

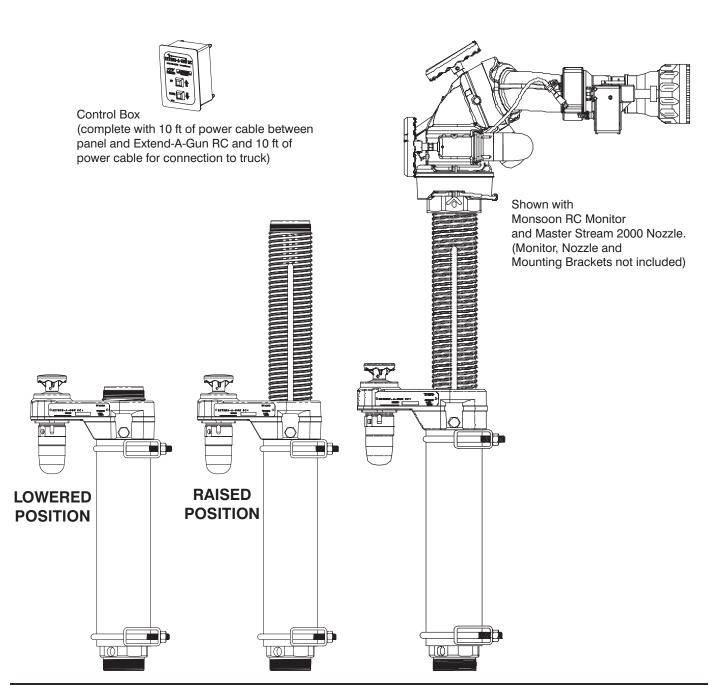
EXTEND-A-GUN RC3 & RC4

Telescoping Waterway for Deck Mounted Monitors

INSTALLATION and OPERATING INSTRUCTIONS



Read instruction manual before use. Operation of this device without understanding the manual and receiving proper training is a misuse of this equipment. A person who has not read and understood all operating and safety instructions, is not qualified to operate the Extend-A-Gun RC3 or RC4 telescoping unit.



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1.0 MEANING OF SIGNAL WORDS

A safety related message is identified by a safety alert symbol and a signal word to indicate the level of risk involved with a particular hazard. Per ANSI standard Z535.4-1998 the definitions of the three signal words are as follows:



DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

2.0 SAFETY



Do not use AC current to operate the Extend-A-Gun RC. The Extend-A-Gun RC is a 12 or 24 volt DC system ONLY! Using the wrong power source could cause electrocution, resulting in death or serious injury.

▲WARNING

Reaction forces generated by master stream flows are very powerful and capable of causing injury and property damage. The Extend-A-Gun RC must be securely mounted to rigid truck support members. Qualified persons should determine suitable mounting locations

▲WARNING

Qualified individuals should conduct mounting bracket installation. Inferior welding or poor plate installation could result in serious injury or equipment damage.

▲WARNING

Keep the upper and lower brackets as far apart as possible to minimize the amount of stress on the upper and lower brackets.

▲WARNING

The forces acting on the mounting brackets, when the Extend-A-Gun RC is in the extended position, are higher than the forces in a normal deck gun installation. Failure to properly secure the Extend-A-Gun RC, could result in damaged equipment and serious injury.

▲WARNING

Master stream flows are very powerful and capable of causing injury and property damage. Make sure the monitor is pointing in a safe direction before water to the monitor is turned on. Use care in directing the stream.

ACAUTION

Clear all personnel and obstructions away from the Extend-A-Gun RC before lowering. The electric motor is capable of producing up to 70 lbs of crushing force in the down stroke which may result in a crushing injury.

ACAUTION

The Extend-A-Gun RC has current limiting capabilities which stops the motor if an obstruction is encountered. The Extend-A-Gun RC must be installed as instructed using the correct controls and electrical boxes. Failure to do so will result in damage to the electric motor and loss of current limiting controls. This may result in injury.

ACAUTION

The Extend-A-Gun RC may be used in either the raised or the lowered position, but not in-between. The seal may become damaged if the water is turned on in any position other than fully extended or retracted.

ACAUTION

Do not plug or cap the Extend-A-Gun RC or mounted deck gun while it is in the raised position. This will prevent the Extend-A-Gun RC from being lowered to the stow position. Damage may occur if the truck drives under a low hanging object, while the Extend-A-Gun RC is extended.

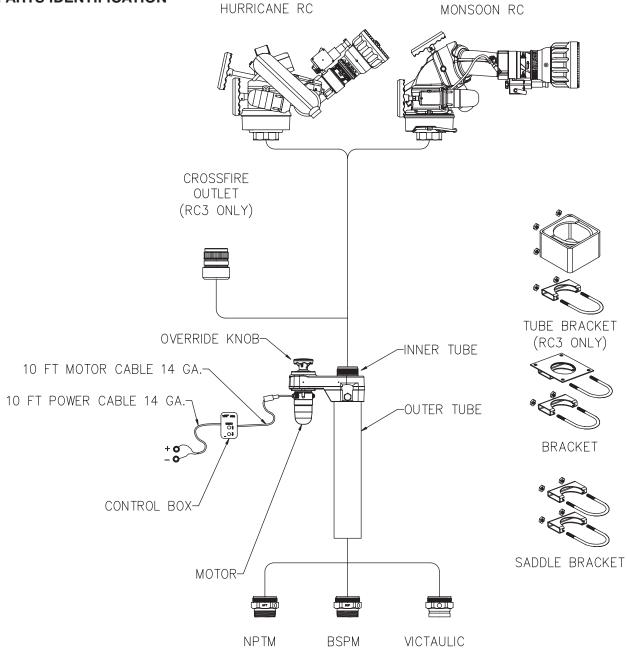
3.0 GENERAL INFORMATION

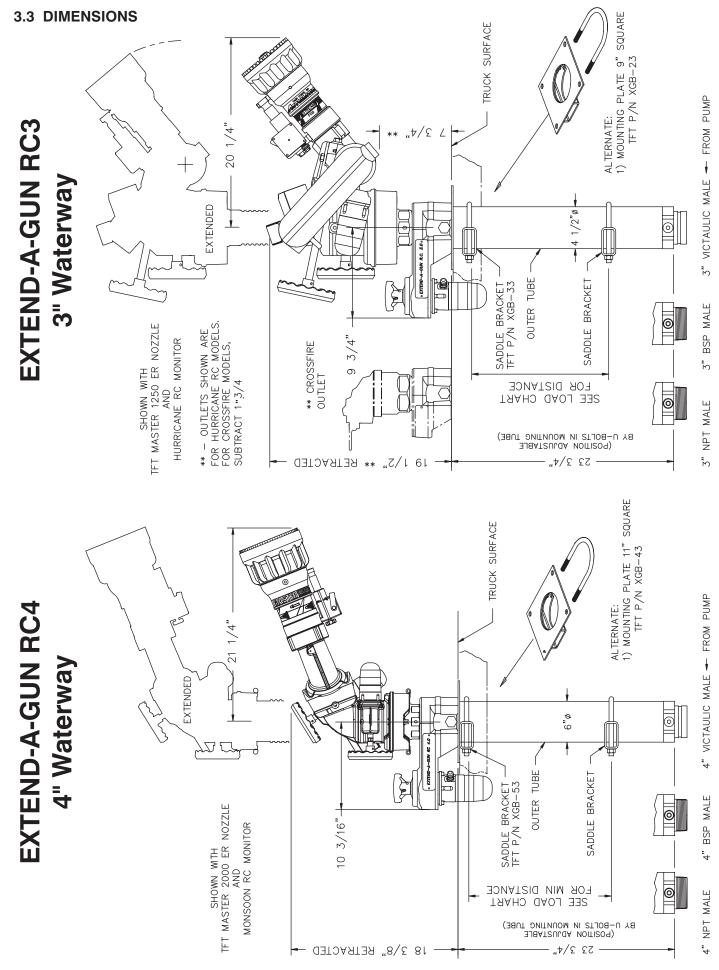
The Extend-A-Gun RC lets you lower your deck mounted master stream device to deck level for storage (or even into a well). On the fire ground, the monitor can be automatically raised to its extended position (18 extra inches or 45.7 extra cm) with a simple push of a button. This gives greater clearance of other equipment on the apparatus, greater freedom of movement, and keeps firefighters off the top of the trucks, thus providing a safer operating position. The Extend-A-Gun RC offers a full 360 degree monitor rotation in either the raised or lowered position, large waterway, Hardcoat anodized aluminum finish. Built in sensor for connection to "monitor raised" light. Waterproof 12VDC or 24VDC electric drive and control panel for recessed mounting complete with 10 ft cable with plug between control panel and Extend-A-Gun. Can be specified with new, or retrofitted to existing apparatus.

3.1 SPECIFICATIONS

MODEL	EXTEND-A-GUN RC3	EXTEND-A-GUN RC4
Waterway Size	3" (76mm)	4" (102mm)
Max Flow	1250gpm (4800l/m)	2000 gpm (7600 l/min)
Max Pressure	200psi (13.8 bar)	200 psi (13.8 bar)
Lifting Capabilities	200 lbs (91kg)	200 lbs (91kg)
Crush Load	70 lbs (32kg)	70 lbs (32kg)
Lifting Speed	15 sec	15 sec
Lowering Speed	30 sec	30 sec
Voltage	12 or 24 volt DC	12 or 24 volt DC
Current Draw Lifting	10 amps running	10 amps running
	17.5 amps current limiting	17.5 amps current limiting
Current Draw Lowering	8 amps running	8 amps running
	15 amps current limiting	15 amps current limiting
Travel	18" (457mm)	18" (457mm)

3.2 PARTS IDENTIFICATION





4.0 BRACKET SETS

For safe dependable service, the Extend-A-Gun RC **MUST** be securely mounted. To make the Extend-A-Gun RC as versatile as possible, three mounting bracket kits are offered. Each kit has a different upper bracket. The lower bracket is the same in all three.



Task Force Tips strongly recommends that Extend-A-Gun RC be installed using the bracket sets, sold by Task Force Tips that are designed for this purpose. For the Extend-A-Gun RC to operate safely and properly, it must be installed in such a way that the brackets can withstand the forces resulting from the nozzle reaction force. The Task Force Tips bracket sets are designed to fit the Extend-A-Gun RC outer tube very closely to prevent distortion of the outer tube and to give it adequate support.

4.1 SELECTION OF STRUCTURAL SUPPORT ON FIRE TRUCKS.

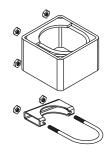
The forces acting on the mounting brackets, when the Extend-A-Gun RC is in the extended position, are higher than the forces in a normal deck gun installation. The loads on the brackets created from nozzle reaction can exceed 3000 lbs when the Extend-A-Gun is fully extended. These loads are transferred directly to the mounting brackets and the structural members they are attached to. It is crucial that the structural members selected, can withstand these forces. Qualified persons should determine suitable mounting locations and structural members. Failure to properly secure the Extend-A-Gun RC, could result in damaged equipment and serious injury.



Reaction forces generated by master stream flows are very powerful and capable of causing injury and property damage. The Extend-A-Gun RC must be securely mounted to rigid truck support members. Qualified persons should determine suitable mounting locations.



Qualified individuals should conduct mounting bracket installation. Inferior welding or poor plate installation could result in serious injury or equipment damage.



TUBE/SADDLE BRACKET SET XGB-13 (Extend-A-Gun RC3) N/A (Extend-A-Gun RC4)

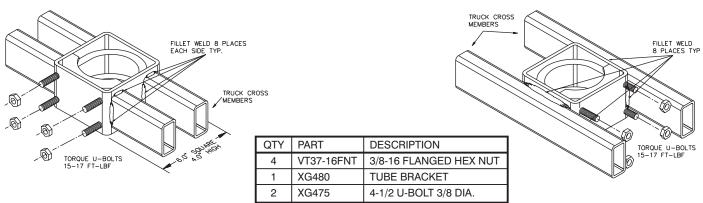


PLATE/SADDLE BRACKET SET XGB-23 (Extend-A-Gun RC3) XGB-43 (Extend-A-Gun RC4)



SADDLE/SADDLE BRACKET SET XGB-33 (Extend-A-Gun RC3) XGB-53 (Extend-A-Gun RC4)

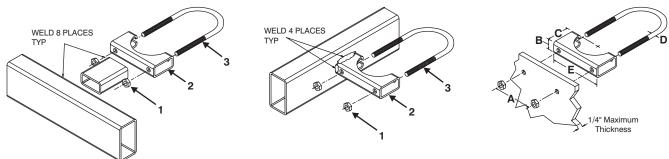
4.2 TUBE BRACKET INSTALLATION (Extend-A-Gun RC3 Only)



TUBE BRACKET WELDING

This kit contains a six inch square steel tube with two U-bolts to be used as the upper bracket and a saddle bracket, similar to a heavy duty muffler clamp for the lower bracket. Both brackets must be used. This kit is designed primarily for installation in trucks as they are being built at the factory. The tube bracket may be welded onto the truck tubular framework, as shown on the Tube Bracket Welding Diagram. The lower bracket, as shown in the Saddle Bracket Welding Diagrams, should be welded to an additional support and clamped as low at possible on the bottom of the Extend-A-Gun RC tube. Make sure the welds are capable of withstanding the forces shown on the Side Loads At Mounting Points Diagram. The Extend-A-Gun RC may be installed in the brackets after the truck is painted. Use Loctite, supplied in kit on U-bolt threads, and torque nuts on upper U-bolts to 15-17 ft-lbf, torque nuts on lower U-bolts to 36-40 ft-lbf.

4.3 SADDLE BRACKET INSTALLATION

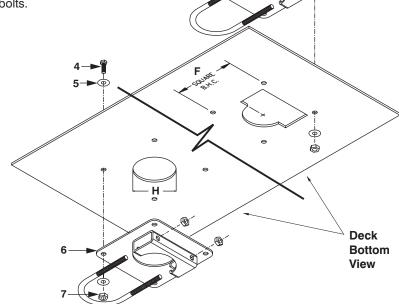


SADDLE BRACKET WELDING

This kit contains two steel saddle brackets and U-bolts, and is designed for factory installation on new equipment. Both Brackets must be used and must be welded to truck framework as far apart as possible yet still clamp on the Extend-A-Gun RC tube. The welds must be able to withstand the forces shown on the Side Loads at Mounting Points Diagram (page 8). The Extend-A-Gun RC may be installed in the brackets after the truck is painted. Use Loctite, supplied in kit on U-bolts.

4.4 PLATE BRACKET INSTALLATION

This kit may be used in either new or retro-fit installations. The top plate with its bracket may be bolted above or below an existing deck. The lower saddle bracket is installed as previously shown. Both brackets must be used. To minimize the stress on the brackets they should be as far apart as possible when clamped to the Extend-A-Gun RC tube. Please refer to the Side Loads at Mounting Points Diagram and make sure the mounting points can withstand these forces. Use Loctite®, supplied in kit on all threads, torque bolts.

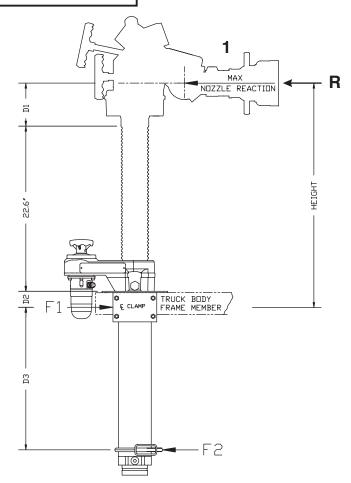


MODEL	EXTEN	D-A-GUN RC3	EXTEN	ID-A-GUN RC4
TORQUE U-BOLTS	30-40 ft-lbs	(49-54 nm)	70-80 ft-lbs	(95-108 nm)
A = Center Distance	5.0"	(127mm)	6.54"	(166mm)
B = Height	1.5"	(38mm)	2.0"	(51mm)
C = Width	3.0"	(76mm)	4.0"	(102mm)
D = U-Bolt Size	1/2-	13 UNC	5/8-	-11 UNC
E = Length	6.0"	(152mm)	9.0"	(228mm)
F = Square Pattern on Plate	7.5"	(191mm)	9.5"	(241mm)
G = Plate Width & Length	9" x 9"	(288mm x 288mm)	11" x 11"	(279mm x 279mm)
H = Hole Diameter	4-5/8"	(117mm)	6-1/4"	(159mm)
1 = Hex Nut (2 rqd)	VT5	50-13NT	VT62-11NT	
2 = Saddle Bracket	X	G486	XG488	
3 = U-Bolt	X	G476	XG477	
4 = Deck Bolt	1/2-13	3 Hex Bolt	1/2-13 Hex Bolt	
5 = Washer	1/2" I.D.		1/2" I.D.	
6 = Plate Bracket	X	G485	X	G487
7 = Deck Nut	1/2-13	3 Hex Bolt	1/2-13	3 Hex Bolt

5.0 SIDE LOADS AT MOUNTING POINTS

AWARNING

Before installing the Extend-A-Gun RC you MUST determine the forces that will be exerted in the proposed installation by the reaction force of the nozzle.



1) Determine the distance, D1, in inches, from the center of the monitor elevation joint to the bottom of the threads in the monitor inlet.

D1 FOR MOST COMMON INSTALLATIONS

Task Force Tips CROSSFIRE $D1 = 2^{"}$ Task Force Tips HURRICANE $D1 = 6^{"}$ Task Force Tips MONSOON $D1 = 13^{"}$

- **2)** Locate the value of D1, in the charts on page 9. Find the desired HEIGHT from the <u>center of the upper bracket</u> to the <u>center of the stream.</u>
- **3)** Locate D2, the distance from the bottom of the latch casting to the center of the upper mounting bracket, for the chosen HEIGHT. (inches)

4) Determine the distance, D3 in inches, from the <u>center of the upper mounting bracket</u> to the <u>center of the lower mounting bracket</u> for the proposed installation. *D3 MUST be* between D3 min and D3 max.

5) Calculate forces on Brackets, Add D1 + D2 + D3 + 22.6 =

6) Determine R maximun nozzle reaction from load charts on pages 9 and 10.

8) Divide M by D3

pounds

9) Subtract R from F1



EXTEND-A-GUN RC3

3" Waterway R = Maximum Nozzle Reaction 900 lbf

NOTE: F1 **MUST** be less than 3100 lbf. F2 **MUST** be less than 2200 lbf. And the proposed installation MUST be capable of withstanding forces of this magnitude.

▲WARNING

Injury can result from an inadequately supported monitor. The monitor mount must be capable of supporting the nozzle reaction force which can be as high as 900 lbf. (400 kg). Flanges and pipe made from plastic are inadequate for monitor mounting and must not be used.

D1	D2	HEIGHT	D3 min	D3 max
	1	25	11	20
	2	26	11	19
	3	27	11	18
1	4	28	12	17
	5	29	12	16
	6	30	13	15
	7	31	13	14
	8	32	13	13

D1	D2	HEIGHT	D3 min	D3 max
	1	29	12	20
	2	30	13	19
5	3	31	13	18
	4	32	13	17
	5	33	14	16
	6	34	14	15

D2	HEIGHT	D3 min	D3 max
1	33	14	20
2	34	14	19
3	35	15	18
4	36	15	17
5	37	15	16
	1 2 3 4	1 33 2 34 3 35 4 36	1 33 14 2 34 14 3 35 15 4 36 15

D1	D2	HEIGHT	D3 min	D3 max
	1	26	11	20
	2	27	11	19
	3	28	12	18
2	4	29	12	17
	5	30	13	16
	6	31	13	15
	7	32	13	14

D1	D2	HEIGHT	D3 min	D3 max
	1	30	13	20
	2	31	13	19
6	3	32	13	18
	4	33	14	17
	5	34	14	16
	6	35	15	15

D2	HEIGHT	D3 min	D3 max
1	34	14	20
2	35	15	19
3	36	15	18
4	37	15	17
5	38	16	16
	1 2 3 4	1 34 2 35 3 36 4 37	1 34 14 2 35 15 3 36 15 4 37 15

D1	D2	HEIGHT	D3 min	D3 max
	1	27	11	20
	2	28	12	19
	3	29	13	18
3	4	30	13	17
	5	31	13	16
	6	32	14	15
	7	33	14	14

D1	D2	HEIGHT	D3 min	D3 max
	1	31	13	20
	2	32	13	19
7	3	33	14	18
	4	34	14	17
	5	35	15	16
	6	36	15	15

D1	D2	HEIGHT	D3 min	D3 max
	1	34	15	20
	2	35	15	19
11	3	36	15	18
	4	37	16	17
	5	38	16	16

D3 min

15

15

16

17

D3 max

20

19

18

17

HEIGHT

35

36

D1

12

1

2

3

D1	D2	HEIGHT	D3 min	D3 max
	1	28	12	20
	2	29	12	19
	3	30	13	18
4	4	31	13	17
	5	32	13	16
	6	33	14	15
	7	34	14	14

D1	D2	HEIGHT	D3 min	D3 max
	1	32	13	20
	2	33	14	19
8	3	34	14	18
	4	35	15	17
	5	36	15	16
	6	37	15	15

D1	D2	HEIGHT	D3 min	D3 max
	1	34	15	20
13	2	35	16	19
	3	36	16	18
	4	37	17	17

LOAD CHARTS FOR EXTEND-A-GUN RC3 ONLY

EXTEND-A-GUN RC4

4" Waterway R = Maximum Nozzle Reaction 1500 lbf

NOTE: F1 **MUST** be less than 5000 lbf. F2 **MUST** be less than 3500 lbf. And the proposed installation MUST be capable of withstanding forces of this magnitude.

AWARNING

Injury can result from an inadequately supported monitor. The monitor mount must be capable of supporting the nozzle reaction force which can be as high as 1500 lbf. (680 kg). Flanges and pipe made from plastic are inadequate for monitor mounting and must not be used.

D1	D2	HEIGHT	D3 min	D3 max
	1	25	11	20
	2	26	12	19
	3	27	12	18
1	4	28	12	17
	5	29	13	16
	6	30	13	15
	7	31	14	14

D1	D2	HEIGHT	D3 min	D3 max
	1	29	13	20
	2	30	13	19
5	3	31	14	18
	4	32	14	17
	5	33	15	16
	6	34	15	15

D1	D2	HEIGHT	D3 min	D3 max
	1	33	15	20
	2	34	15	19
9	3	35	15	18
	4	36	16	17
	5	37	16	16

D1	D2	HEIGHT	D3 min	D3 max
	1	26	12	20
	2	27	12	19
	3	28	12	18
2	4	29	13	17
	5	30	13	16
	6	31	14	15
	7	32	14	14

D1	D2	HEIGHT	D3 min	D3 max
	1	30	13	20
	2	31	14	19
6	3	32	14	18
	4	33	15	17
	5	34	15	16
	6	35	15	15

D1	D2	HEIGHT	D3 min	D3 max
	1	34	15	20
	2	35	15	19
10	3	36	16	18
	4	37	16	17

D1	D2	HEIGHT	D3 min	D3 max
	1	27	12	20
	2	28	12	19
	3	29	13	18
3	4	30	13	17
	5	31	14	16
	6	32	14	15

D1	D2	HEIGHT	D3 min	D3 max
	1	31	14	20
	2	32	14	19
7	3	33	15	18
	4	34	15	17
	5	35	15	16

D1	D2	HEIGHT	D3 min	D3 max
	1	35	15	20
	2	36	16	19
11	3	37	16	18
	4	38	17	17
	4	30	17	17

HEIGHT D3 min

16

16

17

17

36

37

38

39

D3 max

20

19

18

17

D1

12

D2

2

4

D1	D2	HEIGHT	D3 min	D3 max
	1	27	12	20
	2	28	12	19
	3	29	13	18
4	4	30	13	17
	5	31	14	16
	6	32	14	15

D1	D2	HEIGHT	D3 min	D3 max
8	1	32	14	20
	2	33	15	19
	3	34	15	18
	4	35	15	17
	5	36	16	16

D1	D2	HEIGHT	D3 min	D3 max
	1	37	16	20
13	2	38	17	19
	3	39	17	18

LOAD CHARTS FOR EXTEND-A-GUN **RC4** ONLY

6.0 MANUAL OVERRIDE

Each Extend-A-Gun RC is equipped with an override knob. In the event of power loss, turn the knob clockwise to raise the tube or counterclockwise to lower it.

6.1 REPOSITIONING OVERRIDE KNOB

The override knob can be positioned on the top (fig. a) or bottom (fig. b) of the mechanism if desired.

- 1) Remove the 1/4" cap screws from the override cap and motor housing.
- 2) Remove the electric motor and override knob assembly.
- 3) Reinstall the motor in desired position.
- 4) Reinstall override knob assembly.
- 5) Reinstall 1/4" cap screws.

The motor polarity may be reversed by simultaneously depressing both up and down buttons for 15 seconds.

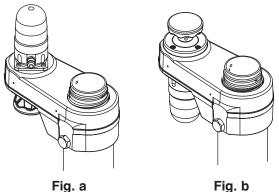


Fig. b

7.0 CONTROL BOX INSTALLATION

The Extend-A-Gun RC assembly contains a control box, which houses the electronics and switches that control the electric motor. Most of the wiring has been factory installed so the installation of this control box will include cutting a hole in the panel, mounting the control box and connecting the remaining wires. A 14-gauge power cable, 10 ft long, is used between the power source and the control box. A 14-gauge cable, 10 ft long, is provided for connection between the Extend-A-Gun RC motor and control box. If a longer length is needed, consult factory. The Extend-A-Gun RC is designed to operate on 12 or 24V DC. The Extend-A-Gun RC control box and motor are not rated as ignition proof, explosion proof, or intrinsically safe.



The electric motor and other components are ignition sources. The electric Extend-A-Gun RC should be operated only in areas where there is adequate ventilation and no hazard of flammable vapor buildup.



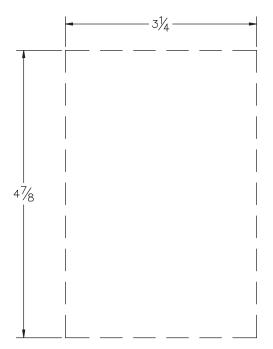
Do not remove hex nuts that are factory installed on the control box. This will affect the box seal and it's effectiveness to protect against moisture resulting in risk of drive failure.



An inadequate power supply will not drive the electric motor causing a failure to extend the telescoping waterway which will limit the operating range of the monitor. This will result in an increased risk of injury because the effectiveness of the monitor is reduced. Avoid use of thin conductors or long cable. Check installation to insure that a minimum voltage of 10 VDC is present when motor is running.

7.1 CONTROL BOX MOUNTING

Select proper operator location. Operator should be available to view Extend-A-Gun operation while operating up/down buttons. Panel space required will be 5-1/4" x 3-5/8". A depth of 3" will be required behind the panel. Refer to Figure 1 for dimensions.



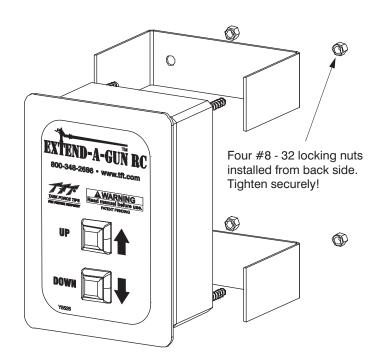


Figure 1 Operator Station/Control Box Cutout Dimensions

7.2 CONTROL BOX WIRING

The power supply for the Extend-A-Gun RC will need to be connected to a protected circuit from the trucks power distribution center. The waterproof control box is factory sealed. The box should not be opened unless service to the circuit board is needed.

- Good mechanical connections on the wires are absolutely necessary and should be checked periodically. Poor electrical connections can cause power loss to the Extend-A-Gun RC and a fire hazard.
- Be careful to route cables in a protected area away from high heat sources.
- Use grommets whenever wires pass through holes to prevent damage due to snags, abrasions, etc.
- Secure cables close to control box with plastic wire tie or cable clamp to relieve stress on the cables.
- Disconnect power before installing or servicing the electrical components.
- Careful selection of wiring is critical to avoid excessive voltage drop.

After mounting control box and Extend-A-Gun RC, refer to Figure 2 for wiring connections. Be sure to install and tighten 10-32 hex nuts securely.

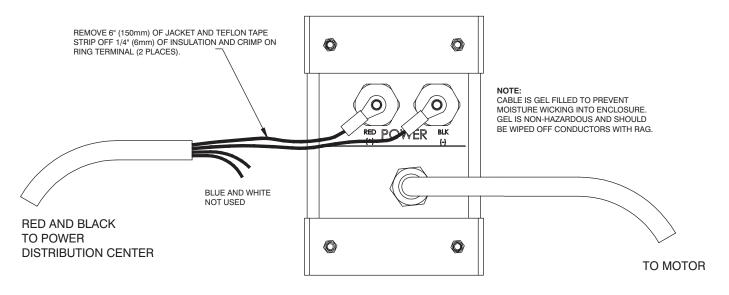


Figure 2
Control Box Connections

When electrical connections are complete, perform the following to set the full travel and to verify voltage supply is adequate and the current limiting feature is functioning.

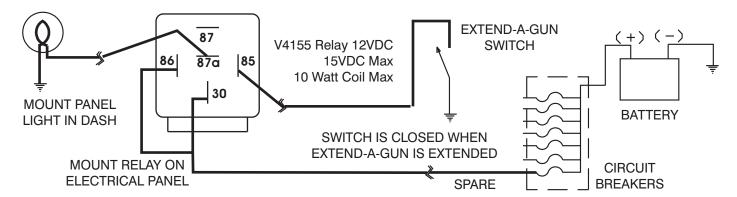
- 1) Apply power to Extend-A-Gun RC control box.
- 2) Press DOWN button and continue to hold until Extend-A-Gun RC is fully retracted. Motor must stop by current limit method. If motor continues to operate see note below.
- 3) Press UP button and continue to hold until Extend-A-Gun RC is fully extended.
- 4) Once movement is stopped, manually turn override knob in opposite direction. If knob can be turned, then voltage supply is adequate. See note below.

NOTE: If knob cannot be turned and motor continues to operate, then the voltage supply or wiring is not adequate. Check connections and voltage connection point, rewire if necessary. Override knob will only turn in one direction.

**Any time the manual override knob is used, operator must perform steps 2 & 3 above to reset the full travel limits.

8.0 INDICATOR SWITCH WIRING

The Extend-A-Gun RC contains a magnetic switch. This switch is intended to be used with a MONITOR EXTENDED warning light. The magnetic switch in the Extend-A-Gun RC is a normally open switch, and the switch is closed when the Extend-A-Gun RC is in the down position. The enclosed relay MUST BE USED to limit the current through the switch.



- 1) Mount the relay on the electrical panel with the terminals accessible.
- 2) Drill a 1/2" diameter hole in the dashboard for the panel light. Leave enough room for a 1-13/16" diameter label around the light or a 2" wide x 1-1/2" high label next to the light. Apply one of the two warning labels and push the panel light through the hole in the dash.
- 3) Connect the labeled wires on the switch to terminal #85 on the relay and ground respectively.
- 4) Connect the terminals on the panel light to terminal #87A on the relay and ground respectively.
- 5) Connect a wire from a "spare" position on the trucks circuit breaker panel to terminals #30 and #86. The circuit from the "spare" position in the fuse block should only be energized when the ignition switch is in the ON position.
- 6) Mount the relay on the electrical panel with the terminals accessible.
- 7) Drill a 1/2" diameter hole in the dash board for the panel light. Leave enough room for a 1-13/16" diameter label around the light or a 2" wide x 1-1/2" high label next to the light. Apply one of the two warning labels and push the panel light through the hole in the dash.
- 8) Connect the labeled wires on the switch to terminal #85 on the relay and ground respectively.
- 9) Connect the terminals on the panel light to terminal #87A on the relay and ground respectively.
- 10) Connect a wire from a "spare" position on the trucks circuit breaker panel to terminals #30 and #86. The circuit from the "spare" position in the fuse block should only be energized when the ignition switch is in the ON position.

9.0 LABELS

Attach the warning label (XGL020) next to the indicator light or warning label (XGL025) around the indicator light on the truck dashboard.





10.0 MOUNTING MONITOR

10.1 HURRICANE AND MONSOON

A Task Force Tips Hurricane and Monsoon® monitor may be mounted directly on the Extend-A-Gun RC. The monitors are attached to the Extend-A-Gun RC by means of a threaded joint with an o-ring seal. Once in the proper orientation, the threaded joint is locked from rotation by two 1/4-28 button head cap screws. This makes for easy removal of the monitor since the large threads of the joint are not tightened and do not have any thread locking compounds on them. The installation sequence is as follows:

- 1) Raise the Extend-A-Gun inner tube approximately 6 "up from the retracted position.
 - A) Mount so that 180 degree apart threaded cross-holes will give desired direction relative to the "Straight Ahead Reference Mark" when the monitor is installed. See appropriate section in your monitor installation manual.

- 2) Screw monitor onto Extend-A-Gun RC until threaded joint bottoms out.
 - A) Do not use pipe dope or Loctite on the inlet base threads. These threads are sealed with an o-ring. The use of thread locking compounds will make removal difficult.
- 3) Unscrew monitor until a pair of 90 degree apart slots lines up with the 180 degree apart threaded cross-holes in the Extend-A-Gun RC.
 - A) Orient monitor so that the Straight Ahead Reference Mark is facing the desired direction.
 - B) Slots will line up with threaded cross-holes every 90 degrees of rotation.
 - C) Monitor may be unscrewed up to one full turn from the bottomed out position.
- 4) Install ½-28 by ½ long button head cap screws and washers in the two threaded cross-holes. Use Loctite #271 on the threads of the button head cap screws. Allow Loctite to fully cure before applying water pressure.

10.2 CROSSFIRE ON EXTEND-A-GUN RC3

The Task Force Tips Crossfire ®, can also be mounted on Extend-A-Gun RC3 using Task Force Tips part XFF-RLF Snout, which fits only the Task Force Tips Crossfire ®. To attach the XFF-RLF Snout to the Extend-A-Gun RC3:

- 1) Raise the Extend-A-Gun inner tube approximately 6 "up from the retracted position. Place the guide ring over the inner tube.
- 2) Screw the Snout onto the Extend-A-Gun RC3 until the threaded joint bottoms out. DO NOT USE PIPE DOPE OR LOCKTITE ON THE INLET THREADS. The connection is sealed with an o-ring. Use of thread locking compounds will make removal difficult.
- 3) Unscrew snout until slotted holes in the Snout line up with the tapped holes in the Extend-A-Gun RC3. (The Snout may be unscrewed up to one full turn from the bottomed out position)
- 4) Install 1/4-28 x 1/2" long button head cap screws and stainless washers into the threaded holes. Use Locktite on the threads of the screws.



Injury can occur from an inadequately supported monitor. The mounting must be capable of supporting the nozzle reaction force which can be as high as 1500 lbs.

11.0 USE OF DRAIN

The Extend-A-Gun RC comes with a ¾" NPT hole in every inlet. This is designed to be used as a drain or plugged and use a drain elsewhere. A drain must be employed to remove excess water from the system. This prevents freezing and allows the Extend-A-Gun RC to be stowed.



Injury can occur from an inadequately supported monitor. The mounting must be capable of supporting the nozzle reaction force which can be as high as 900 lbs.

12.0 OPERATING INSTRUCTIONS



Master stream flows are very powerful and capable of causing injury and property damage. Make sure the monitor is pointing in a safe direction before water to the monitor is turned on. Use care in directing the stream.



Clear all obstructions away from the Extend-A-Gun RC before lowering. Anything caught underneath the monitor, could become crushed, when lowered.



The drive train will extend and retract only when there is no water pressure. If the buttons are pushed while under water pressure, the current limiting will engage and not allow the Extend-A-Gun RC to move. This prevents damage to the unit.



The Extend-A-Gun RC must be lowered in the stow position before the truck is driven or moved. Damage or injury may occur if the truck drives under a low hanging object, while the Extend-A-Gun RC is extended.



The Extend-A-Gun RC may be used in either the raised or the lowered position, but not in-between. The seal may become damaged if the water is turned on in any position other than fully extended or retracted.



Do not plug or cap the Extend-A-Gun RC or mounted deck gun while it is in the raised position. This will prevent the Extend-A-Gun RC from being lowered in the stow position. Damage may occur if the truck drives under a low hanging object, while the Extend-A-Gun RC is extended.

12.1 EXTEND

- 1) Make certain the valve to the monitor is closed.
- 2) Push the "UP" arrow button on the control panel to extend the mechanism. The tube will automatically extend fully, and then stop. However, if any button is pushed while the Extend-A-Gun RC is in motion, it will stop. To resume travel in either direction, select and push the button for the desired direction of travel. This system is controlled with current limiting. When the Extend-A-Gun RC is being raised, the unit is provided with maximum allowable current to lift and still protect the mechanism from damage when an obstruction is encountered.
- 3) Position monitor to desired position.
- 4) Turn on water.

12.2 RETRACT



Clear all personnel and obstructions away from the Extend-A-Gun RC before lowering. The electric motor is capable of producing 100 lbs of crushing force in the down stroke. Anything caught underneath the monitor, could become crushed, when lowered.

- 1) Make certain the valve to the monitor is closed.
- 2) Return the monitor to its stow position.
- 3) Push the "DOWN" arrow button on the control panel to retract the mechanism. The tube will automatically retract completely, and then stop. However, if any button is pushed while the Extend-A-Gun RC is in motion, it will stop. To resume travel in either direction, select and push the button for the desired direction of travel. This system is controlled with current limiting. When the Extend-A-Gun RC is being lowered, the current is lowered and the unit is slowed down. This provides a safer lowering of the unit and prevents a crushing injury in case someone is under the unit when it is lowered.

12.3 MANUAL OVERRIDE

Each Extend-A-Gun RC is equipped with an override knob. In the event of power loss, turn the knob clockwise to raise the tube or counterclockwise to lower it.

12.4 INDICATOR LIGHT

The Extend-A-Gun RC has a built in switch to control an indicator light on the truck dashboard showing that the Extend-A-Gun RC is in the extended position. This is to help prevent damage that would occur if the deck gun hits a low overhanging object. Do not move the truck with the Extend-A-Gun RC in the extended position.

12.5 OPERATION BELOW FREEZING TEMPERATURES

The apparatus that the Extend-A-Gun is mounted to may be stored in sub-freezing conditions. However, the Extend-A-Gun RC is not designed to operate in sub-freezing conditions. If in the rare instance that the Extend-A-Gun becomes inoperable due to a frozen condition, the manual override can be used to extend or retract the device.

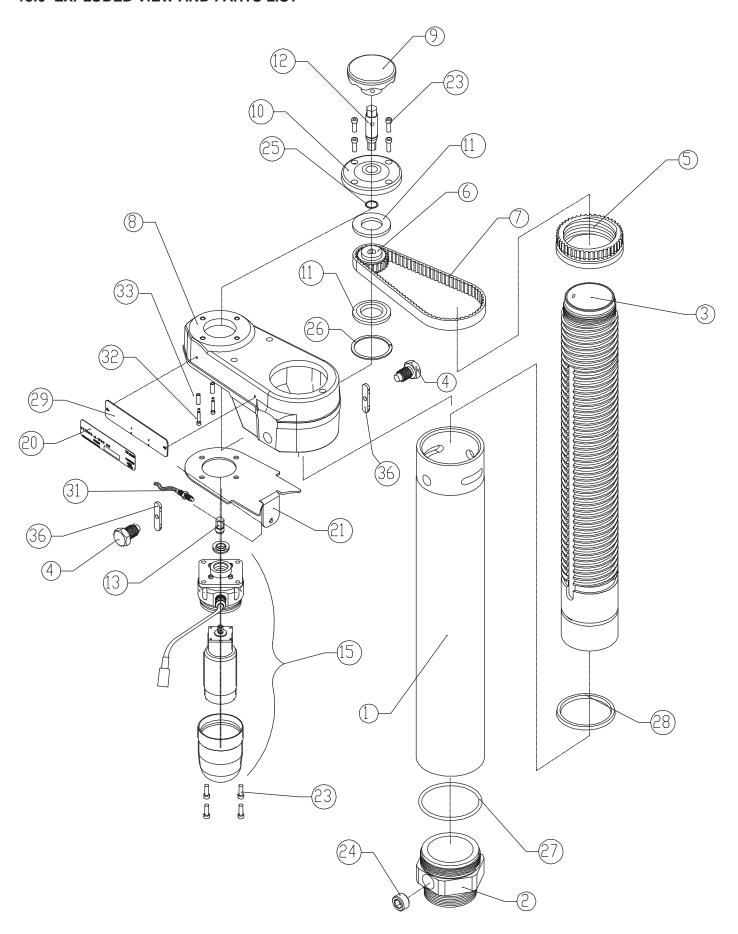
12.6 CONTINUOUS OPERATIONS

The Extend-A-Gun RC is designed to produce a short burst of maximum lifting power. This is provided by a combination of a powerful motor and a high torque gearbox. The motor/gearbox combination means that heat quickly builds up in the motor. As the heat increases, the efficiency decreases, thus reducing power and speed.

12.7 CURRENT LIMITING

The Extend-A-Gun RC is designed to produce a short burst of maximum lifting power. The drive train is protected by a current limiting current. When the Extend-A-Gun RC is being raised, the unit is provided with maximum allowable current to lift and still protect the mechanism from damage when an obstruction is encountered. When the Extend-A-Gun RC is being lowered, the drive is programmed to run at a slower speed and the current limit is reduced. This provides a safer lowering of the unit and helps prevent a crushing injury in case someone is under the unit when it is lowered.

15.0 EXPLODED VIEW AND PARTS LIST



EXTEND-A-GUN RC3

ITEM DESCRIPTION QTY PART# Outer Tube XG418 3" NPT Male inlet 1 XG405PL 3" BSP Male Inlet XG405BL (not shown) 3" Victaulic Male Inlet XG405VL (not shown) Inner Tube XGE318 3 1 Stop Bolt 2 XGE345 4 XGE330 Ring Gear 1 5 Drive gear XGE335 6 XGE350 7 **Drive Belt** 1 Drive Box XGE300 1 9 Override Knob 1 Y4165 10 XGE365 Cap 1 11 Keeper Bearing 2 XGE375 Override Shaft 12 1 XGE355 13 Motor Driveshaft 1 XGE370 15 Gear Motor 1 XGA950 Sub-Assembly Label XGEL310 20 1 Guard 1 XGE360 Crossfire Inlet 1 XGE390 (not shown) 23 1/4-20 x 3/4 SHCS 8 VT25-20SH75 24 3/4-14 NPT Pipe Plug 1 VFSP6M VR4245 25 Smalley Ring 1 Smalley Ring VR4280 26 1 O-Ring VO-343 27 XG125 28 Cup Seal 1 29 Name Plate 1 XGEL320 Reed Switch VM4144 31 1 Shoulder Bolts 2 VT25-00SB1.2 33 Roller 2 XGE320 2 XGE325 36 Slider

EXTEND-A-GUN RC4

ITEM	DESCRIPTION	QTY	PART#
1	Outer Tube	1	XGA428
2	4" NPT Male inlet	1	XGE505PP
	4" BSP Male Inlet	1	XGE505BP
	(not shown)		
	4" Victaulic Male Inlet	1	XGE505VP
	(not shown)		
3	Inner Tube	1	XGE418
4	Stop Bolt	2	XGE445
5	Ring Gear	1	XGE430
6	Drive gear	1	XGE435
7	Drive Belt	1	XGE450
8	Drive Box	1	XGE400
9	Override Knob	1	Y4165
10	Сар	1	XGE365
11	Keeper Bearing	2	XGE375
12	Override Shaft	1	XGE355
13	Motor Driveshaft	1	XGE370
15	Gear Motor	1	XGA950
	Sub-Assembly		
20	Label	1	XGEL410
21	Guard	1	XGE460
23	1/4-20 x 3/4 SHCS	8	VT25-20SH75
24	3/4-14 NPT Pipe Plug	1	VFSP6M
25	Smalley Ring	1	VR4245
26	Smalley Ring	1	VR4280
27	O-Ring	1	VO-351
28	Cup Seal	1	XGE380
29	Name Plate	1	XGEL320
31	Reed Switch	1	VM4144
32	Shoulder Bolts	2	VT25-00SB1.2
33	Roller	2	XGE320
36	Slider	2	XGE325

13.0 TROUBLE SHOOTING

SYMPTOM	POSSIBLE CAUSE	REMEDY
Leaks	Debris or damage in seal area	Clean out debris or replace damaged parts
Binding, Erratic operation	Low Voltage (see below)	See Below
Does not raise	Low voltage due to: - wire gage too small - wire length too long - poor connection - inadequate apparatus electrical system	Check connections and wiring per section 7.2
Does not lower	Low voltage due to: - wire gage too small - wire length too long - poor connection - inadequate apparatus electrical system	Check connections and wiring per section 7.2

14.0 MAINTENANCE AND INSPECTION

The Extend-A-Gun RC requires little maintenance. The Extend-A-Gun RC should be kept clean and free of dirt. All controls should be checked for freedom of movement and proper operation before each use. Any inoperable or damaged parts should be repaired or replaced immediately. Consult factory for recommended service procedure.

- Make sure that the Extend-A-Gun RC handwheel rotates freely and without binding throughout its range of travel.
- Make sure that there are no leaks when the Extend-A-Gun RC is flowing water.

14.1 LUBRICATION CHART

The Extend-A-Gun RC is permanently lubricated on the cup seal and ACME threads. If lubricant has been removed during service, then apply a thin film of White Lithium Grease on seal surfaces and on ACME threaded surfaces.

16.0 WARRANTY FOR EXTEND-A-GUN RC

Task Force Tips, Inc., 2800 East Evans Avenue, Valparaiso, Indiana 46383-6940 ("TFT") warrants to the original purchaser of its Extend-A-Gun RC Telescoping Waterway ("equipment"), and to anyone to whom it is transferred, that the equipment shall be free from defects in material and workmanship during the five (5) year period from the date of purchase.

TFT's obligation under this warranty is specifically limited to replacing or repairing the equipment (or its parts) which are shown by TFT's examination to be in a defective condition attributable to TFT. To qualify for this limited warranty, the claimant must return the equipment to TFT, at 2800 East Evans Avenue, Valparaiso, Indiana 46383-6940, within a reasonable time after discovery of the defect. TFT will examine the equipment. If TFT determines that there is a defect attributable to it, it will correct the problem within a reasonable time. If the equipment is covered by this limited warranty, TFT will assume the expenses of repair.

If any defect attributable to TFT under this limited warranty cannot be reasonably cured by repair or replacement, TFT may elect to refund the purchase price of the equipment, less reasonable depreciation, in complete discharge of its obligations under this limited warranty. If TFT makes this election, claimant shall return the equipment to TFT free and clear of any liens and encumbrances.

This is a limited warranty. The original purchaser of the equipment, any person to whom it is transferred, and any person who is an intended or unintended beneficiary of the equipment, shall not be entitled to recover from TFT any consequential or incidental damages for injury to person and/or property resulting from any defective equipment manufactured or assembled by TFT. It is agreed and understood that the price stated for the equipment is in part consideration for limiting TFT's liability. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above may not apply to you.

TFT shall have no obligation under this limited warranty if the equipment is, or has been, misused or neglected (including failure to provide reasonable maintenance) or if there have been accidents to the equipment or if it has been repaired or altered by someone else.

THIS IS A LIMITED EXPRESS WARRANTY ONLY. TFT EXPRESSLY DISCLAIMS WITH RESPECT TO THE EQUIPMENT ALL IMPLIED WARRANTIES OF MERCHANT ABILITY AND ALL IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE. THERE IS NO WARRANTY OF ANY NATURE MADE BY TFT BEYOND THAT STATED IN THE DOCUMENT.

This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.