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Heatstar by enerco manual.

Check fuel pressure setting of fuel pump vi. The control panel consists of: • a 3-position switch for heating function: normal operation, stop or thermostat operation • plug to connect a remote room thermostat • power cord • high voltage transformer that generates a spark to ignite the flame • control flame box to handle starting / running cycle (see paragraph 2). Flame failure because of air pressure switch PA not working. Inspect the fuel hose assembly and check for any leaks • 6 months maintenance i. Check adjustment of fuel pump pressure ii. 1) Remove the top cover access panel (b) by removing six screws ii) Loosen and remove three nuts (a) iii) Remove the burner head tube assembly (c) iv) Check and clean inside combustion chamber with a cloth, removing liquid fuel residual v) Reassemble burner head tube assembly (c) vi) Reassemble top cover (b) 5. Page 9 b) To replace the fan blade and the electric motor, carry out the following procedure. If any air hose is installed, secure it. COMBUSTION HEAD ASSEMBLY 7. The control flame box is equipped with a reset The control system utilizes: • a safety shut off switch that is an overheat thermostat shutting down the unit if the temperature of combustion chamber and outlet air exceed the maximum allowed level • an air pressure switch, that stops the unit if the air flow is not sufficient for combustion • a flame detector, that is a photocell monitoring constantly the flame presence and its integrity • a pair of ignition rods to create the ignition spark FUEL SYSTEM The fuel system consists of: • fuel tank, that is steel, corrosion proof The fuel tank has a drain plug located underneath it to allow discharge of residual fuel before cleaning. TROUBLESHOOTING GUIDE A. WIRING DIAGRAM HS2000ID, HS3000ID, HS3500DF Fuse 20 A Main switch Room thermostat plug H.T. Transformer Flame control box L11 Overheat thermostat Heated fuel filter (optional) EV1 Fuel solenoid valve Air pressure switch Photocell FUA Fuse 6,3 A Capacitor RFLAY Fan motor FUSE 20 A Control lamp NOTE Air pressure switch PA and burner head l. Inspect and test the burner... TECHNICAL SPECIFICATION TECHNICAL SPECIFICATIONS HS2000ID HS3000ID HS3500DF HS6000DF Heat input [kBTU/h] 204,973 293,982 361,439 599,524 Air flow [cfm] 1,530 2,531 1,795 2,900 Heat output [kBTU/h] 183,362 258,704 Fuel consumption [gal/h] 1,48 2,17 2,60 4,32 Phase Voltage water 3. Therefore in case PA and L11 opens, the fuel valve EV1 is switched off and the flame control unit goes in lock-out in the "flame failure mode". MAINTENANCE SCHEDULE Periodic maintenance of the heater is necessary to ensure proper performance and to prevent failures and it shall be performed at the following periodic intervals: • Daily maintenance i. Flame control box in locking condition for a previous problem 1. Refer to following if any new problem occurs c. FUEL FILTER ASSEMBLY 3. If you can't find the service manual you need online, you may have to contact a dealer to order one. Check fuel line are not obstructed or damaged and eventually replace 6. You can find these manuals through bookstore websites, parts stores and the publishers' websites. Libraries and Online Auctions for Service and Owner's Manuals Libraries and online auctions are two other places you may be able to find an owner's manual or a service manual for your motorcycle. Fortunately, you can search online for owner's manuals. Check integrity of main fuse b. 7. Check fan is tightened on fan motor axle... 2) FUEL FILTER ASSEMBLY To clean / replace the pre-heated type fuel filter, carry out the following procedure. REPAIR PROCEDURES WARNING Before carrying out any maintenance operation the heater must be disconnected from power supply. Check main supply is switched on 2. Page 6 2.5 FLAME FAILURE DURING RUNNING STATUS (ONE TRIAL RECYCLING) Room thermostat Burner Fan Ignition Transformer Fuel Valve Photocell Reset Lamp TP 20 s TS 5 s 30 s In case of flame failure in running status, the flame control unit make one trial restarting the unit. During the purging stage, the flame signal is constantly monitored for any kind of failure leading to combustion prevents the burner ignition. Inspect air inlet / air outlet and exhaust stack, remove debris if any ii. Open electric board, inspect electrical components and check connections v. To browse for your manual on this type of website, choose the make of your motorcycle, then navigate through the results to find the model you own. Check fan motor connections 2. Inspect and clean the combustion chamber iv. Page 3 CONTROL SYSTEM The heater has all operational controls located in a watertight control panel mounted on the lateral side of the unit. Check room thermostat and room thermostat connections 2. Check all connections of fuel line from tank to fuel pump: untightened connections can cause suction of air to fuel pump 5. 3. One way to find them is by going to the website of your motorcycle's manufacturer and searching within the website. 2. Check connection of extension power cord 3. WHEN HEATER IS SWITCHED OFF, IT DOES NOT STOP A. OEM service manuals give in-depth information about how to repair all of a motorcycle's systems. 4. Check adjustment of fuel pump pressure 4. MORE FROM QUESTIONSANSWERED.NET Page 1 DIESEL SPACE HEATER-SERVICE MANUAL INDEX 1. Fan rotating area is covered by fan support even if accessible Take measure to avoid touching any rotating parts while setting fuel pressure iv) Start the heater and check the fuel pressure value listed in the final technical sheet v) Correct the pressure by screwing (to increase pressure) screw (b) iii) Check that all connections are complete and tight iv) Reassemble top cover (b) and fix electric board to the heater 5) AIR PRESSURE SWITCH To check / replace air pressure switch, carry out the following procedure. Check air combustion setting ii. Fuel flow to nozzle is not interrupted 1. AIR PRESSURE SWITCH 6. i) Remove the top cover access panel (b) by removing six screws ii) Loosen screw (a) and remove wire connector of yellow/green wire (c) Page 14 iii) Turn counterclockwise burner support (d) and pull it out of burner tube (e) iv) Check / Clean diffuser ring (f) (1) be sure any debris or soot is eliminated on every wing and opening on front surface of ring (2) if necessary loosen screw (f) and remove it to wash using clean diesel (3) check for any damage or bended part: if any replace it v) Check / clean ignition electrodes (g) (1) Clean and remove any debris or soot on sharp ends of electrodes (2) If necessary remove both electrodes and replace (3) Check alignment as by following image: electrodes shall be centered and symmetric (4) Check electrode connectors (h) to tighten and clean... Flame failure because of bad combustion 1. Disassemble burner head l. Inspect and test the burner... TECHNICAL SPECIFICATION TECHNICAL SPECIFICATIONS HS2000ID HS3000ID HS3500DF HS6000DF Heat input [kBTU/h] 204,973 293,982 361,439 599,524 Air flow [cfm] 1,530 2,531 1,795 2,900 Heat output [kBTU/h] 183,362 258,704 Fuel consumption [gal/h] 1,48 2,17 2,60 4,32 Phase Voltage Power supply Frequency [Hz] 1,330 1,240 Electric consumption 7.65... HEATER DOES NOT START a. i) Loosen the casing (a) that secures to the housing ii) Using a suitable container, collect the fuel when removing from the fuel filter assembly iii) Remove the fuel cell (c) and wash it with clean diesel oil iv) If necessary replace the fuel cell (c) v) Inspect the o-ring, replace it if it is cracked, damaged, or deformed vi) Reassemble the filter assembly checking the o-ring is placed in the right position vii) Tighten casing (a) by hand, checking the o-ring is pressed 3) FUEL PUMP ASSEMBLY To replace fuel pump, carry out the following procedure. Check and clean fuel filter cartridge 4. Verify fuel tank is full iv. There are also two types of manuals to consider: motorcycle owner's manuals and motorcycle repair service manuals. Owner's Manuals From Dealers Sometimes when you buy cheap, used motorcycles, they're older and the owner's manual don't necessarily come with the bike. • steady orange light: function not active • ... You can sometimes find these manuals online at websites such as SOHC4. Refer to instruction manual to fully stop the heater. FLAME CONTROL RUNNING / FAILURE CYCLE 2.1 STARTING CYCLE Room thermostat Burner Fan Ignition Transformer Fuel Valve Photocell Reset Lamp TP 20 s TS 5 s 30 s The flame control unit starts the sequence of operation after a heating request (normal operation or thermostat operation) and it consists of the following steps: • Self-test (less than 3 s): self-check of electronics efficiency; • Purging time TP (20 seconds): fan motor and ignition transformer are simultaneously switched on while the fuel valve remains closed to eliminate any fuel or unburnt residual. Motor does not run and reset lamp is red l. They provide useful tips and shortcuts that save you time and extra work. ELECTRIC PANEL ASSEMBLY 5. To find motorcycle manuals on auction websites, enter your bike's year and model information in the search bar, along with the word "manual" to bring up information about any manuals currently available on the auction website. FUEL PUMP ASSEMBLY 4. sheet (x) Reassemble combustion head x) Reassemble top cover 7) COMBUSTION CHAMBER ASSEMBLY To clean combustion chamber assembly, carry out the following procedure. Check adjustment of combustion air iii. Check fuel solenoid valve close fuel line to nozzle... CONTROLS AND COMPONENTS HS2000ID & HS3000ID INDIRECT HEATER WITH STACK: 1 COMBUSTION CHAMBER 2 BURNER ASSEMBLY 3 NOZZLE 4 FUEL VALVE 5 DIESEL PUMP 6 MOTOR 7 FAN 8 FUEL FILTER 9 FUEL CIRCUIT 10 FUEL TANK 11 FUEL TANK PLUG HS3500DF &... Inspect and replace nozzle as necessary 3. CONTROLS AND COMPONENTS 2. i) Remove the top cover access panel (b) by removing six screws ii) Loosen three screws (e) on the fuel pump casing (be sure not to remove the screws) iii) Remove fuel pump from electric motor and keep plastic coupling for next reassembly iv) Disconnect wires lead to fuel solenoid valve (g) v) Reassemble new fuel pump on electric motor being sure that plastic coupling is aligned vi) Tighten three screws (e) vii) Reinstall the top cover. Page 5 2.3 FLAME FAILURE DURING STARTING CYCLE Room thermostat Burner Fan Ignition Transformer Fuel Valve Photocell Reset Lamp TS 5 s TP 20 s If during the safety time TS, the photocell monitors a flame failure (signal to photocell becomes lower than minimum), at the end of safety time the unit goes in lock out condition: • burner fan, ignition transformer and fuel valve are de-energized; • alarm lamp on rest button becomes red Unit can re-start only if pressing the reset button 2.4 EXTRANEIOUS LIGHT OR FLAME DURING PRE-PURGE TIME TP Room thermostat Burner Fan Ignition Transformer Fuel Valve Photocell... i) Remove the top cover access panel (b) by removing screws ii) Loosen cap (a) on front of fuel pump and connect a fuel pressure meter iii) Disconnect wires leading to fuel solenoid valve (to avoid fuel spray inside combustion chamber) WARNING The following operation shall be done with top cover and possible access to rotating fan, or its affiliates Whether you're searching for free manuals online or you're willing to pay to get the information you need, there are a few ways to find them. Heater still runs with flame i. 1. FAN MOTOR ASSEMBLY 2. If the reason of flame failure is confirmed, then the unit stops in lock-out mode, and the reset lamp becomes red. Disassemble, inspect and clean fuel filter with clean fuel ii. Missing connection to main supply line 1. b) To set fuel pressure on fuel pump, carry out the following procedure. Page 21 HS6000DF Fuse 20 A Main switch Room thermostat plug H.T. Transformer Flame control box L11 Overheat thermostat Heated fuel filter (optional) EV1 Fuel solenoid valve Air pressure switch Photocell FUA Fuse 6,3 A Capacitor RFLAY Fan motor FUSE 20 A Control lamp NOTE Air pressure switch PA and overheating thermostat L11 are connected in serie to fuel valve EV1. If your motorcycle is listed in the site's database, select it and follow the on-screen directions to download it. OEM Motorcycle Service Manuals An original equipment manufacturer (OEM) service manual is the kind used at dealerships that have service centers. Check main switch on heater control board ii. i) Loosen the screw (d) on the fan hub iii) Extract the fan blades and replace with a new one respecting blades orientation iv) Remove the top cover access panel (b) by removing four screws (e) Loosen three allen screws (e) on the fuel pump casing (be sure not to remove the screws) vi) Remove fuel pump from electric motor and keep plastic coupling for next reassembly vii) Loosen and remove eight screws (f) that fix the motor on the motor flange viii) Open main electric board on side/front of the heater ix) Trace the electric motor power cords and disconnect the three wires (white, black, green) from control panel x) Position a new motor on the motor flange and reassemble eight screws (f) to fix it xi) Check alignment of the motor to the heater axis and tighten eight screws (f) on motor flange xii) Reassemble fuel pump on electric motor being sure that plastic coupling is aligned xiii) Tighten three allen screws (e) xiv) Position fan blade on the motor shaft being sure there is no interference with any parts when rotating xv) Tighten screw (d) and check free rotation of the fan blades xvi) Reinstall the fan grille and the top cover. FLAME CONTROL CYCLES 3. Clean ignition electrodes and adjust settings 4. Page 15 vi) Check/replace fuel nozzle (1) Refer to technical data sheet for specific indication of nozzle type (2) Remove electrodes (g) (3) Remove diffuser ring (4) Loosen fuel nozzle and replace with a new one (5) Reassemble diffuser ring and electrodes taking care of each correct positioning as previous instructions vii) Check / clean photocell (1) Remove photocell (i) and check it is clean (2) Check photocell support be clean and clean hole (m) viii) Check / adjust air openings (1) Loosen nut (n) (2) Adjust lever (p) until the requested opening is obtained (check final tech. If you can't find a downloadable owner's manual on the company website, search for a local dealer and contact them to request a manual. 2.6 RESET LAMP COLOR WARNING The reset button may have different colours: • light off: unit is in stand-by status, waiting for heating request. Minimize bends and keeps ducts straight iii. Check and clean fuel nozzle (eventually replace it) 2. 1. Room thermostat / main switch failure 1. 2. Page 19 E.

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