



Advanced Performance. Total Reliability.

Owner's Manual
Notice d'utilisation
Manual del Propietario
Do not use this equipment before
reading this manual!

CAPSPRAY 105

HVLP Spray System



Model
0524033

Register your product online at:

www.titantool.com

Proper registration will serve as proof of purchase in the event your original receipt becomes misplaced or lost.

Serial Number* _ _ _ _ _

* See page 5 for location

NOTE: This manual contains important warnings and instructions. Please read and retain for reference.



Important Safety Information • Read all safety information before operating the equipment. **SAVE THESE INSTRUCTIONS.**



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



To reduce the risks of fire or explosion, electrical shock and the injury to persons, read and understand all instructions included in this manual. Be familiar with the controls and proper usage of the equipment.

HAZARD: EXPLOSION HAZARD DUE TO INCOMPATIBLE MATERIALS

Will cause property damage or severe injury.

PREVENTION:

- Do not use materials containing benzene or acetone.
- Do not use hydrogenated hydrocarbon solvents such as benzene, methylene chloride and 1,1,1-trichloroethane. They are not compatible with a urethane.
- Contact your coating supplier about the compatibility of materials with a urethane.



HAZARD: GENERAL

Can cause severe injury or property damage.

PREVENTION:

- Read all instructions and safety precautions before operating any equipment.
- Follow all appropriate local, state, and national codes governing ventilation, fire prevention, and operation.
- The United States Government Safety Standards have been adopted under the Occupational Safety and Health Act (OSHA). These standards, particularly Part 1910 of the General Standards and Part 1926 of the Construction Standard should be consulted.
- Use only manufacturer authorized parts. User assumes all risks and liabilities when using parts that do not meet the minimum specifications and safety devices of the manufacturer.
- Before each use, check all hoses for cuts, leaks, abrasion or bulging of cover. Check for damage or movement of couplings. Immediately replace the hose if any of these conditions exist. Never repair a hose. Replace it with an identical replacement hose.
- Do not spray outdoors on windy days.
- Wear clothing to keep paint off skin and hair.
- Never aim the spray gun at any part of the body.

HAZARD: EXPLOSION OR FIRE

Solvent and paint fumes can explode or ignite. Property damage and/or severe injury can occur.

PREVENTION:

- Exhaust and fresh air introduction must be provided to keep the area within the spray area free from accumulation of flammable vapors.
- Turbine contains sparking parts. Turbine must be placed in a well-ventilated area at maximum distance from the spray area.
- Avoid ignition sources such as static electricity, open flames, pilot lights, hot objects, cigarettes, and sparks from connecting and disconnecting power cords and working light switches.
- Use extreme caution when using materials with a flashpoint below 70° F (21°C). A fluid's flashpoint is the temperature at which vapors from the fluid could ignite if exposed to a flame or spark.
- Fire extinguishing equipment must be present and in working order.
- The power cord must be connected to a grounded circuit.
- Follow the material and solvent manufacturer's safety precautions and warnings.



HAZARD: HAZARDOUS VAPORS

Paints, solvents, insecticides, and other materials can be harmful if inhaled or come in contact with the body. Vapors can cause severe nausea, fainting, or poisoning.

PREVENTION:

- Use a respirator or mask if vapors can be inhaled. Read all instructions supplied with the mask to be sure to provide the necessary protection.
- Wear protective eyewear.
- Wear protective clothing as required by coating manufacturer.



HAZARD: SKIN BURN INJURY

Heated parts can cause severe skin burn injury.

PREVENTION:

- Quickly disconnect fittings on the hose and spray gun become hot during use. Avoid skin contact with quickly disconnect fittings when they are hot. Always quickly disconnect fittings to cool before disconnecting the spray gun from the hose.



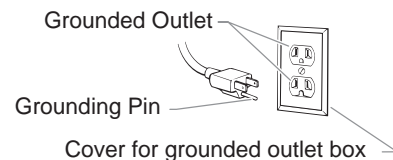
Grounding Instructions

This product must be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having a ground wire with an appropriate grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.

WARNING - Improper installation of the grounding plug can result in a risk of electric shock.

If repair or replacement of the cord or plug is necessary, do not connect the green grounding wire to either flat blade terminal. The wire with insulation having a green outer surface with or without yellow stripes is the grounding wire and must be connected to the grounding pin.

Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if you are in doubt as to whether the product is properly grounded. Do not modify the plug provided. If the plug will not fit the outlet, have the proper outlet installed by a qualified electrician.



IMPORTANT: Use only a 3-wire extension cord that has a 3-blade grounding plug and a 3-slot receptacle that will accept the plug on the product. Make sure the extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current the product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. A 12 gauge cord is recommended. If an extension cord is to be used outdoors, it must be marked with the suffix W-A after the cord type designation. For example, a designation of SJTW-A would indicate that the cord would be appropriate for outdoor use.

NOTE: More than 100 feet of extension cord is not recommended. Use more paint hose, not more extension cord. Shorter extension cords will assure maximum electrical power for proper operation.

Service

Should your spray system need service during the warranty period, return your unit and the proof of purchase to the distributor where it was purchased. At our option, the unit will be repaired or replaced. In a continued commitment to improve quality, we reserve the right to make component or design changes when necessary.

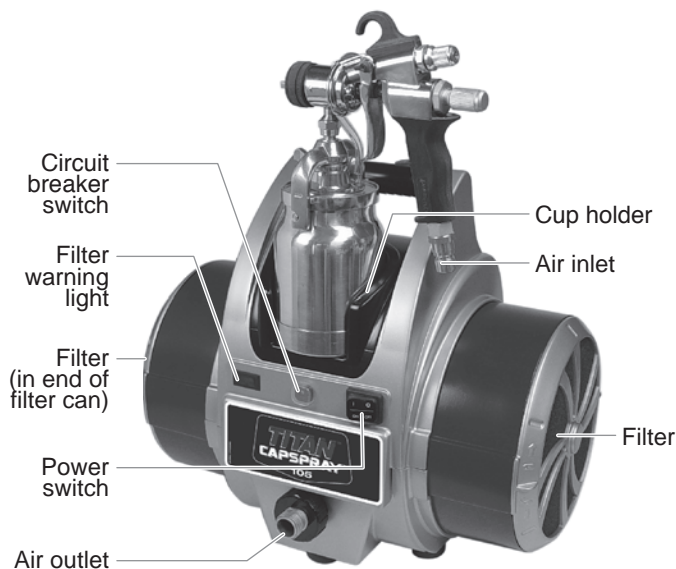
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Introduction

This High Volume/Low Pressure (HVLP) spray system is designed for applying coatings to surfaces that can be sprayed faster than brushing or rolling and are too small for traditional airless sprayers. Components of this system include a power switch, a power cord, a filter warning light, a circuit breaker switch, a dual filtration system, a cup holder, an air hose, and an air outlet.

The turbine is also equipped with a tool box. It is located on the reverse side of the turbine and can be used to store projector sets or any other small spare parts.



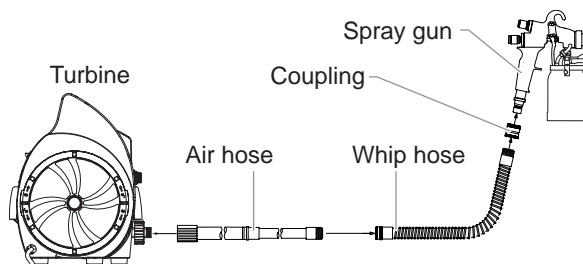
*Air hose not pictured

With this HVLP spray system, you can achieve the highest quality professional finish possible with little or no preparation or setup time. Please review all the information contained in this manual before operating the system.

Using an HVLP Spray System

Refer to the following information to operate and understand your HVLP spray system.

Your system may include a short air ("whip") hose. The short hose should be connected to the longer hose or a remote spraying system (sold separately) and NOT directly to the turbine. See your spray gun instruction manual for complete instructions.



IMPORTANT: Do not attach the short air whip hose directly to the turbine, as the hose will become damaged.

Setup

Use the following procedure to set up your HVLP spray system for operation.

1. Plug the turbine power cord into a grounded, 3-slot receptacle.

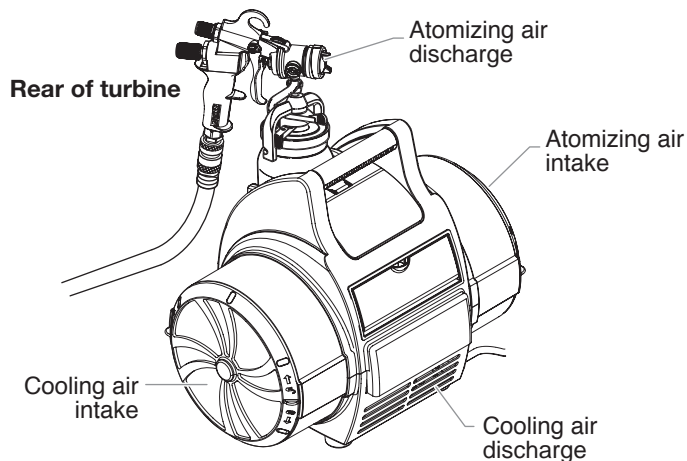


Keep the turbine at the maximum possible distance from the spray area to safeguard against explosion or fire that may be caused by sparking electrical parts.

2. Prepare your spray gun for operation. Refer to your spray gun manual for material preparation, setup, and spraying information.
3. Attach the air hose to the air outlet on the turbine.
4. Attach the air hose to the air inlet on your spray gun.
5. Turn on the turbine and begin spraying.

Dual Filtration System

The turbine has two different air filters— one for atomizing air and one for cooling air. The atomizing air filter is a two-stage, fine mesh filter designed to trap particles that may damage your finish. The atomizing air is discharged through the nozzle of the spray gun where it atomizes the coating material. The cooling air filter is a coarse mesh filter designed to allow the proper amount of air flow through the turbine for cooling purposes. Cooling air is exhausted through the cooling air discharge on the front of the turbine.



Filter Warning System

The filter warning system on your turbine consists of a red filter warning light on the front control panel and an air flow switch inside the turbine. When the air flow switch does not detect the appropriate amount of air flowing through the turbine, the filter warning light will come on to indicate that it is time to clean or change the filters.

NOTE: The filter warning system does not shut down the turbine.

IMPORTANT: Clean filters regularly. Clogged filters can cause excessive heat and possibly damage the turbine.

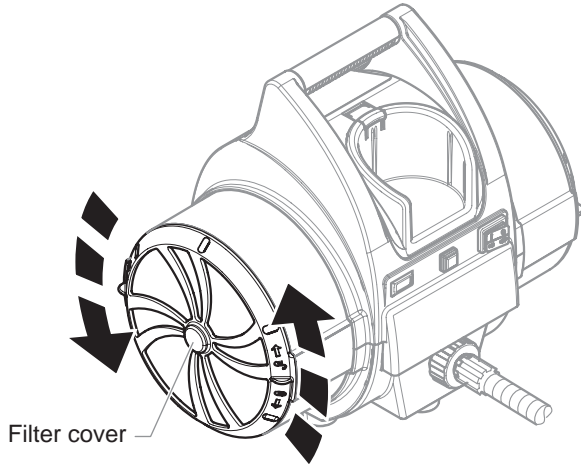
Maintenance

Use the following procedures to keep your HVLP spray system running properly.

Cleaning / Replacing the Filters

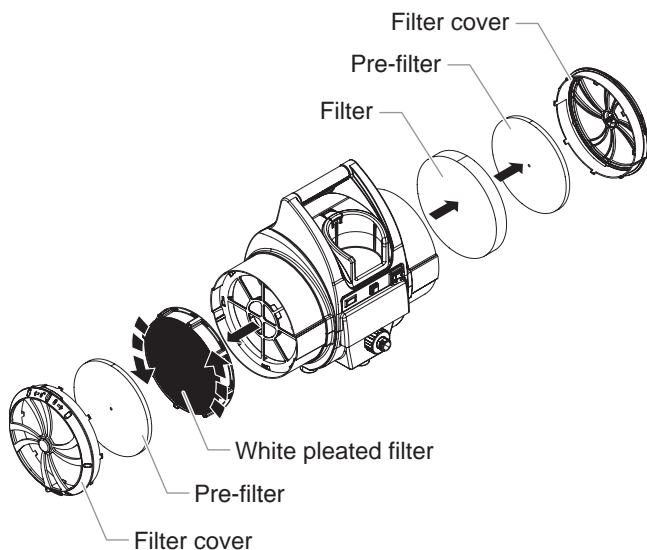
IMPORTANT: Make sure the turbine is unplugged before changing the filters.

1. Remove the filter covers on each side of the turbine by turning them counterclockwise.



2. Remove each filter set (pre-filter and filter) from the filter housing on each side of the turbine.

NOTE: The white pleated filter is removed from the turbine in the same manner as the filter cover. Turn counterclockwise to unlock and remove.



3. Clean the filters. Either tap the filters to knock out the contaminants or use pressurized air to blow out the contaminants. For material that is not blown or knocked loose easily, soak the filters in soapy water or mineral spirits. Allow the filters to dry completely before placing them back in the turbine.

NOTE: Do not use highly flammable solvents, such as lacquer thinner, to clean the filters.

IMPORTANT: Do not soak paper pleated filter in solvents. Only tap the filter or use compressed air directed at the inside (the clean side).

4. Insert each filter back into its corresponding filter can.

NOTE: Make sure the white pleated filter is fitted securely to the spokes of the filter can. Turn clockwise to secure in place.

5. Replace the filter covers on each side of the turbine by turning them clockwise.

After several cleanings, it may become necessary to replace the filters. Refer to the parts list near the end of this manual for the filter replacement kit part number.

Cleaning the Air Hoses

1. Periodically wipe the outer surface of the air hose with a damp cloth to keep clean.

IMPORTANT: DO NOT submerge into or flush the air hose with water or any chemical.

IMPORTANT: DO NOT use methylethylketone (MEK), naphtha, mineral spirits, paint thinner, xylol/xylene, or toluene/ toluene to clean the air hose. Exposure over time could cause damage to the hose.

IMPORTANT: Store indoors with the cord wrapped around the handle.

Troubleshooting

Problem	Cause	Solution
A. Restrict air flow or no air flow	<ol style="list-style-type: none"> Air flow adjustment knob on the spray gun is turned off Air filters are clogged 	<ol style="list-style-type: none"> Adjust the air flow adjustment knob Clean or replace the filters
B. Filter warning light is on	<ol style="list-style-type: none"> Air filters are clogged 	<ol style="list-style-type: none"> Clean or replace the filters
C. The turbine has no power	<ol style="list-style-type: none"> No power at the power supply Circuit breaker has been tripped. Worn turbine brushes 	<ol style="list-style-type: none"> Check the power supply Reset the breaker. If problem persists, have turbine inspected at an authorized Titan service center. Have the brushes replaced at an authorized Titan service center
D. Excessive arcing/sparking in the turbine	<ol style="list-style-type: none"> Worn turbine brushes Damaged commutator 	<ol style="list-style-type: none"> Have the brushes replaced at an authorized Titan service center Replace the turbine (contact a Titan service technician)

IMPORTANT:

- The turbine motor can be damaged if not serviced properly. Have the brushes (Kit P/N 0277243) checked for wear by an authorized service center every 400 hours.
- Clean filters regularly. When the filter warning light comes on, it is time to clean the filters. Clogged filters can cause excessive heat and possibly damage the unit.
- For additional troubleshooting information, see the manual that came with your gun.

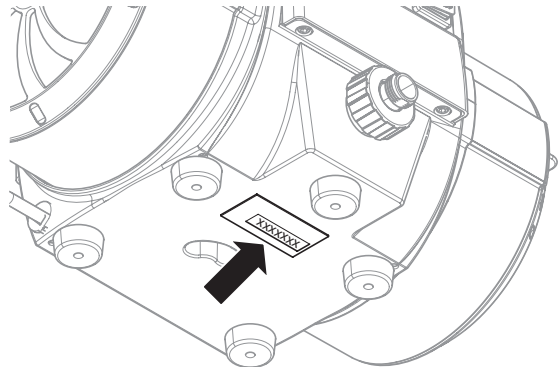
Specifications

Air pressure 10.5 psi
 Power 120VAC, 60 Hz, 14.3 A
 Turbine weight 23.5 lbs
 Main hose length 30 ft
 Whip hose length 5 ft
 Spray gun included Maxum II

Product Registration

Register your product online at www.titantool.com. Proper registration will serve as proof of purchase in the event your original receipt becomes misplaced or lost.

Serial Number Location



Patents

These products are covered by one or more of the following U.S. patents:

D623,660 5,550,336 5,556,255 5,639,222 5,702,131 5,558,492 5,772,711

Titan 30-Day Satisfaction Guarantee

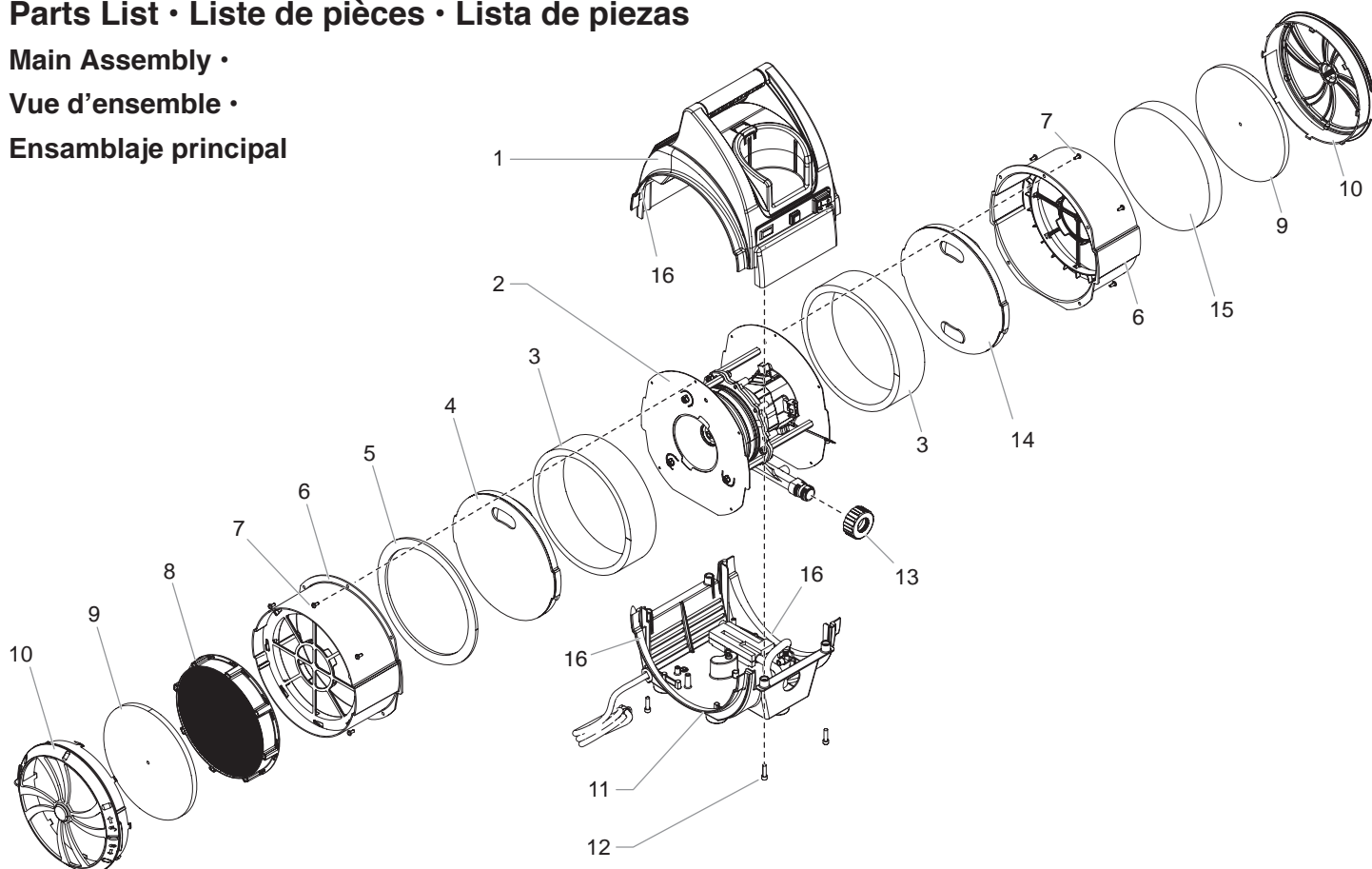
If, within a 30-day period from the date of purchase, you are not totally satisfied with a TITAN unit, you may return it for full credit toward another TITAN product of equal or greater value.

Parts List • Liste de pièces • Lista de piezas

Main Assembly •

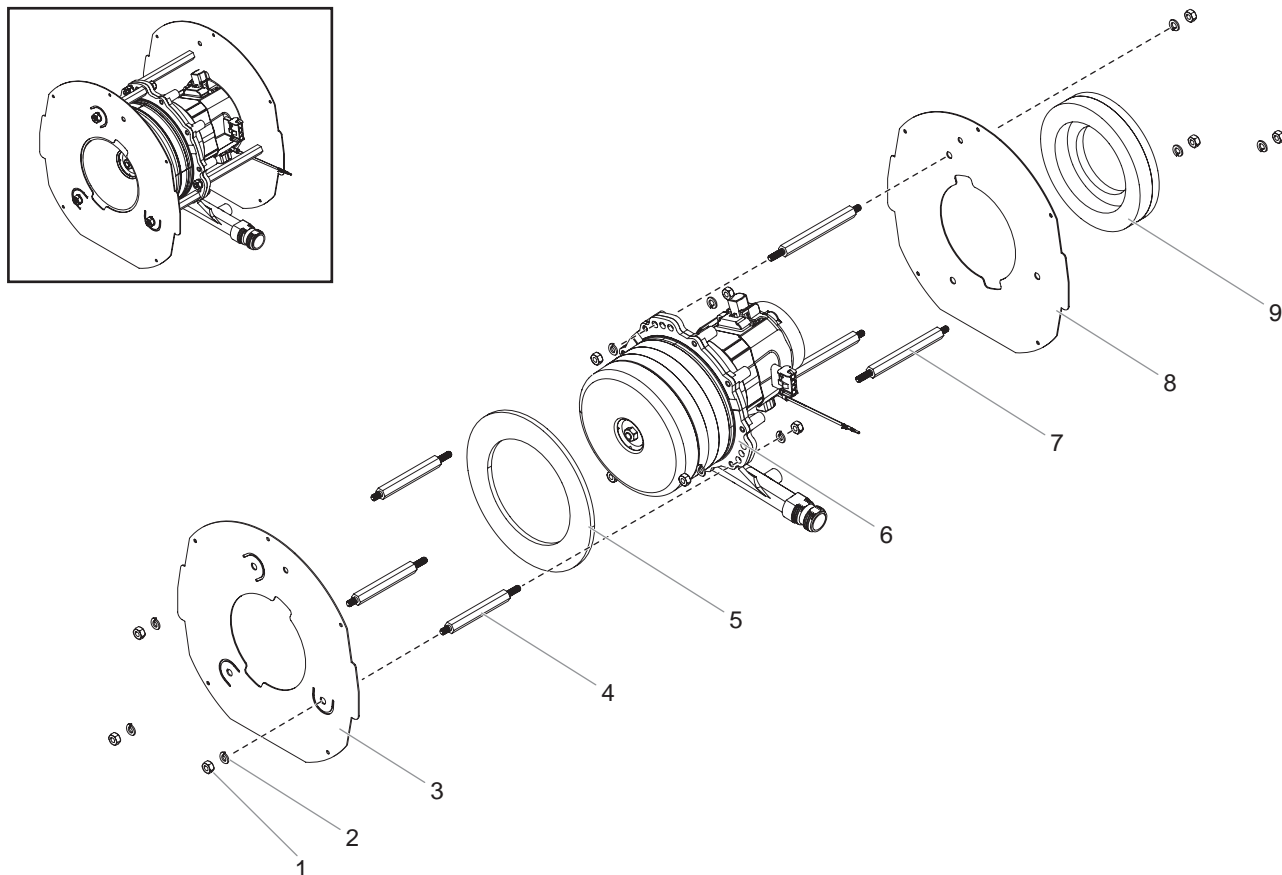
Vue d'ensemble •

Ensamblaje principal



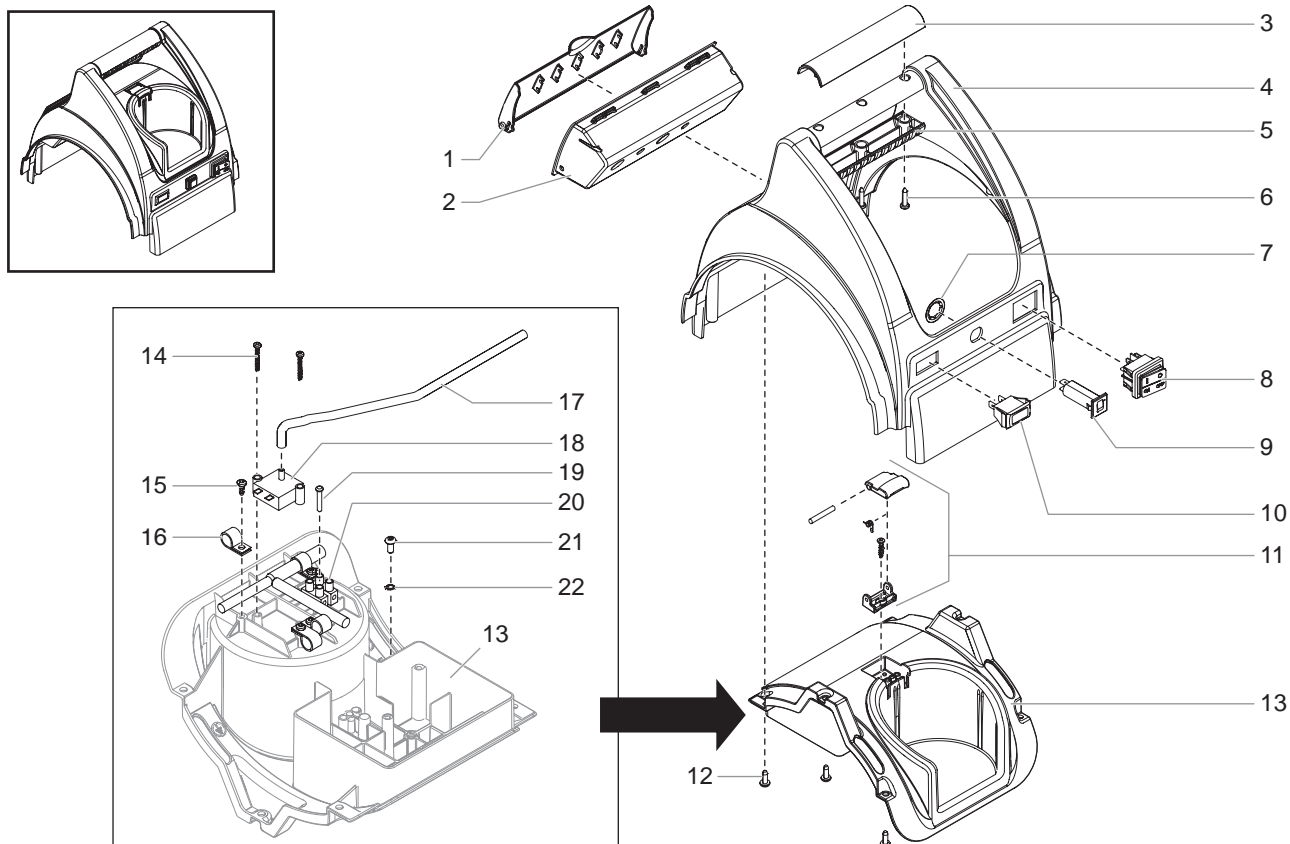
Item Art. Art.	Part No. N° de pièce Pieza No.	English Description	Français Description	Español Descripción	Qty. Qte. Cant.
1		Upper housing assembly (see separate listing)	Ensemble de boîtier supérieur (voir liste séparée)	Ensamblaje de caja superior (consulte la lista separada)	1
2		5 Stage turbine assembly 120V (see separate listing)	Turbine en 5 pièces 120 V (voir liste séparée)	Conjunto de la turbina 5 fases (consulte la lista separada)	1
3	0524927	Sidewall silencer	Silencieux	Silenciador	2
4	0524593A	Silencer assembly	Silencieux	Conjunto de silenciador	1
5	0524524	Sealing foam	Mousse d'étanchéité	Espuma de sellado	1
6	0524948A	Filter can	Carters de filtre	Recipiente del filtro	2
7	0293395	Screw	Vis	Tornillo	10
8	0524523A	Filter	Filtre	Filtro	1
9	0524526A	Pre filter	Préfiltre	Pre filter	2
10	0524949A	Filter cover	Carter du filtre	Cubierta de filtro	2
11		Lower housing assembly (see separate listing)	Ensemble de boîtier inférieur (voir liste séparée)	Ensamblaje de caja fondo (consulte la lista separada)	1
12	858 634	Screw	Vis	Tornillo	4
13	0524596	Exhaust ring	Anneau d'échappement	Anillo de escape	1
14	0524926	Silencer assembly	Silencieux	Conjunto de silenciador	1
15	0524528A	Filter	Filtre	Filtro	1
16	0524594	Foam tape	Bande de mousse	Cinta de espuma	4
	0277337	Air hose (not pictured)	Tuyau pour l'air (pas d'illustration)	Manguera de aire (no se muestra)	1
	0153165	Viscosity cup (not pictured)	Godet de viscosimètre (pas d'illustration)	Cubeta de viscosidad (no se muestra)	1
	0275625	Quick disconnect female (not pictured)	Raccord rapide (pas d'illustration)	Accesorio de desconexión rápida (no se muestra)	1
	0524405A	Air hose whip (not pictured)	Tuyau pour l'air de fouet (pas d'illustration)	Manguera de aire corta (con conexión flexible) (no se muestra)	1
	0524027	Spray gun (not pictured)	Pistolet (pas d'illustration)	Pistola (no se muestra)	1

Turbine Assembly • Ensemble de turbine • Ensamblaje de turbina



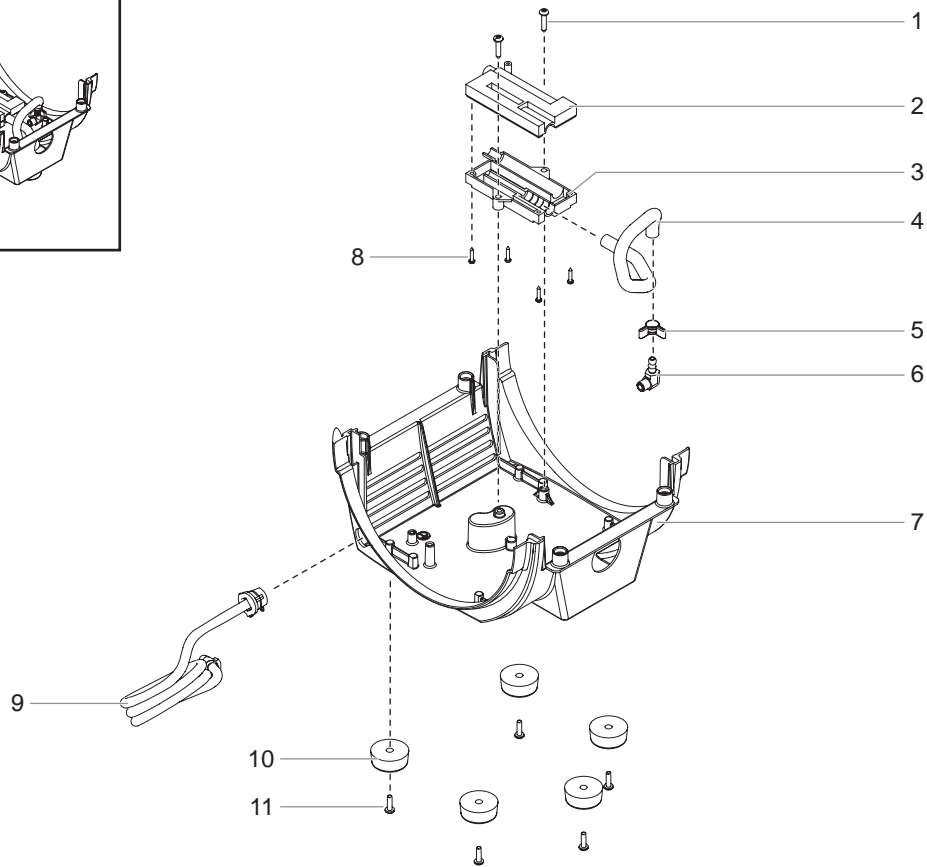
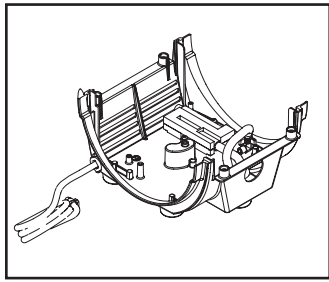
Item Art. Art.	Part No. N° de pièce Pieza No.	English Description	Français Description	Español Descripción	Qty. Qte. Cant.
1	9810108	Nut	Écrou	Tuerca	12
2	9821503	Lock washer	Rondele de fixation	Arandela de asegurar	12
3	0524998	Can cover	Couvercle de carter	Cubierta de recpiente	1
4	0524590	Spacer	Espaceur	Separador	3
5	0277469	Foam disk	Disque de mousse	Disco de espuma	1
6	0524280A	5-Stage turbine assembly, 120V	Turbine en 5 pièces, 120 V	Conjunto de la turbina, 5-fases, 120 V	1
7	0524591	Spacer	Espaceur	Separador	3
8	0524971A	Can cover	Couvercle de carter	Cubierta de recpiente	1
9	0524687	Motor shroud seal	Joint d'étanchéité de carénage de moteur	Junta de la carcasa de motor	1
	0277243	Motor brush kit	Jeu de brosses à charbon	Juego de escobillas de carbón	

Upper housing assembly • Ensemble de boîtier supérieur • Ensamblaje de caja superior



Item Art. Art.	Part No. N° de pièce Pieza No.	English Description	Français Description	Español Descripción	Qty. Qte. Cant.
1	0524537	Too box door	Porte de trousse d'out s	Puerta de a caja de herram entas	1
2	0524538	Too box	Trousse d'out s	Caja de herram entas	1
3	0524557	Top hand e	Po gnée supér eure	Man a super or	1
4	0524531A	Upper hous ng	Boî er supér eur	Caja super or	1
5	0524558	Lower hand e	Po gnée nfér eure	Man a nfer or	1
6	9802266	Screw	V s	Torn o	3
7	0524963	Lock washer	Ronde e de fixat on	Arande a de asegurar	1
8	0524553	Sw tch	Interrupteur	Interruptor	1
9	0524549	C rcu t breaker sw tch k t, 15A	L'équ pement de commutateur de br seur de c rcu t, 15A	E conjunto de nterruptor de rompedor de c rcu to, 15A	1
10	0524547	Warn ng ght assemb y, 120V	Voyant um neux, 120V	Conjunto de a uz de advertenc a, 120V	1
11	0524996	E ectr ca cover assemb y	Couverc e d'assemb age é ectr que	Conjunto de a cub erta e éctr ca	1
12	9803104	Screw	V s	Torn o	6
13	0524536	Cup ho der	Porte-godet	Sostén de depós to	1
14	9805386	Screw	V s	Torn o	2
15	9802265	Screw	V s	Torn o	4
16	0524566	Cab e c amp	Br de de câb e	Abrazadera de cab e	4
17	0277475	Tube	Tube	Tubo	1
18	0277472	A r flow sw tch	Sé ecteur d'aérat on	Interruptor de flujo de a re	1
19	9802905	Screw	V s	Torn o	1
20	0524625	W re assemb y	Ensemb e de câb es	Conjunto de cab es	1
21	9805287	Ground screw	V s de borne à a terre	Torn o de conex ón a t terra	1
22	9822106	Lock washer	Ronde e de fixat on	Arande a de asegurar	1

Lower housing assembly • Ensemble de boîtier inférieur • Ensamblaje de caja fondo

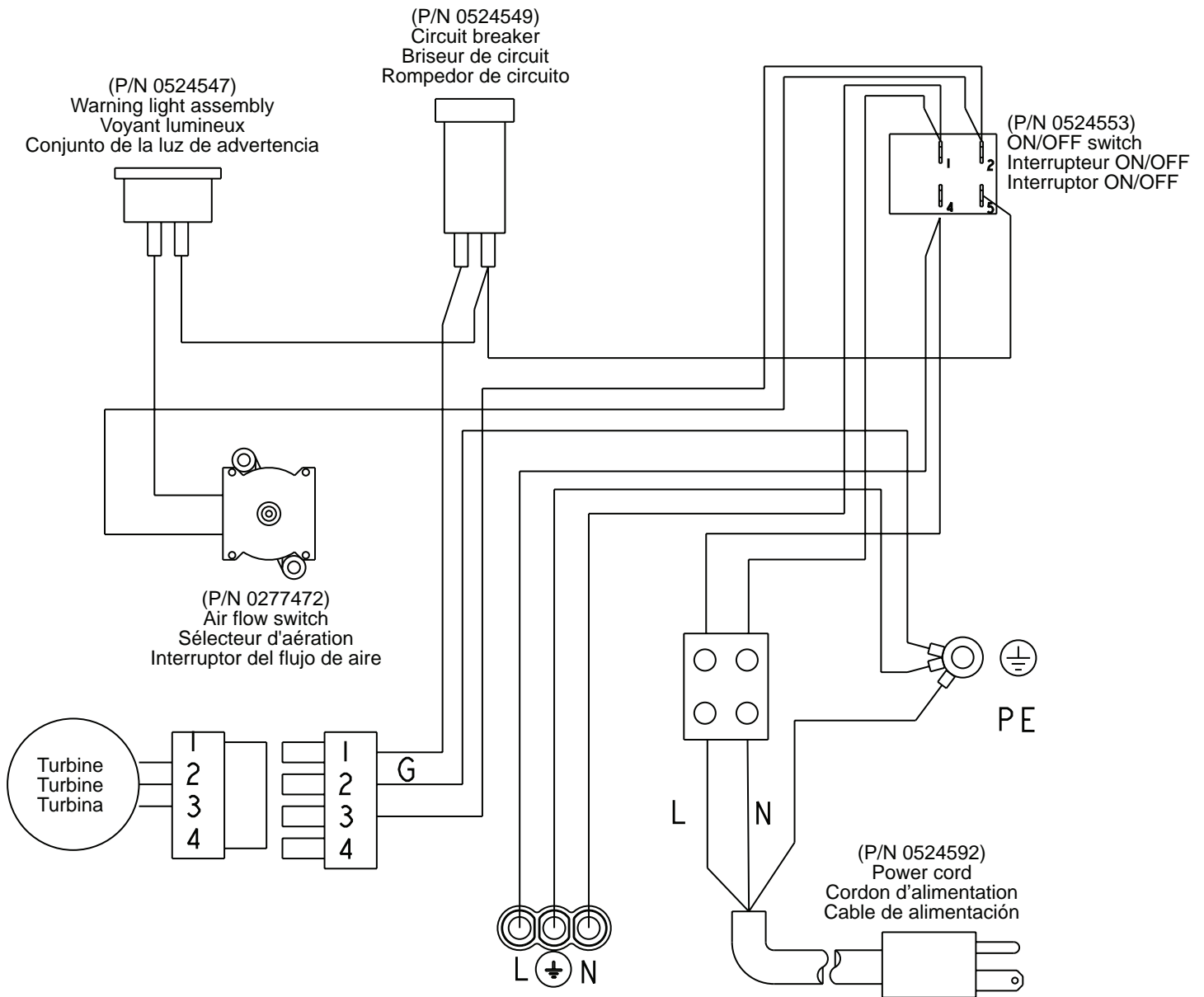


Item Art. Art.	Part No. N° de pièce Pieza No.	English Description	Français Description	Español Descripción	Qty. Qte. Cant.
1	9805387	Screw	V s	Torn o	2
2	0277443	B eeder box cover	Couverc e de boîte de purge	Cub erta de a caja de purgador	1
3	0277442	B eeder box base	Base de boîte de purge	Base de a caja de purgador	1
4	9881911	Exhaust hose	Tuyau d'échappement	Manguera de escape	1
5	0276512	Hose c amp	Agrafe de compress ion	Abrazadera de apretón	1
6	0276511	Exhaust hose fitt ng	Raccord de tuyau d'échappement	Adaptador de a manguera de escape	1
7	0524532A	Lower hous ng	Boît er nfér eur	Caja fondo	1
8	9802213	Screw	V s	Torn o	4
9	0524592	Cord / stra n re ef	Cordon / détenteur	Cordón / desb oqueador	1
10	0090628	Foot pad	Coupe es	Amort guador de a base	5
11	9802222	Screw	V s	Torn o	5

Labels • Étiquettes • Etiquetas

Part No. N° de pièce Pieza No.	English Description	Français Description	Español Descripción
0524791	Front cover abe	Ét quette du couverc e avant	Et queta de a cub erta de antera
0277630	Warn ng abe	Et queta de a cub erta de motor	Et queta de advertenc a

Wiring Diagram • Diagramme électrique • Diagrama eléctrico



NOTE: All electrical work should be performed by an authorized service center.

NOTA : Tous les travaux d'électricité doivent être effectués par le personnel d'un centre de service autorisé.

NOTA: Todo trabajo eléctrico debe realizarlo un centro de servicio autorizado.

Limited Warranty — High Volume/Low Pressure Spray Equipment

What Is Covered By This Warranty:

This product, manufactured by Titan, is warranted against defects in material and workmanship for one (1) year following date of purchase if operated in accordance with Titan's printed recommendations and instructions.

Within the applicable warranty period, Titan will repair or replace, at our option, defective parts without charge if such parts are returned with transportation charges prepaid to the nearest Authorized Service Center or to Titan Tool Corporation, 1770 Fernbrook Lane, Minneapolis, MN 55447. If Titan is unable to repair this product as to conform to this Limited Warranty after a reasonable number of attempts, Titan will provide, at our option, either a replacement for this product or a full refund of the purchase price of this product. These remedies are the sole and exclusive remedies available for breach of express and implied warranties.

What is Not Covered By This Warranty:

1. This Warranty does not cover any defects or damages caused by either:
 - a) the use or installation of repair or replacement parts or accessories not manufactured by Titan, or
 - b) repair performed by anyone other than a Titan Authorized Service Center.
2. The Warranty does not cover equipment and accessories supplied to Titan from an original equipment manufacturer, including but not limited to: hoses, tips, or accessories. Titan will provide the purchaser with copies of the original equipment manufacturer's express warranties provided to Titan along with the name and address of the appropriate manufacturer.
3. This Warranty does not cover damage or defects caused by or related to abrasion, corrosion, abuse, misuse, negligence, accident, normal wear, faulty installation, or tampering in a manner which impairs normal operation.

Limitation of Remedies:

IN NO CASE SHALL TITAN BE LIABLE FOR ANY INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES OR LOSS, INCLUDING TRANSPORTATION COSTS, WHETHER SUCH DAMAGES ARE BASED UPON A BREACH OF EXPRESS OR IMPLIED WARRANTIES, BREACH OF CONTRACT, NEGLIGENCE, STRICT TORT, OR ANY OTHER LEGAL THEORY.

Disclaimer Of Implied Warranties:

THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

No Ability To Transfer:

This warranty is extended to the original purchaser only and is not transferable.

Your Rights Under State Law:

Some states do not allow limitations on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitation and exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



United States Sales & Service

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