



VHP636

VHP AND AHP HOTPLATES

Customer Maintenance Manual

**INSTALLATION / OPERATION MANUAL
HOBART SERVICE PARTS STORE
CATALOG OF REPLACEMENT PARTS**

INSTALLATION & OPERATION MANUAL FOR GAS HOTPLATES

ITW Food Equipment Group



VULCAN

MODELS

VHP212
VHP424
VHP636
VHP848



VHP636

AHP212
AHP424
AHP636
AHP848



AHP636

IMPORTANT FOR YOUR SAFETY

THIS MANUAL HAS BEEN PREPARED FOR PERSONNEL QUALIFIED TO INSTALL GAS EQUIPMENT, WHO SHOULD PERFORM THE INITIAL FIELD START-UP AND ADJUSTMENTS OF THE EQUIPMENT COVERED BY THIS MANUAL.

POST IN A PROMINENT LOCATION THE INSTRUCTIONS TO BE FOLLOWED IN THE EVENT THE SMELL OF GAS IS DETECTED. THIS INFORMATION CAN BE OBTAINED FROM THE LOCAL GAS SUPPLIER.

IMPORTANT

IN THE EVENT A GAS ODOR IS DETECTED, SHUT DOWN UNITS AT MAIN SHUTOFF VALVE AND CONTACT THE LOCAL GAS COMPANY OR GAS SUPPLIER FOR SERVICE.

FOR YOUR SAFETY

DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS OR LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.

WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury, or death. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.

IN THE EVENT OF A POWER FAILURE, DO NOT ATTEMPT TO OPERATE THIS DEVICE.

INSTALLATION, OPERATION AND CARE OF GAS HOTPLATES

GENERAL

Gas Countertop Hotplates are designed for commercial use only and feature fast, efficient gas heat. Each burner is controlled by an adjustable gas valve. Cast grates and burners are easily removed for cleaning when cool.

Model	Number Of Burners	BTU/hr Input Rating	
		Natural Gas	Propane
VHP212/AHP212	2	60,000	55,000
VHP424/AHP424	4	120,000	110,000
VHP636/AHP212	6	180,000	165,000
VHP848/AHP848	8	240,000	220,000

INSTALLATION

UNPACKING

Immediately after unpacking, check for possible shipping damage. If the hotplate is found to be damaged, save the packaging material and contact the carrier within 15 days of delivery.

LOCATION

The installation location must be kept free and clear of combustibles. Do not obstruct the flow of combustion and ventilation air. DO NOT install the hotplate adjacent to fryers.

Sufficient air should be allowed to enter the room to compensate for the amount of air removed by any ventilating system and for combustion of the gas burners. Do not obstruct the air flow into and around the hotplate. Position the hotplate in its final location. Check that there are sufficient clearances to service the hotplate and to make the required gas supply connection(s). Provide 24" clearance at the front for cleaning, maintenance, service and proper operation.

MINIMUM CLEARANCES

	NON-COMBUSTIBLES		COMBUSTIBLES	
	SIDES	BACK	SIDES	BACK
STANDARD	0"	0"	13"	6"
STEP-UP	0"	0"	13"	9"

INSTALLATION CODES AND STANDARDS

The hotplate must be installed in accordance with:

In the United States of America:

1. State and local codes.
2. National Fuel Gas Code, ANSI-Z223.1/NFPA #54 (latest edition). This shall include but not be limited to: NFPA #54 Section 10.3.5.2 for Venting. Copies may be obtained from The American Gas Association Accredited Standards Committee Z223, @ 400 N. Capital St. NW, Washington, DC 20001 or the Secretary Standards Council, NFPA, 1 Batterymarch Park Quincy, MA 02169-7471

NOTE: In the Commonwealth of Massachusetts

All gas appliances vented through a ventilation hood or exhaust system equipped with a damper or with a power means of exhaust shall comply with 248 CMR.

3. NFPA Standard # 96 *Vapor Removal from Cooking Equipment*, latest edition, available from the National Fire Protection Association, Batterymarch Park, Quincy, MA 02269.

In Canada:

1. Local codes.
2. CAN/CSA-B149.1 Natural Gas Installation (latest edition)
3. CAN/CSA-B149.2 Propane Installation Code (latest edition), available from the Canadian Gas Association, 178 Rexdale Blvd., Etobicoke, Ontario, Canada M9W 1R3

CASTER EQUIPPED APPLIANCES

Hotplates mounted on stands with casters must use a flexible connector (not supplied) that complies with the Standard for Connectors for Movable Gas Appliances, ANSI Z21.69 • CSA 6.16 and a quick-disconnect device that complies with the Standard for Quick-Disconnect Devices for use With Gas Fuel, ANSI-Z21.41 • CSA 6.9. In addition, adequate means must be provided to limit movement of the hotplate without depending on the connector and the quick-disconnect device or its associated piping to limit hotplate movement. Attach the restraining device at the rear of the hotplate. If disconnection of the restraint is necessary, turn off the gas supply before disconnection. Reconnect the restraint prior to turning the gas supply on and return the hotplate to its installation position.

If the Hotplate is installed on casters and is moved for any reason, it is recommended that it be re-leveled (see LEVELING).

LEVELING

If the hotplate is equipped with legs or is mounted on the optional stand equipped with legs, turn the feet at the bottom of the legs in or out to level the hotplate in the final installed location. If the hotplate is mounted on the optional stand equipped with casters, position the hotplate on a level floor.

VENTILATION HOOD

The hotplate should be installed under a suitable ventilation hood. For safe operation and proper ventilation, keep the space between the hotplate and vent hood free from any obstructions.

GAS CONNECTIONS

NOTICE Gas supply connections and any pipe joint compound must be resistant to the action of propane gases.

Purge the supply line to clean out any dust, dirt, or any foreign matter before connecting the line to the unit.

Codes require that a gas shut-off valve be installed in the gas line ahead of the appliance. The gas supply line must be at least the equivalent of ¾" iron pipe.

An adequate gas supply is necessary. Undersized or low pressure lines will restrict the volume of gas required for satisfactory performance. A minimum supply pressure of 7" W.C. for natural gas and 11" W.C. for propane gas is recommended. With all units operating simultaneously, the manifold pressure on all units should not show any appreciable drop.

When testing the gas supply piping system, if test pressures exceed ½ psig (3.45 kPa), the appliance and its individual shutoff valve must be disconnected from the gas supply piping system. When test pressures are ½ psig (3.45 kPa) or less, the appliance must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the system.

WARNING Prior to lighting, check all joints in the gas supply line for leaks. Use soap and water solution. Do not use an open flame.

GAS PRESSURE REGULATOR INSTALLATION

Gas regulator pressure is preset at 5" Water Column (W.C.) for natural gas, and 10" W.C. for propane gas. Minor adjustments may be required based on site specific gas pressure.

Install the regulator as close to the hotplate on the gas supply line as possible. Make sure that the arrow on the underside of the regulator is oriented in the direction of gas flow to the hotplate (Fig. 1) and the regulator is positioned with the vent plug and adjustment screw upright (Fig. 2).

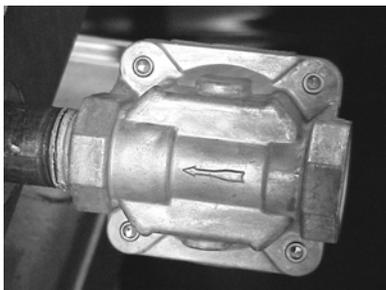


Fig. 1



Fig. 2

The minimum supply pressure (upstream of the regulator) should be 7-9" W.C. for natural gas and 11-12" W.C. for propane gas. At no time should the hotplate be connected to supply pressure greater than ½ psig (3.45 kPa) or 14" W.C.

WARNING Prior to lighting, check all joints in the gas supply line for leaks. Use soap and water solution. Do not use an open flame.

OPERATION

⚠ WARNING The hotplate and its parts are hot. Use care when operating, cleaning or servicing the hotplate.

CONTROLS

There is one pilot for every two burners. The hotplate is equipped with standing, unmonitored pilots. Gas will flow from the pilots as soon as the main gas supply to the unit is turned on. See pilot lighting procedure below.

Each burner is independently controlled by an infinite heat control valve. Once the pilots are lit, turning the control knob to the ON position will light each burner. The burners will be in the full ON position when the control knobs are turned all the way to the left. The burners will be in the full OFF position when the control knobs are turned all the way to the right.

LIGHTING INSTRUCTIONS

1. See Fig 5. Turn main gas shut-off valve and all burner control knobs to the OFF position and wait 5 minutes to allow any accumulated gas to escape.
2. Remove grates.
3. Turn main gas shut-off valve ON. Light the pilots. Adjust the pilot valve screw(See Fig.6) until the pilot flame has a slight yellow tip.
4. To light burners, turn individual burner valves to the ON position.
5. If burners fail to light, turn all valves and the main gas shut-off to the OFF position and contact an authorized service agency.

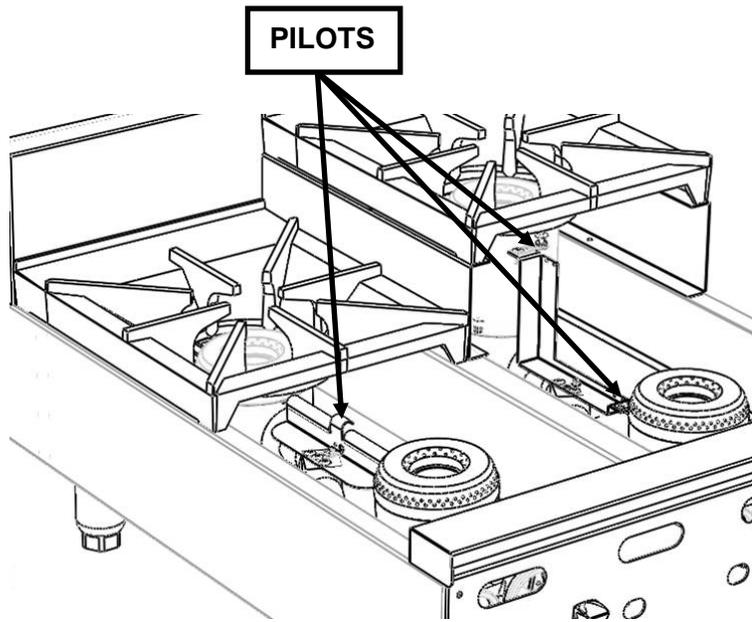
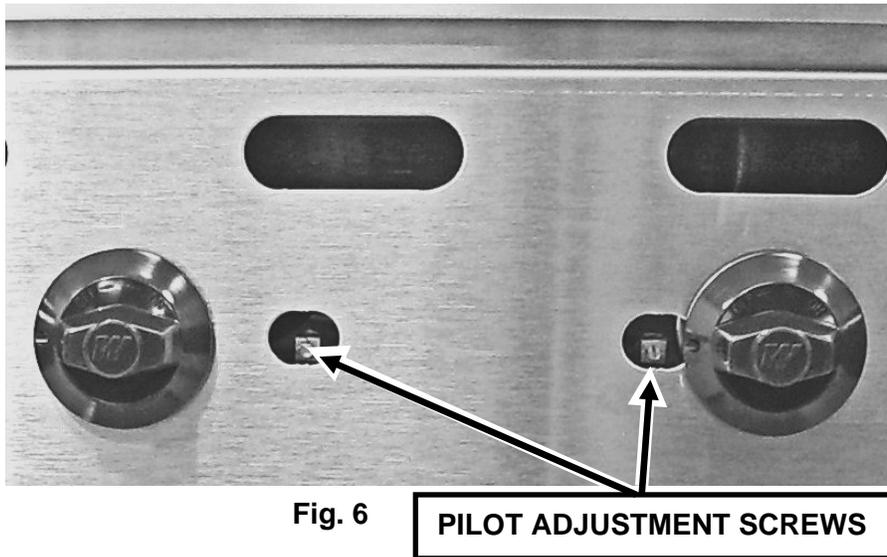


Fig. 5

PILOT ADJUSTMENT

Using a flathead screwdriver, turn the slotted hex-head pilot adjustment screw clockwise to decrease the flame, and counterclockwise to increase the flame. See Fig. 6.



CLEANING

⚠ WARNING The hotplate and its parts are hot. Use care when operating, cleaning or servicing the hotplate.

Grates may be immersed in commercial cleaning compound overnight. In the morning, rinse with hot water to remove any residues of cleaning compound. Thoroughly dry and apply a cooking oil to prevent rusting.

Burner ports and burner rest should be thoroughly cleaned. Venturi must be free from grease and lint. When cleaning, do not insert a pick into the burner port holes – soap and water will normally do the job. Heavy spattering or spill-over may require cleaning with a mild oven cleaner. After cleaning, rinse with clean water and dry with a dry cloth. Be sure to apply a thin coat of cooking oil for protection after cleaning.

Stainless steel surfaces may be cleaned using damp cloth with mild detergent and water solution.

Places where fat, grease, or food can accumulate must be cleaned regularly.

MAINTENANCE

⚠ WARNING The hotplate and its parts are hot. Use care when operating, cleaning or servicing the hotplate.

LUBRICATION

All valves must be checked and lubricated periodically. Check with your service agency for details.

VENT SYSTEM

At least twice a year the exhaust hood (venting system) should be examined and cleaned.

SERVICE

Contact your local Service Agency for any repairs or adjustments needed on this equipment. For a complete listing of Service and Parts depots refer to www.vulcanequipment.com.

When calling for service, the following information should be available from the appliance identification plate: Model Number and Serial Number.

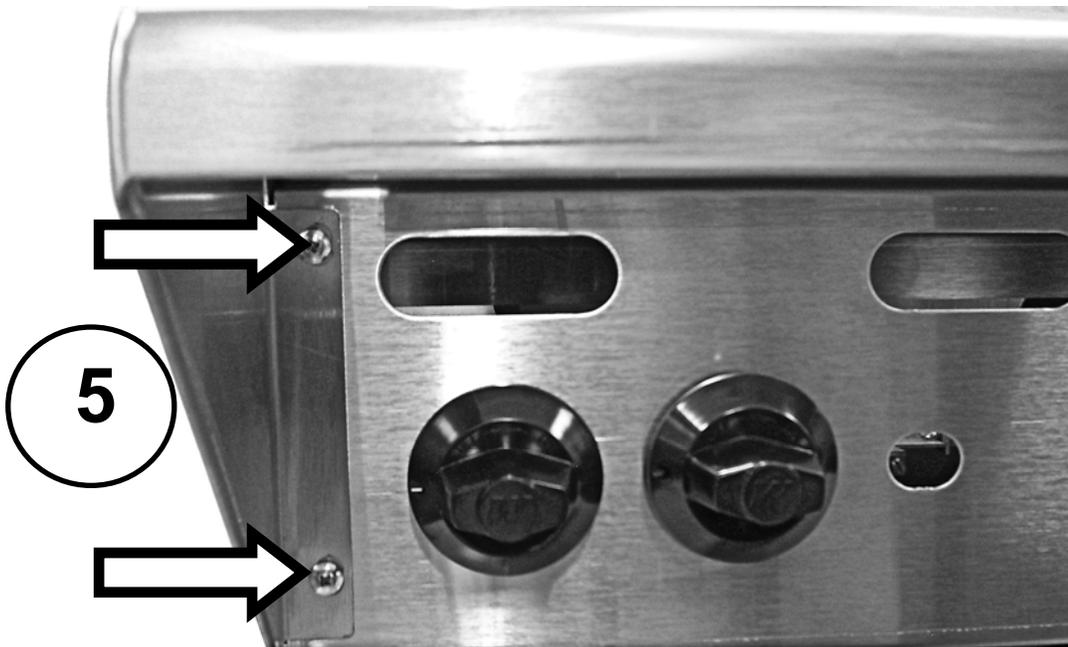
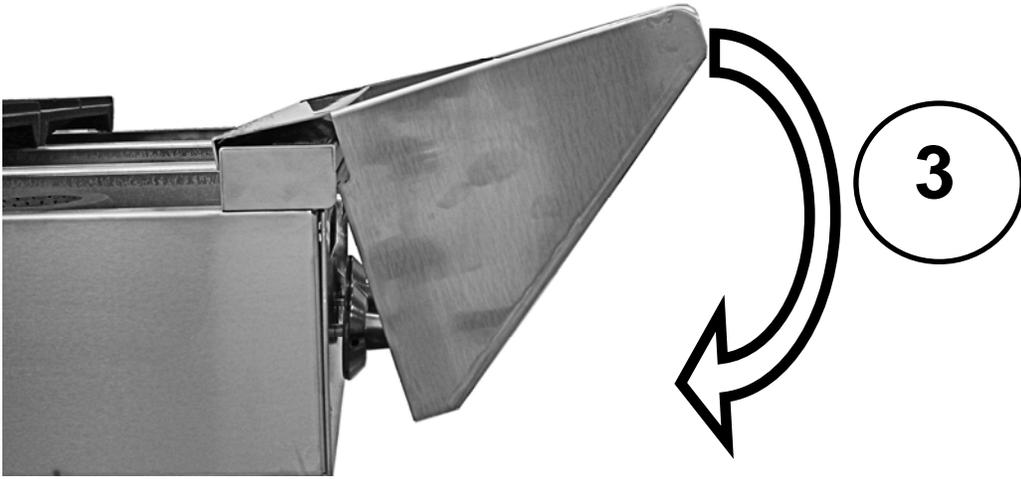
TROUBLESHOOTING

Burner does not come on when the control knob is turned on	A. Problem with gas valve. (Call for service). B. Pilot burner not lit. C. Low gas pressure. (Call for service)
Too much heat	A. Burner valves adjusted too high B. Faulty ventilation C. Overrated gas pressure D. Improperly adjusted burner
Uneven heat side to side	A. Burner valves improperly adjusted B. Appliance is not level side to side C. Improperly adjusted burner
Uneven heat front to back	A. Appliance is not level front to back B. Faulty ventilation C. Improperly adjusted burner
Pilot burner will not stay lit	A. Pilot flame is set too low. Adjust pilot to allow for gas flow. B. Obstruction in pilot orifice C. Low gas pressure. (Call for Service).
Yellow burner flames	A. Open burner shutters until flames are blue
Lifting burner flames	A. Close burner shutters until flames touch burner
Fluctuating gas pressure	A. Check for clogged vent on regulator

ACCESSORY INSTALLATION

⚠ WARNING The hotplate and its parts are hot. Use care when operating, cleaning or servicing the hotplate.





NOTES

ONLINE PARTS CATALOG



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CATALOG OF REPLACEMENT PARTS AHP AND VHP GAS HOTPLATES

ITW Food Equipment Group



VULCAN

MODELS

VHP212
VHP424
VHP636
VHP848



VHP636

AHP212
AHP424
AHP636
AHP848



AHP636

For additional information on Vulcan or to locate an authorized parts and service provider in your area, visit our website at www.vulcanequipment.com

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INTRODUCTION

The AHP and VHP model designation is shared by two design platforms that have the same basic dimensions; however many service parts for the two designs are not interchangeable. The first revision (A) was manufactured prior to January of 2012; the second revision (B) began manufacture in January of 2012.

Revision A models produced before January of 2012 will have one pilot head at each burner on the standard, flat burner units. Revision B models produced beginning in January of 2012 will have one pilot head between every two burners with a flash tube for flame carry over on the standard, flat burner models. Revision A AHP and VHP models manufactured prior to January of 2012 will have a removable bullnose (see item 2 on page 3) and revision B models manufactured January 2012 to present will have a bullnose that is welded to the chassis assembly and cannot be removed. The images on the front cover represent revision B models manufactured January 2012 to present.

January 2012 was the start for revision B but some of the revision A models ran several months past this date including most step-up models.

**REVISION A AHP AND VHP MODELS
EXTERIOR COMPONENTS**

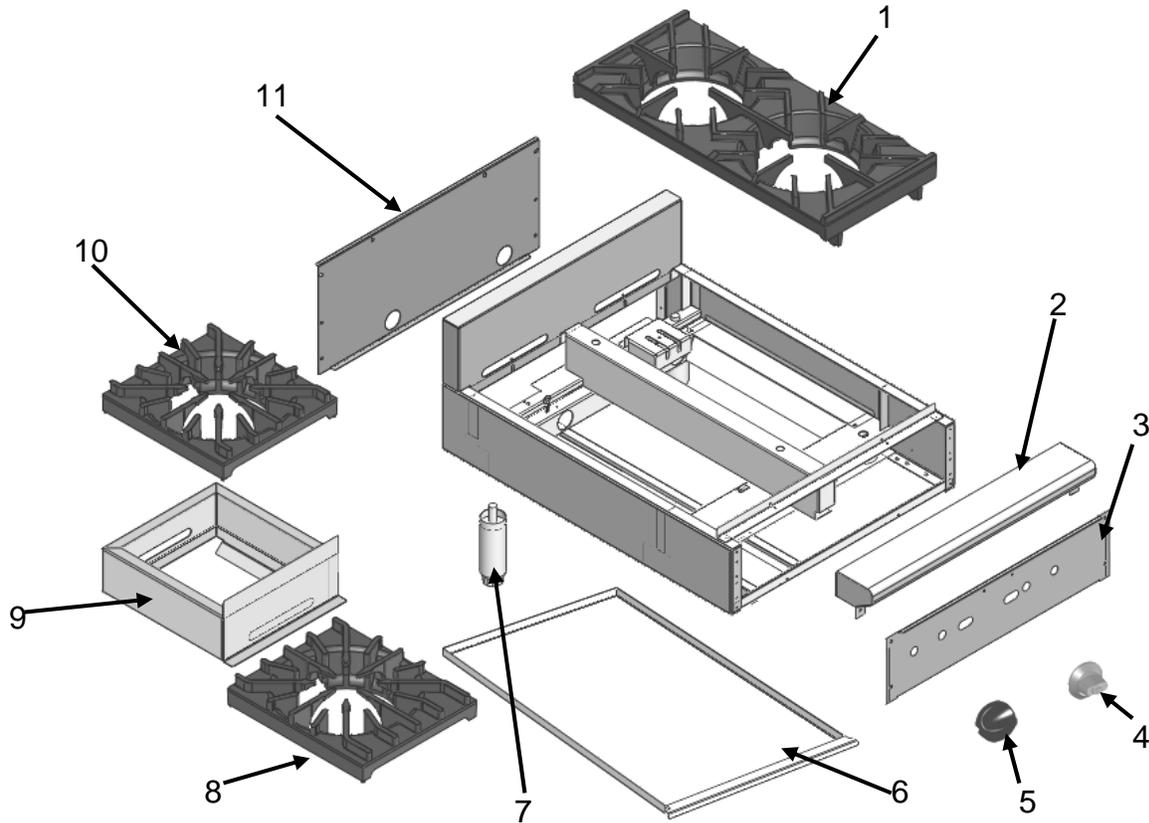


ILLUSTRATION NO.	PART NO.	NAME OF PART	AMOUNT
1.....	00-720567-00000.....	Grate, Double.....	.....AR
2.....	00-498000-00012.....	Bullnose(12").....	.....1
	00-498000-00024.....	Bullnose(24").....	.....1
	00-498000-00036.....	Bullnose(36").....	.....1
	00-498000-00048.....	Bullnose(48").....	.....1
3.....	00-498001-00012.....	Panel, Front(12").....	.....1
	00-498001-00024.....	Panel, Front(24").....	.....1
	00-498001-00036.....	Panel, Front(36").....	.....1
	00-498001-00048.....	Panel, Front(48").....	.....1
4.....	00-719255-00012.....	Knob, Wolf (Red).....	.....AR
5.....	00-428300-00001.....	Knob, Vulcan (Black).....	.....AR
6.....	00-788918-00000.....	Tray, Crumb (212).....	.....1
	00-788919-00000.....	Tray, Crumb (424).....	.....1
	00-788920-00000.....	Tray, Crumb (636).....	.....1
	00-788921-00000.....	Tray, Crumb (848).....	.....1
7.....	00-723532-00000.....	Leg (6"- recessed mount leg design).....	.....4
	00-710503-00000.....	Leg (4"- surface mount leg design).....	.....4
8.....	00-722559-00000.....	Step-Up Grate (Front).....	.....AR
9.....	00-498008-0000A.....	Step-Up Frame.....	.....AR

AHP AND VHP GAS HOTPLATES REPLACEMENT PARTS

ILLUSTRATION NO.	PART NO.	NAME OF PART	AMOUNT
10.....	00-722560-00000.....	Step-Up Grate (Rear).....	AR
11.....	00-788944-00000.....	Back Panel (12").....	1
	00-788824-00000.....	Back Panel (24").....	1
	00-788825-00000.....	Back Panel (36").....	1
	00-788801-00000.....	Back Panel (48").....	1
	00-498009-00012.....	Step-Up Back Panel (12").....	1
	00-498009-00024.....	Step-Up Back Panel (24").....	1
	00-498009-00036.....	Step-Up Back Panel (36").....	1
	00-498009-00048.....	Step-Up Back Panel (48").....	1

REVISION A AHP AND VHP MODELS
GAS TRAIN COMPONENTS

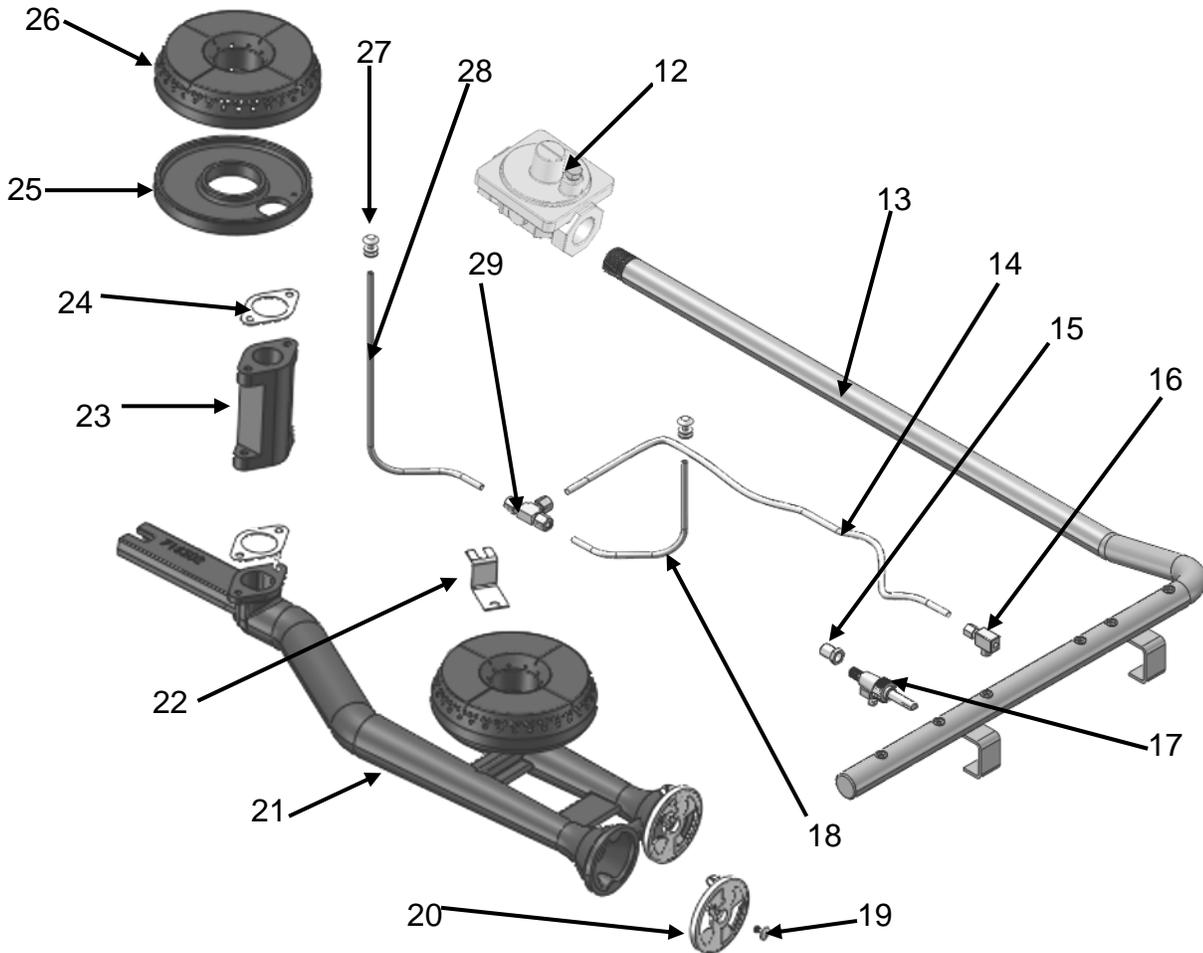


ILLUSTRATION NO.	PART NO.	NAME OF PART	AMOUNT
12.....	00-408279-00021.....	Pressure Regulator (LP Gas).....	1
	00-408279-00025.....	Pressure Regulator (Nat. Gas).....	1
13.....	00-788931-000A1.....	Manifold Weld Assembly (212).....	1
	00-788932-000A1.....	Manifold Weld Assembly (424).....	1
	00-788933-000A1.....	Manifold Weld Assembly (636).....	1
	00-790093-000A1.....	Manifold Weld Assembly (848).....	1

AHP AND VHP GAS HOTPLATES REPLACEMENT PARTS

ILLUSTRATION NO.	PART NO.	NAME OF PART	AMOUNT
14.....	00-723380-00000.....	3/16" x 18" flex tube .....	.....AR
15.....	00-719951-00041.....	Burner Orifice (Nat Gas).....	.....AR
	00-719951-00053.....	Burner Orifice (LP Gas).....	.....AR
16.....	00-719193-00000.....	Valve, Adj Pilot 1/8" x 3/16" CC.....	.....AR
17.....	00-719221-00000.....	Valve, Adj Burner.....	.....AR
18.....	00-498007-00000.....	3/16" Pilot Tube.....	.....AR
19.....	00-730228-00000.....	10-24 x 1/2" Screw.....	.....AR
20.....	00-719329-00000.....	Air Shutter.....	.....AR
21.....	00-762970-0000A.....	Double Burner Assy (20,21,22,24,25&26)	.....AR
22.....	00-762346-00000.....	Pilot Bracket.....	.....AR
23.....	00-497489-00001.....	Step-Up Burner Spacer.....	.....AR
24.....	00-714910-00000.....	Burner Gasket.....	.....AR
25.....	00-715201-00001.....	Burner Base.....	.....AR
26.....	00-715200-00002.....	Burner Head.....	.....AR
27.....	00-719135-00000.....	Pilot Tip.....	.....AR
28.....	00-498007-004UP.....	Step-Up Burner 3/16" Pilot Tube.....	.....AR
29.....	00-719174-00000.....	3/16" X 3/16" X 3/16" CC Tee.....	.....AR

**REVISION A AHP AND VHP MODELS
RECOMMENDED SPARE PARTS**

ILLUSTRATION NO.	PART NO.	NAME OF PART	AMOUNT
4.....	00-719255-00012.....	Knob, Wolf (Red).....	.....2
5.....	00-428300-00001.....	Knob, Vulcan (Black).....	.....2
12.....	00-408279-00021.....	Pressure Regulator (LP Gas).....	.....2
12.....	00-408279-00025.....	Pressure Regulator (Nat. Gas).....	.....2
15.....	00-719951-00041.....	Burner Orifice (Nat Gas).....	.....2
15.....	00-719951-00053.....	Burner Orifice (LP Gas).....	.....2
16.....	00-719193-00000.....	Valve, Adj Pilot 1/8" x 3/16" CC.....	.....2
17.....	00-719221-00000.....	Valve, Adj Burner.....	.....2
27.....	00-719135-00000.....	Pilot Tip.....	.....2

**REVISION B AHP AND VHP MODELS
EXTERIOR COMPONENTS**

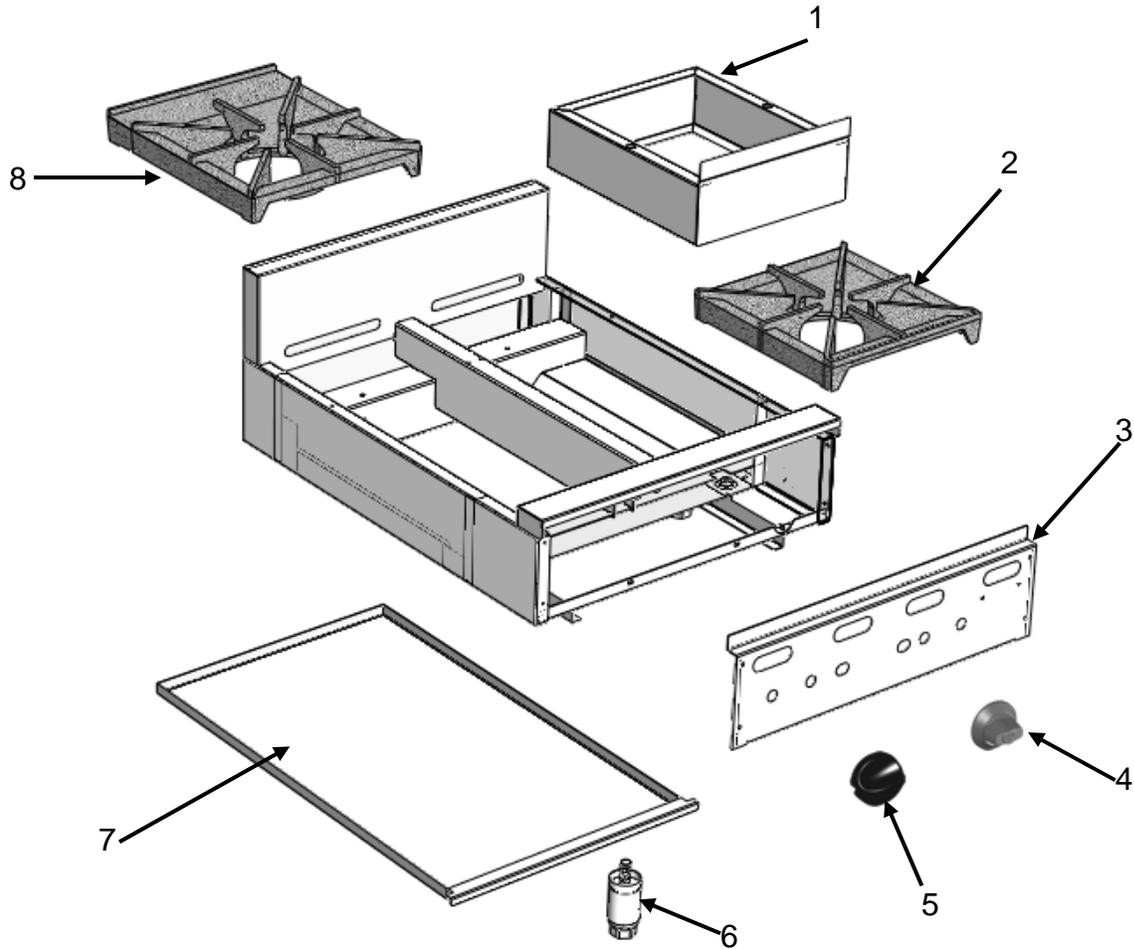


ILLUSTRATION NO.	PART NO.	NAME OF PART	AMOUNT
1.....	00-944227-0000A.....	Step-Up Frame.....	.....AR
2.....	00-925000-00000.....	Front Grate.....	.....AR
3.....	00-944225-00012.....	Panel, Front (212).....	.....1
	00-944225-00024.....	Panel, Front (424).....	.....1
	00-944225-00036.....	Panel, Front (636).....	.....1
	00-944225-00048.....	Panel, Front (848).....	.....1
4.....	00-719255-00012.....	Knob, Wolf (Red).....	.....AR
5.....	00-428300-00001.....	Knob, Vulcan (Black).....	.....AR
6.....	00-710503-00000.....	Leg, 4.....	.....4
7.....	00-944224-0012A.....	Tray, Crumb (212).....	.....1
	00-944224-0024A.....	Tray, Crumb (424).....	.....1
	00-944224-0036A.....	Tray, Crumb (636).....	.....1
	00-944224-0048A.....	Tray, Crumb (848).....	.....1
8.....	00-925001-00000.....	Rear Grate.....	.....AR

**REVISION B AHP AND VHP MODELS
GAS TRAIN COMPONENTS**

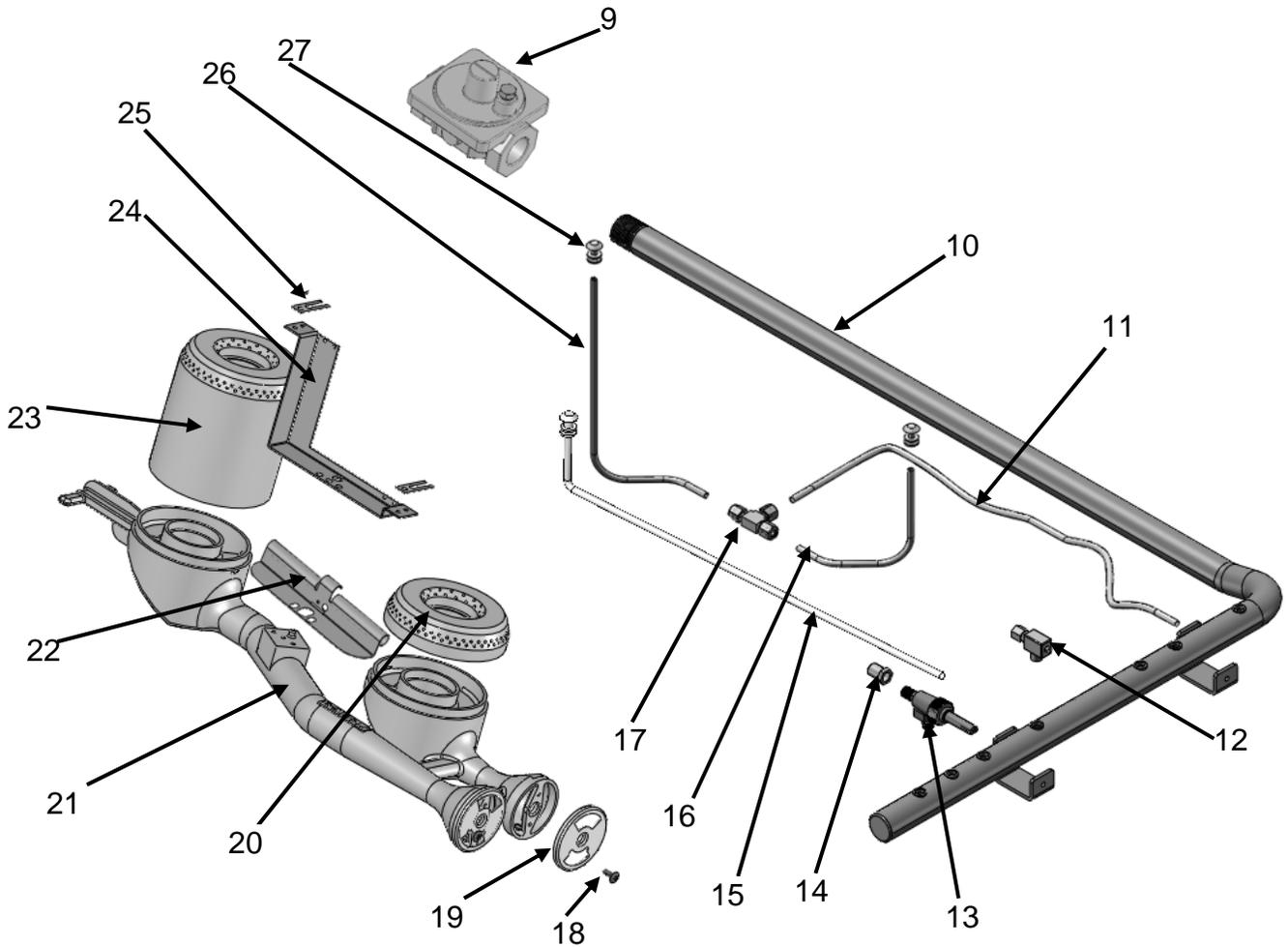


ILLUSTRATION NO.	PART NO.	NAME OF PART	AMOUNT
9.....	00-408279-00021.....	Pressure Regulator (LP Gas).....	.....1
	00-408279-00025.....	Pressure Regulator (Nat. Gas).....	.....1
10.....	00-944223-0012A.....	Manifold Weld Assembly (212).....	.....1
	00-944223-0024A.....	Manifold Weld Assembly (424).....	.....1
	00-944223-0036A.....	Manifold Weld Assembly (636).....	.....1
	00-944223-0048A.....	Manifold Weld Assembly (848).....	.....1
11.....	00-723380-00000.....	3/16" x 18" flex tube (Step-Up Units).....	.....AR
12.....	00-719193-00000.....	Valve, Adj Pilot 1/8" x 3/16" CC.....	.....AR
13.....	00-719221-00000.....	Valve, Adj Burner.....	.....AR
14.....	00-719951-00041.....	Burner Orifice (Nat Gas).....	.....AR
	00-719951-00052.....	Burner Orifice (LP Gas).....	.....AR
15.....	00-922124-0000A.....	3/16" Pilot Tube Assy (Standard Units)....	.....AR
16.....	00-498007-00000.....	3/16" Pilot tube (Front On Step-Up Units)..	.....AR
17.....	00-719174-00000.....	3/16" X 3/16" X 3/16" CC Tee.....	.....AR
18.....	00-730228-00000.....	10-24 x 1/2" Screw.....	.....AR
19.....	00-719329-00000.....	Air Shutter.....	.....AR

AHP AND VHP GAS HOTPLATES REPLACEMENT PARTS

ILLUSTRATION NO.	PART NO.	NAME OF PART	AMOUNT
20.....	00-417608-00001.....	Burner Head.....	.....AR
21.....	00-763209-000A1.....	Double Burner Assy (19,20,21,22).....	.....AR
22.....	00-787275-00001.....	Flash Tube (Standard Units).....	.....AR
23.....	00-921330-00000.....	Step-Up Burner Head.....	.....AR
24.....	00-921382-00000.....	Step-Up Pilot Bracket.....	.....AR
25.....	00-413302-00001.....	Pilot Mounting Clip.....	.....AR
26.....	00-498007-004UP.....	Step-Up Burner 3/16" Pilot Tube.....	.....AR
27.....	00-719135-00000.....	Pilot Tip.....	.....AR

**REVISION B AHP AND VHP MODELS
RECOMMENDED SPARE PARTS**

ILLUSTRATION NO.	PART NO.	NAME OF PART	AMOUNT
4.....	00-719255-00012.....	Knob, Wolf (Red).....	.....2
5.....	00-428300-00001.....	Knob, Vulcan (Black).....	.....2
9.....	00-408279-00021.....	Pressure Regulator (LP Gas).....	.....2
9.....	00-408279-00025.....	Pressure Regulator (Nat. Gas).....	.....2
14.....	00-719951-00041.....	Burner Orifice (Nat Gas).....	.....2
14.....	00-719951-00052.....	Burner Orifice (LP Gas).....	.....2
12.....	00-719193-00000.....	Valve, Adj Pilot 1/8" x 3/16" CC.....	.....2
13.....	00-719221-00000.....	Valve, Adj Burner.....	.....2
27.....	00-719135-00000.....	Pilot Tip.....	.....2