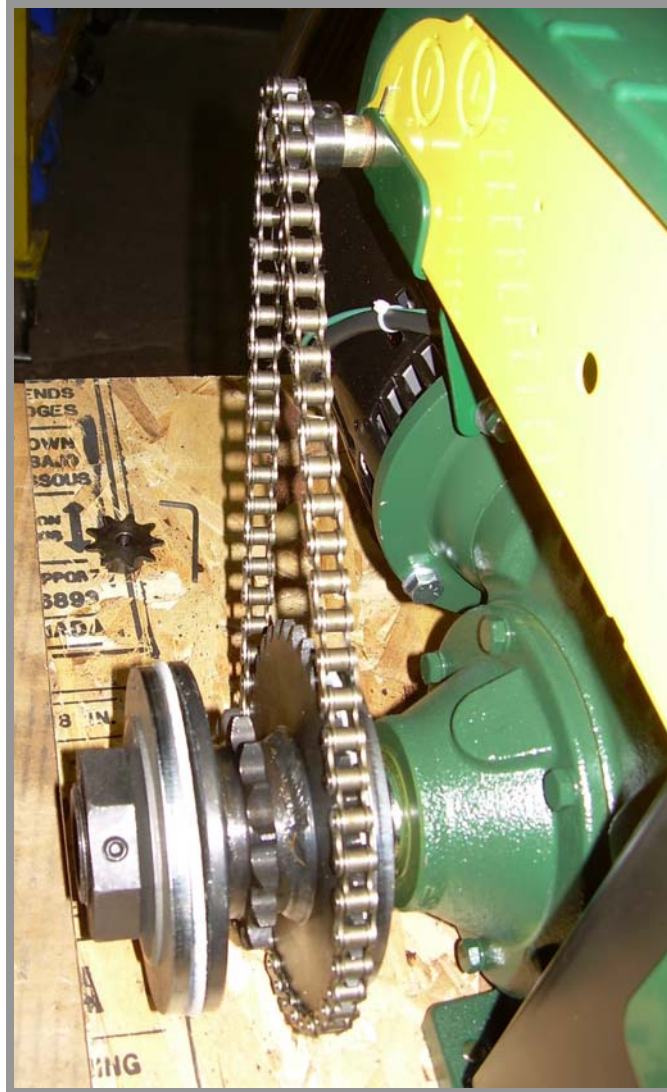


# Installation & Instructions Manual



## Installing a Friction Clutch on Opera-GH (Field modification – right hand)

**Note:**

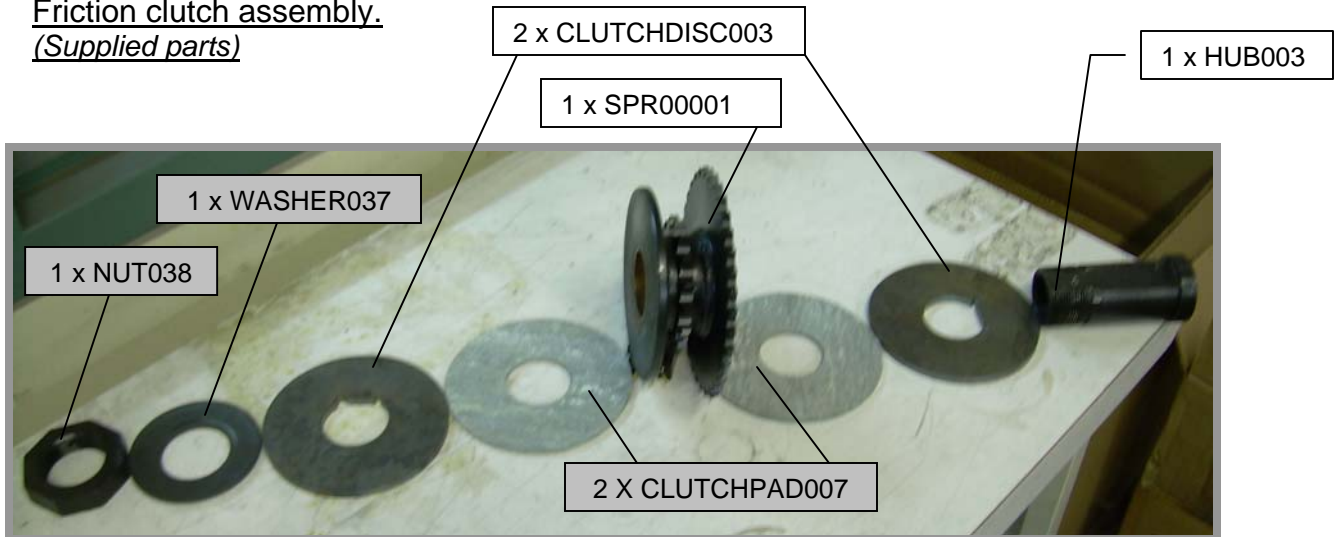
For all general information, refer to the Installation and Instruction Manual supplied with the operator.



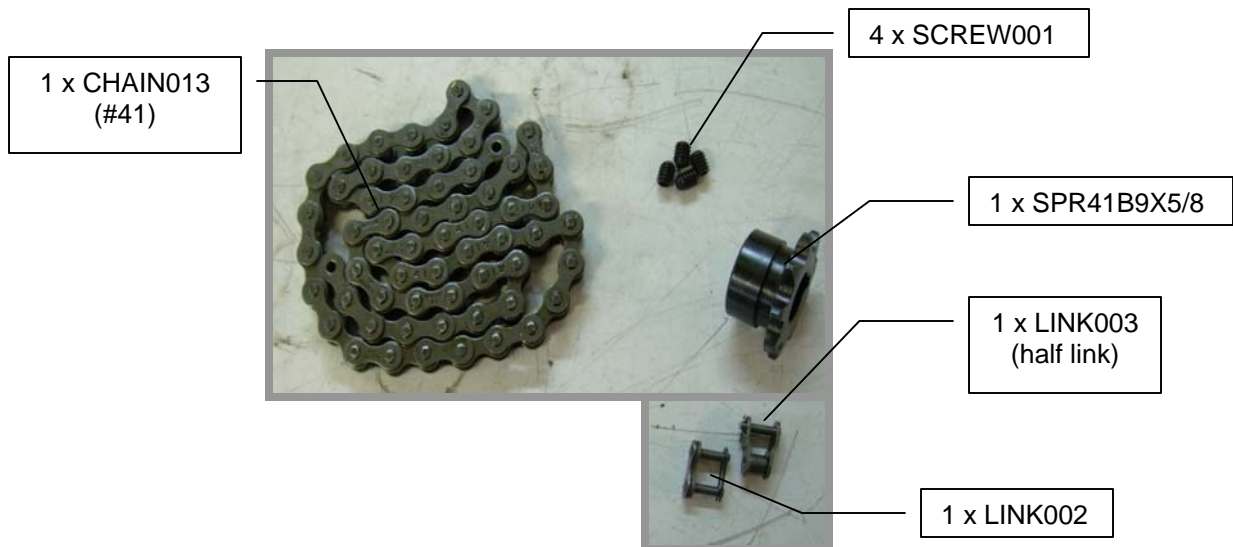
## IMPORTANT

Before starting any intervention, please check if you have the right tools and all the parts needed.

### Friction clutch assembly. *(Supplied parts)*



### Limit shaft & chain modification *(Supplied parts)*

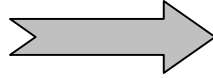
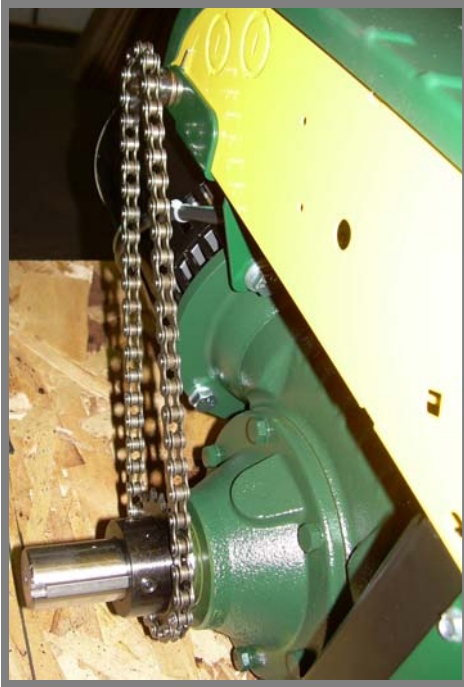


### WARNING

Before starting any intervention, please shut OFF the main power from the operator or the control panel.

**Step 1: Remove the existing sprocket and limit chain from the Opera-GH.**

Note: Please use appropriate tools while performing these modifications.

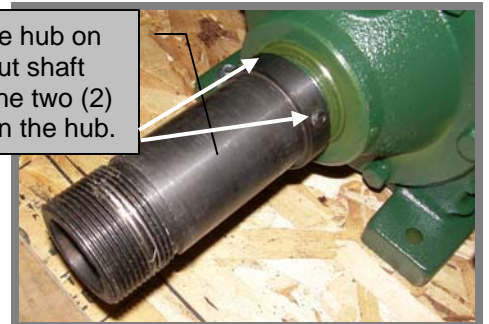


**Step 2: Mount the friction clutch on the output shaft of Opera-GH.**

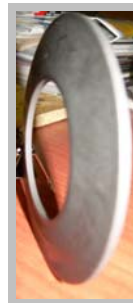
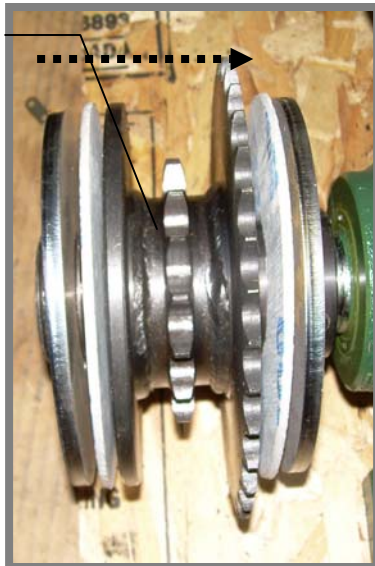


Assembling order on the reducer drive shaft

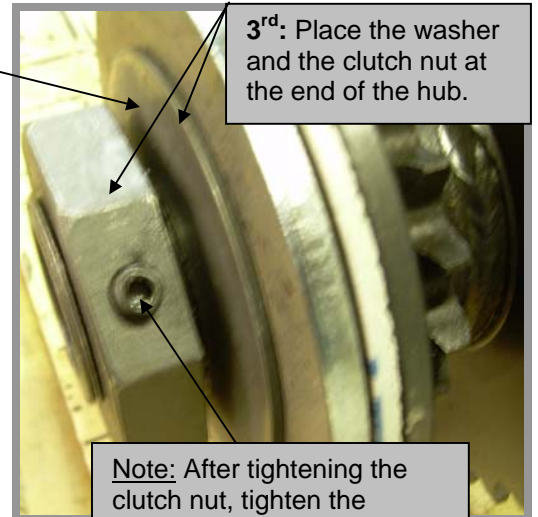
1<sup>st</sup>: Mount the hub on reducer output shaft and tighten the two (2) set-screws on the hub.



2<sup>nd</sup>: Mount the following parts on the hub:  
 1. Clutchdisc  
 2. Clutchpad  
 3. SPR00001  
 4. Clutchpad  
 5. Clutchdisc



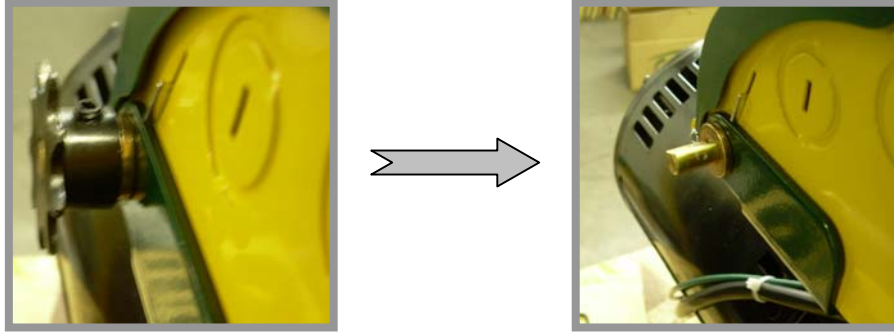
3<sup>rd</sup>: Place the washer and the clutch nut at the end of the hub.



Note: After tightening the clutch nut, tighten the locking set-crew on the nut.



### Step 3: Remove the sprocket from the limit shaft.

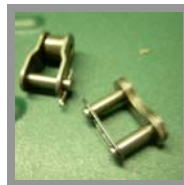
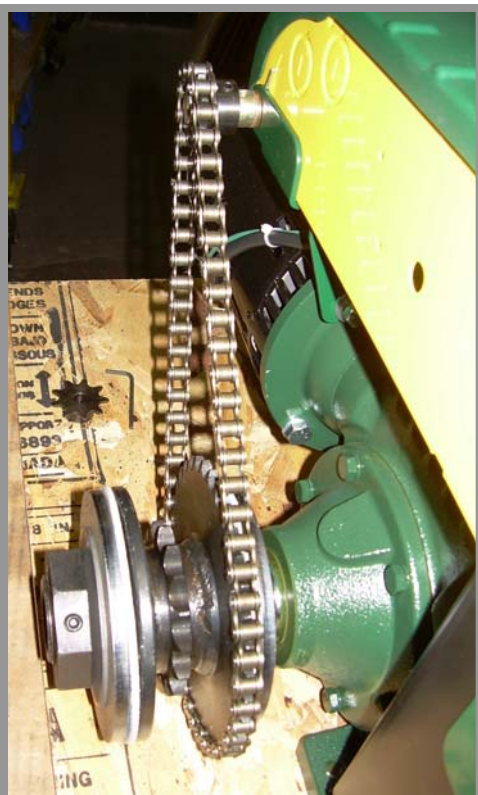


### Step 4: Install the SPR41B9x5/8 on the limit shaft.

Mount the sprocket on the limit shaft and tighten the set-screws.



### Step 5: Install the limit chain (CHAIN013 - #41)



Use the chain links to attach the limit chain.



#### WARNING

The friction clutch is designed to protect vehicles and door hardware against damage. It is not intended to protect people. All doors serving people are to be fitted with an appropriate reversing device or reversing edge to prevent injury or death.

#### CLUTCH ADJUSTMENT

- Tighten clutch nut gradually until there is just enough tension on spring to permit operator to move door smoothly, but allow clutch to slip if door is obstructed.
- When clutch is properly adjusted it should be possible to stop door with your hand during travel.
- Be sure to tighten clutch set-screws each time operator is tested for clutch adjustment and that it is locked in place on completion of adjustments.