



# PORTABLE HEATERS

## Assembly, Operation & Maintenance instructions

MODELS: - GM12S, GM12SP, GM16S, GM16SP, GM20S, GM20SP

[Heaters for use with 45kg cylinder trolley]

MODELS:- GM12SD, GM16SD, GM20SD

[Heaters for use with 9kg cylinder trolley]

AGA APPROVAL 2991

**PLEASE READ THE FOLLOWING INSTRUCTIONS  
BEFORE ASSEMBLING AND OPERATING THE  
APPLIANCE**

**THIS APPLIANCE MUST BE USED ON PROPANE WITH THE  
SPECIAL ADJUSTABLE REGULATOR SUPPLIED. THE  
HEATER MAY NOT BE USED WITH A STANDARD 2.75 kPa  
GAS REGULATOR**

Heaters are supplied complete with the following:

12ZRS, 16ZRS, or 20ZRS heater head ; Novacomet 1910 adjustable gas regulator;  
2 metre gas hose; Trolley unit & assembly hardware package.

Heaters are designed for operation on bottled gas [Propane] and a 9kg or 45kg cylinder complying with AS/NZS 1596 should be mounted on the trolley assembly. The 45kg cylinder trolley is recommended for commercial applications to give long term operation without cylinder changes. The 9kg cylinder trolley is recommended for patio or other similar applications where appliance appearance is of more importance. The 45kg trolley is provided with chain assembly to lock cylinder into place. The 45kg trolley should not be used with a 9kg cylinder.

Assembly instructions are detailed below. Heaters should only be assembled and operated by responsible personnel.

**DO NOT LOSE THIS MANUAL**

## WARNINGS & VITAL INFORMATION

### **1. HEATERS ARE APPROVED FOR OUTDOOR OPERATION SUBJECT TO THE FOLLOWING, BUT ARE NOT SUITABLE FOR USE IN RAIN AFFECTED AREAS.**

**[Refer also '9' below].** Outdoor use is limited to above ground open-air situations with natural ventilation, without stagnant areas, where gas leakage and products of combustion are rapidly dispersed by wind and natural convection. Any enclosure in which the appliance is used shall comply with one of the following: [Diagrams of outdoor areas are shown at the end of this manual]

- a. An enclosure with walls on all sides, but at least one permanent opening at ground level and no overhead cover.
- b. Within a partial enclosure that includes an overhead cover and no more than 2 walls.
- c. Within a partial enclosure that includes an overhead cover and more than 2 walls, the following shall apply:
  - i. at least 25% of the total wall area is completely open, and
  - ii. at least 30% of the remaining wall area is open and unrestricted.
- d. In the case of balconies, at least 20% of the total wall area shall be and remain open and unrestricted.

### **2. HEATERS MAY NOT BE USED FOR INDOOR DOMESTIC USE. INDOOR USE IS LIMITED TO NON-RESIDENTIAL AREAS ie COMMERCIAL AND INDUSTRIAL PREMISES.**

**DO NOT** operate the appliance in an enclosed or unventilated space;

The minimum room size for adequate ventilation and air supply for a GM12 is 124 cubic metres, 155 cubic metres for GM16 and 190 cubic metres for GM20.

### **3. HEATERS MUST NOT BE LEFT UNATTENDED OR LEFT ON OVERNIGHT WITHOUT SUPERVISION.**

### **4. HEATERS MUST NOT BE OPERATED IN AREAS WHERE FLAMMABLE MATERIALS ARE STORED. DO NOT SPRAY AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHILE IT IS IN OPERATION.**

### **5. FOR ALL HEATERS THE FOLLOWING CLEARANCES FROM COMBUSTIBLE MATERIALS MUST BE MAINTAINED:**

**ABOVE AND BEHIND HEATER HEAD - 1 METRE FROM ANY COMBUSTIBLE MATERIAL; eg CEILINGS OR RACK STORED MATERIALS.**

**FRONT OF HEATER - 3 METRES FROM ANY COMBUSTIBLE MATERIALS and PERSONS IN THE VICINITY OF THE APPLIANCE.**

Radiant heat can adversely affect other materials that may not be of a combustible nature. Do not operate the heater in locations where there is a risk to product etc caused by radiant heat.

### **6. WHEN USED IN WORKSHOPS AND SIMILAR LOCATIONS LOCATE THE HEATER SO THERE IS NO RISK OF KNOCKING OR TIPPING THE HEATER BY FORKLIFT TRUCKS ETC.**

### **7. DO NOT PLACE ANY ARTICLES ON OR AGAINST THE APPLIANCE. DO NOT OPERATE THE APPLIANCE WITH ANY COMPONENTS REMOVED FROM IT.**

**8. HEATERS MUST BE CHECKED AND MAINTAINED IN ACCORDANCE WITH THE INSTRUCTIONS BELOW.**

**9. ALL HEATERS ARE SUBJECT TO SAFETY SHUTDOWN IN WINDY CONDITIONS. AND IT IS RECOMMENDED THAT THE HEATERS NOT BE USED IN ANY LOCATION WHERE THE WIND SPEED MAY EXCEED 8 KILOMETRES PER HOUR [5 MILES PER HOUR].**

**[This wind speed may be classed as a light breeze; Wind is felt on the face, leaves rustle, wind chimes and vanes move slowly].**

**10. ALL HEATER SURFACES ARE HOT WHEN IN OPERATION. BE AWARE OF THE RISKS OF HIGH SURFACE TEMPERATURES, BURNS AND CLOTHING IGNITION. KEEP CHILDREN AWAY FROM THE APPLIANCE AT ALL TIMES. DO NOT HANG CLOTHING OR ANY MATERIALS ON THE APPLIANCE EVEN IF NOT FLAMMABLE.**

**11. DO NOT REMOVE ANY COMPONENTS FROM THE APPLIANCE. Appliance safety devices such as the tilt switch assembly and Gasfuse<sup>®</sup> [when supplied] are designed to protect you and your property.**

## **ASSEMBLY INSTRUCTIONS – 45kg Cylinder Appliances**

Trolley assembly is supplied complete with the following:

1. Pre-assembled chassis with fitted wheels, gas cylinder safety chain and 1 x wing nut & mast locking bolt assembly.

2. Hardware pack including one piece heater head mounting bracket, 2 off M8 x 20mm set screws and washers; 1 off M6 x 20mm bolt, nut & washer; 2 off M6 x 40mm bolt, nut & washer, 1 x head locking [stay] bar. [Ensure all components have been included before proceeding with final assembly. Contact supplier immediately if any components are missing].

Two small adjustable spanners [150mm] will be required for appliance assembly. Refer to the drawing attached.

A. Fold out base tray and fit the two M8 set screws with washers through the base tray holes into the captive nuts in the mast base. Tighten securely. Fit the M6 X 30 bolt nut and washer through the 'stop plate' hole in the lower mast section and tighten securely.

B. Fit heater head mounting bracket to topmost hole in upper mast section using M6 x 40mm bolt with nut and washer. Attach head stay bar to the second hole from the top of the mast with the other M6 x 40mm bolt nut & washer. Attach centre hole of stay bar to head mounting bracket using the M6 x 20mm bolt nut and washer.

C. Fit heater head to mounting bracket using the two nuts provided on the studs pre fitted to the back plate of the heater. HEATER HEAD MUST BE FITTED SO THAT WHEN VIEWING THE HEATER FACE THE HEATER CONTROLS ARE TO THE RIGHT HAND SIDE. The thermocouple will be at the bottom of the heater head and the piezo ignitor at the top. The tilt switch assembly wires should be uppermost and the tilt switch base should be horizontal. The upper tilt switch bracket [the 90° bracket] may be carefully bent to set the tilt switch base in the correct position.

D. Connect flexible gas hose to heater head. DO NOT USE SEALING COMPOUND. Fitting should be hand tight + quarter turn only. Attach gas regulator to flexible hose using Approved tape.

E. Slide upper mast section with heater head into lower mast section. Using wing nut bolt assembly [pre fitted to lower mast section], secure upper mast in its lowest position [a stop bracket is provided]. Mast height may be set at any convenient point within a range of 1.8 to 2.3 metres. For ease of use the minimum setting is recommended.

F. Locate gas cylinder on base tray such that the gas connection is towards the rear when facing the appliance, loop round safety chain hooking a convenient link onto bracket on rear of trolley mast. Attach regulator to gas cylinder via POL fitting. [NOTE: POL FITTING IS LEFT HAND THREAD].

Ensure that the gas hose is routed from the heater head to the cylinder in such a way that the hose cannot inadvertently come into contact with hot surfaces or could be exposed to direct radiation from the burner or excessive heat from flame disturbance due to wind.

If your appliance has been supplied with a Gasfuse™ excess flow device it will be pre-fitted to the regulator POL fitting. The POL fitting of the Gasfuse™ should be connected to the cylinder. [The Gasfuse™ is attached to the regulator POL with Loctite and MUST NOT be removed].

G. Before lighting the heater it is recommended that soapy water be used to check for gas leaks. Open the cylinder valve and operate the Gasfuse™ to allow gas flow to the heater fitting. DO NOT OPERATE THE HEATER GAS VALVE. Apply soapy water to the fittings at each end of the flexible hose only. If any bubbles appear, close the cylinder valve and tighten or refit the leaking connection. If in doubt, contact your heater supplier.

Heater is now ready for operation and may be moved to the desired location.  
NEVER MOVE HEATER WHILE IT IS OPERATING.

## **ASSEMBLY INSTRUCTIONS – 9kg Cylinder Appliances**

### **Parts List**

The trolley is shipped in its component parts and includes the items detailed below. A cross head screwdriver, small hammer and adjustable spanner [or 10mm spanner] are required for assembly.

#### **Sheet steel components:**

- A Base tray
- B Left hand case panel
- C Right hand case panel
- D Case top panel
- E Mast
- F Heater support bracket
- G Mast back plate

#### **Wheel components:**

- Axle
- Wheels [2]
- Axle sleeves [2]
- Wheel retaining nuts [2]

#### **Hardware:**

- M6 x 10mm set screw [13 pieces]
- M3 x 10mm pan head screw [8 pieces] [May be pre-fitted]

Check all parts have been supplied before proceeding with assembly.

## **Assembly**

1. Attach side panels B & C to base tray A using 2 x M6 set screws each side of base tray. Note that side panels have slots to allow fit over the outside of the base tray. Do not fit bolts at points X yet.
2. Fit top panel D to side panels using 2 x M6 set screws. Don't fit bolts at points Y yet.
3. Fit heater support bracket F to the mast section E using 3 x M6 set screws. Do not tighten yet.
4. Lay mast section on its back and fit the mast back plate using the 8 x M3 pan head screws provided. The cut away end of the back plate locates over the heater head bracket at the top of the mast. [Note that this operation may have been done prior to shipment].
5. Attach mast section to base and top panel through slots in wraparound sections of side panels using 4 x M6 set screws. [Points X and Y].
6. Tighten all M6 set screws.
7. Slide the axle through the holes in the base plate and mast section.
8. Fit the wheel sleeves into the wheels and slide the wheels onto the axle.

9. Check the axle is central and tap one wheel nut gently onto one end of the axle. DO NOT KNOCK WHEEL NUT ON MORE THAN 1-2MM. Tap on the second wheel nut. Once fitted wheel nuts are virtually impossible to remove without destroying them.
10. Attach heater head to mast top such that when viewing the rear of the heater head the labels will be the right way up. WHEN VIEWING THE HEATER FACE THE HEATER CONTROLS ARE TO THE RIGHT HAND SIDE
11. Slide the swivel nut end of the gas hose up the inside of the mast, out of the mast top and connect to the heater head.
12. Place your 9kg gas cylinder in the base tray and connect the POL fitting of the regulator.

Heater is now ready for operation and may be moved to the desired location.  
NEVER MOVE HEATER WHILE IT IS OPERATING.

## **HEATER LIGHTING AND OPERATION**

1. Turn on gas cylinder valve. If a Gasfuse™ is fitted, pump the gauge up and down 4 to 6 times to get gas pressure indication.

2. Set regulator control knob to position '10'. [Heater must always be lit at full rate]. DO NOT attempt to light the heater at any other regulator setting.

3A Heaters without piezo: Apply lighted match or taper to heater panel and depress gas valve button. Keep it depressed for 20 seconds after gas has lit. Release button and heater should remain alight.

3B Heaters with piezo: Repeatedly press and release piezo ignitor button while keeping gas valve button depressed. Keep gas valve button depressed for 20 seconds after gas is lit. Release button and heater should remain alight.

4. If heater goes out, turn off cylinder valve, wait 1 minute then repeat steps 1-3 above. If problem persists refer to fault-finding section below.

5. After heater has been in operation for 5 minutes, output may be adjusted by turning regulator control knob. Position '10' is maximum rate, position '1' is minimum and will give approximately 60% of heat output.

6. To shut down heater, turn gas cylinder valve off.

IF MAST HEIGHT [45kg trolley only] REQUIRES ADJUSTMENT, OR HEATER IS TO BE MOVED, HEATER MUST BE TURNED OFF BEFORE ANY ALTERATIONS ARE MADE.

### **Gas Cylinder Replacement**

When gas cylinder runs out of gas, heater will shut down automatically.

1. Allow heater to cool down.
2. Turn off gas cylinder valve.
3. Disconnect POL fitting.
4. Remove empty cylinder and replace. For 45kg cylinders ensure safety chain is refitted.
5. Refit POL fitting. If POL is fitted with an 'O' ring, check this is in place and in good condition before refitting POL. If 'O' ring is cracked, broken or missing, contact supplier for a replacement POL assembly.
6. After replacing cylinder, relight appliance as above.

## **Cylinder Storage**

For appliances used indoors in non-residential premises; ie for commercial and industrial applications, [a] there is no limitation on the storage of appliances indoors provided that the cylinder is removed from the appliance and [b] storage of appliances indoors is permitted with the cylinder attached provided that the size of the cylinder complies with AS/NZS 1596. Non complying cylinders must be stored outdoors in a well ventilated area.

## **FAULT FINDING**

### **1. HEATER WON'T LIGHT:**

Ensure gas cylinder valve is turned on.

Check there is gas in cylinder. If Gasfuse™ is fitted, check gauge reading and pump gauge as detailed in 'Lighting Instructions' above.

### **2. HEATER IS DIFFICULT TO LIGHT; FLAME IS BLUE OR FLUTTERY**

Ensure regulator set to #10.

Gas cylinder may be almost empty. [Refill indication on Gasfuse™ gauge].

### **3. HEATER LIGHTS BUT GOES OUT AFTER PUSH-BUTTON IS RELEASED**

Gas valve button not depressed for long enough - always hold for 20 seconds after gas has ignited.

Safety thermocouple may have failed - replace.

Thermo-electric valve magnetic coil may have failed - replace.

Tilt switch faulty or open circuit contact wiring. Check wiring – replace switch if necessary. Check wires in thermocouple interruptor block are secure.

Tilt switch operating – ie open circuit. Check appliance is not tilted. Tilt switch base must be horizontal for appliance to operate. Refer to assembly instructions above.

### **4. HEATER LIGHTS BUT BURNS WITH NOISY FLAME**

Heater filled with dust and dirt - Compressed air required to clean holes in ceramic panels.

Heater ceramic panels cracked or broken - replace heater

Air intake blocked or restricted.\* Shut-off heater and allow to cool. Look in air intake and remove any restriction. If problem persists contact supplier.

*\*[Note this problem can occasionally occur after a heater has been out of use for a period of time - Insects may have built a nest in the heater intake tube].*

## **PARTS REPLACEMENT**

**GAS CYLINDER MUST BE SHUT OFF AND DISCONNECTED AND HEATER HEAD SHOULD BE REMOVED FROM TROLLEY ASSEMBLY BEFORE COMMENCING ANY REPAIRS. Repairs must be carried out by authorised personnel.**

### **1. THERMOCOUPLE and/or INTERRUPTOR BLOCK**

Disconnect thermocouple from gas valve by unscrewing nut on thermocouple interruptor block. With draw terminal wires from interruptor block and unscrew block from gas valve if to be replaced.

Remove other end of thermocouple from heater body by unscrewing retaining nut inside reflector [12 or 13mm nut].

Fit new thermocouple and /or interruptor block by following above. Connection at gas valve shall be hand tight + quarter turn only. Ensure tilt switch wires are refitted into interruptor block.

## 2. VALVE MAGNETIC COIL

Disconnect thermocouple from tilt switch interruptor block. Carefully withdraw wires from interruptor block, then unscrew block. Unscrew aluminium or brass coloured cap from gas valve. Pull out mag valve assembly.

Replace with new coil assembly, refit valve cap, interruptor block, tilt switch wires and thermocouple.

## 3. GAS INJECTOR [Appliance model must be quoted when ordering new jet].

Disconnect thermocouple as above. Withdraw tilt switch wires from interruptor block.

Unscrew gas valve locking bolt and remove valve. Note location of tilt switch assembly bracket.

Unscrew gas injector and discard.

Fit new injector and re-assemble. Ensure tilt switch bracket assembly is refitted in line with gas valve so that when heater is refitted to trolley the tilt switch base is horizontal.

## 3. VALVE COMPLETE

Disconnect thermocouple as above. Withdraw tilt switch wires from interruptor block and unscrew interruptor block.

Unscrew gas valve locking bolt and remove valve.

Unscrew valve locking bolt and remove valve.

Replace with new valve, which MUST be fitted with gas injector, and refit locking screw tilt switch assembly etc.

IF VALVE IS TO BE REPLACED, A NEW INJECTOR SHOULD ALSO BE USED. OLD INJECTORS MAY HAVE GAS RESIDUE WHICH MAY REDUCE THROUGHPUT AND HEATER OUTPUT.

## 4. TILT SWITCH.

Pull off switch wires. Unscrew tilt switch base bolts [3mm]. Fit new switch and refit wires.

## **SPARE PARTS**

Spare parts will NOT be supplied unless heater model number is quoted. This information is stamped on the data plate adjacent to the gas valve assembly. Model number will be 12ZRS or 16ZRS or 20ZRS.

<u>Description</u>	<u>Part N°</u>
Thermocouple	389802000 – all models
Valve Magnetic Coil	380123153 – all models
Valve complete	384802903 [Includes injector] – specify model
Gas Hose [2 metre]	382MS – all models
Regulator	380122155 – all models [includes POL fitting]
Tilt switch	38PAUG/7X
Thermocouple interruptor block	38CC1008
Gasfuse™	38Gasfuse

## **ROUTINE MAINTENANCE**

Heater should be checked well in advance of the next heating season.

1. Trolley - Check all nuts and bolts are tight, and that wheels rotate freely. Check cylinder chain is correctly fitted. HEATER SHOULD NOT BE USED WITH 45kg GAS CYLINDER UNLESS SAFETY CHAIN IS FITTED.

2. Heater Head - Remove all dust etc that may have collected on top of the reflector. Check for any blockages around air/gas intake tube. Check that there is no damage to ceramic plaques. IF PLAQUES ARE BROKEN, COMPLETE HEATER HEAD MUST BE REPLACED - PLAQUES CANNOT BE REPAIRED OR REPLACED. If reflector frame is dented, bent or discoloured, this will not affect heater operation.

3. Regulator and hose - Check that regulator control knob rotates freely. Replace regulator if necessary. Check hose for cuts or other damage. HOSE MUST BE REPLACED IF ANY DEFECTS ARE DETECTED. DO NOT OPERATE HEATER WITH DAMAGED HOSE AND DO NOT ATTEMPT ANY REPAIRS.

## **WARRANTY**

All equipment is supplied with a 12 months parts only warranty.  
Refer to Hurl Nu-Way for full conditions of sale.

## **GAS CONSUMPTION DATA**

### Model GM12S [12ZRS Heater Head]

Maximum Heat Input	24.2 MJ/h
Adjustable Input Range	15.8- 24.2 MJ/h
Gas Consumption Range	313- 480 g/h

### Model GM16S [16ZRS Heater Head]

Maximum Heat Input	30.8 MJ/h
Adjustable Input Range	19.0- 30.8 MJ/h
Gas Consumption Range	377- 611 g/h

### Model GM20S [20ZRS Heater Head]

Nominal Heat Input	36.1 MJ/h
Adjustable Input Range <sup>[2]</sup>	22.7- 36.1 MJ/h
Gas Consumption Range	450 - 716 g/h

## **AUSTRALIAN DISTRIBUTOR**

### **HURLL NU-WAY PTY LTD** ABN 80 000 014 639

14 Aristoc Road, GLEN WAVERLEY VIC 3150

Tel: 61 3 9561 2100

Fax: 61 3 9560 8992

email: [mail@hurl.com.au](mailto:mail@hurl.com.au)

[www.hurl.com.au](http://www.hurl.com.au)

Unit 5, 29 Helles Avenue,  
MOOREBANK, NSW 2170.

Tel: 61 2 9734 9500

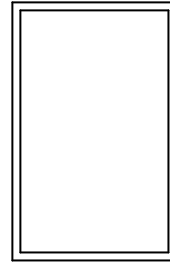
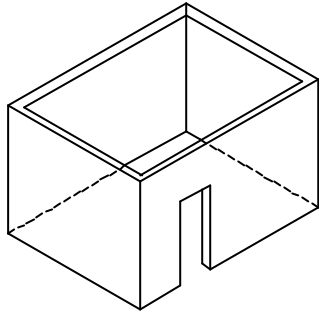
Fax: 61 2 9734 9800

2 Roper Street,  
O'CONNOR, WA 6163  
Tel: 61 8 9314 2420  
Fax: 61 8 9314 2427

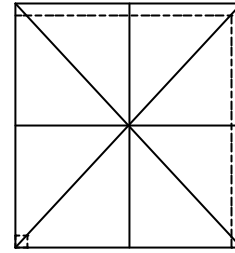
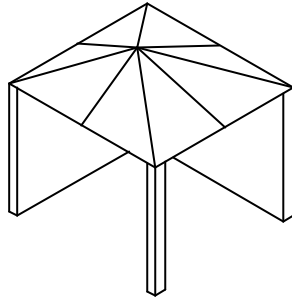
**NEW ZEALAND DISTRIBUTOR  
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Fax: 64 9 273 6524  
[www.nuwayenergy.co.nz](http://www.nuwayenergy.co.nz)

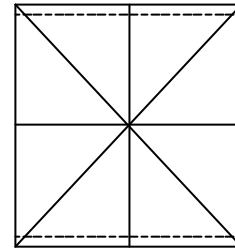
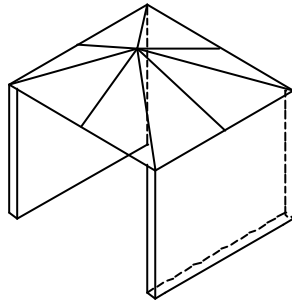
WALLS, NO ROOF, NATURAL VENTILATION



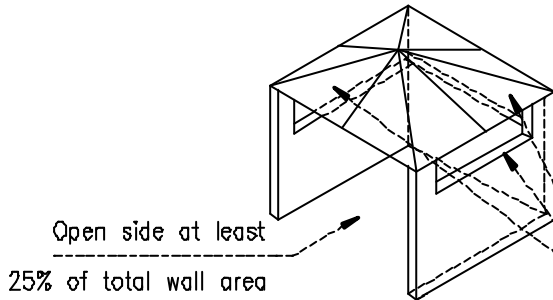
ROOF, 2 SIDE WALLS ONLY



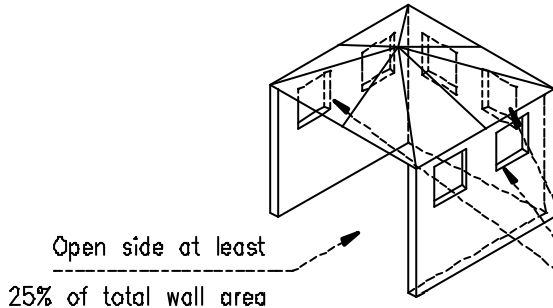
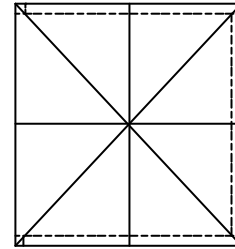
ROOF, BOTH ENDS OPEN



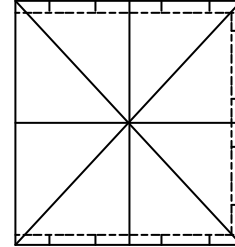
ROOF, 1 OPEN WALL, SEE NOTES



30% or more in total of the remaining wall area is open and unrestricted



30% or more in total of the remaining wall area is open and unrestricted



Note: Examples show rectangular areas but principles apply to any other shaped area.

No.	REVISION	BY DATE

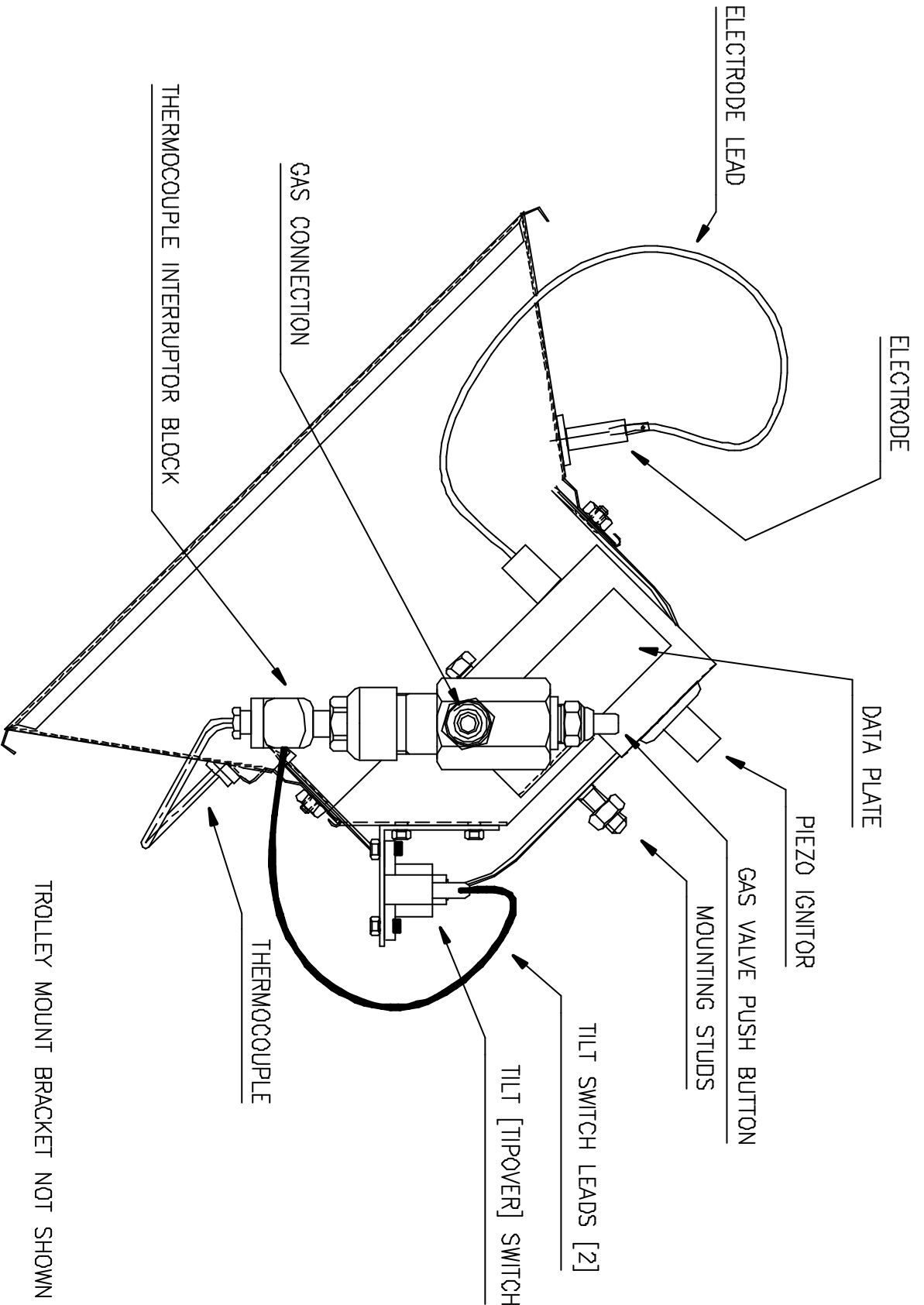


**HURLL NU-WAY**  
 HURLL NU-WAY PTY LTD    ACN 088 014 638  
 14 ARISTOC ROAD, GLEN WAVERLEY VIC. 3150  
 P.O. BOX 339, GLEN WAVERLEY, VIC. 3150  
 PH. 03 9561 2100 ... FAX. 03 9560 8902  
 E-MAIL ... mail@hurll.com.au

CUSTOMER: ...  
 TITLE: ...  
 ...  
 ...

THIRD ANGLE PROJECTION

SCALE: NOT-TO-SCALE	
DRAWN: PRM	CHKD.: CKD
DATE: 12/11/14	APPR.: APPR
PROJECT No.: PROJECT	
A4 DWG. No.	REV. REV
OUTDOOR	



PORTABLE HEATER END VIEW  
 WHEN CORRECTLY ATTACHED TO TROLLEY ASSEMBLY  
 NOTE TILT SWITCH IN CORRECT HORIZONTAL POSITION

TROLLEY MOUNT BRACKET NOT SHOWN

THIRD ANGLE PROJECTION

No.	REVISION	BY	DATE



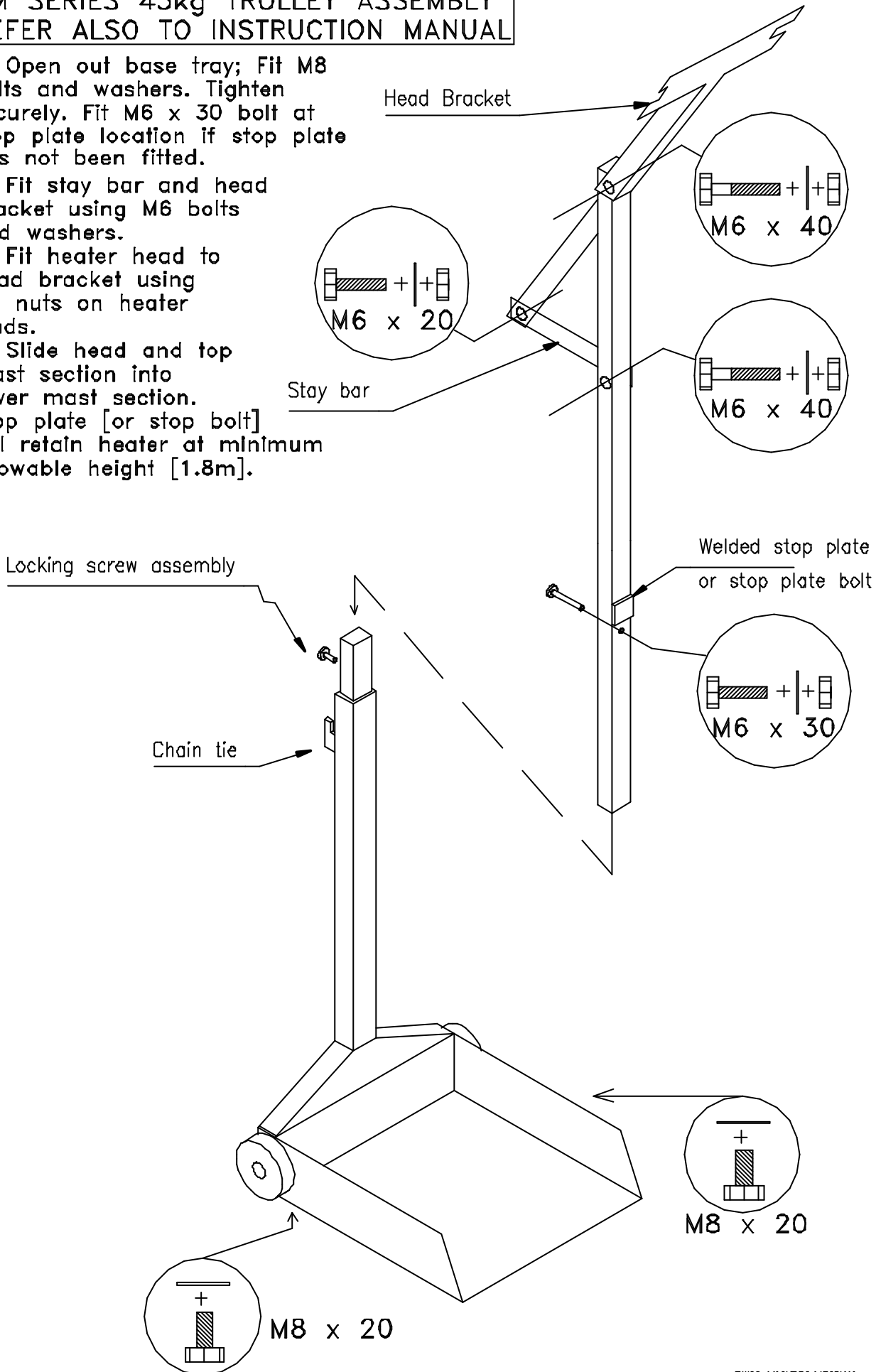
**HURLL NU-WAY**  
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 PH. 03 9561 2100 ... FAX. 03 9560 8982  
 E-MAIL ... mail@hurll.com.au

CUSTOMER: ...  
 TITLE: ...  
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SCALE: NOT-TO-SCALE	
DRAWN: PRM	CKD.: NA
DATE: 11-19-15	APPR.: APPR
PROJECT No.: PORTABLE	
A4	DWG. No. PORT-END
	REV. A

**GM SERIES 45kg TROLLEY ASSEMBLY**  
**REFER ALSO TO INSTRUCTION MANUAL**

1. Open out base tray; Fit M8 bolts and washers. Tighten securely. Fit M6 x 30 bolt at stop plate location if stop plate has not been fitted.
2. Fit stay bar and head bracket using M6 bolts and washers.
3. Fit heater head to head bracket using M6 nuts on heater studs.
4. Slide head and top mast section into lower mast section. Stop plate [or stop bolt] will retain heater at minimum allowable height [1.8m].



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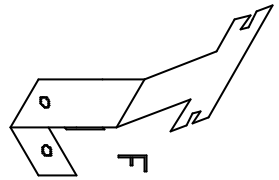


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 E-MAIL ... mail@hurll.com.au

CUSTOMER: ...  
 TITLE: PORTABLE-HEATER TROLLEY-ASSEMBLY

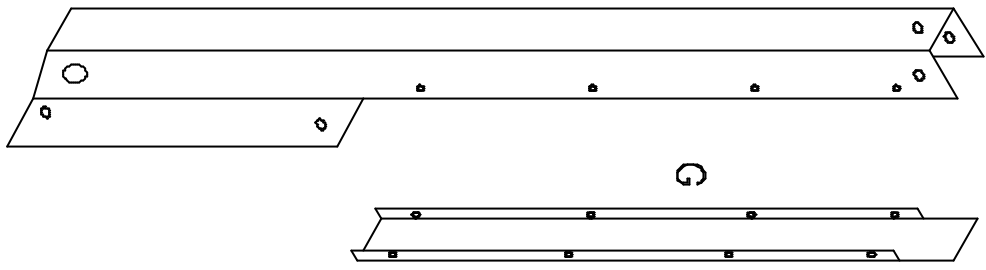
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DATE: 22/9/04	APPR.: APPR
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TROLLEY2	REV

**GM SERIES 9kg TROLLEY ASSEMBLY**  
**REFER ALSO TO INSTRUCTION MANUAL**

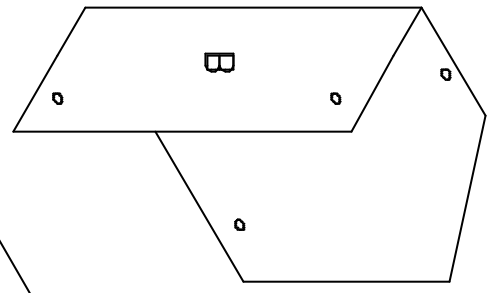


- A Base Tray
- B Left Hand Side Panel
- C Right Hand Side Panel
- D Case Top Panel
- E Mast
- F Heater Support Bracket
- G Mast Back Plate

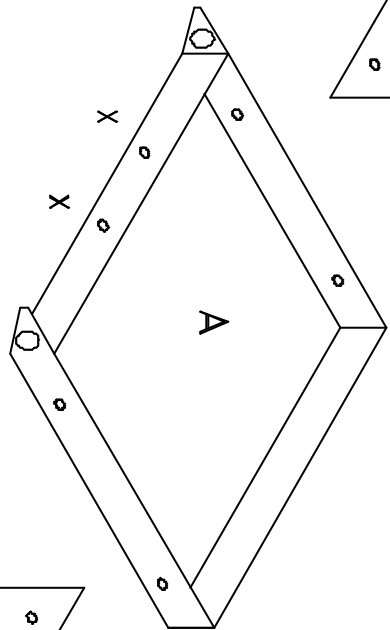
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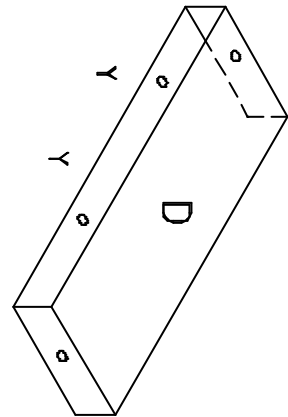
G



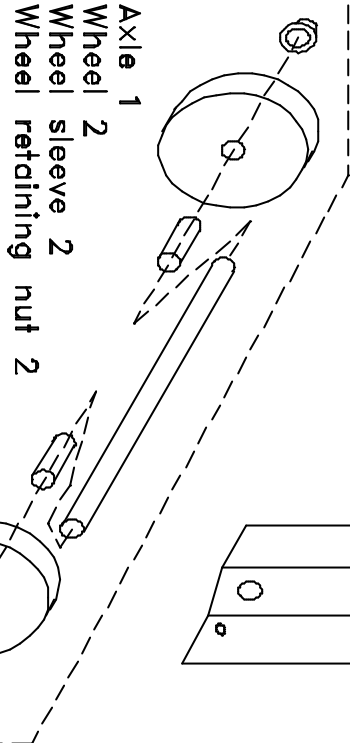
B



A

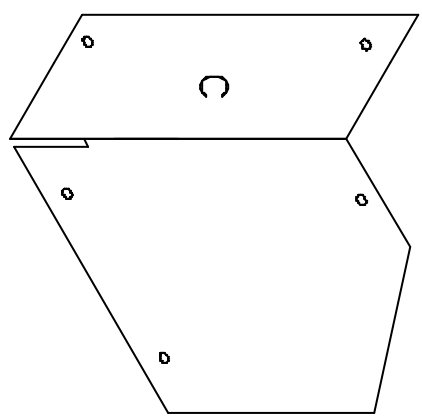


D



- Axle 1
- Wheel 2
- Wheel sleeve 2
- Wheel retaining nut 2

- M6 x 12 - 13pcs
- M6 washer - 13pcs
- M3 x 10 - 8pcs



C

THIRD ANGLE PROJECTION

No.	REVISION	BY	DATE



**HURLL NU-WAY**  
 HURLL NU-WAY PTY LTD ACN 088 014 638  
 14 ARISTOC ROAD, GLEN WAVERLEY VIC. 3150  
 P.O. BOX 330, GLEN WAVERLEY, VIC. 3150  
 PH. 03 9561 2100 ... FAX. 03 9560 8982  
 E-MAIL ... mail@hurll.com.au

CUSTOMER: ...  
 TITLE: DOMESTIC-TROLLEY-ASSEMBLY  
 ...

SCALE: NOT-TO-SCALE	
DRAWN: PRM	CKD.: CKD
DATE: 27/16/15	APPR.: APPR
PROJECT No.: PROJECT	
A4 DWG. No.	REV. A
DDM-ASSEMBLY	