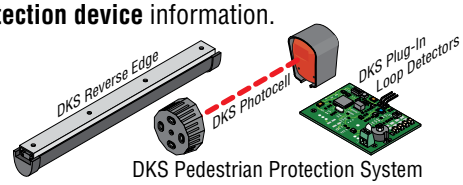
ROUND FOLDING ARM KIT

DoorKing Part Number
1601-610
Two Arms **and** Hardware Kit

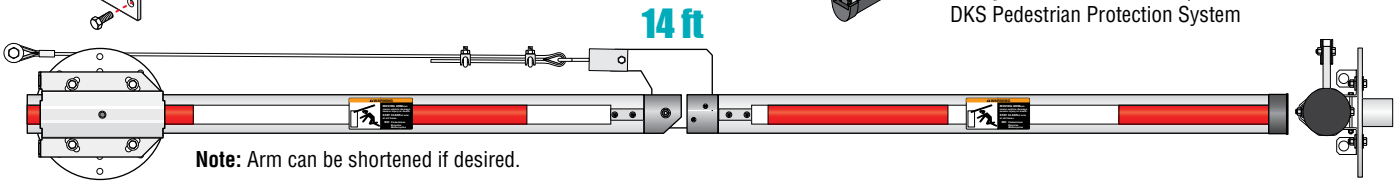
This kit is designed for a **1601** barrier gate operator and a **1603 auto-spikes system.** It **CANNOT** be used on a 1602, 1620 lane barrier or the 1625 wedge barrier. This arm is recommended for low headroom applications.

See 1601/1602 Installation/Owners manual (1601-065 PDF) for arm **safety protection device** information.

REVERSE Folding Arm Direction Kit
Reverses arm's horizontal direction from the factory setup.
P/N 1601-545 (sold separately)



DKS Pedestrian Protection System



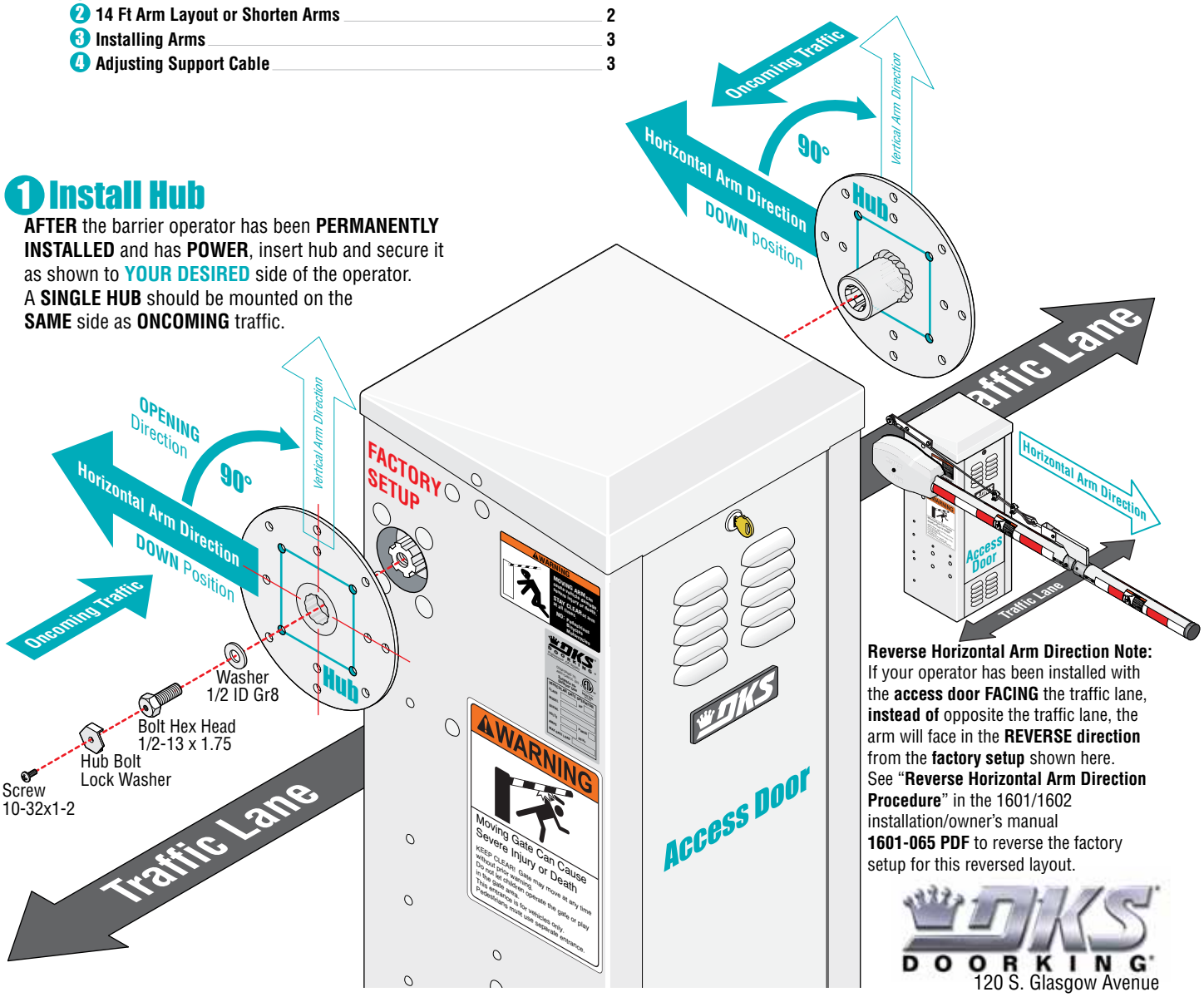
Note: Arm can be shortened if desired.

ROUND Folding Arm Installation Steps:

1. **Install Hub** 1
2. **14 Ft Arm Layout or Shorten Arms** 2
3. **Installing Arms** 3
4. **Adjusting Support Cable** 3

1 Install Hub

AFTER the barrier operator has been **PERMANENTLY INSTALLED** and has **POWER**, insert hub and secure it as shown to **YOUR DESIRED** side of the operator.
A **SINGLE HUB** should be mounted on the **SAME** side as **ONCOMING** traffic.

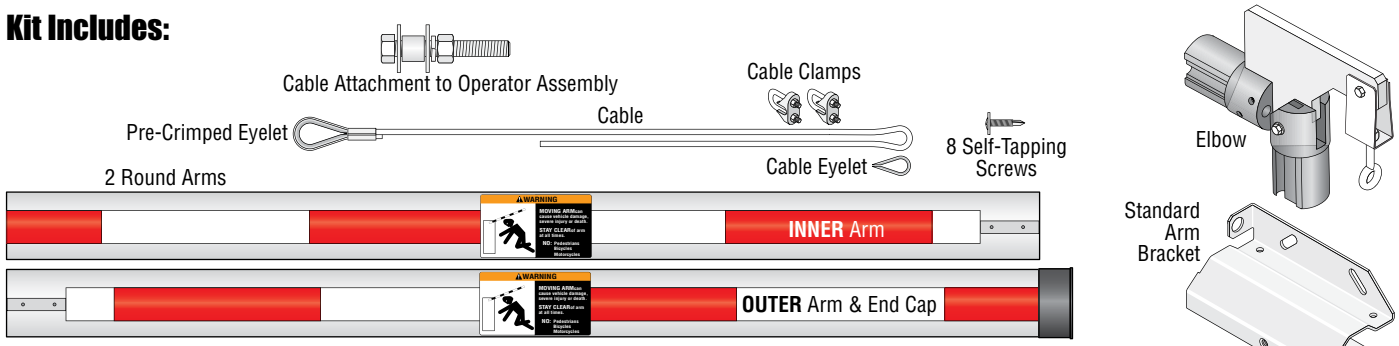


Reverse Horizontal Arm Direction Note:
If your operator has been installed with the **access door FACING** the traffic lane, **instead of** opposite the traffic lane, the arm will face in the **REVERSE direction** from the **factory setup** shown here. See "**Reverse Horizontal Arm Direction Procedure**" in the 1601/1602 installation/owner's manual **1601-065 PDF** to reverse the factory setup for this reversed layout.

DOORKING
120 S. Glasgow Avenue
Inglewood, California 90301 U.S.A.

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Kit Includes:

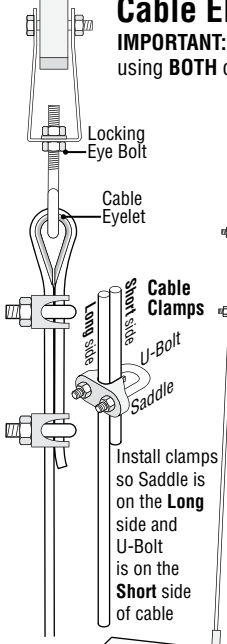


2 14 ft Arm Layout or Shorten Arms

Arms can be **shortened** if desired. Typically because of **height restrictions**. Follow the procedure below.

Cable Elbow Configuration

IMPORTANT: Cable **MUST** be assembled using **BOTH** cable clamps as shown.



Install clamps so Saddle is on the **Long** side and U-Bolt is on the **Short** side of cable

Plastic end cap **PULLS** off

Arm **UP** position

Score reflective tape before cutting

Score reflective tape before cutting

Shorten Inner Arm

1 Cut this arm **FIRST** for the **HEIGHT RESTRICTION.**

IMPORTANT

DO NOT cut off the ends of the arms with the **PRE-DRILLED holes** in them.

1 Determining First Arm Length

Shorten Outer Arm

2 Cut this arm **SECOND** in the **DOWN position** for the **TRAFFIC LANE WIDTH.**

Note: Second arm can be a different length than the first arm.

Arm **DOWN** position

6.5”

1601 - 104”
(14 Ft Layout)

1603 - 108”
(14 Ft Layout)

Total Height: **1601** - 110.5” **1603** - 114.5” (14 Ft Layout)

1601 - 34.5”

1603 - 38.5”

Arm can extend **about an inch or MORE** past the back of the arm bracket. Make sure plastic arm cover fits over arm.

2 Determining Second Arm Length

IMPORTANT

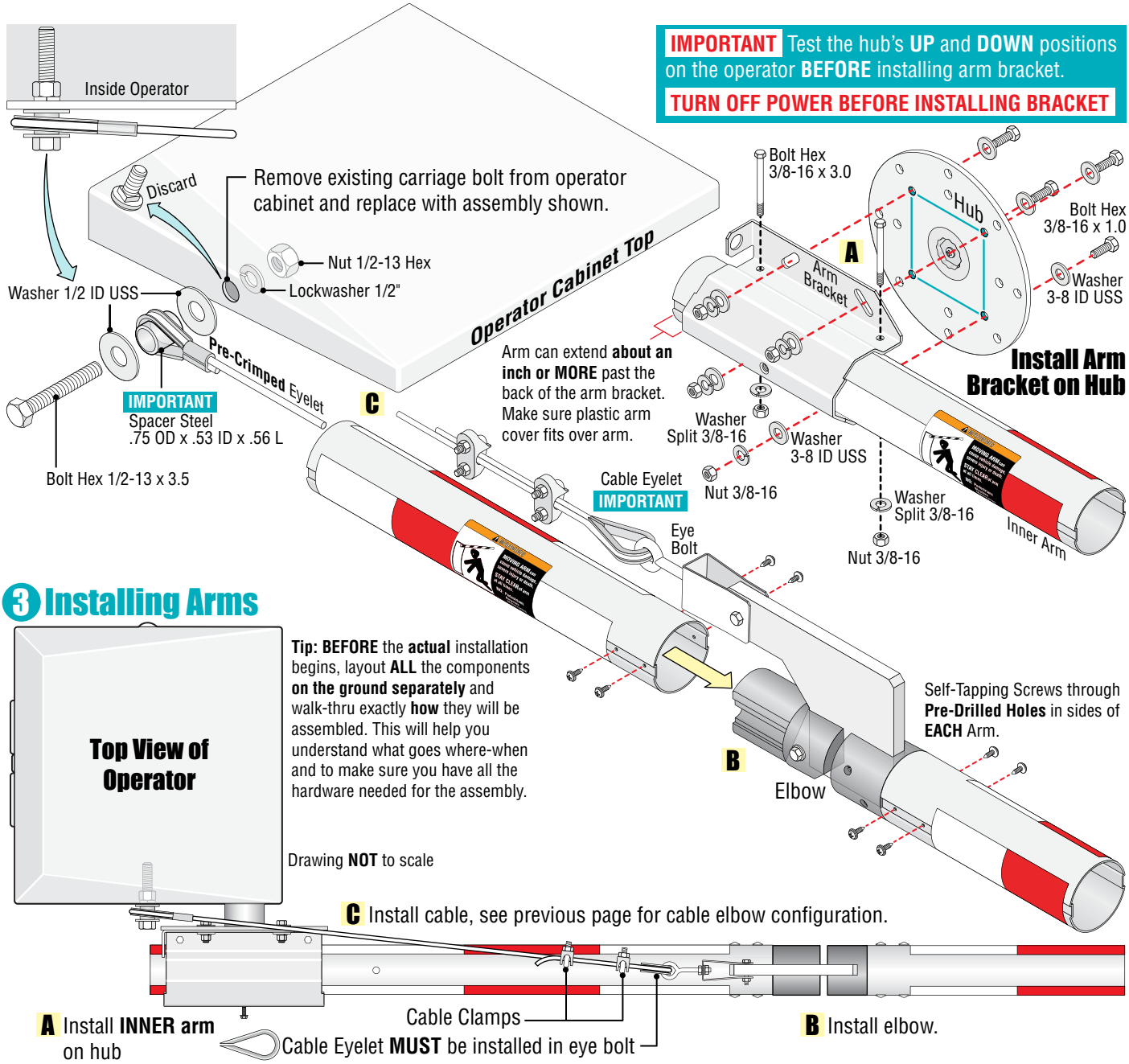
Height Measurement Note: Arm is positioned **1”** beyond the back of the arm bracket for **these** height measurements. Arm **can** be positioned **greater** or **less** than **1”** beyond the arm bracket if desired but **HEIGHT** measurements **WILL change accordingly**.

Assembled Arm Elbow Pivot Length 76.3” (14 Ft Layout)

Assembled Arm Length 149.5” (14 Ft Layout)

Temporarily support arms until arm cable has been installed.

Drawing **NOT** to scale



IMPORTANT Test the hub's **UP** and **DOWN** positions on the operator **BEFORE** installing arm bracket.

TURN OFF POWER BEFORE INSTALLING BRACKET

3 Installing Arms

Tip: BEFORE the **actual** installation begins, layout **ALL** the components **on the ground separately** and walk-thru exactly **how** they will be assembled. This will help you understand what goes where-when and to make sure you have all the hardware needed for the assembly.

Drawing **NOT** to scale

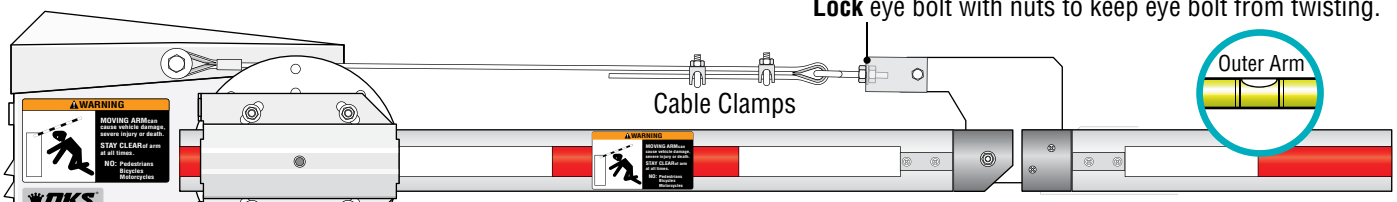
C Install cable, see previous page for cable elbow configuration.

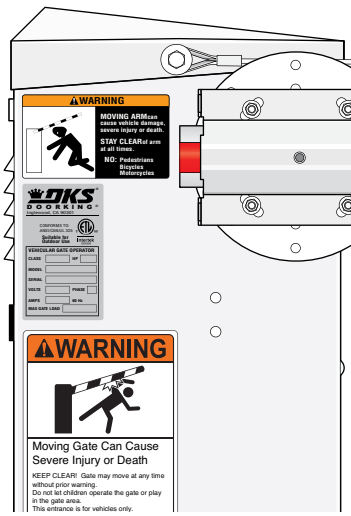
A Install **INNER arm** on hub

B Install elbow.

4 Adjusting Support Cable

Use **Eye Bolt** to "**fine tune**" outer arm level.
Lock eye bolt with nuts to keep eye bolt from twisting.



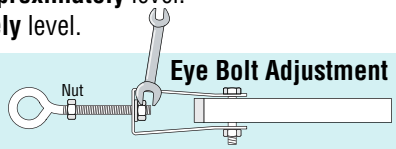


Important: Use **cable clamps** to adjust the outer arm **approximately** level.
Adjust the **eye bolt** to "**fine-tune**" outer arm to **completely** level.

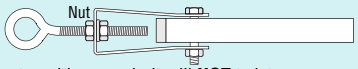
DO NOT adjust cable **too tight** or it **will bind**.

Rotate arm up and down a few times. Re-adjust cable tension with **eye bolt** to **re-level OUTER arm if necessary**. Make sure that cable assembly is **not binding** or **twisting** and everything moves freely while cycling.

Eye Bolt Adjustment



Loosen or **tighten** nut position "**fine-tune**"



Locked nut position, eye bolt will **NOT** twist