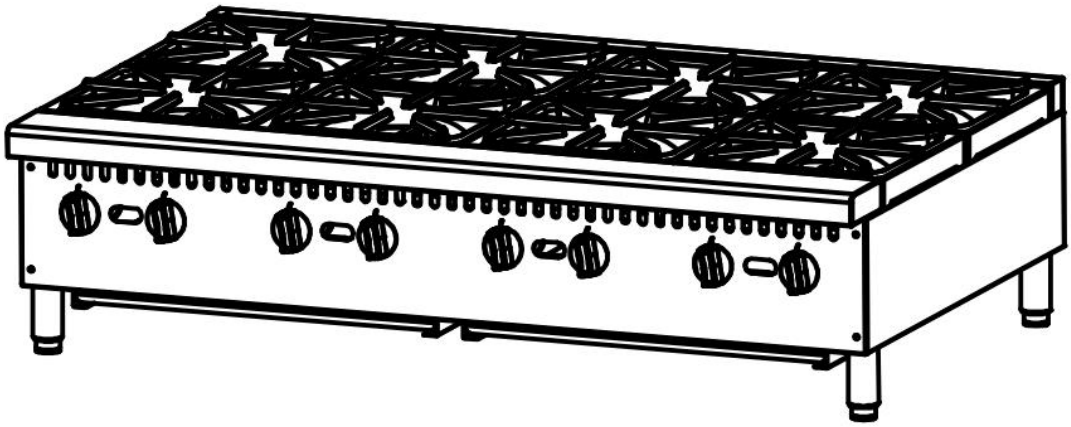
INSTALLATION & OPERATION MANUAL

COUNTERTOP GAS HOT PLATE



Manually Controlled Models:

HSD-BG-2 HSD-BG-4 HSD-BG-6 HSD-BG-8

-IMPORTANT SAFETY NOTICE-

This manual contains important safety instructions which must be strictly followed when using this equipment. Please retain this manual for future reference.

FOR YOUR SAFETY

Do not store or use gasoline or other flammable vapors or liquids in vicinity of this or any other appliances. THESE U NITS ARE SUITABLE FOR INSTALLATION ON NON-COMBUSTIBLE FLOOR ONLY.

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

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Attention Owners and Operators

The equipment is designed to provide safe and productive processing, cooking and warming of food products as long as the equipment is used in accordance with the instructions in this manual and is properly maintained. Unless the operator is adequately trained and supervised there is a possibility of serious injury. Owners of this equipment bear the responsibility to make certain that this equipment is used properly and safely, and to strictly follow all of the instructions contained in this manual and the requirements of local, state of federal law.

Owners should not permit anyone to touch this equipment unless they are over 18 years old, are adequately trained and supervised, and have read and understood this manual. Do not attempt to repair or convert any gas types one your own. Repairs and conversions are to be made solely by an authorized local servicer.

Owners should also ensure that no customers, visitors or other unauthorized personnel come in contact with this equipment. Please remember that suppliers cannot anticipate every circumstance of the environment in which its equipment will be operated. It is the responsibility of the owner and the operator to remain alert to any hazards posed by the function of this equipment. If you are ever uncertain about a particular task or the proper method of operating this equipment, ask your supervisor.

This manual contains a number of precautions to follow to help promote safe use of this equipment.

Throughout the manual you will see additional warnings to help alert you to potential hazards.

Warning affection your personal safety indicated by:

WARNING OR 

Waring affect or possible damage to the equipment and property are indicated by: CAUTION

If any warning labels or this manual are misplaced, damaged, or illegible, or if you require additional copies, please contact your nearest representative or vendor directly for these items at no charge.

Please remember that this manual or the warning labels do not replace the need to be alert, to properly train and supervise operators, and to use sense when using this equipment.

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Unpacking & Installation

WARNING

TO AVOID SERIOUS PERSONAL INJURY AND PROPERTY DAMAGE:

- ALWAYS install equipment in a work area with adequate light and space.
- ONLY operate on a solid, level, non-skid surface that is nonflammable and away from sinks and water hazards
- NEVER bypass, alter or modify this equipment in any way from its original condition. Doing so may create hazards and will void warranty.

GAS and GAS PRESSURE

CAUTION

This unit is factory supplied in Nature Gas. This unit can be converted to L. P gas by a licensed and certified gas technician. Documentation may be necessary for warranty issues. Failure to comply with this instruction will void warranty.

See the included L.P. conversion kit for gas conversion parts and instructions.

WARNING

Unit installation must conform with the National Fuel Gas Code, ANSI Z223.1/NFPA 54, or the Natural Gas and Propane Installation Code, CSA B149.1 as applicable and in accordance with local codes.The appliance is not used for elevation over 2000 ft(610 m).

⚠ WARNING

The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psi (3.5 kPa).
These models are designed, built, and sold for commercial use only.
Instructions must be posted in a prominent location. ALL safety precautions must be taken in the event the user smells gas. Safety information can be obtained from your local gas supplier.

UNPACKING

Unpack the hot plate immediately after receipt. Remove the gas hot plate from the crate; remove all packaging on and surrounding the unit and be certain to remove all protective plastics and residues from all surfaces. Make sure that all parts provided including the L.P. gas conversion kit are located.

If the machine is found to be damaged, save the packaging material and contact the carrier within fifteen (15) days of delivery. Immediately contact your local dealer of the equipment. You have no recourse for damage after fifteen (15) days.

Unpacking & Installation

INSTALLATION

1. Read this manual thoroughly before installation and operation. DO NOT proceed with installation and operation if you have any questions or do not understand anything in this manual. Contact your local representative.
2. Select a location for the hot plate that has a level, solid, non-skid surface that is nonflammable and away from water hazards or sinks, and is in a well-lighted work area away from children and visitors.
3. Equipment must be installed under proper ventilation as required per local code. NOTICE: Local codes regarding installation and ventilation vary greatly by area. The National File Protection Association, Inc. states in its NFPA 96 latest edition (see NFPA page at the beginning of this manual) that local codes are “authority having jurisdiction” when it comes to requirements for installation of equipment. Therefore, installation should comply with all local codes.
4. This appliance is equipped for Natural gas, for conversion to LP gas please see another conversion kits instruction.
5. Screw legs into the permanently fastened nuts on the four corners of the unit and tighten by hand. Legs must be installed to adequately provide proper ventilation to the unit.
6. Level unit by adjusting the four feet and tighten securely. The adjustable feet have an adjustment of one inch for lineup with other countertop lines. Do not slide the unit with legs mounted, lift if necessary to move the unit.
7. The supplied gas pressure regulator is factory set to 4” Natural gas W.C. or 10” for L.P.
8. THESE UNIT SARE SUITABLE FOR INSTALLATION ON NO-COMBUSTIBLE FLOORS ONLY.
   Combustible clearances: 8”side(203 mm) 8” rear(203 mm)
   Noncombustible clearances: 0”side(0 mm) 0” rear(0 mm)
9. Do not obstruct the flow of combustion and ventilation air, under the unit by the legs or behind the unit by the flue. Do not place objects between the bottom of the unit and the counter top.
10. There must be adequate clearance for removal of the front panel. All major parts except the burners are removable thru the front if the gas line is disconnected.
11. It may be necessary to adjust the balance of gas volume and air supply to each burner. This must be done by an authorized service technician.
12. Pipe threading compounds must be resistant to the action of liquefied petroleum gases.
13. Adequate clearance for air openings into the combustion chamber.

⚠ WARNING DO NOT use an open flame to check for leaks. Check all gas piping for leaks with a soap and water solution before operating the unit.

COMMISSIONING:

Commissioning of your new hot plate is of the utmost importance. Commissioning is

the thorough and methodical testing of the equipment, sub systems, and systems to ensure that the final product functions properly and safely at the work site. By identifying any potential problems (i.e.: equipment location, ventilation, local fire/electrical codes, installation, operator training and certification) prior to equipment being placed into service, costly outages and potential damages may be avoided.

Warnings and Safeguards for Operation

⚠ WARNING

TO AVOID SERIOUS PERSONAL INJURY AND PROPERTY DAMAGE

⚠ WARNING

For your safety, do not store or use gasoline or other flammable vapors or liquids in the vicinity of this of any other appliances. Keep the area free and clear of combustibility.

⚠ 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.

⚠ WARNING

Instructions must be posted in a prominent location. All safety precautions must be taken in the event the user smells gas. If you smell gas, immediately shut off the main gas valve, extinguish all heat and flames, and call 911. Safety information can be obtained from your local gas supplier.

IMPORTANT SAFEGUARDS & SAFETY INSTRUCTIONS

CAUTION

when using gas cooking equipment, basic safety precautions should always be followed, including the following:

The hot plate burners, cooking grates and outside surfaces may become HOT after use. Use caution when touching the unit.

- Never directly touch the burners of cooking grates while the hot plate is on.
- Always turn off the unit when not in use, servicing of adjusting any parts or attachments, and before cleaning.
- Do not operate any equipment with a damaged or leaking gas line, ignitor of valves of or if the unit is dropped or damaged in any manner. Call for service
- The use of attachments not recommended or sold by the manufacturer may cause fire, injury of even death.
- Do not use outdoors.
- Do not use this equipment for any use other than the use intended by the manufacturer.
- Never use the equipment for any use a heating source

- The hot plate does not contain any user-serviceable parts. Dealers of recommended qualified technicians should carry out repairs. Do not remove any components or service panels on this product.
- Never bypass, alter, modify or attach any unauthorized parts to this equipment. Doing so may create hazards and will void warranty
- Supplier takes every care to ensure that all products are safe. Steal cutting procedures used to however, we insist the operator take care when in contact with this piece of equipment.
- Always keep hands, hair and clothing away from the heating source.
- Allow the hot plate to cool down after use and before dismantling for cleaning; the unit will be too hot handle immediately after use.

Warnings and Safeguards for Operation

OPERATING THE HOT PLATE-PILOT LIGHTING INSTRUCTIONS

Before operating the hot plate, it should be checked to see that it is sitting level. Adjust the feet to level the hot plate. Be sure the catch tray has been properly placed. The pilot lights on the appliance have been set at the factory. Each burner has a pilot light.

1. Make sure all knobs are in the "OFF" position.
2. The main gas valve should be "CLOSED/OFF" for five minutes prior to lighting pilots to clear any existing gas. (Main gas valve is supplied by others.)
3. Turn "ON/OPEN" the main gas valve to the unit.
4. Light and hold an ignition source (match) at the pilots. When the flame is established, remove the ignition source. Repeat this step for each burner as each burner has its own individual pilot. The pilot can be reached through the holes in the front of the unit.
5. Adjust the pilot valve, make sure the pilot flame at 1/2-inch height.
6. Turn each burner knob "ON". If the burners do not ignite promptly, turn the Knobs "OFF", From the opening in the front panel, use a screwdriver and turn the pilot valve screw counterclockwise which will increase the flame height and repeat step4.
   The pilot flame should be as small as possible but large enough to guarantee reliable ignition of the burners when the knobs are turned to "ON". The holes located in the front panel are pilot valve adjustments. Use a screwdriver to turn the valve to adjust the flame height to your desired level.

IGNITING THE BURNER

To ignite the burner, turn knob to the "ON" position. Then back off to the desired flame level. The range of adjustment is virtually infinite between "ON" and" OFF"
The space between the legs at the bottom admits combustion air. DO NOT BLOCK THIS SPACE.

All burners are lit from constantly burning pilots. Turning the valve to the desired flame height is all that is required to put the unit in service.
Do not permit fans to blow directly at the unit. Wherever possible, avoid open windows next to the unit's sides or back. Avoid wall type fans which create air cross-currents within a room.
It is also necessary that sufficient air should be allowed to enter the room to compensate for the amount of air, removed by any ventilating system. Otherwise, a subnormal atmospheric pressure will occur, affecting operation and causing undesirable working conditions.
A properly designed and installed hood will act as the heart of the ventilating system for the room of area in which the unit is installed, and will leave the unit independent of changing draft conditions.

NOTE: it may be necessary to adjust the balance of gas, volume and air supply to each burner. This must be done by an authorized technician.

SHUT DOWN THE BURNER

To turn "OFF" the appliance completely, turn the gas control knob completely clockwise to "O" position, the pilot burner will extinguish.

Cleaning Instructions

CAUTION

DO NOT use any abrasive or flammable cleaning fluids;
DO NOT hose down, immerse or pressure wash any part of the hot plate, excluding the catch tray.
NEVER use a scrubber pad, steel wool or abrasive material, or cleaners containing chlorine, iodine and ammonia or bromine chemicals as these will deteriorate the stainless steel and shorten the life of the unit.



IF CLEANING THE BURNER OF THE HOT PLATE, THE MAIN GAS VALVE MUST BE SWITCHED TO THE CLOSED POSITION. AFTER CLEANING, THE GAS LINE CAN BE SWITCHED BACK TO THE OPEN POSITION. PLEASE FOLLOW THE LIGHTING INSTRUCTIONS IN THIS MANUAL TO RELIGHT THE HOT PLATE'S PILOT LIGHTS.

RECOMMENDED CLEANING

It takes very little time and effort to keep the hot plate attractive and performing at the top efficiency. Please follow the cleaning steps below.

PART	REQUIRED ACTION	FREQUENCY
Grate	Wash with soap and water	Daily
Body	Use a clean cloth and a non-abrasive cleaner to clean the stainless-steel body of the hot plate. Wipe the polished areas with a soft cloth	Daily
Controls	Unit should be turned off when not in use. It is recommended that the unit be disconnected from the gas supply by closing the main gas valve. Use a clean cloth to	Daily

	wipe any down controls and/or knobs	
Catch Tray	Once the unit has cooled, remove the catch tray and discard the wastes, debris and crumbs. CAUTION: if the catch tray is permitted to fill too high, debris is likely to accumulate under the unit. The catch tray/drawer is removed by pulling forward. USE CAUTION WHEN REMOVING!	Per use or at least Daily
Burner Air shutter openings	Main burner ports must be kept clean, Close the gas valve to the unit shutting of the gas and extinguishing the pilot light. Clean in place with brush or clean gas ports or the burners may be removed and washed in soapy water for 15-20 minutes	As needed
Regulator	Make sure the vent opening is open and not blocked in any way. Failure to do so will cause variations in pressure. Your unit will not function as well and it could shorten the life of the product	Monthly

Troubleshooting

ISSUE	CAUSE	SOLUTION
Hot plate not lighting	Main gas line is closed	Open valve
	Pilot light is not lit	Ignite pilot light
	Cause unknown	Call for service
Flame is too high or too low	Adjustment knob is turned up or down	Adjust flame with control knob
Pilot light not staying lit	Flame is too low	Adjust pilot light flame height
	Pilot tube clogged	Replace pilot tube. Call for service
Strong smell of gas in cooking area	Main gas line leak	Turn off the main gas valve. DO NOT LIGHT FLAME, ignite anything, or turn/switch on anything electrical, Call fire department if needed and call for service
Cooking surface is heating up slowly	Carton build up	Ensure that the burners are kept clean and free from carbon build up/debris
Gas type of Unit needs to be converted		Contact an authorized servicer. Do not attempt conversion on your own

IF problems persist and the assigned solution does not remedy the issue, please call the service department or your local service company.

Conversion Kit Instructions for the Gas Countertop Hot Plate

IMPORTANT SAFETY NOTICE

These conversion instructions are for conversion of the Hot Plate. The instructions provided in this kit are for the conversion of Natural Gas to LP gas and refer to the conversion of the unit and kit provided. And properly convert this unit, can result in serious injury, property damage or death and will void warranty.

WARNING

This conversion kit shall be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, an explosion or production of carbon monoxide may result causing property damage, personal injury or loss of life. The qualified service agency is responsible for the proper installation of this kit. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions supplied with the kit."

⚠ WARNING

Do not attempt gas conversion by yourself. Gas conversion of your unit is to be made by a certified/licensed technician.

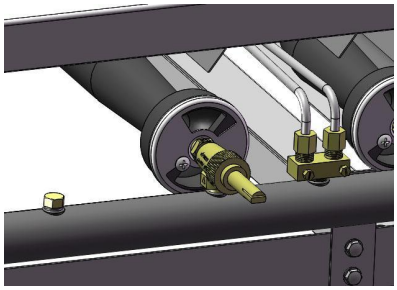
CONVERSION

Instructions are for conversion from Natural Gas to Propane (L.P.) on all models. The conversion should be one before connecting the unit to the gas supply. Units are shipped from the factory equipped for use on natural gas.
Parts necessary for L.P.(liquid propane) are provided with the unit Turn off the main gas supply before doing any maintenance.

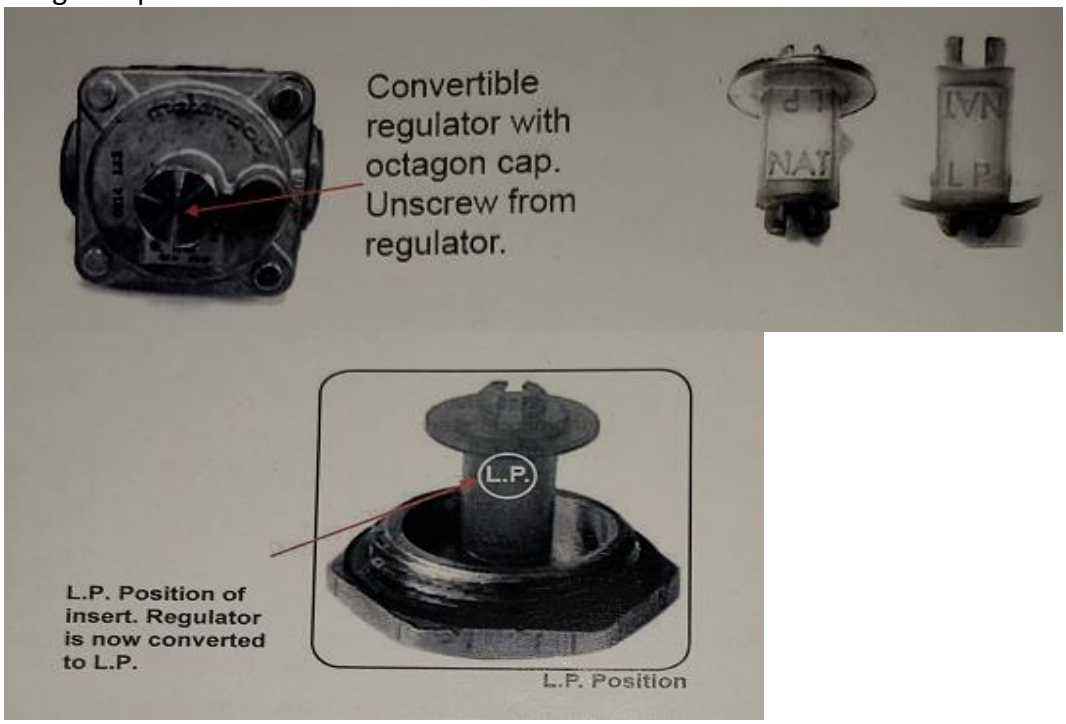
1. Remove the knobs and front panel



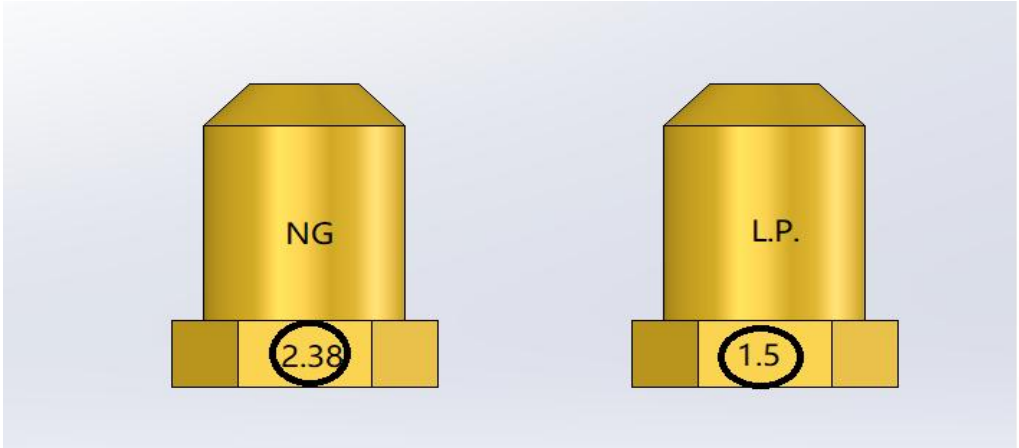
2. Unscrew bolts and pilot valve, then remove manifold



3. Replace the orifice fittings into the valve
   Note: Unit Number on side of orifice fittings
4. Replace the front panel and knobs
5. Before installing the included convertible regulator, unscrew the octagon cap. You can read (NAT) on the plastic insert attached to the head of the cap; flip it over and snap back in place.
   Pictured is the plastic insert. Pull off insert from the octagon cap head and reverse the plastic insert position so that the L.P. position is attached to the octagon cap head.



6. Continue with installation



Limited Warranty

We warrants to the original purchaser of new equipment that said equipment, when installed in accordance with our instructions within North America and subjected to normal use, is free from defects in material or workmanship for a period of 1 year. The labor warranty is one year from original installation or 18 months from actual factory shipment date whichever date occurs first. Warranty includes onsite service calls within 60 miles of an authorized service company. End user is responsible for all extra travel and mileage at prevailing rates

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESSED OR IMPLIED EXPRESSLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR EXPRESSED OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

OUR OBLIGATION AND LIABILITY UNDER THIS WARRANTY IS EXPRESSLY LIMITED TO REPAIRING AND REPLACING EQUIPMENT WHICH PROVES TO BE DEFECTIVE IN MATERIAL OR WORKMANSHIP WITHIN THE APPLICABLE WARRANTY PERIOD. All repairs pursuant to this Warranty will be performed by an Authorized Designated Service Location during normal working hours. This warranty does not cover services performed at overtime or premium labor rates. End user is responsible for the difference between normal service rates and premium service rates. IN NO EVENT SHALL WE BELIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES TO BUYER OR ANY THIRD PARTY INCLUDING, WITHOUT LIMITATION, LOSS OF PROPERTY, PERSONAL INJURY, LOSS OF BUSINESS OR PROFITS OR OTHER ECONOMIC LOSSES, OR STATUTORY OR EXEMPLARY DAMAGES WHETHER IN NEGLIGENCE, WARRANTY, STRICT LIABILITY, OR OTHERWISE.

This warranty is given only to the first purchaser from a retail dealer. No warranty is given to subsequent transferees

Warranty does not cover product failures caused by: failure to maintain, neglect, abuse, damage due to excess water, fire, normal wear, improper set up and use. Periodic maintenance is not covered This warranty is not in force until such time as a properly completed and signed installation/warranty registration or an online registration form has been received by us within 30 days from the date of installation.
Proof of purchase is required to extend warranty more than 1 year from date of shipment from the factory THE FOREGOING WARRANTY PROVISIONS ARE A COMPLETE AND EXCLUSIVE STATEMENT BETWEEN THE BUYER AND SELLER. DUKE NEITHER ASSUMES NOR AUTHORIZES ANY PERSONS TO ASSUME FOR IT ANY OTHER OBLIGATION OR LIABILITY IN CONNECTION WITH SAID EQUIPMENT.
Example of items not covered under warranty, but not limited to just these items
1 Acts of God, fire, water damage, burglary, accident, theft

2 Freight damage
3 Improper installation or alteration of equipment
4 Use of generic or after-market parts
5 Repairs made by anyone other than a designated servicer
6 Lubrication.
7 Expendable wear parts, adjustable feet, blown fuses, lamps, etc.
8 Cleaning of equipment
9 Misuse or abuse