

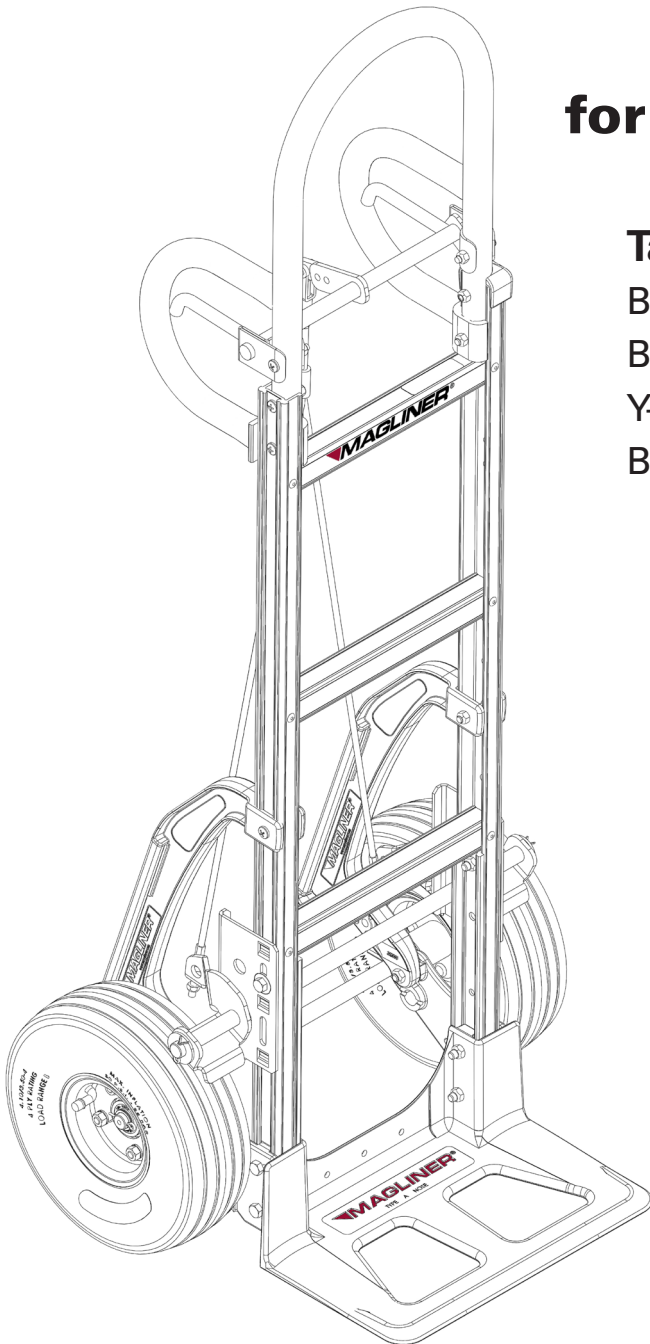
# *Assembly Instructions*

## **Paddle Brake Y-Cable**

**for No. 36 Handles**

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# 1

## BOTTOM BRAKE COMPONENTS

### PARTS LIST

Description	Qty.	Part No.
Bottom mounting bracket	2	304152
Hex head cap screw 5/16"-18 x 1-1/2" long	2	80013
Flat washer for 5/16" bolt	2	80701
Hex locknut 5/16"-18	2	80676
Pivot shaft	1	304157
Flat washer for 5/8" bolt	4	80705
Brake paddle LH	1	304155
Brake paddle RH	1	304156
Cotter pin for axle 1/8" x 1" long	2	81077

#### TOOLS REQUIRED

- (2) 1/2" WRENCHES
- (1) 7/16" WRENCH
- (1) #2 PHILLIPS SCREWDRIVER
- (1) NEEDLE NOSE PLIERS
- (1) RULER OR TAPE MEASURE

#### ADDITIONAL TOOLS REQUIRED IF RETROFIT TO EXISTING TRUCK:

- (1) ELECTRIC DRILL
- (1) 3/8" DRILL BIT

*For retrofitting Y-cable brake kit to an existing hand truck see directions at bottom of this page.*

1. The bottom mounting brackets require a hole that lines up with the top hole in the side rail reinforcement (located on the inside of the bottommost part of all hand truck frames). For hand trucks that already have holes in the side rails for mounting the bottom mounting brackets, use a screwdriver to punch a hole through the red stripe.
2. Position each of the bottom mounting brackets (304152) as illustrated in Figure 2. Fasten with the 5/16" x 1 1/2" long hex head cap screw (80013) and one 5/16" washer (80701) on the outside through the uppermost slot. Secure with the 5/16" locknut (80676) on the inside. (Note: Do not fully tighten until the final brake adjustment is done.)
3. Slide the pivot shaft (304157) through each of the lower holes provided in the mounting brackets and install a 5/8" washer (80705) on each end.
4. Assemble each of the brake paddles (304155, 304156) on the pivot shaft as illustrated, making sure that each of the extending lower tabs (TAB) are positioned towards the center of the hand truck as shown.
5. Install a second 5/8" washer (80705) on each end of the pivot shaft and secure the assembly by inserting a cotter pin (81077) in the holes provided at both ends of the shaft. Bend the ends of each of the cotter pins (81077) using the needle nose pliers to hold it in place.

### FIELD RETROFIT

When retrofitting a Y-cable brake kit to an existing hand truck without the side rail hole that lines up with the top hole in side rail reinforcement, mounting holes will need to be drilled in the frame, one on each side.

1. Using a ruler or tape measure, mark a location in the center of the side rail 7 3/4" above the wheel bracket as illustrated in Figure 3 on both sides.
2. Drill a hole using a 3/8" drill bit in the location marked.

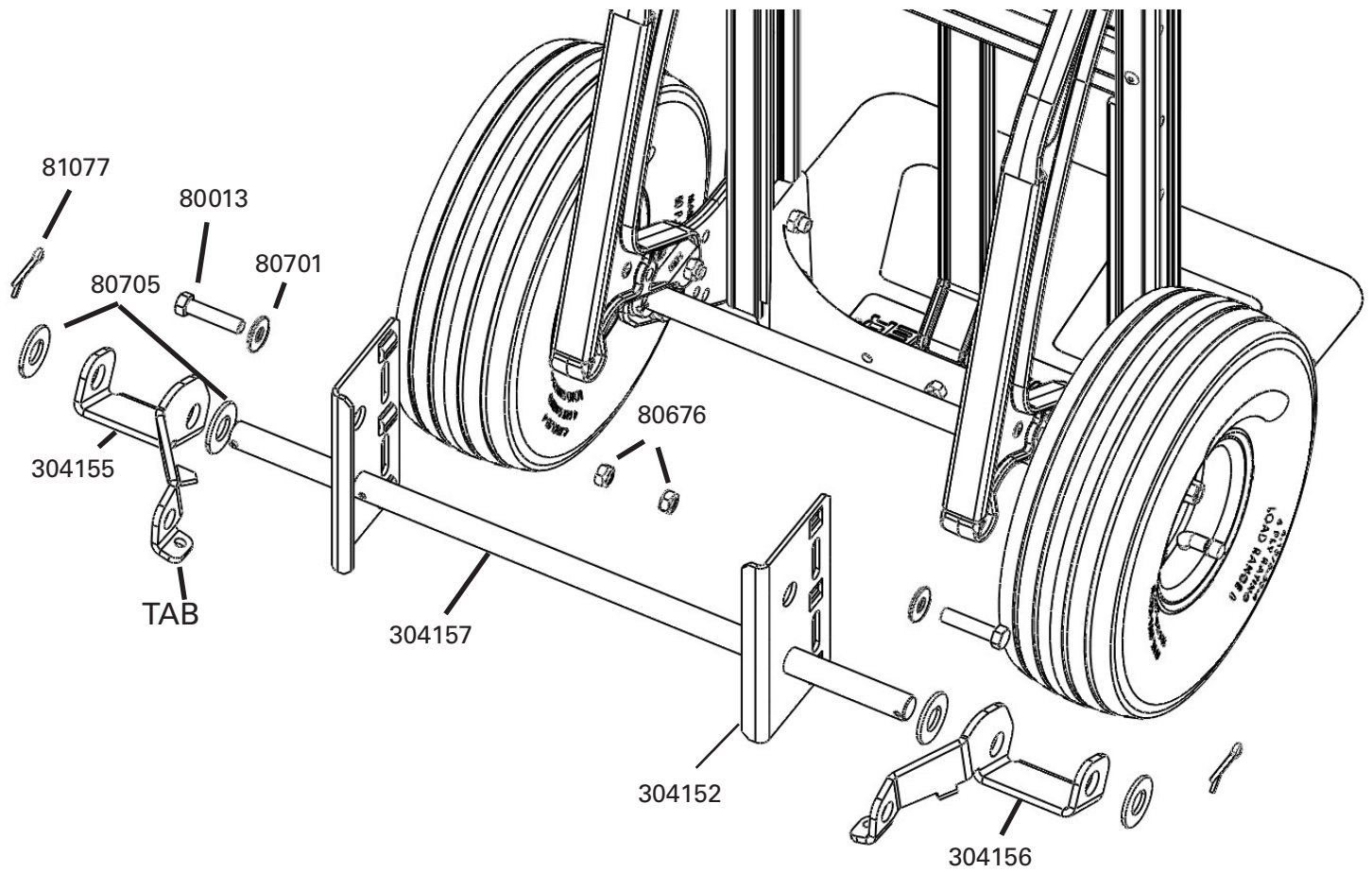


Figure 1

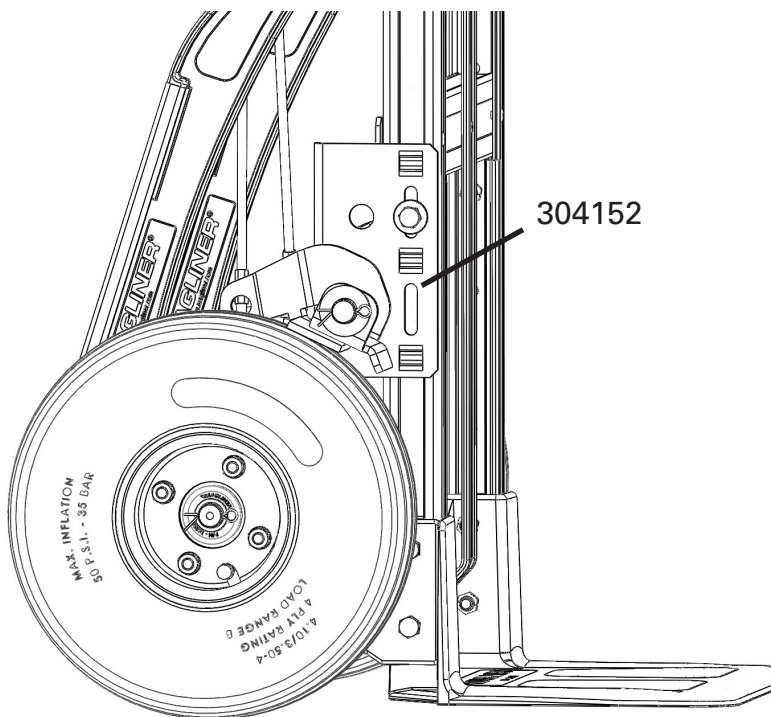


Figure 2

Drill a 3/8" diameter hole if it does not exist. See FIELD RETROFIT instructions.

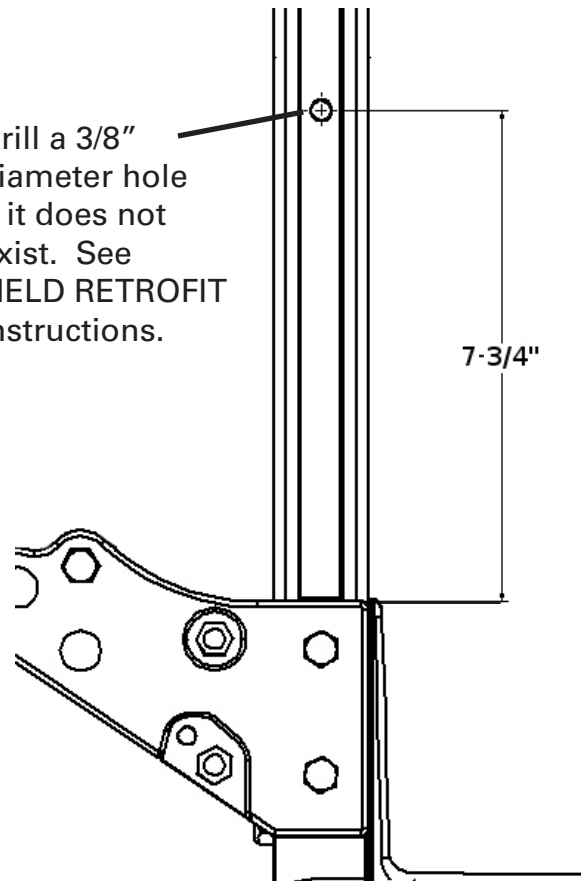


Figure 3

# 2

## DOUBLE GRIP HANDLE PADDLE BRAKE ACTUATOR ASSEMBLY

Description	Qty.	Part No.
Handle extension	1	304159
Hex locknut 1/4"-20	2	80675
Pan head machine screw 1/4"-20 x 3/4"	2	80256
Spacer 1/4" ID X 5/16" long	1	304058

### TOOLS REQUIRED

- (1) 7/16" WRENCH
- (1) #2 PHILLIPS SCREWDRIVER

1. Position the handle extension such that the holes in the extension (304159) line up with the holes in the brake actuator.
2. Install the 1/4"-20 screws (80256) into the two holes, alternating the orientation of the screws as shown in Figure 5. Secure with the 1/4"-20 locknuts (80675).
3. After PADDLE ADJUSTMENT (page 6), be sure to install the 1/4" ID x 5/16" long spacer (304058) before attaching the Y-cable to the handle extension (see ADJUSTING THE CABLE TENSION).

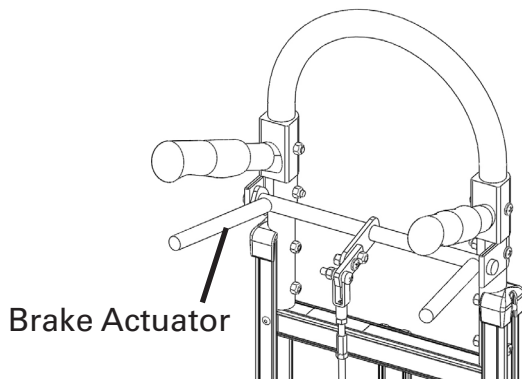


Figure 4

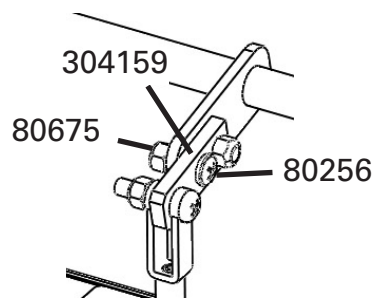


Figure 5

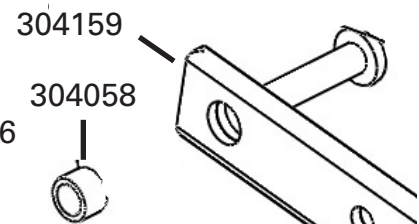


Figure 6

# 3

## Y-CABLE ASSEMBLY

Description	Qty.	Part No.
Y-cable 27"		304139
1/4"-28 jam nut	6	80665
Yoke end	1	304056
Pan head machine screw 1/4"-20 x 1" long	1	80102
Hex locknut 1/4"-20	1	80675
Brake adjustment spacer (shown on next page)	2	304073

### TOOLS REQUIRED

- (1) 7/16" WRENCH
- (1) #2 PHILLIPS SCREWDRIVER

1. Insert each of the lower ends of the Y-cable in the holes located on the extending lever tabs (TAB) of each brake paddle as illustrated in Figure 7.
2. Thread one 1/4"-28 jam nut (80665) onto both ends of the cable to approximately 1-1/2" from the end using your fingers. (Note: It may be necessary to use a 7/16" wrench and hold the cable with a pair of pliers above the threaded section to prevent the cable from spinning while performing this step.)
3. Thread a second 1/4"-28 jam nut (80665) onto the cable until it is snug with first jam nut and tighten them together using the two 7/16" wrenches to 50-60 in.-lbs. of torque.
4. Thread one 1/4"-28 jam nut (80665) all the way on the upper end of the Y-cable. Thread the yoke end (304056) onto the threaded stud as illustrated in Figure 8. You will adjust the final position of the yoke and jam nut on the next page.

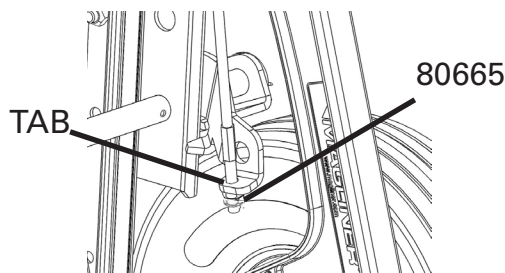


Figure 7

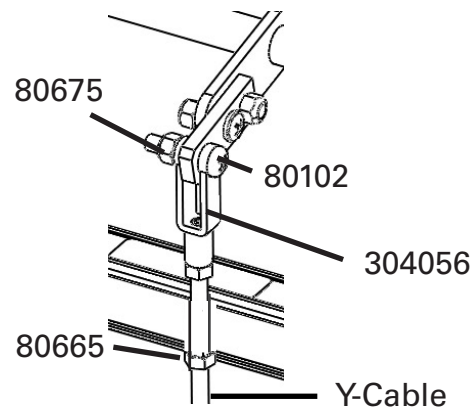


Figure 8

# 4

## PADDLE ADJUSTMENT (REQUIRED DURING THE INITIAL INSTALLATION OR IF WHEELS ARE CHANGED FROM ONE TYPE TO ANOTHER)

1. Loosen the jam nut (80665) below the yoke end (304056) at the top of the Y-cable using a 7/16" wrench (see Figure 8 on page 5).
2. Loosen the hex head screws that hold the bottom mounting brackets on each side of the frame using two 1/2" wrenches. Slide the brackets down such that the brake paddles are resting on the wheels (bottom mounting brackets are shown on page 3, Figure 2).
3. Place an adjustment spacer (304073) between each of the wheels and their respective brake paddles as illustrated in Figure 10.
4. With the brake assembly resting on each of the adjustment spacers, tighten each of the two bottom mounting bracket screws to secure the brackets in place using the 1/2" wrenches.
5. Remove the adjustment spacers.

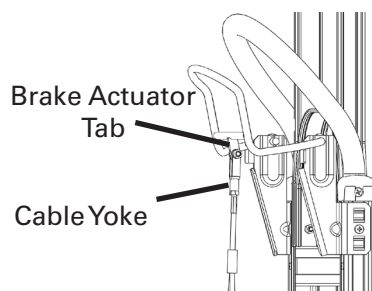


Figure 9

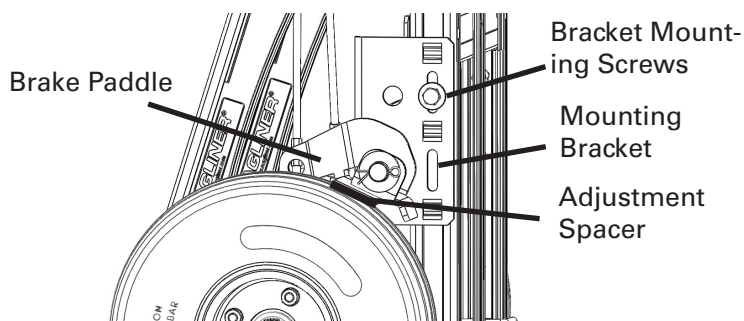


Figure 10

## ADJUSTING THE CABLE TENSION

1. While the yoke is unattached from the brake handle actuator, pull up on the cable until the paddles make contact with the wheels.
2. Turn the yoke on the top of the cable clockwise (moving down the cable's threaded stud) until the holes in the yoke are aligned with the holes in the brake handle actuator tab while pulling up on the cable (see Figure 9). Then loosen the yoke by turning it counter-clockwise several turns.
3. Install the 1/4" ID x 5/16" long spacer into the handle extension as shown in Figure 6 on page 4.
4. Attach the cable to the brake handle actuator tab with a 1/4"-20 x 1" long pan head machine screw (80102) and 1/4"-20 locknut (80675) as shown in Figure 8 on page 5.
5. Test to be sure there is no drag of the paddles on the wheels. If so, loosen the yoke another one or two turns and re-test. (Note: This typically requires the yoke to be loosened a total of 4 to 8 revolutions.)
6. When adjusted, tighten the screw and locknut that secure the yoke to the actuator with the #2 Phillips head screwdriver and the 7/16" wrench.
7. Tighten the jam nut against the bottom of the yoke using the 7/16" wrench. Be sure the yoke can move freely on the actuator.