

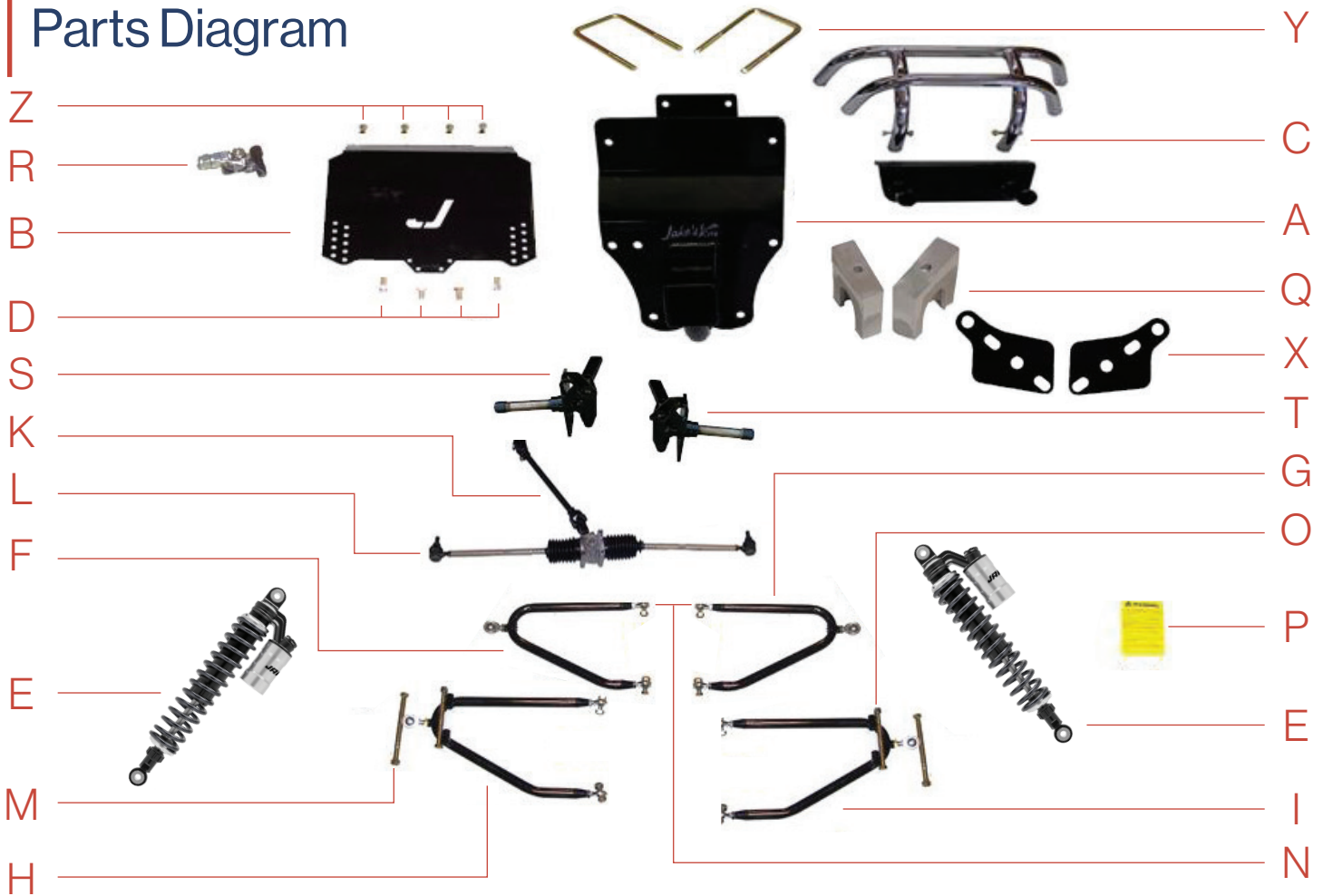


## INSTALLATION INSTRUCTIONS

**Part 16-790**

Long Travel Lift Kit for Club Car  
DS/Carryall/Villager Models  
w/4 Wheel Mechanical Brakes

# Parts Diagram



CALLOUT	ITEM	QTY
A	JAKES SUB-FRAME	1
B	TOP FRAME SUPPORT	1
C	CHROME FRONT BUMPER & MOUNTING BRACKET	1
D	3/8" X 1" BOLTS & NUTS FOR FRAME SUPPORT	6
E	JAKE'S LONG TRAVEL SHOCKS WITH EXTERNAL RESERVOIR	2
F	PASSENGER SIDE TOP A-ARM	1
G	DRIVER SIDE TOP A-ARM	1
H	PASSENGER SIDE BOTTOM A-ARM	1
I	DRIVER SIDE BOTTOM A-ARM	1
J	7/16" X 3 1/2" BOLTS NUTS & SPACERS (NOT PICTURED)	2/EA
K	STEERING EXTENSION	1
L	STEERING BOX	1
M	1/2" X 6 1/2" KINGPIN BOLT & NUT	2/EA
N	7/16" X 1 1/4" BOLTS & NUTS	8/EA

CALLOUT	ITEM	QTY
O	7/16" X 5 1/2" BOLTS & NUTS FOR SHOCKS	2/EA
P	WARNING LABEL	2/EA
Q	REAR RISERS	2
R	NUTS & BOLTS FOR REAR LIFT	8/EA
S	PASSENGER SIDE SPINDLE	1
T	DRIVER SIDE SPINDLE	1
U	5/16" X 4" BOLTS, NUTS & WASHERS FOR STEERING BOX (NOT PICTURED)	3/EA
V	1/4" X 1 1/2" BOLT & LOCKNUT FOR STEERING EXT. (NOT PICTURED)	1/EA
W	3/8" X 1 1/4" BOLT & LOCKNUT FOR STEERING EXT. (NOT PICTURED)	1/EA
X	REAR SHOCK MOUNTS	2
Y	1/2" U-BOLTS FOR REAR	2
Z	5/16" X 1" BOLTS & NUTS FOR JPLATE & BUMPER	6/EA
Z-1	SHOCK SUPPORTS & 7/16" X 1 1/4" BOLTS & LOCKNUTS (NOT PICTURED)	2/EA

EA=EA**CH**

# Front Assembly

FIGURE 1

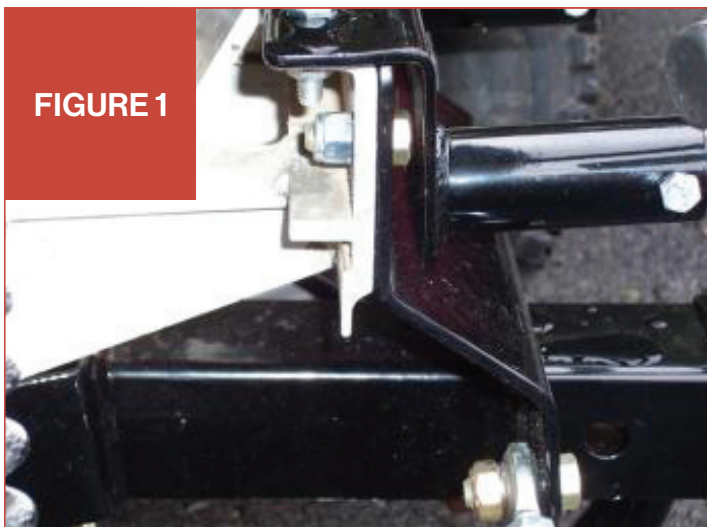


FIGURE 2

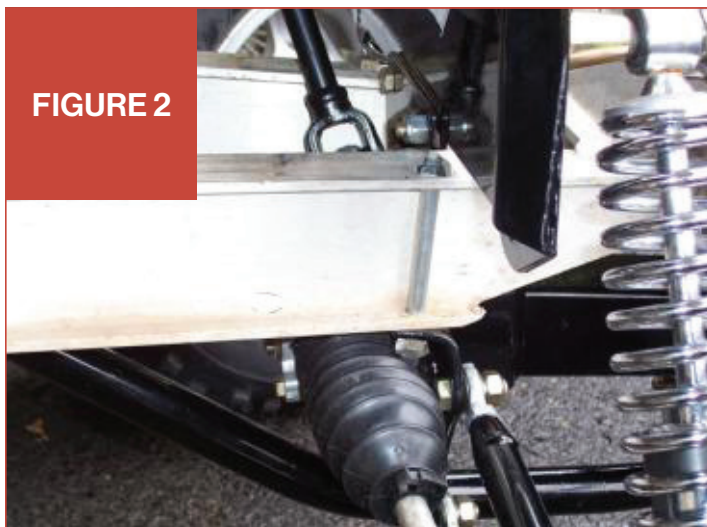


FIGURE 3

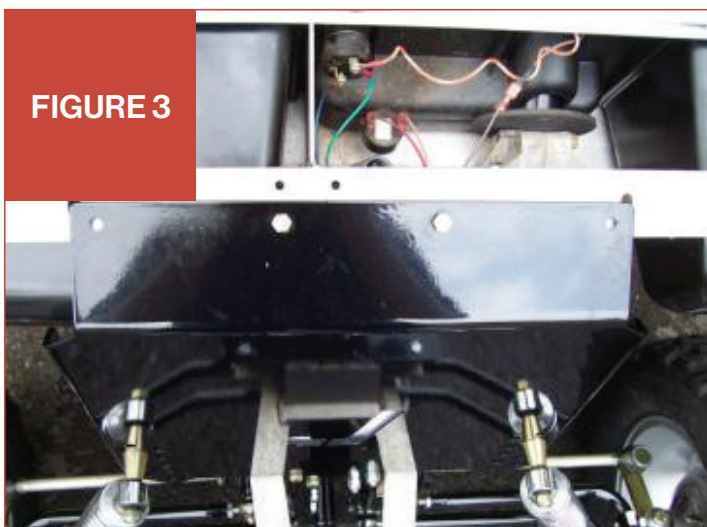
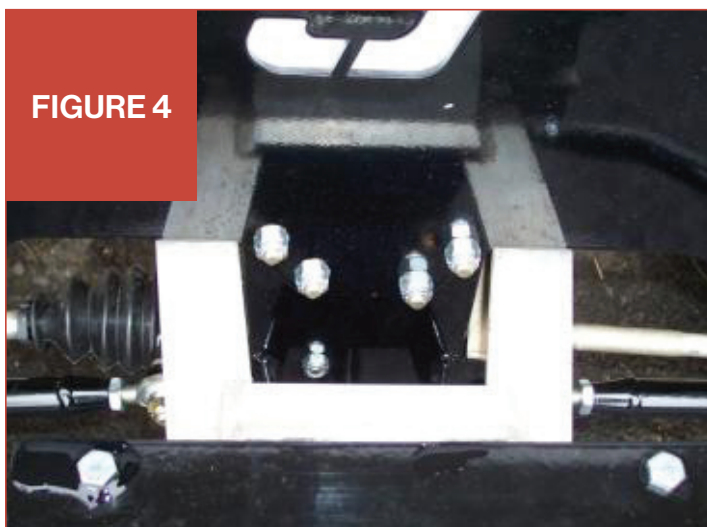


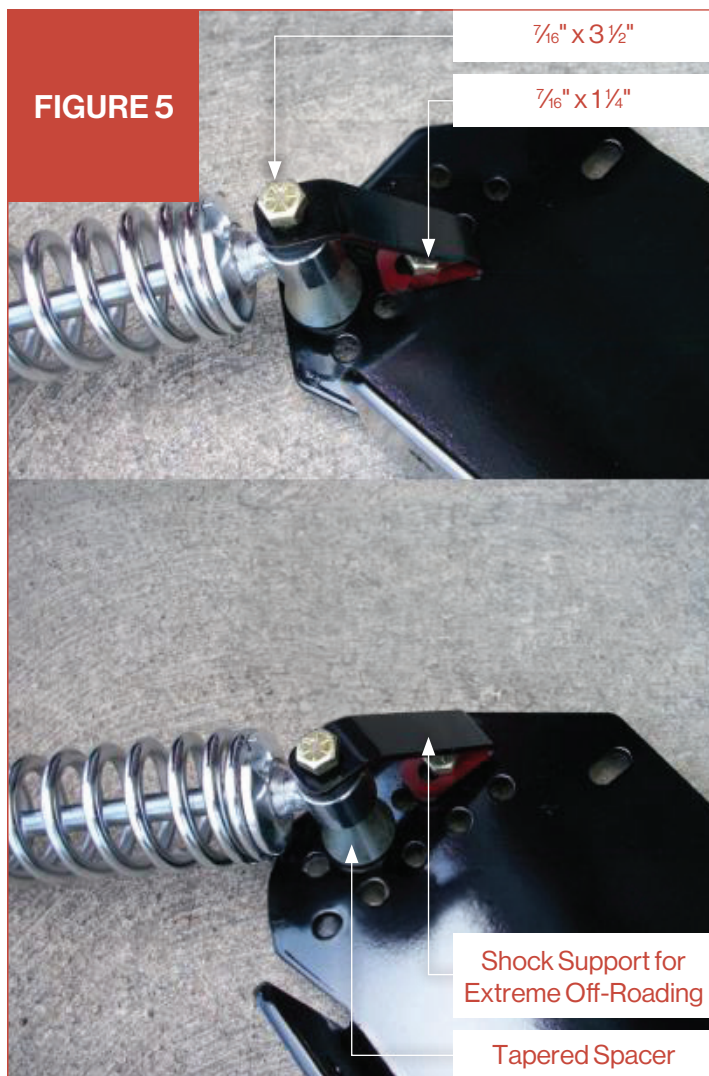
FIGURE 4



- 1 Place the cart on jack stands.
- 2 Remove front wheel/tires.
- 3 Remove the front cowl.
- 4 Completely disassemble the front of the golf cart. Save the 2 stock  $\frac{3}{8}$ " bolts, nuts, hubs and brake bolts for reinstallation.
- 5 Mount Jakes sub-frame (ITEM A) to the stock sub-frame location using the supplied nuts and bolts (ITEM D).  
**NOTE:** Nuts must face the front of the cart.  
Using the stock nuts and bolts mount the sub-frame to the frame as shown in Figure 2.  
**NOTE:** Nuts must go on top of the frame for steering box clearance.

- 6 Line the holes in Jakes top frame support (ITEM B) with the holes on the frame as shown in Figure 3.  
**NOTE:** Some models both the center holes will line-up. On other models only 1 center hole will line-up. You will need to drill the remaining 2 or 3 holes  $\frac{5}{16}$ " to mount the top frame support to the cart.
- 7 Mount Jakes top frame support (ITEM B) to the frame and Jakes sub-frame (ITEM A) using the supplied nuts and bolts (ITEM D) as shown in Figure 4.  
**NOTE:** All bolts must be inserted from the rear of the cart. The nuts must be on the front of the frame support (ITEM B) as shown in Figure 4.

# Front Assembly



- 8** Mount Jake's coil over shocks to the top frame support (**ITEM B**) with the appropriate hardware (**ITEM J**) and shock supports (**ITEM Z-1**) as shown in **Figure 5**.

**NOTE:** The larger end of the shock spacer goes against the frame support.

**NOTE:** There are several locations to mount your shocks. Outside holes are for a stiffer ride and inside holes are for a softer ride. The top hole on the outside is for a 6" lift. Each hole below lifts the cart an additional 1".

**NOTE:** The shocks have 4 adjustable settings. A spanner wrench is provided for adjusting the shocks.

- 9** Mount Jake's bottom A-Arms (**ITEMS H & I**) to the sub-frame using the appropriate hardware (**ITEM N**) as shown in **Figure 6**.

**NOTE:** A-Arms are marked P-Top, P-Bottom, D-Top, D-Bottom. P=passenger side, D=Driver side.

- 10** Mount the shocks to the bottom A-Arms using the appropriate hardware (**ITEM O**) as shown in **Figure 6**.

- 11** Mount Jake's top A-Arms (**ITEMS F & G**) to the sub-frame using the appropriate hardware (**ITEM N**) as shown in **Figure 6**.

- 12** Attach Jake's spindles (**ITEMS S & T**) to the A-Arms using the supplied nuts & bolts (**ITEM M**).

- 13** Mount Jake's steering extension (**ITEM K**) to Jake's steering box (**ITEM L**) using the supplied nut and bolt (**ITEM W**).

# Front Assembly

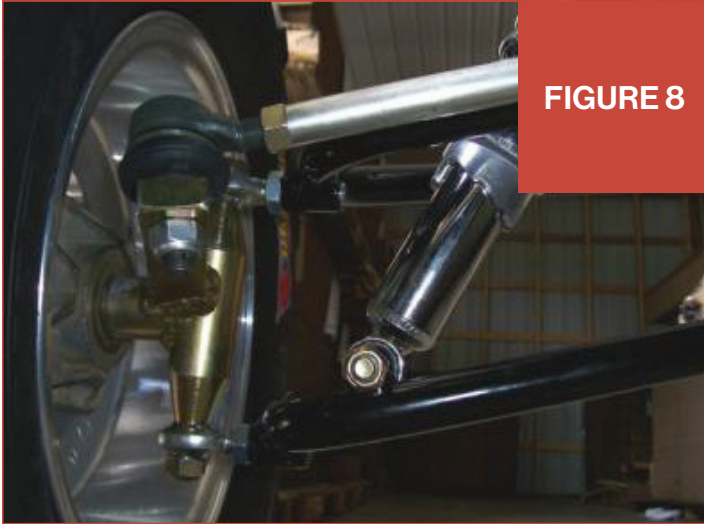


FIGURE 8



FIGURE 9

- 14** Loosely mount Jake's steering extension to the stock steering column using the supplied nut and bolt (ITEM V). Loosely mount Jake's steering box to sub-frame (ITEM B) using the supplied nuts, bolts & washers (ITEM U).

**NOTE:** Washers must go between sub-frame & steering box. Securely tighten all bolts as shown in Figure 12.

- 15** Attach the tie rod ends to the spindles as shown in Figure 8.

- 16** Re-attach front brakes to Jake's brake mounts on spindles.

- 17** Adjust toe-in. Proper toe-in should be approximately  $\frac{1}{8}$ " in.

- 18** Mount Jake's chrome front bumper (ITEM C) to the frame using the mounting bracket and supplied nuts and bolts as shown in Figure 9.

- 19** SECURELY TIGHTEN ALL NUTS AND BOLTS.  
**NOTE:** It is recommended to go back through and verify that all the hardware is tight and secure after the first test drive, and again after roughly 10 miles.

# Rear Assembly

FIGURE10

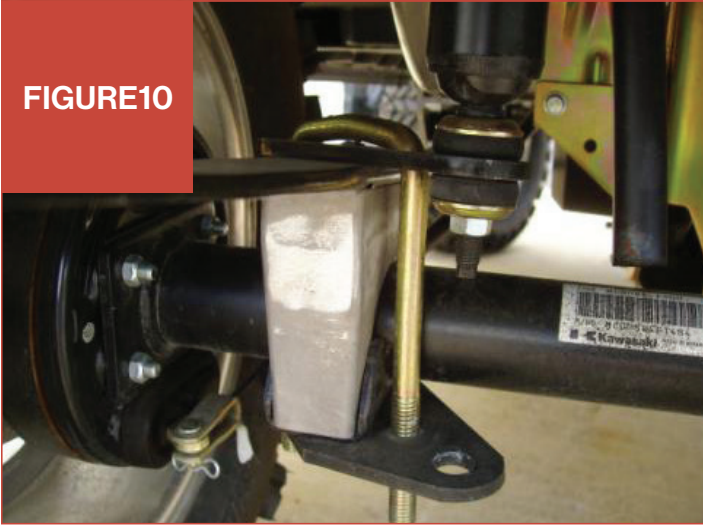


FIGURE11



- 1** Jack up the rear end of the cart and place jack stands on the frame in front of the springs. You will be installing larger wheels and tires so raise the cart high enough to accommodate the additional height.
- 2** Remove the wheels and tires.
- 3** Remove the U-bolts from the rear axle on both sides of the cart.
- 4** Remove the spring shackle bolts and shocks  
Clean and lubricate the shock bolts and save them to reattach the shocks later.
- 5** Remove the springs from under the axle on both sides of the cart.
- 6** Place the provided allen cap bolt in the center hole of lower stock brake cable mount plate. (allen head up to center plate under rear axle)
- 7** Look at the picture of the rear lift provided. The two holes that the u-bolts go through need drilled out to 1/2". The larger u- bolts provide maximum strength.
- 8** Place JAKES rear lift mounts (ITEM Y) over the axle, with the shortest end pointed towards the front of the cart. Line the axle with the supplied allen cap screw (ITEM R).
- 9** Place the springs on the top of the rear lift mounts with the center bolts of the springs in the hole of the rear lift mounts.

## Rear Assembly

FIGURE12



- 10** Place JAKES top rear shock mounting plates (**ITEM X**) over the springs with the shock mounts facing in and to the rear.
- 11** Put the U-bolts (**ITEM Y**), through JAKES shock mount plate and through the factory shock mount plate. Using the supplied nuts (**ITEM R**), tighten the U-bolts. Securely tighten.
- 12** Using the factory nuts and bolts attach the shocks to the new shock mounts.  
***NOTE:** If your rear shocks have an eye-lit on the bottom you need to bend the shock mounts (as shown in **Figure 11**) to attach the shocks.*
- 13** Install JAKES recommended wheel and tire size 22" x 11" x 10" wheels and tires with a 3 x 5" offset for maximum performance.  
***NOTE:** Your stock wheels and tires will NOT work!*
- 14** Included is a warning label (**ITEM P**) which is to be placed on the steering column or another visible area and is to be read by all operators.  
***NOTE:** It is recommended to go back through and verify that all the hardware is tight and secure after the first test drive, and again after roughly 10 miles.*



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