

Instructions – Parts List



STAINLESS STEEL, AUTOMATIC

Hydra Spray Guns, less tip

306815L

For Automatic, Airless, Circulating, and Non-Circulating Systems

3000 psi (21 MPa, 210 bar) Maximum Working Pressure

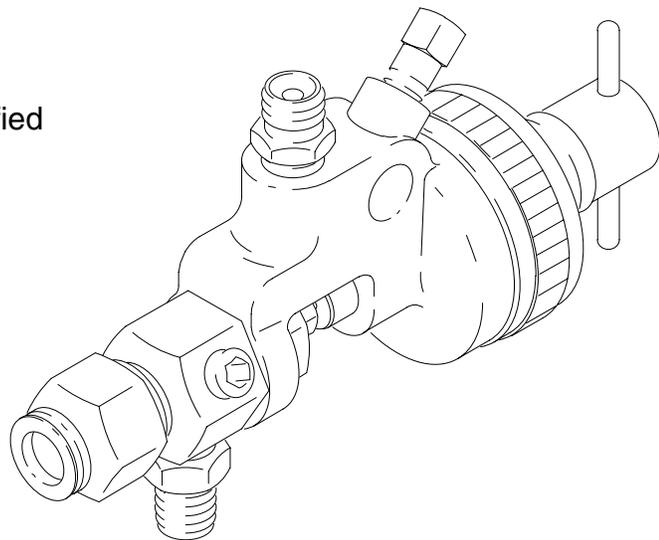
* Part No. 207614, Series B

* Part No. 206513, Series J

* Part No. 206887, Series F

Part No. 904372, Series A

*This model is  certified



06372

美国固瑞克206513 207614自动喷枪产品说明书



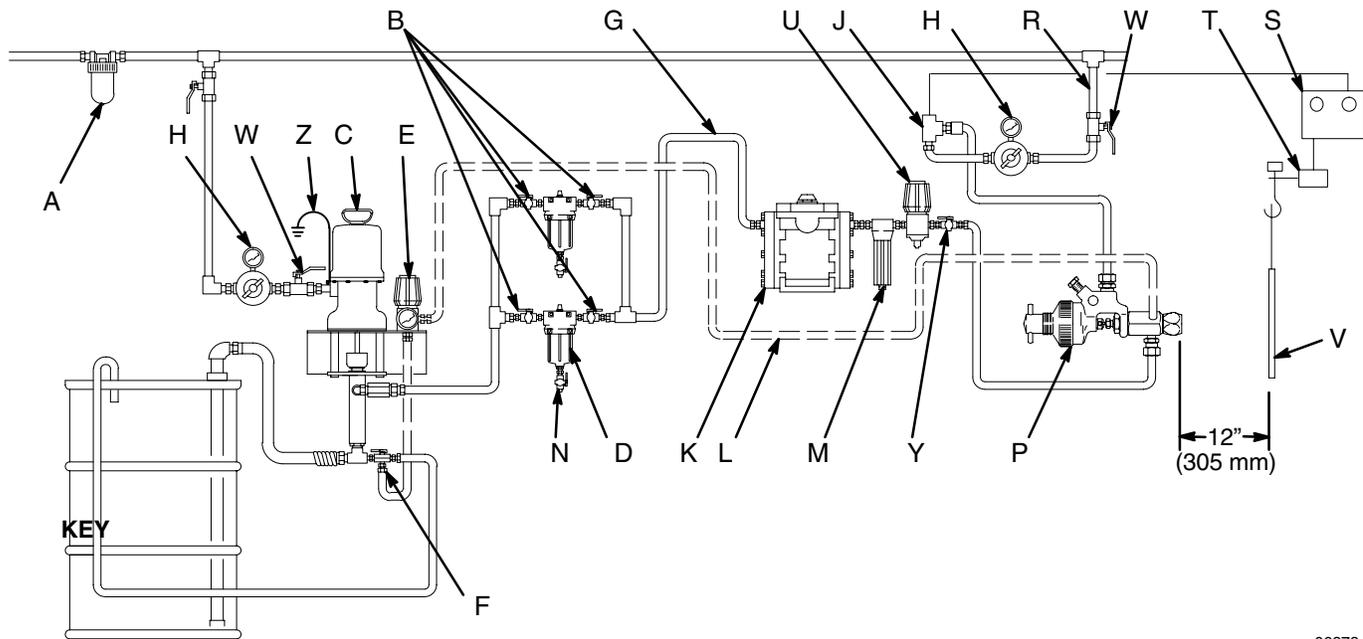
Read warnings and instructions.
See page 2 for Table of Contents.

PROVEN QUALITY. LEADING TECHNOLOGY.



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Installation



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- | | | |
|-------------------------------|------------------------------------------------|-------------------------------|
| A Air Line Filter | H Air Regulator (if required) | R Air Line |
| B Ball Valves | J 3-Way Air Valve | S Timer |
| C Pump | K Heater (if used) | T Timer Switch |
| D High Pressure Fluid Filters | L Fluid Return Line (circulating systems only) | U Fluid Regulator |
| E Back Pressure Valve | M Fluid Filter | V Workpiece |
| F Fluid Director Valve | N Drain Valve | W Bleed-Type Master Air Valve |
| G Fluid Supply Line | P Automatic Spray Gun | Y Fluid Shut-off Valve |
| | | Z Pump Ground Wire |

Typical Installation

The typical installation drawing above is only a guide for selecting required and optional accessories for an automatic airless spray system. Contact your Graco representative for assistance in designing a system to meet your particular needs.

NOTE: Reference numbers and letters in parenthesis in the text refer to the callouts in the Typical Installation, Fig. 1, Fig. 2, and the parts drawing.

Ventilate the Spray Booth

WARNING

To prevent hazardous concentrations of toxic and/or flammable vapors, spray only in a properly ventilated spray booth. Never operate the spray gun unless ventilation fans are operating.

Mount the Gun

Mount the gun on a 0.50 in (12.7 mm) diameter rod (Y) on a mounting fixture or a spray machine. See Fig. 1 and the Typical Installation. The gun tip should be 12 in (305 mm) from the surface of the workpiece (V).

Operation

Check the tightness of the spray tip retaining nut (21).

Before each day's operation, lubricate the exposed portion of the needle (22) and the piston (13) with a lubricant compatible with the fluid being sprayed. After lubricating, cover the exposed portions of the needle and piston with a piece of plastic to prevent fluid build-up on these parts. Any spray build-up could damage the valve packings (Parts 17 and 24 on Models 206513 and 207614, Part 17 only on Models 206887 & 904372). See Fig. 2.

Use a fluid filter to remove particles and sediment that could clog the tip.

Set the timer (S) so that the gun will start spraying before meeting the workpiece and stop spraying just after the workpiece has passed.

Set the actuating air to at least 50 psi (345 kPa, 3.4 bar), but not higher than 100 psi (0.7 MPa, 7 bar) and start the pump. Adjust the pump speed and pressure to obtain the proper atomization - always use the lowest pump speed necessary to get the results you want. The spray tip orifice size and angle determine coverage and pattern. Don't try to get more coverage by increasing the pump pressure - use a larger tip instead.

In a circulating system, adjust the back pressure valve to provide constant system back pressure for all guns while maintaining the proper pressure for fluid circulation. Refer to the Typical Installation on page 6.

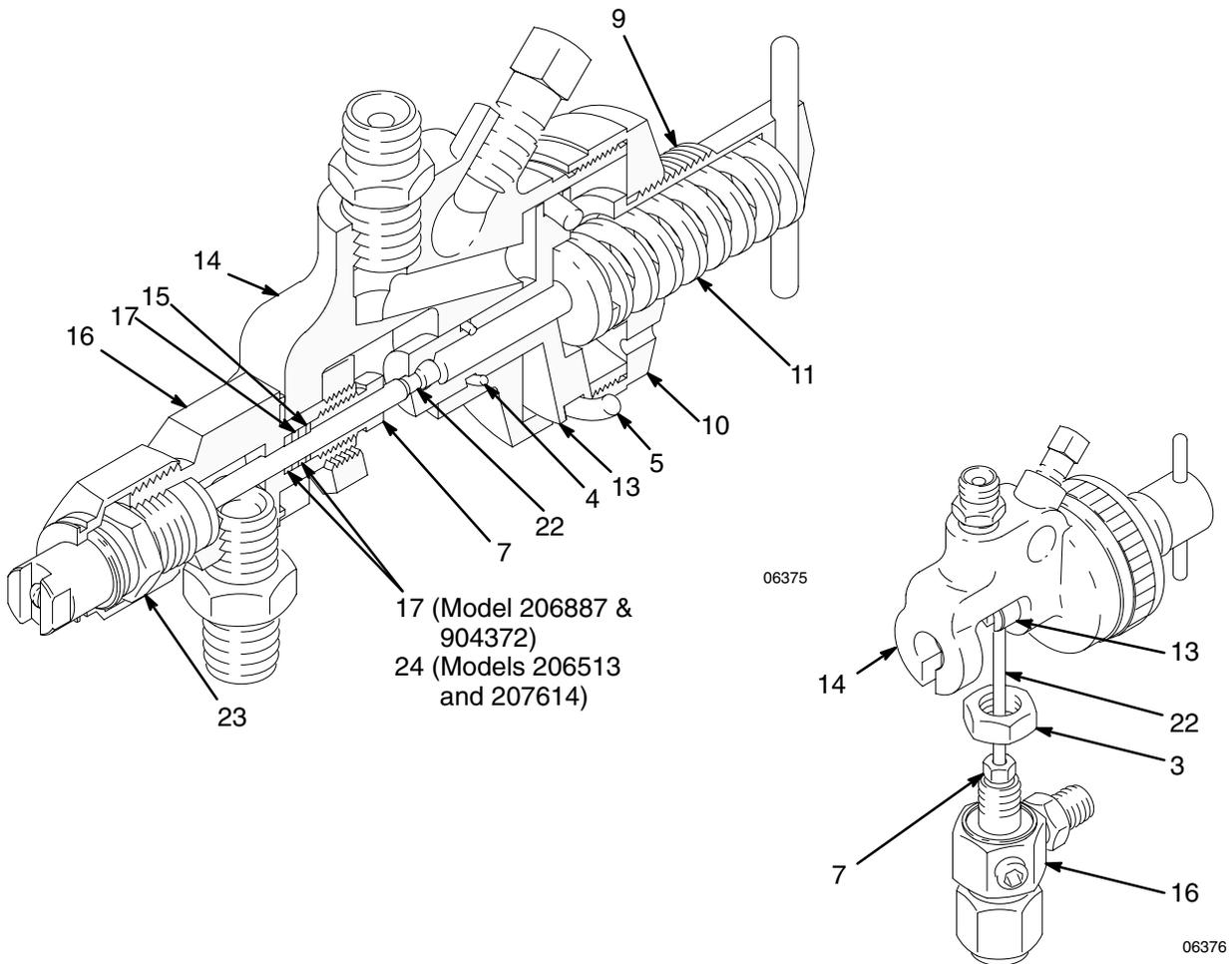


Fig. 2

Service

WARNING

To reduce the risk of serious injury whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** on page 5.

Needle, Seat, and Packings

To clean or replace the needle (22), its seat (23) or packings (17 or 24), **relieve the pressure**, remove the spray tip and flush the gun with a compatible solvent. Disconnect the fluid hose(s). Screw the locknut (3) off the head (16) and align the slot in the air piston (13) with the slot in the gun body (14). Swing the head out of the gun body and slide the needle out of the socket in the air piston.

Screw the packing nut (7) out and remove the packings (17 or 24), gland (15), and needle (22). Remove the tip and screw the seat (23) out of the housing. See Fig. 2. Handle the needle and seat carefully and inspect them closely for wear or damage. Reassemble the gun using new parts as necessary. Soak a new leather packing in light, compatible oil before installing it.

Air Piston, Spring, and Seals

WARNING

To reduce the risk of serious injury whenever you are instructed to relieve pressure, always follow the **Pressure Relief Procedure** on page 5.

Relieve the pressure, then remove the gun head as explained above. Remove the air cylinder cap (10), take out the spring (11) and pull the piston (13) out. Clean and inspect all parts. Check the piston o-rings (4,5) carefully. Lubricate all parts with a light water-proof grease and reassemble the gun using new parts as necessary.

NOTE: Use a repair kit to service the gun. See page 13. For best results, use all the parts in the kit even if the old ones still look good.

Packing Configurations

On Models 206513 and 207614, the standard packings are two 181523 UHMWPE packings and one 166258 leather packing. On Models 206887 and 904372, the standard is three 168296 PTFE packings.

If your usage requires packings different from those that are standard on your gun, refer to the following chart of available packing configurations.

Model No.	Leather Packings	UHMWPE Packings	PTFE Packings
206513	(3) 166258 leather	(2) 181523 UHMWPE and (1) 166258 leather (Standard)*	(3) 168296 PTFE
207614	(3) 166258 leather	(2) 181523 UHMWPE and (1) 166258 leather (Standard)#	(3) 168296 PTFE
206887	(3) 166258 leather	(2) 181523 UHMWPE and (1) 166258 leather	(3) 168296 PTFE (Standard)†
904372	(3) 166258 leather	(2) 181523 UHMWPE and (1) 166258 leather	(3) 168296 PTFE (Standard)†

* Included in Repair Kit 214968.

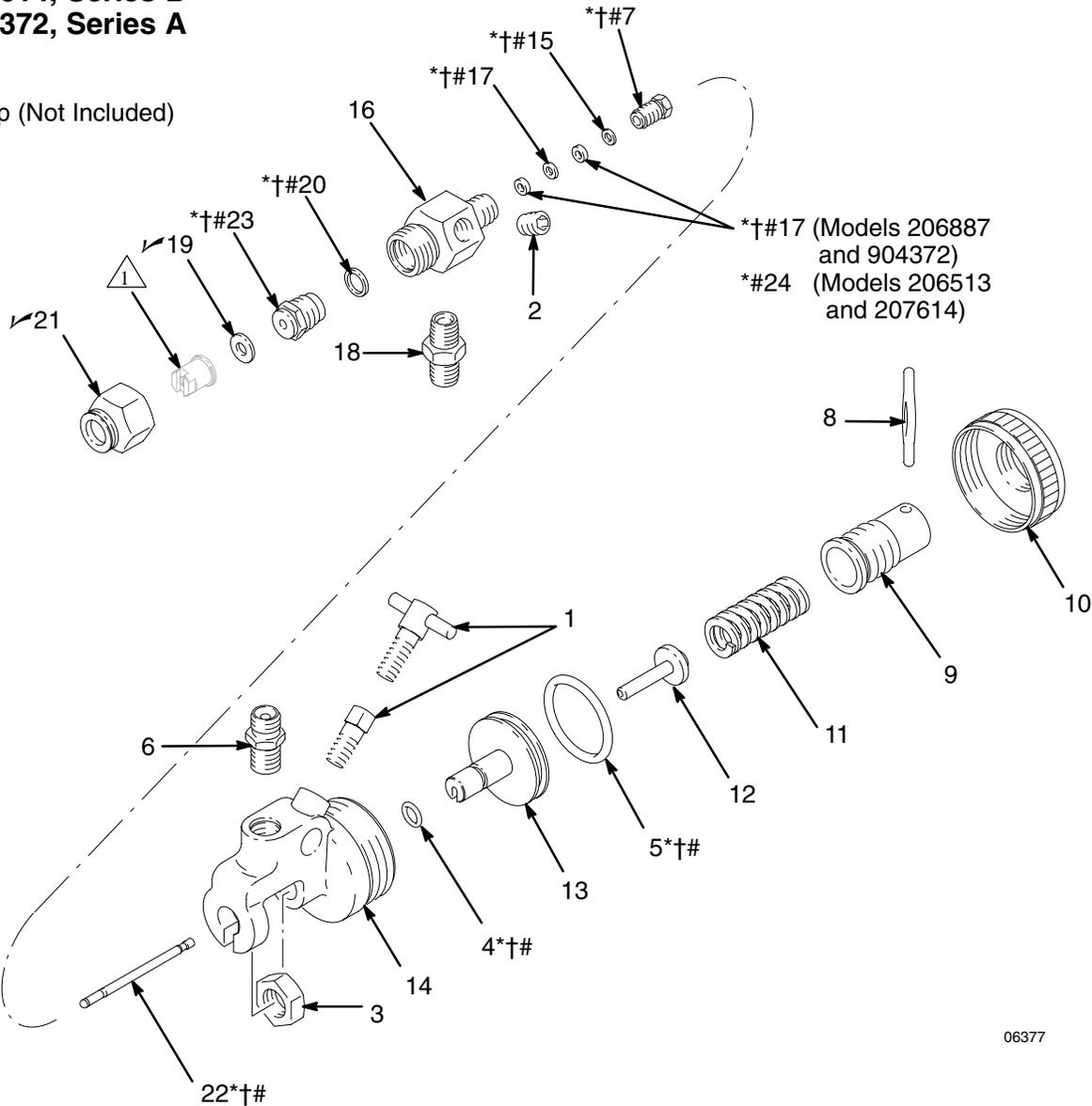
† Included in Repair Kit 214841.

Included in Repair Kit 747096.

Parts

Model 206513, Series J
Model 206887, Series F
Model 207614, Series B
Model 904372, Series A

 Spray Tip (Not Included)



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Parts

Ref No.	Part No.	Description	Qty.	Ref No.	Part No.	Description	Qty.
1	101554	SCREW, sq hd cup pt set; 3/8-16 x 3/4"	1	17†	168296	PACKING, PTFE (standard on Models 206887 & 904372 only)	3
1	205355	SETSCREW, t-handle (Models 206887 & 904372 only)	1	18	166421	ADAPTER, hex pipe; SST; 1/4 npt x 1/4 npsm	1
2	101970	PLUG, slotted pipe; 1/4 npt	1	19✓	166969	GASKET, acetal homopolymer	1
3	102300	NUT, jam; 9/16-18	1	20#*	167730	GASKET, copper (Models 206513 & 207614 only)	1
4#†*	155685	O-RING, nitrile rubber	1	20†	176255	GASKET, nylon (Models 206887 & 904372 only)	1
4	502377	O-RING, Viton (Model 904372 only)	1	21✓	171602	NUT, tip retainer; SST	1
5#†*	156593	O-RING, nitrile rubber	1	22#†*	220195	NEEDLE, valve; chrome plated SST w/carbide ball	1
5	502136	O-RING, Viton (Model 904372 only)	1	23*	214966	SEAT, valve; 416 SST, carbide; with diffuser (Model 206513 only)	1
6	162453	ADAPTER, hex pipe; 1/4 npt x 1/4 npsm	1	23#†	205645	SEAT, valve; 303 SST, carbide; without diffuser (Models 207614, 206887, & 904372 only)	1
7#†*	164313	NUT, packing; SST	1	24#*	181523	PACKING; UHMWPE (standard on Models 206513 & 207614 only)	2
8	164736	PIN, straight hdls; 0.188" (3.2 mm) dia; 2.0" (50.8 mm) long	1	#	<i>Supplied in repair kit 747096</i>		
9	164737	SCREW, adjusting	1	†	<i>Supplied in repair kit 214841</i>		
10	164738	CAP, air cylinder (Models 206513 & 207614 only)	1	*	<i>Supplied in repair kit 214968</i>		
10	166848	CAP, air cylinder (Models 206887 & 904372 only)	1	✓	<i>Recommended "tool box" spare parts. Keep these spare parts on hand to reduce down time.</i>		
11	164739	SPRING, compression	1				
12	164740	GUIDE, spring	1				
13	164741	PISTON, air	1				
14	164745	BODY, spray gun (Models 206513 & 207614 only)	1				
14	166847	BODY, spray gun (Models 206887 & 904372 only)	1				
15#†*	166255	GLAND, packing; SST	1				
16	166256	HEAD, spray gun	1				
17a#*	166258	PACKING, leather (standard on Models 206513 & 207614 only)	1				

Technical Data

Maximum fluid working pressure	3000 psi (21 MPa, 210 bar)
Maximum working fluid temperature	120° F (49° C)
Minimum operating pressure of air actuated trigger	50 psi (345 kPa, 3.4 bar)
Maximum working air pressure	100 psi (0.7 MPa, 7 bar)
Air and fluid connections	1/4 npsm(m)
Wetted parts (Model 206513 & 207614)	Acetal Homopolymer, Leather, Copper, Tungsten Carbide, 303 & 416 Stainless Steel, UHMWPE
Wetted parts (Models 206887 & 904372)	Acetal Homopolymer, Nylon, PTFE, Tungsten Carbide, 416 & 303 Stainless Steel
Sound Pressure at 2000 psi (14 MPa, 140 bar)	69 dB(A)
3000 psi (21 MPa, 210 bar)	70 dB(A)
Sound Power at 2000 psi (14 MPa, 140 bar)	80 dB(A)
3000 psi (21 MPa, 210 bar)	81 dB(A)

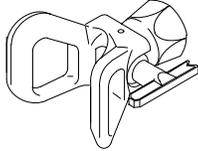
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Accessories

TIP GUARDS

These tip guards fit all Graco airless spray guns. Choose the one that's right for your application. One of these tip guards is included with every Graco airless gun.

- 222422** Standard Dripless™ Tip Guard. Order flat tip separately. See your distributor for available sizes.

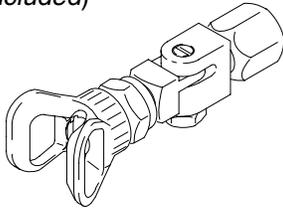


- 222674** Heavy Duty RAC™ Dripless™ Tip Guard. Order Switch Tip separately. See your distributor for available sizes.

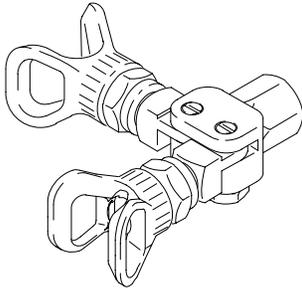
DIRECTIONAL SPRAY NOZZLE ADAPTERS

(Tip filter and retainer not included)
3000 psi (21 MPa, 210 bar) Maximum Working Pressure.

- 206235** Single nozzle swivels 180°; permits changing spray pattern direction to suit job. (*Spray tip not included*)

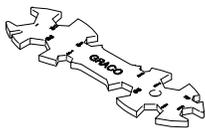


- 206236** Dual nozzle provides wider spray pattern or two spray patterns angled in opposite directions. (*Spray tip not included*)



WRENCH

171147



NYLON BRUSHES

For cleaning gun passages.

- 101891** 0.375" dia
101892 0.625" dia

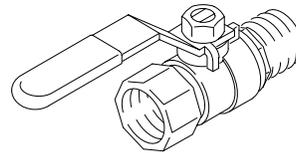


BLEED-TYPE MASTER AIR VALVE (REQUIRED)

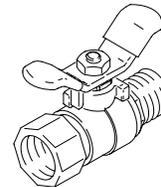
300 psi (2.1 MPa, 21 bar) Maximum Working Pressure

Relieves air trapped in the air line between the pump air inlet and this valve when closed.

- 107141** 3/4 npt(m x f) inlet & outlet



- 107142** 1/2 npt(m x f) inlet & outlet

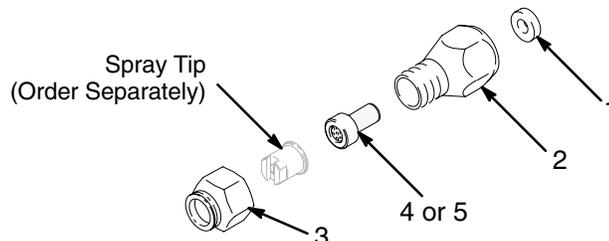


ACCESSORY KIT 210624

(For Models 206513 & 206887)

3000 psi (210 bar) Maximum Working Pressure
Replaces gasket and tip retainer. Includes both 0.005" and 0.009" filters.

Ref No.	Part No.	Description	Qty.
1	162863	WASHER	1
2	187148	RETAINER	1
3	171601	TIP RETAINER	1
4	205264	FILTER; (0.005" spacing) (Includes HEAD 164075)	1
5	205265	FILTER; (0.009" spacing) (Includes HEAD 164075)	1



Dimensions

