P/N 1121004 Rev. D

INSTALLATION INSTRUCTIONS

SHUR-CO, LLC

Wiring Three ProTraps

READ BEFORE INSTALLING
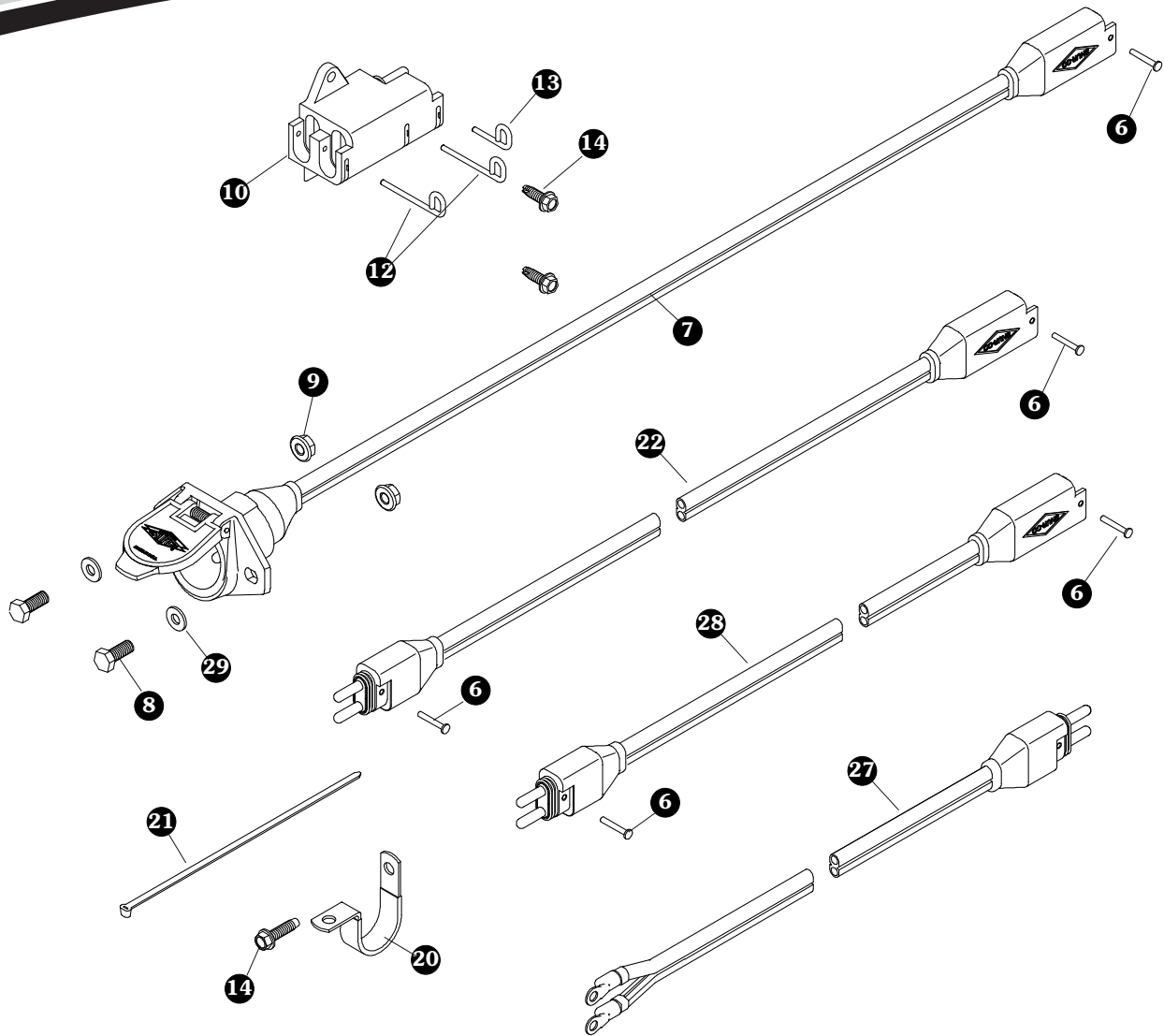
SMARTWIRE™ INSTALLATION

This instruction sheet is supplied with a variety of trailer models, therefore the locations for the SMARTwire™ components shown here may need to vary slightly on your trailer. Mounting locations are critical because wire lengths cannot be altered. Mount SMARTwire™ components as close as possible to the locations shown, not only to ensure a quick and easy installation, but also to facilitate SMARTwire™ upgrades.

| Item	Part #	Description
6.	1704751	Harness Lock Pin - 1/4" x 7/8"
7.	1120670	SMARTwire™ Dual Conductor Socket
8.	1701045	Cap Screw - 5/16" x 3/4"
9.	1704946	Flanged Top Lock Nut - 5/16"
10.	1704695	Harness Junction Block - Black Rubber
12.	1704696	Harness Lock Pin - Long
13.	1704711	Harness Lock Pin - Short

Item	Part #	Description
14.	1704338	Self-Tapping Screw - 1/4" x 1"
20.	1702108	Wire Clip - 3/4"
21.	1703231	Cable Tie - 8"
22.	1704704	SMARTwire™ - 6 Ga. x 25' - Plug/Socket
27.	1704716	SMARTwire™ - 6 Ga. x 10' - Plug/Ring Terminals
28.	1704827	SMARTwire™ - 6 Ga. x 16' - Plug/Socket
29.	1700427	Flat Washer - 1/4"
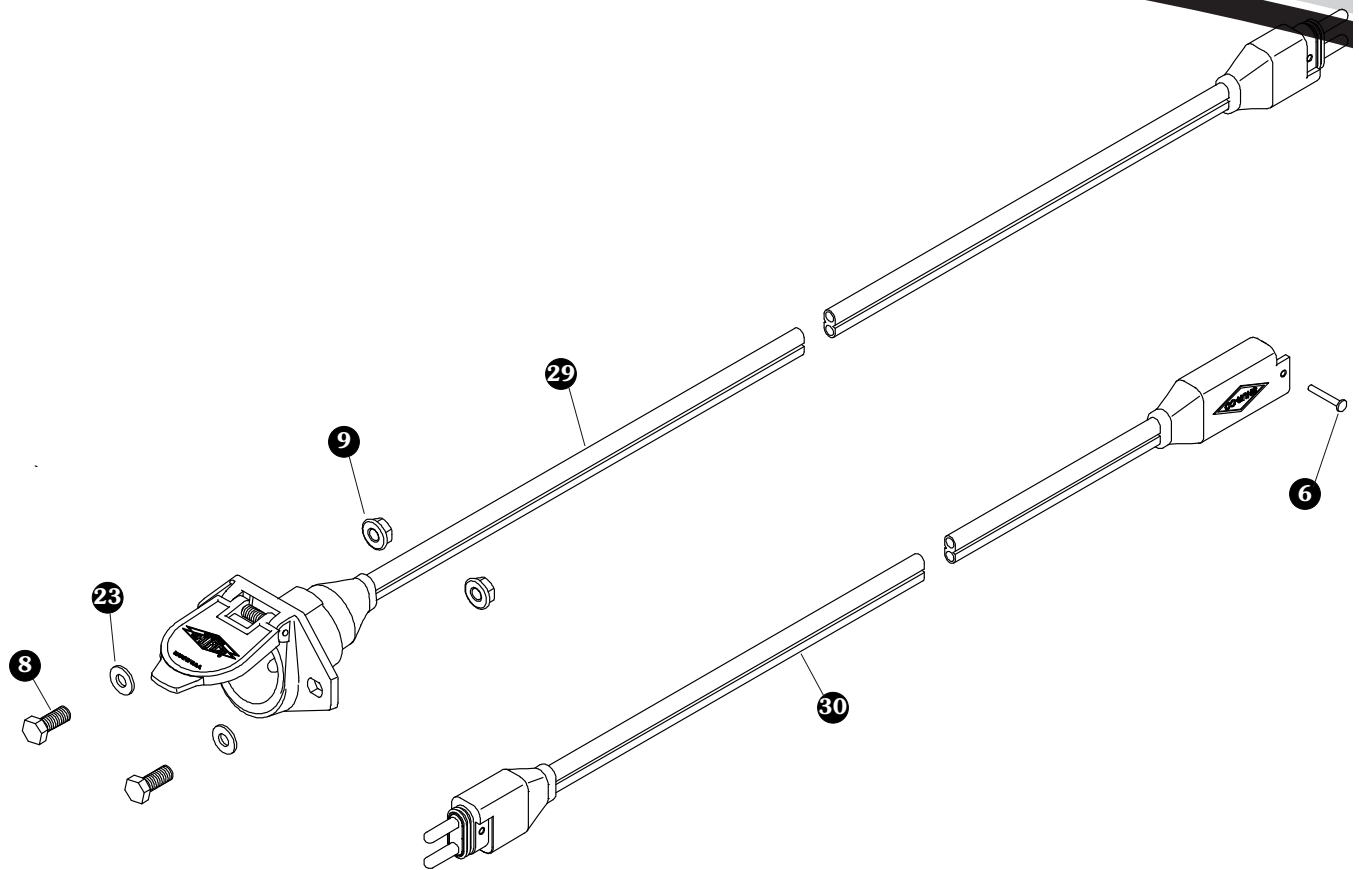
**LEAD TRAILER WIRING PARTS FOR SUPPLYING
POWER TO REAR/PUP TRAILERS**

Item	Part #	Description
6.	1704751	Harness Lock Pin - 1/4" x 7/8"
8.	1701045	Cap Screw - 5/16" x 3/4"
9.	1704946	Flanged Top Lock Nut - 5/16"
23.	1700427	Flat Washer - 1/4"
29.	1122541	SMARTwire™ - 4 Ga. x 22' - Dual-Conductor Socket
	1122542	SMARTwire™ - 4 Ga. x 32' - Dual-Conductor Socket
	1122543	SMARTwire™ - 4 Ga. x 40' - Dual-Conductor Socket
30.	1704888	SMARTwire™ - 4 Ga. x 25' - Plug/Socket

FRONT OF TRAILER

⑦
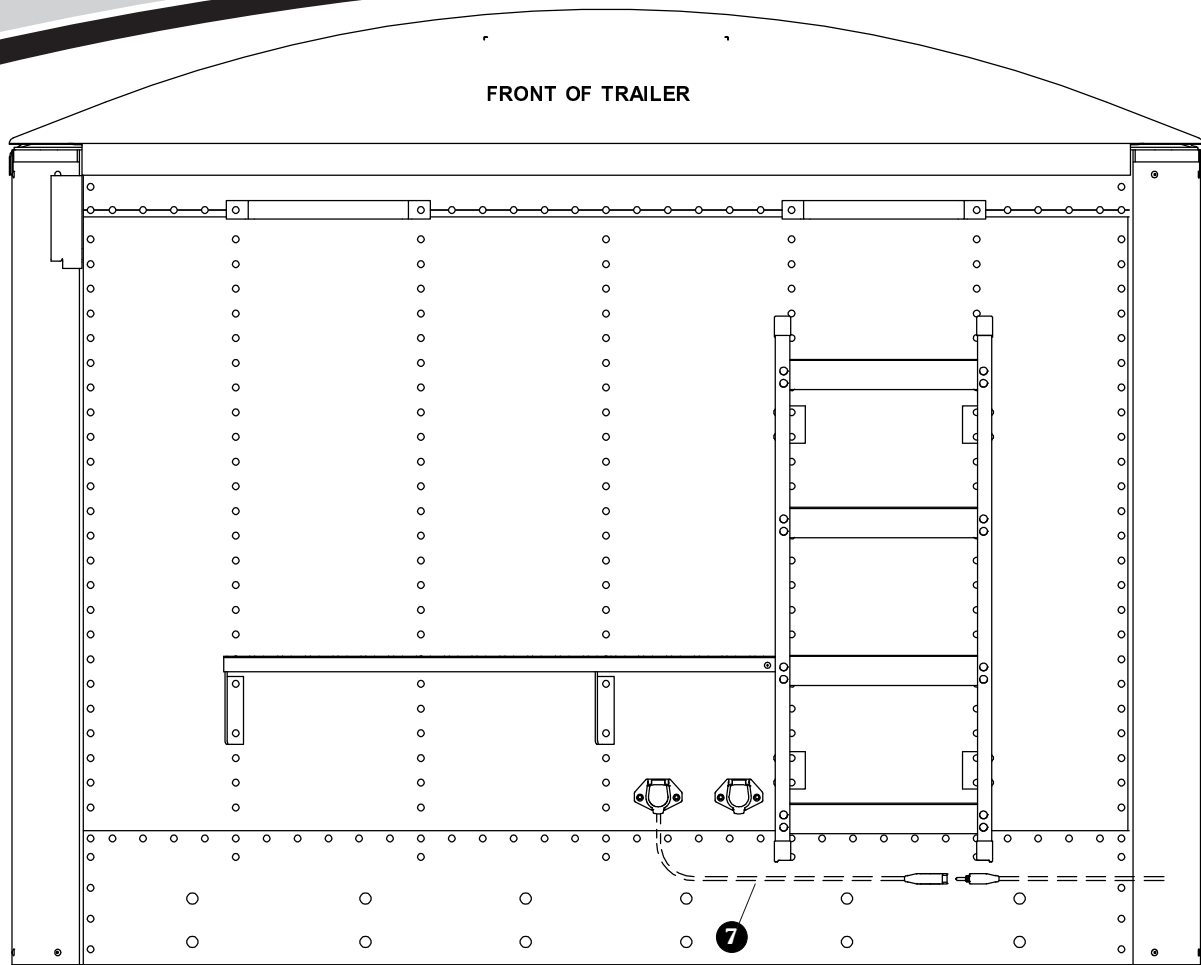
NOTE: *Wire lengths are predetermined. Before installing SMARTwire™ components, review and confirm wire routing so that wires will reach components with ample room for connection.*
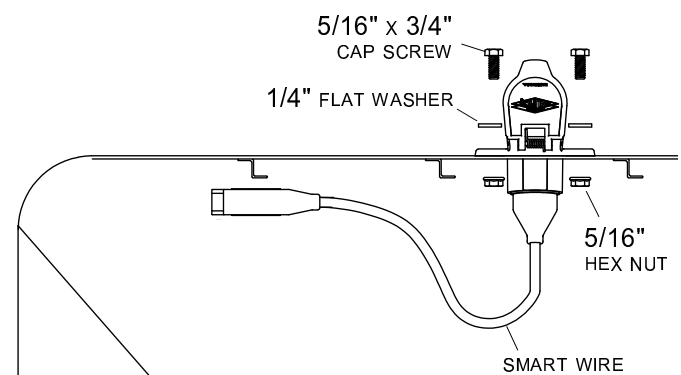

DUAL-POLE CONDUCTOR SOCKET INSTALLATION

STEP 1: Locate dual-pole conductor socket near seven-pole conductor socket as shown. Determine location and drill 2" hole through trailer skin.

SEVEN-POLE CONDUCTOR

DRILL TWO
5/16" HOLES

DRILL 2" HOLE
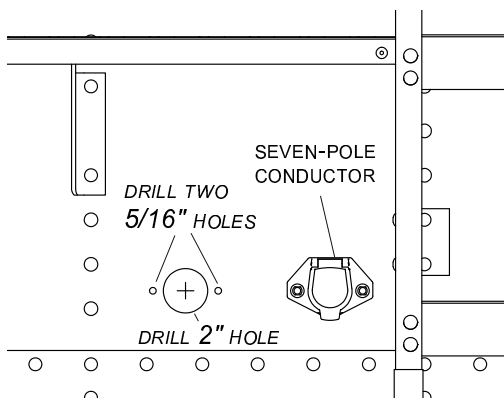
STEP 2: Align socket over 2" hole. Using holes in flanges on socket as a guide, mark and drill two 5/16" holes.

STEP 3: Fasten conductor socket to trailer with 5/16" x 3/4" cap screws, flat washers and nuts.
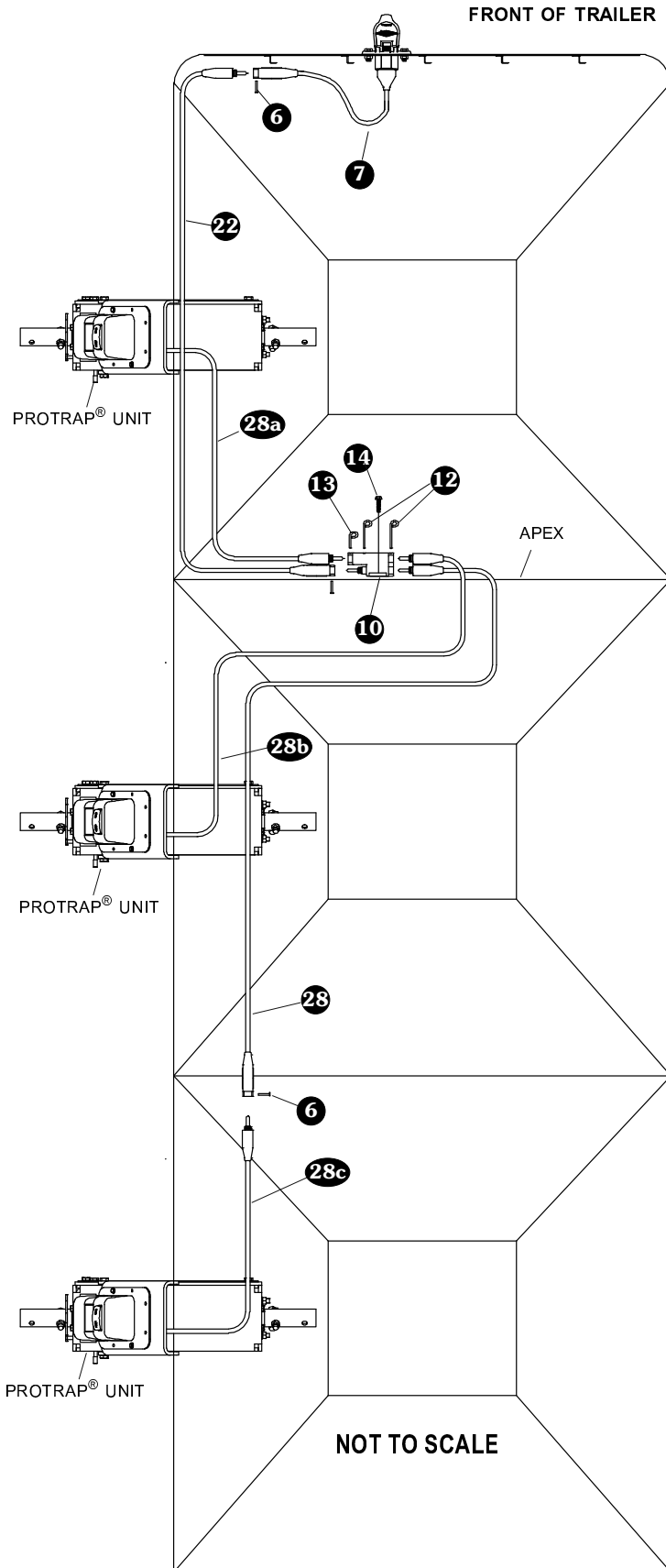
5/16" x 3/4"
CAP SCREW

1/4" FLAT WASHER

5/16" HEX NUT

SMART WIRE

FRONT OF TRAILER

PROTRAP® UNIT

APEX

PROTRAP® UNIT

PROTRAP® UNIT

NOT TO SCALE

NOTE: Coat each connection with dielectric grease (P/N 1704378) to prevent corrosion.

> ⚠ **CAUTION**
>
> **Do not fasten SMARTwire™ components to trailer through hopper walls.**

NOTE: If wiring a lead/pup trailer, review page 5 before proceeding.

FRONT OF TRAILER

STEP 1: Route SMARTwire™ ❼ along existing wiring on trailer.

STEP 2: Plug SMARTwire™ ㉒ into SMARTwire™ ❼ and secure connection with lock pin ❻. Route SMARTwire™ ㉒ to apex on trailer.

APEX OF TRAILER

STEP 3: To determine junction block location, route SMARTwires ㉒ and ㉗ from front two ProTrap® units to location on apex where wires will reach. Position junction block ❿ at this location. Using holes in junction block as a guide, mark and drill two 7/32" holes.

STEP 4: Fasten junction block ❿ to trailer with screws ⓮.

STEP 5: Connect SMARTwires ㉒, ㉗, and ㉘ to junction block ❿.

STEP 6: Secure SMARTwires to junction block with lock pins ⓬ and ⓭.

STEP 7: Route SMARTwire™ ㉘ toward rear of trailer and connect to SMARTwire™ ㉗ for rear ProTrap®. Secure with lock pin ❻.

STEP 8: Secure all wires to trailer with cable clips ⓴ and screws ⓮. If needed, use cable ties ㉑.

NOTE: For lead/pup trailer configurations, continue on next page.

NOTE: *Coat each connection with dielectric grease (P/N 1704378) to prevent corrosion.*

⚠ CAUTION

Do not fasten SMARTwire™ components to trailer through hopper walls.

FRONT OF TRAILER

STEP 1: Remove lock pin **6** from SMARTwire™ **7**. Disconnect wires.

STEP 2: To determine junction block location on front of trailer, route SMARTwires **7**, **22** and **30** to where wires will meet. Position junction block **10a** at this location. Using holes in junction block as a guide, mark and drill two 7/32" holes.

STEP 3: Fasten junction block **10a** to trailer with screws **14**.

STEP 4: Connect SMARTwires **7** and **22** and **30** to junction block **10a**, then insert plug **11**. Secure with lock pins **12** and **13**.

REAR OF TRAILER

STEP 5: To determine location for conductor socket **29** on rear of trailer, route SMARTwire™ **30** and SMARTwire™ from conductor socket **29** to location near middle of trailer, where wires will reach. Mount conductor socket at this location.

STEP 6: Follow steps 1 to 3 on page 3 to install conductor socket **29**.

MIDDLE OF TRAILER

STEP 7: Connect SMARTwires **30** and **29**. Secure with lock pin **6**.

STEP 8: Secure all wires to trailer with cable clips **20** and screws **14**. If needed, use cable ties **21**.

FRONT OF TRAILER

PROTRAP® UNIT

APEX

PROTRAP® UNIT

PROTRAP® UNIT

NOT TO SCALE
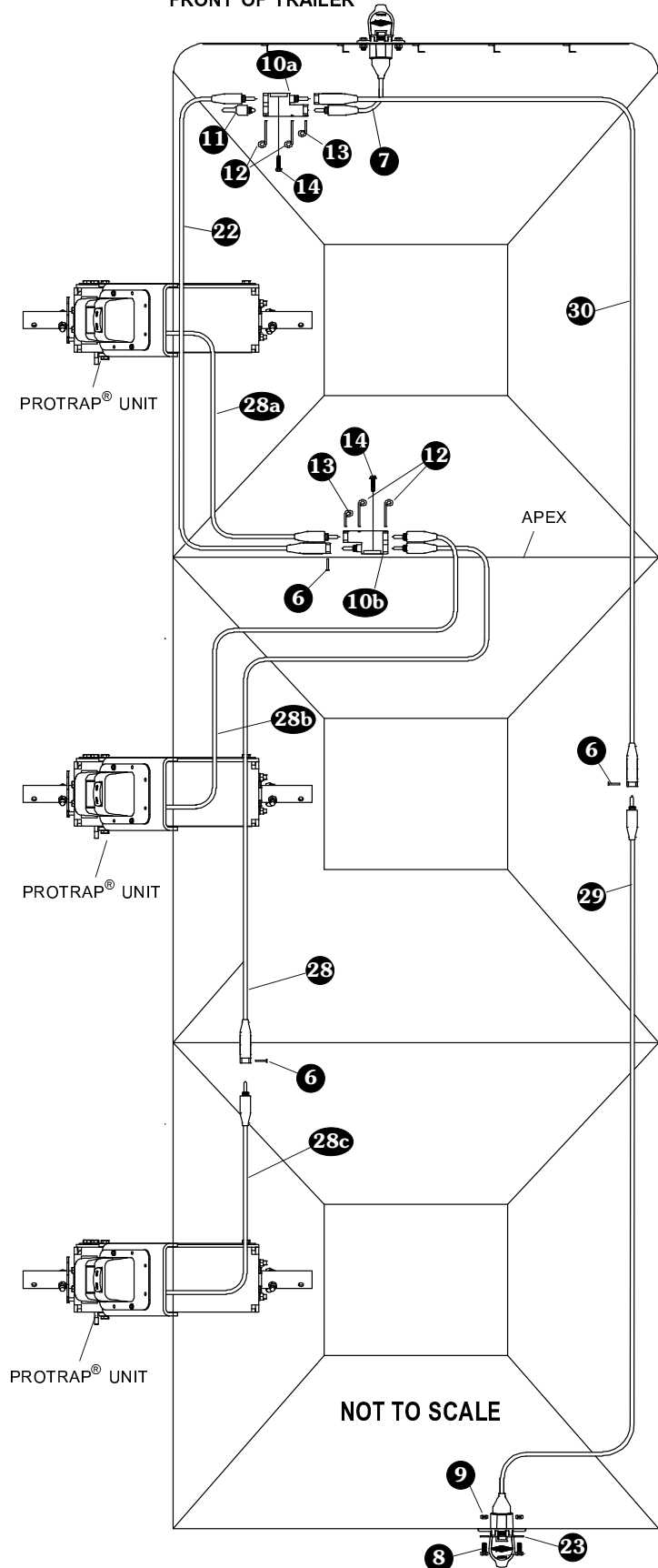
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