Instructions

XD Diesel Exhaust Fluid (DEF) Hose Reels



3A1767A

ENG

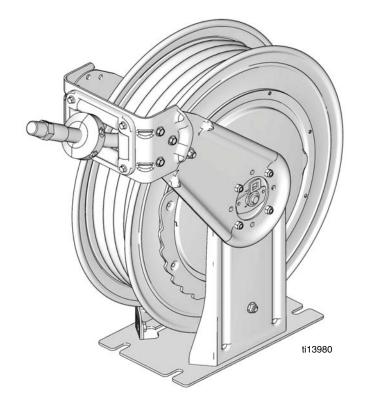
For use with Diesel Exhaust Fluid only. For professional use only.

Not approved for use in European explosive atmosphere locations.

Application markets include: mobile equipment servicing and industrial plants.

Models: Page 3







Warnings

The following warnings are for the setup, use, grounding, maintenance, and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbol refers to procedure-specific risk. Refer back to these warnings. Additional, product-specific warnings may be found throughout the body of this manual where applicable.



FIRE AND EXPLOSION HAZARD

When flammable fluids are present in the work area, such as gasoline and windshield wiper fluid, be aware that flammable fumes can ignite or explode. To help prevent fire and explosion:

- Use equipment only in well ventilated area.
- Eliminate all ignition sources, such as cigarettes and portable electric lamps.
- Keep work area free of debris, including rags and spilled or open containers of solvent and gasoline.
- Do not plug or unplug power cords or turn lights on or off when flammable fumes are present.
- Ground all equipment in the work area.
- Use only grounded hoses.
- If there is static sparking or you feel a shock, stop operation immediately. Do not use equipment until you identify and correct the problem.
- Keep a working fire extinguisher in the work area.

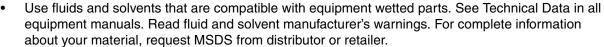


EQUIPMENT MISUSE HAZARD

Misuse can cause death or serious injury.



- Do not operate the unit when fatigued or under the influence of drugs or alcohol.
- Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See Technical Data in all equipment manuals.



- Do not leave the work area while equipment is energized or under pressure. Turn off all equipment and follow the Pressure Relief Procedure when equipment is not in use.
- Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only.
- Do not alter or modify equipment.
- Use equipment only for its intended purpose. Call your distributor for information.
- Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces.
- Do not kink or over bend hoses or use hoses to pull equipment.
- Keep children and animals away from work area.
- Comply with all applicable safety regulations.



PRESSURIZED EQUIPMENT HAZARD

Fluid from the gun/dispense valve, leaks, or ruptured components can splash in the eyes or on skin and cause serious injury.

- · Follow the Pressure Relief Procedure when you stop spraying and before cleaning, checking, or servicing equipment.
- Tighten all fluid connections before operating the equipment.
- Check hoses, tubes, and couplings daily. Replace worn or damaged parts immediately.

WARNING



MOVING PARTS HAZARD

Moving parts can pinch, cut or amputate fingers and other body parts.

- Keep clear of moving parts.
- Do not operate equipment with protective guards or covers removed.



• Pressurized equipment can start without warning. Before checking, moving, or servicing equipment, follow the **Pressure Relief Procedure** and disconnect all power sources.



PERSONAL PROTECTIVE EQUIPMENT

You must wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect you from serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and burns. This equipment includes but is not limited to:

- Protective eyewear, and hearing protection.
- · Respirators, protective clothing, and gloves as recommended by the fluid and solvent manufacturer.

Models

Each model shown in the table below is available in several colors. The last character of each model no. indicates the hose reel color. A = white, B = Metallic Blue and F = Yellow. On the table below, this last character is represented by the generic # symbol. For example, to show the complete model number for a white HSDD5# model hose reel, the symbol # is replaced with "A". The complete model number is: HSDD5A.

Model No.	Application	Hose	Maximum Pressure			
wiodei No.	Application	Size	PSI	Bar	Мра	
HSDD5#	Diesel Exhaust Fluid	3/4 inch	50	3.4	0.34	
HSDDD#	Diesel Exhaust Fluid	3/4 inch	50	3.4	0.34	

Installation

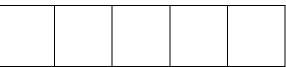












A bleed-type master air valve (E), thermal relief valve (H) and fluid drain valve (J) are required in your system installation. These (user supplied) components help reduce the risk of serious injury.

- The hose reel must be grounded.
- The **bleed-type master air valve (E)** relieves air trapped between this valve and the pump after the air is shut off. Trapped air can cause the pump to cycle unexpectedly, therefore locate the valve close to the pump.
- The thermal relief valve (H) and fluid drain valve (J) assist in relieving fluid pressure in the
 displacement pump, hose and dispense valve. Triggering the dispensing valve (N) to relieve
 pressure may not be sufficient. Open the fluid drain valve (J) to relieve fluid pressure that
 may be captured elsewhere in the system.

Typical Installation Layout

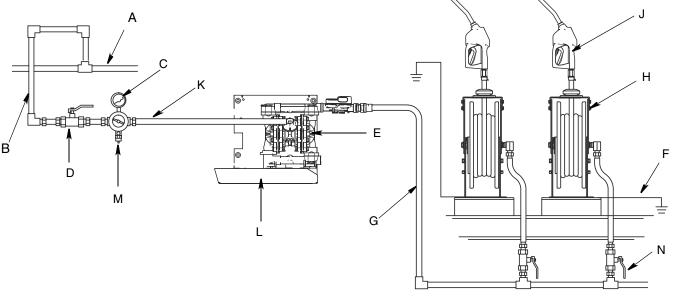
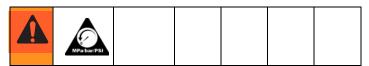
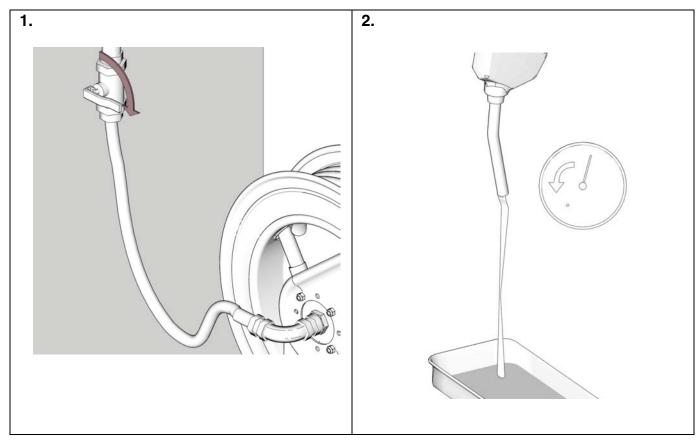


Fig. 1

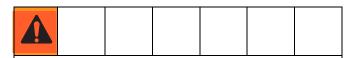
- A Main air supply
- B Pump air supply
- C Air regulator
- D Bleed-type master air valve (user supplied, required)
- E Pump
- F Grounding wire (user supplied, required for pump and hose reel)
- G Fluid line
- H Hose reel
- J Dispensing valve
- K Air Supply Line
- L Nozzle Tray
- M Safety Valve (set to 50 psi (3.4 bar, 03.4 MPa)
- N Fluid Shutoff Valve

Pressure Relief Procedure



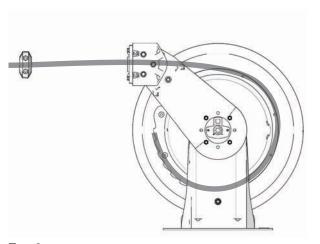


All Mountings



To reduce the risk of injury, be sure the mounting surface and mounting screws are strong enough to support the reels, weight of the fluids and stress caused by hard pulls on the service hoses. See Technical Data, page 16 for weights of hose reel assemblies.

NOTE: Reels perform best when arm allows hose to pull straight off the spool as shown in Fig. 2 and Fig. 3.



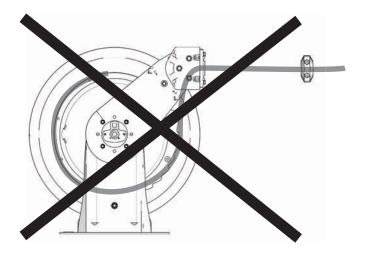


Fig. 2

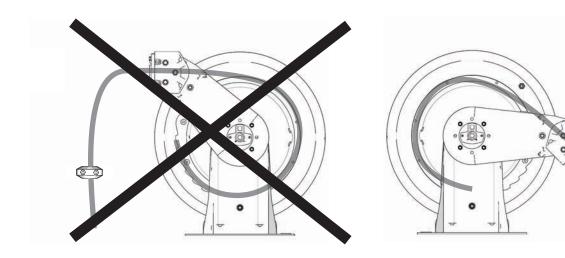
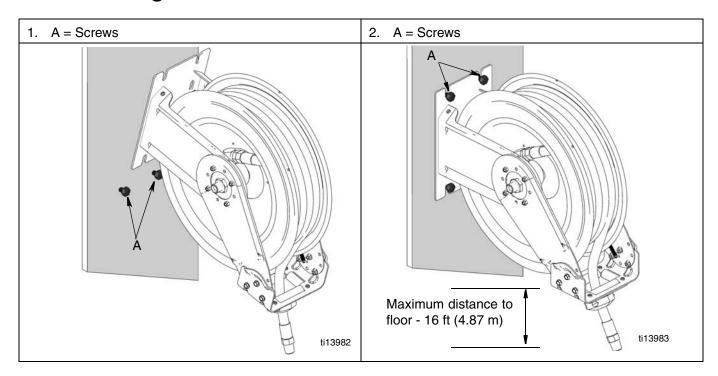
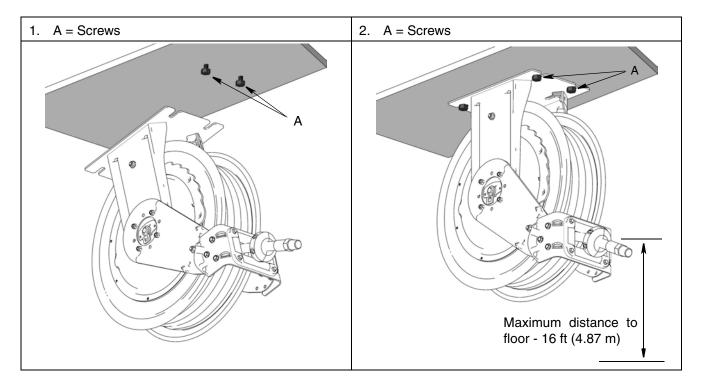


Fig. 3

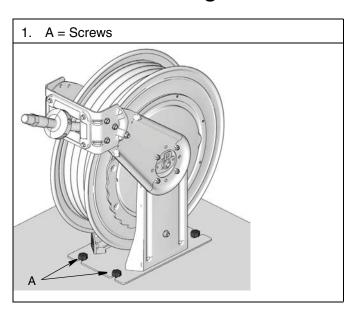
Wall Mounting



Ceiling Mounting

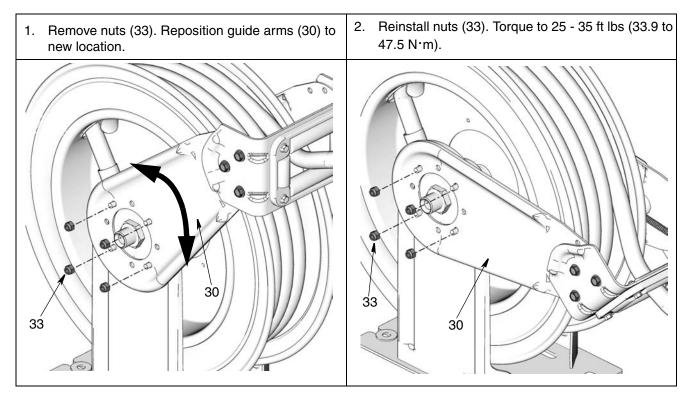


Truck Bed Mounting

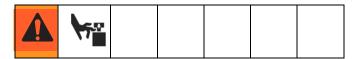


Changing Position of Guide Arms (30)



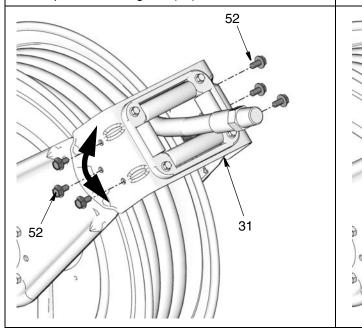


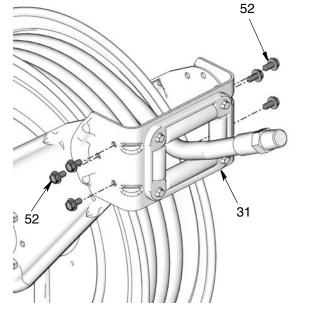
Changing Hose Guide (31) Position



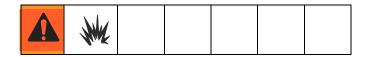
- Remove screws (52) and nuts (53) (not shown).
 Reposition hose guide (31) to new location.

 52
- 2. Reinstall screws (52) and nuts (53) (not shown). Torque to 25 35 ft lbs (33.9 to 47.5 N·m).

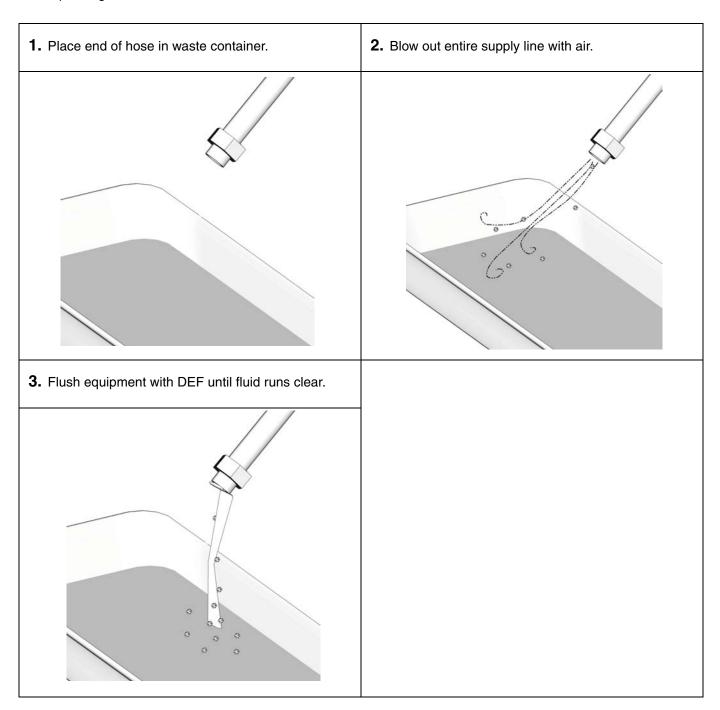




Flushing



<u>Before</u> installing meter or dispense valve to end of hose, flush supply line with a solvent compatible with the fluid you are dispensing.



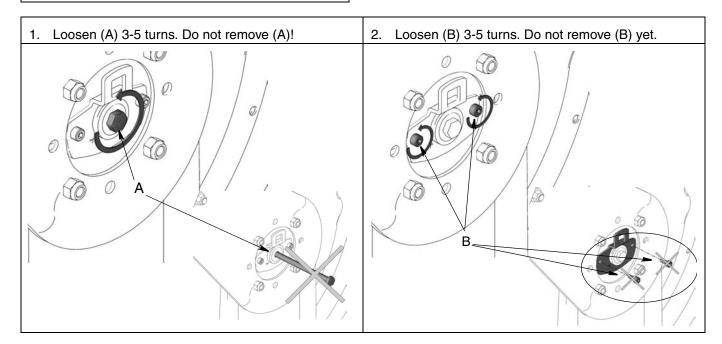
Adjusting Spring Tension

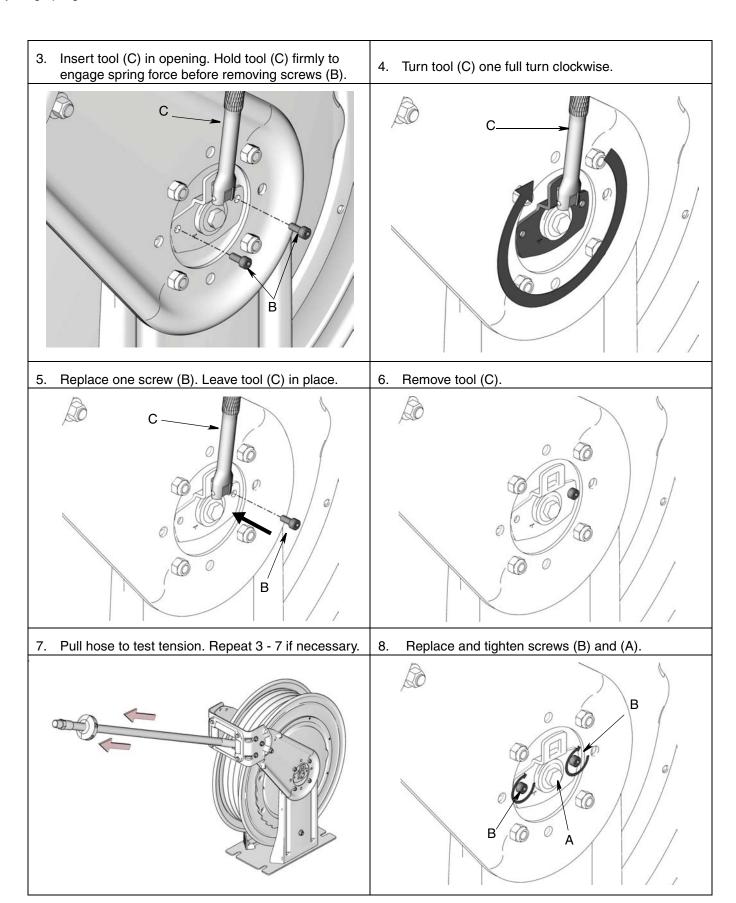
Increasing Spring Tension



Uncontrolled spinning of the hose reel could cause serious injury if you are hit by the hose or the adjusting tool (C).

- Never allow the reel to spin freely.
- Always grasp the tool firmly with both hands when adjusting tension.
- The reel must be bolted securely in place when making adjustments.



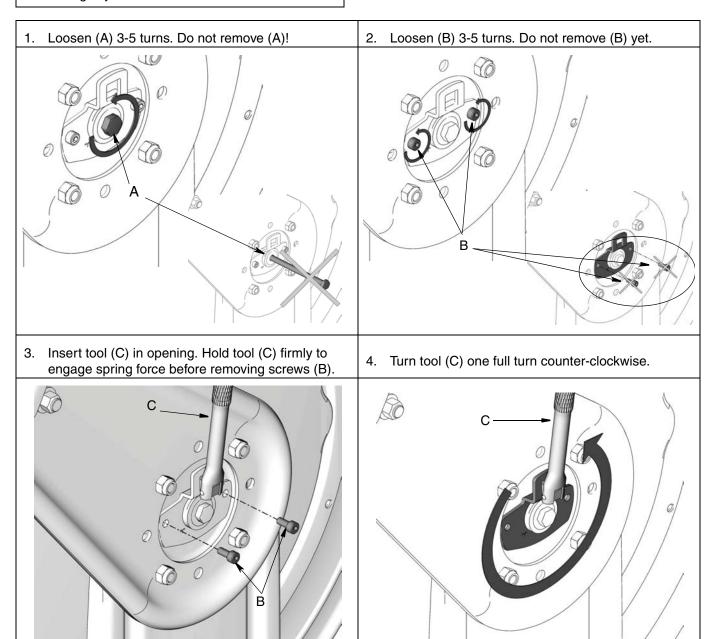


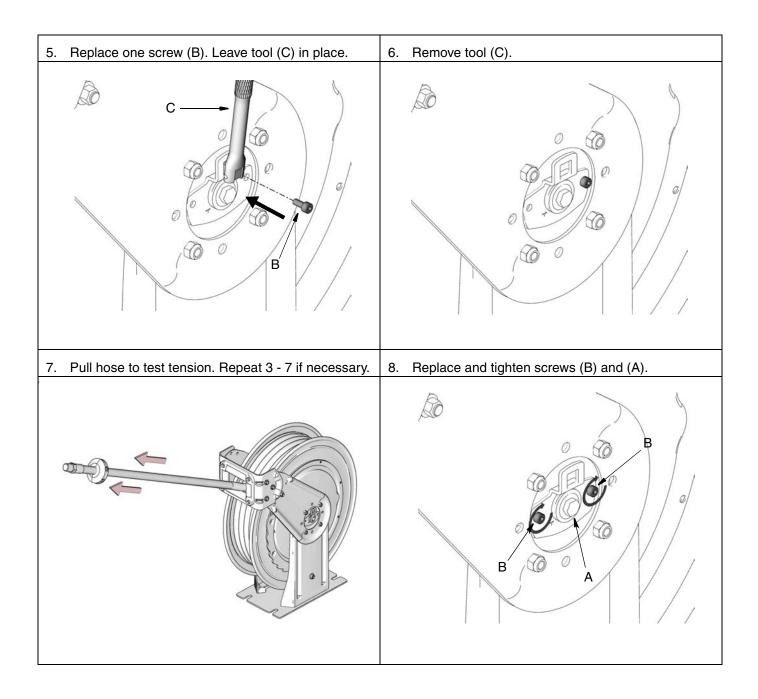
Decreasing Spring Tension



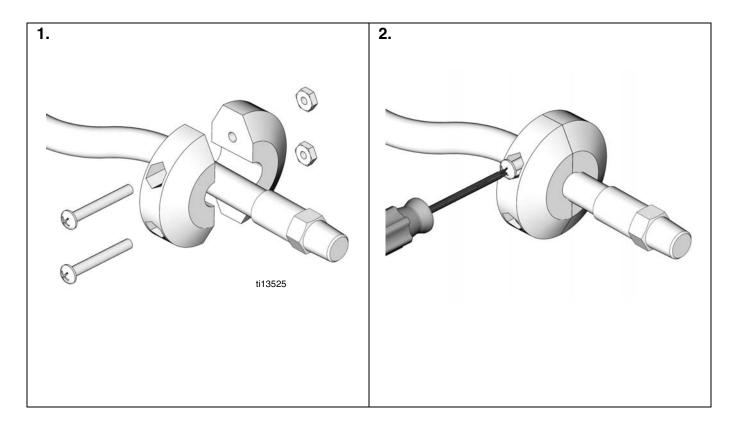
Uncontrolled spinning of the hose reel could cause serious injury if you are hit by the hose.

- Never allow the reel to spin freely.
- Always grasp the tool firmly with both hands when adjusting tension.
- The reel must be bolted securely in place when making adjustments.

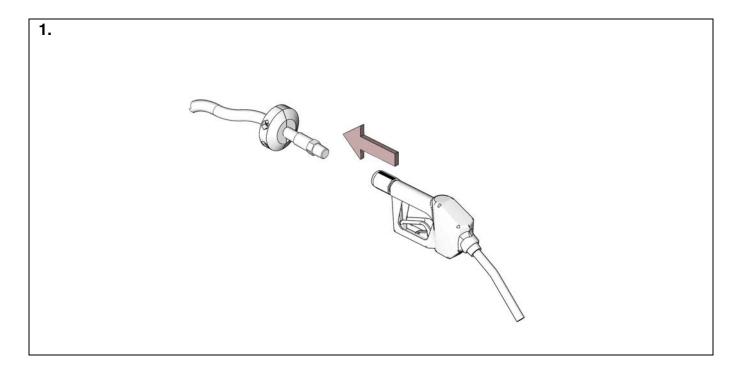




Hose Stopper Installation

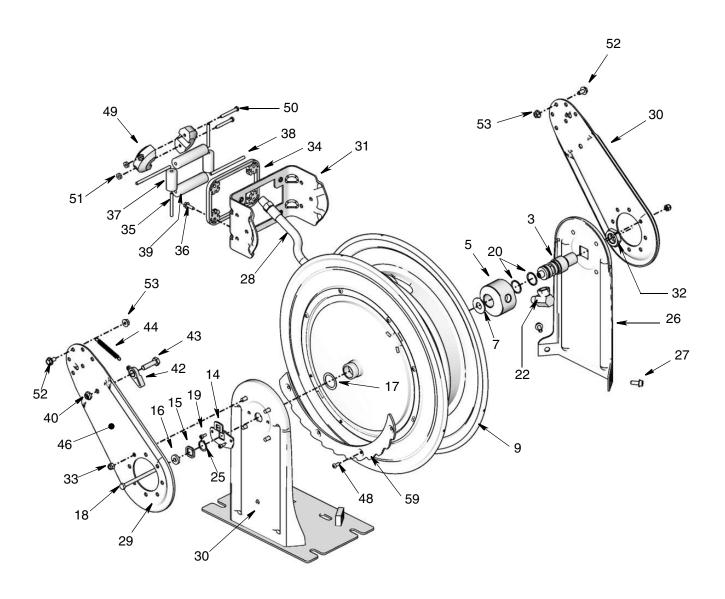


Installing Nozzle



Parts

Ref.				Ret.			
No.	Part No.	Description	Qty	No.		Description	Qty
1‡		SHAFT, spring (not shown)	1	36◆★		BOLT, m6x 20 lg w/patch	4
2	15Y781	WASHER, flat (not shown)	1	37◆★		ROLLER, hose	2
3†		KIT, swivel, shaft	1	38◆★		PIN, roller	2
4‡		KEY, square (not shown)	1	39◆★		ROLLER, hose	2
5‡		HUB, power, spring	1	40❖		NUT, lock, hex	1
7‡		WASHER, flat, spring side	1	41*		BUSHING, pawl (not shown)	1
9‡		FLANGE, set, black	1	42 *		KIT, pawl, ratchet	1
10‡		SPRING, power, 21 turn (not	1	43 *		BOLT, m10 x 40 lg]
		shown)		44 *	4 5 1 1 1 0 0 0	SPRING, sst]
11‡		COVER, spring, black (not shown)	1	46 ▲	1500036	LABEL, Warning	
12‡		GASKET (not shown)	1	48 *	010041	SCREW, button head m6	
14		ADJUSTER, power spring	1	49 √ 50 √	218341) 4
15		WASHER, flat, square center	1	30 v		SCREW, mach, phil, pn hd,	
16		WASHER, flat 31 id	1	E1 /		(HSDD5# models only)	,
17		WASHER, flat	1	51✔		NUT, hex, jam (HSDD5# models	4
18		SCREW, swivel shaft	1	EO	111700	only)	
19		SCREW, cap	2	52 53	111799	SCREW, cap, hex hd NUT, hex	6
20†	125264	PACKING, o-ring	2 1	59 ∻	10A390	RATCHET, Aluminum	1
22† 24	16/1/6	SWIVEL, elbow	1	39*		TATOTILI, Aldillilatii	1
24	16A147	BASE, painted, all models white BASE, painted, all models metallic	1	A Da	nlaaamar	at Danger and Warning labels tage	200
	10A147	•	1		•	nt Danger and Warning labels, tags a	ariu
	16/1/10	blue BASE, painted, all models yellow	1			ailable at no cost.	
	16A149	BASE, painted, all models desert	1	† Incli	ıded in Sı	vivel and Seal Replacement Kit 24K	259
	10/143	sand	'	❖ Incl	uded in R	atchet and Latch Replacement Kit	
25	1511//0	RING, retaining, ext, 22mm	1		C995		
26		PEDESTAL, arm, swivel side, all	1			logo Cuido Kit 04C006	
20	10/1104	models white	•			lose Guide Kit 24C996	
	164135	PEDESTAL, arm, swivel side, all	1	★ Inci	uded in B	ulk Head Hose Guide Kit 24C997	
	10/1100	models metallic blue	•	‡ Inclu	ıded in Sı	oool Replacement Kit 24C998	
	16A136	PEDESTAL, arm, swivel side, all	1		•	ose Stop Replacement Kit 237873	
	10/1100	models, yellow	•	V IIICI	uucu III I I	ose otop riepiacement Nit 207070	
	16A137	PEDESTAL, arm, swivel side, all	1				
	10/110/	models desert sand	•				
27	16A691	SCREW, socket head	2				
28		HOSE, DEF, 50 ft, 3/4 BSPP x 3/4	1				
	0	BSPP (HSDD5# models only)	•				
30	16A121	ARM, guide, all models, white	2				
00		ARM, guide, all models, metallic	2				
	. •,	blue	_				
	16A123	ARM, guide, all models, yellow	2				
		ARM, guide, all models, desert	2				
	. •,	sand	_				
31	16A140	GUIDE, hose, all models, white	1				
•	16A141	GUIDE, hose, all models, metallic	1				
	. •	blue	•				
	16A142	GUIDE, hose, all models, yellow	1				
		GUIDE, hose, all models, desert	1				
		sand					
32	125265	NUT, hex, 3/4 x 14 BSPP	1				
33	104541	NUT, lock	8				
34◆★		BRACKET, roller	1				
35◆★		PIN roller	2				



Technical Data

Model No.	Application	Hose Size	Maximum Pressure			Inlet	Outlet
woder no.	Application	nose size	PSI	Bar	Мра	(BSPP)	(BSPP)
HSDD5# HSDDD#	DEF	3/4 in. x 50 ft. (19 mm x 1524 cm)	50	3.4	0.34	3/4 inch	3/4 inch
HSDD5# HSDDD#	Bare	N/A	50	3.4	0.34	3/4 inch	3/4 inch

Maximum Dry Weight (without hose)

HS Models: 98 pounds (44.5 kg)

Operating Temperature Range: 12°F (-11°C) to 140°F (60°C)

Sound Data all models:

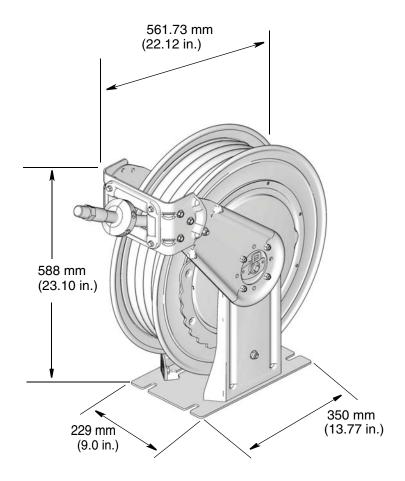
Sound Pressure - 85.8 dB(A) calculated at 1 meter per ISO9614.2

Sound Power - 94.9 dB(A) measured per ISO 9614-2

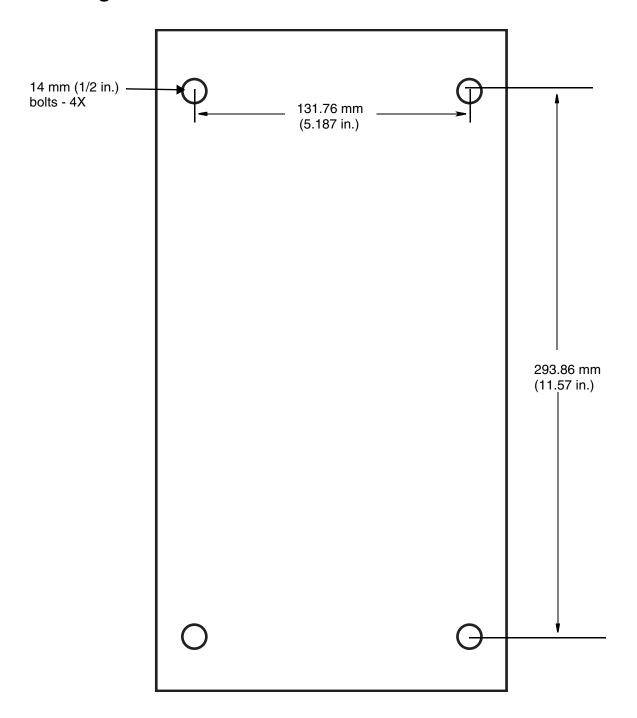
Wetted Parts

SST, Compatible Polyurethane, Fluoroelastomer

Dimensions



Mounting Pattern



Graco Hose Reel Warranty

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period as defined in the table below from the date of sale, repair or replace equipment covered by this warranty and determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

Component	Warranty Period		
Wear parts, including but not limited to: hose, swivel seals, roller guide	12 months		
Reel structural components and spring	36 months		
Bare hose reels: all components	12 months		

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within 48 months of the date of sale, or 24 months for all other parts.

GRACO MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN CONNECTION WITH ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY GRACO. These items sold, but not manufactured by Graco (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

In no event will Graco be liable for indirect, incidental, special or consequential damages resulting from Graco supplying equipment hereunder, or the furnishing, performance, or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of Graco, or otherwise.

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Graco Information

For the latest information about Graco products, visit www.graco.com.

TO PLACE AN ORDER, contact your Graco distributor or call to identify the nearest distributor.

Phone: 612-623-6928 or Toll Free: 1-800-533-9655, Fax: 612-378-3590

All written and visual data contained in this document reflects the latest product information available at the time of publication.

Graco reserves the right to make changes at any time without notice.

Original instructions. This manual contains English. MM 3A1767

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