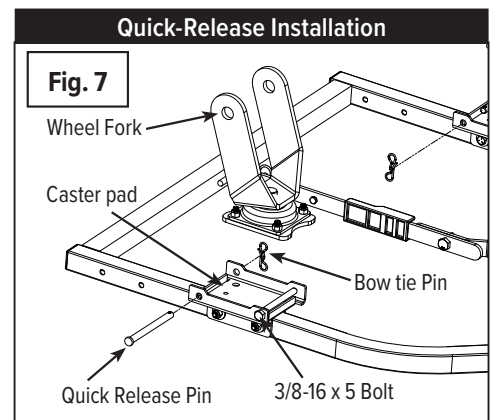
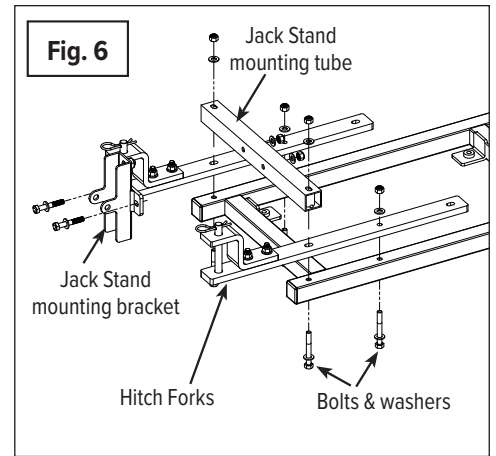
### PERMANENT INSTALLATION

**(Fig. 8)** If you are planning to keep your wheels attached at all times

1. Slip the wheel fork under the remaining 3/8-16 x 5" hex head bolt.
2. Then reinstall the other 3/8-16 x 5" hex head bolt into the lower hole and secure with a 3/8-16 nylon lock nut.
3. Repeat on the other side.
4. Tighten the bolts using the 3/4" wrenches. Ensure that all fasteners are secure and properly tightened.

## INSTALLING THE WHEELS & AXLE

1. Locate the bag of bow-tie pins and washers. Install one washer and bow-tie pin to one end of the axle.
2. **(Fig. 9)** Align both wheel forks as shown with the fork angled back toward the back of the Chassis.
3. Starting with either wheel fork, hold one of the single wheels or one of the dual wheels in the center of the wheel fork. Then slide the axle through the outside of the wheel fork, through the center hub of the wheel(s) and out through the opposite side of the wheel fork.
4. Continue sliding the axle across and repeat step 2 for the other wheel fork.
5. Install the other washer and bow tie pin into the open hole on the end of the axle.



## INSTALLING THE SINGLE POINT HITCH & HOSE HANGER:

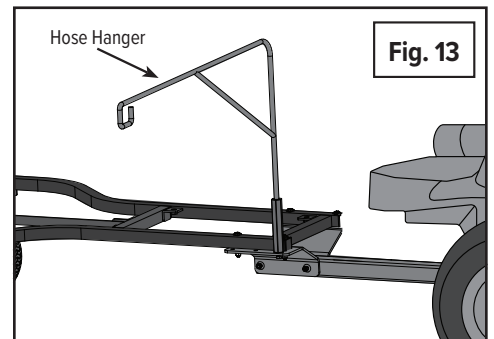
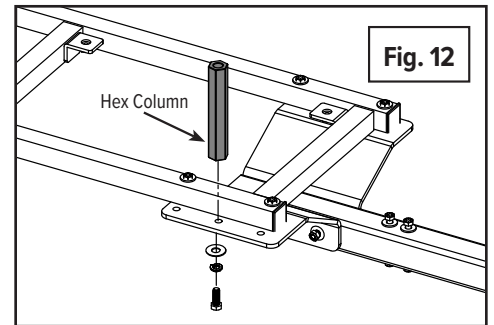
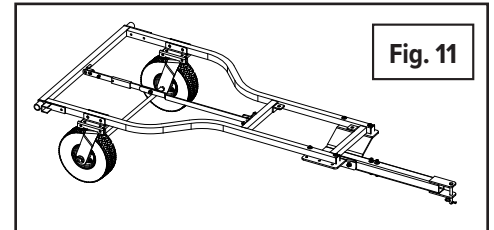
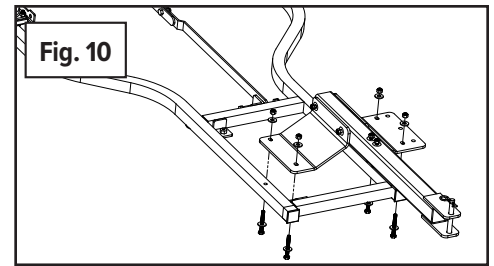
### WHERE TO FIND THE PARTS:

Open the box labeled **Single Point Assembly** It will include the Single Point Hitch, the Hitch Pin and Hex Column.

Locate the **Hose Hanger** you removed earlier from the **Hose Hanger & Wheel Axle Box**.

### TOOLS YOU'LL NEED:

- Two 1/2" Box wrenches or sockets
  - 1" Wrench
1. **(Fig. 10)** With the Chassis still upside down, lay the Single Point Hitch on top of the Chassis as shown. Then insert four 2.5" bolts, with washers up from beneath the Chassis and trough the Hitch and secure each bolt with a washer and lock nut.
  2. **(Fig. 11)** Flip the Chassis over onto the wheels.
  3. **(Fig. 12)** Next, attach the Hex Column into the middle hole of the hitch bracket, using one 3/8-16 x 1" bolt, lock washer and washer.
  4. **(Fig. 13)** Attach Single Point Hitch to the existing hitch on the rear of your mower. Then place the Hose Hanger into the Hex Column.



## RE-INSTALL THE COLLECTOR UNIT

1. Hold the Collector Unit vertically and lower the J-hooks onto the round tubes of the hinge blocks located at the back of the Chassis.
2. Lift the Collector Unit to the upright position, locate the dump linkage bar on the Chassis, remove the bridge pin from the stud and attach the dump link to the Collector frame.

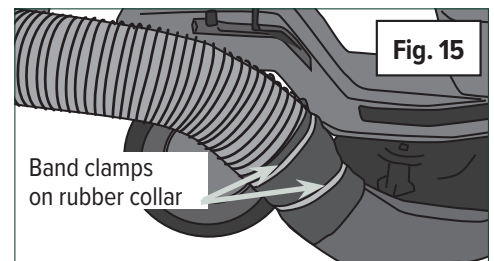
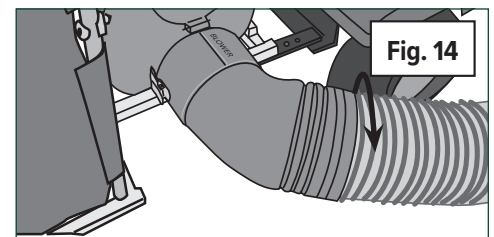
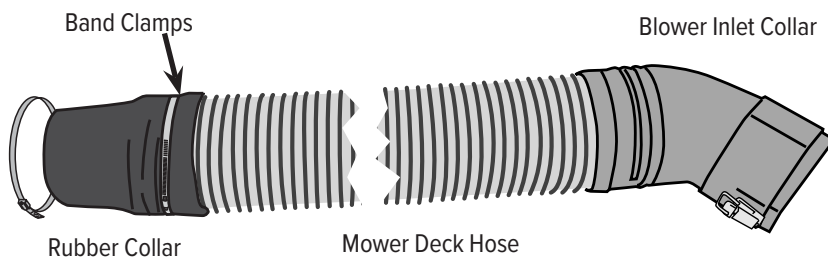
## RE-INSTALL THE ENGINE/BLOWER UNIT

**CAUTION: The Engine/Blower Unit is heavy. You may need assistance removing it from the Chassis.**

1. Carefully position the Engine Unit on the Chassis and secure the engine using the two engine clamp knobs and rubber washers you removed earlier.

## RE-INSTALLING THE DECK HOSE WITH THE RUBBER COLLAR

Remove the Blower Inlet Collar and Rubber Collar from your old deck hose.

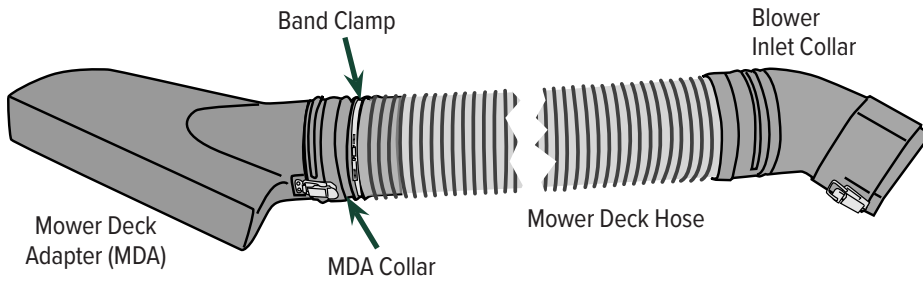


### TOOLS YOU'LL NEED:

- 5/16" Nut driver or socket)
1. **(Fig. 14)** Connect the curved plastic elbow marked "BLOWER" onto the blower intake opening and secure it with the two latches.
  2. **(Fig. 14)** Install the deck hose by inserting it into the collar and twisting it in a counter-clockwise direction until it stops.
  3. **(Fig. 15)** Pull the Rubber collar over the other end of the deck hose and secure using one of the band clamps provided.
  4. **(Fig. 15)** Next, loosely slip the other band clamp onto the grass catcher boot. Then slip the rubber collar with the deck hose over the grass catcher boot on your mower deck. Pull the band clamp over the rubber collar and tighten to secure.

## RE-INSTALLING THE DECK HOSE WITH THE MDA

Remove the Blower Inlet Collar and MDA Collar from your old deck hose.



### TOOLS YOU'LL NEED:

- 5/16" Nut driver or socket

1. **(Fig. 16)** Connect the curved plastic elbow marked "BLOWER" onto the blower intake opening and secure it with the two latches.
2. **(Fig. 16)** Install the deck hose by inserting it into the collar and twisting it in a counter-clockwise direction until it stops.
3. **(Fig. 17)** Insert the MDA collar, marked "MOWER DECK" into the other end of mower deck hose and secure using the bridge-type band clamp provided.
4. **(Fig. 17)** Connect the MDA collar to the MDA and secure with the latches.

### CHECK THE HOSE LENGTH

For some mowers, the deck hose included may be too long. Follow the instructions below to determine the correct length for your tractor.

1. **(Fig. 18)** Turn tractor all the way to the left to determine the longest hose dimension needed.
2. The hose should not be sagging or touching the ground. If it is, follow the steps below to shorten it to the proper length.

### SHORTENING THE DECK HOSE

#### TOOLS YOU'LL NEED:

- Utility knife
- Cutting pliers

#### Try this first!

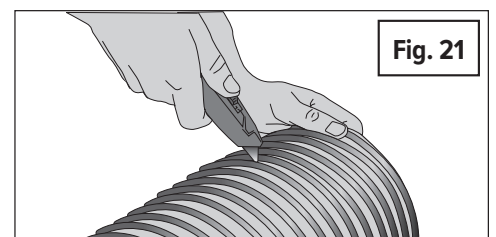
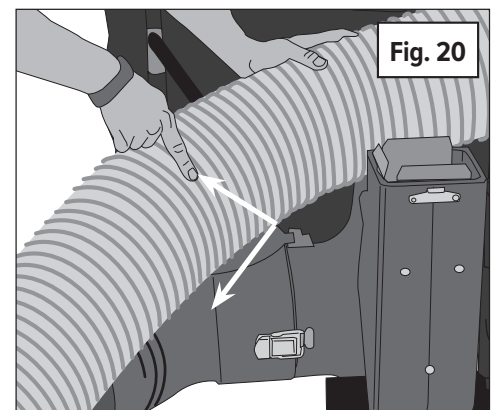
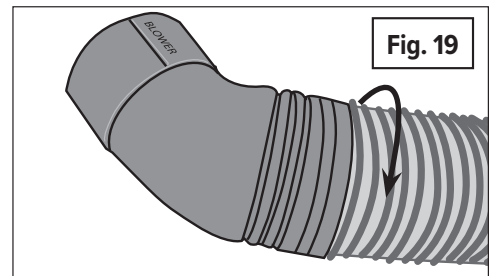
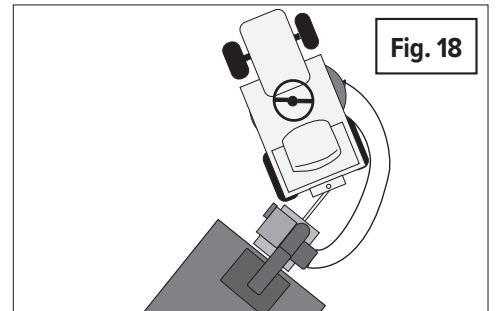
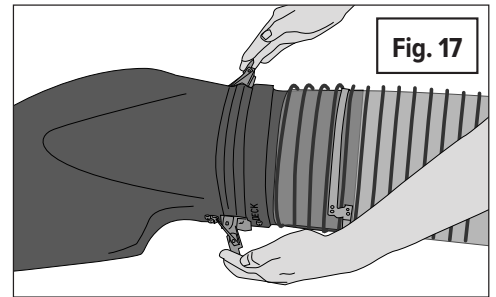
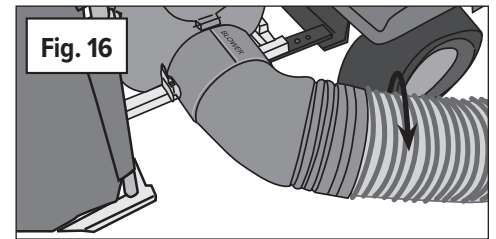
1. Unhook hose from the blower housing.
2. **(Fig. 19)** Screw the hose further into the blower collar; if this shortens the hose enough, you are done. Move on to Installing the Hose Hammock.

#### IF THE HOSE IS STILL TOO LONG...

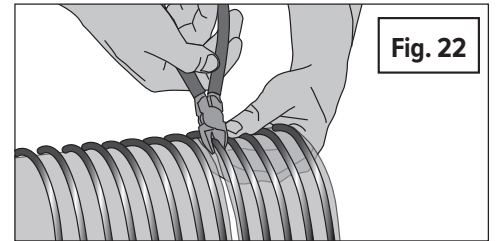
1. Unhook Blower Inlet Collar & Hose from the blower housing.
2. **(Fig. 8)** Remove the hose from the Blower Inlet Collar and reattach the collar back onto the blower inlet.
3. **(Fig. 20)** Stretch the hose over the Blower Unit until the hose is off the ground. Look down at the Blower Collar and mark the hose where it lines up just past the threads of the collar. This is the amount of hose needed to be cut.

**CAUTION:** Cut off only a few inches at a time, so you don't shorten the hose too much.

4. **(Fig. 21)** Puncture through the hose web with a utility knife. Roll the hose while slitting the web until you meet your cut on the other side.



5. **(Fig. 22)** Nick the reinforcing rib between the two ends of the cut using your knife or cutting pliers. Twist the rib and break it off.
6. Install the collar back on the hose and attach the collar to the blower housing.
7. Straighten out the tractor and Cyclone Rake.

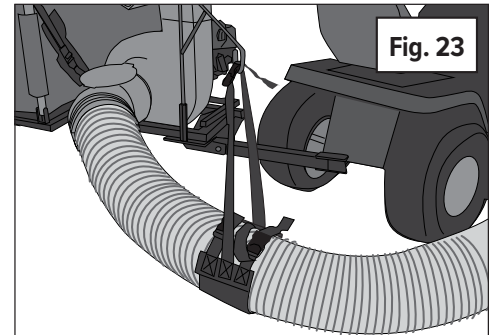


## INSTALLING THE HOSE HAMMOCK

Open the pouch labeled **Hose Hammock** you removed earlier from the **Axle & Hose Hanger Box**.

### TOOLS YOU'LL NEED:

- None
1. Wrap the 2 shorter straps around the hose and secure both buckles. Keep the straps slightly loose so you can slide the Hammock into the best position.
  2. **(Fig. 23)** Lift the center straps and attach them to the hose hanger.
  3. Slide the Hammock along the hose until it's in a good spot to support the hose. Then tighten the shorter straps for a secure fit.



**INSTALLATION NOTE:** *If needed, you can move the Hex Tube and Hose Hanger from the center hole to either of the two other holes in order to get a natural curve.*

### CONGRATULATIONS!

You've finished assembling your Cyclone Rake Single Point Conversion Kit. Enjoy the enhanced performance and convenience of your upgraded system!

If you encounter any difficulties during installation or have questions, our support team is ready to assist you.