

TROUBLESHOOTING

This section contains instructions for troubleshooting the equipment following a malfunction. The troubleshooting procedures to be performed on the equipment are listed below. Each symptom of trouble for a component or system is followed by a list of probable causes of the trouble.

ENGINE SHUTDOWN

- Faulty safety switch
 - o test switches
- No fuel, low fuel, or contaminated fuel
 - o check fuel supply
- Engine and/or booster overheating
 - o see problem under engine and or booster overheating

UNABLE TO OBTAIN PROPER ENGINE SPEED OR ENGINE RUNS ROUGHLY

- Out of tune
 - o tune up
- Clogged air cleaner
 - o clean and/or replace
- Controls maladjusted
 - o adjust control
- Contaminated fuel
 - o drain system

VIBRATION

- Broken or loose motor mount
 - o repair and/or replace
- Low engine speed
 - o adjust engine speed
- Engine misfire
 - o adjust engine timing
- Bent fan blade
 - o repair and/or replace

TROUBLESHOOTING

MACHINE WILL NOT BUILD UP PRESSURE

- Defective gauge
 - o replace gauge
- Air demand too great
 - o check service lines for leaks or open valves
- Blowdown valve open
 - o check to see if blowdown valve is getting a pilot signal
- Faulty drive coupling
 - o replace coupling

BOOSTER OVERHEATING

- Unit operating in area with limited fresh air
 - o reposition unit or open up confinement
- Fan belts are loose or broken
 - o tighten or replace
- Dirt build-up on cooler
 - o clean cooler thoroughly – be careful not to damage fins
- Booster oil level low
 - o check and fill to proper level
- Booster oil filter dirty
 - o replace filter
- Thermostatic valve malfunctioning
 - o clean or replace element
- Restriction in booster oil lines
 - o clean or replace lines
- Restriction inside oil cooler
 - o clean internal tubes of cooler
- Operating booster with hood open
 - o close hood

TROUBLESHOOTING

ENGINE OVERHEATING

- Unit operating in area with limited fresh air
 - o reposition unit or open up confinement
- Fan belts are loose or broken
 - o tighten or replace
- Defective gauge or sender
 - o replace gauge or sender as necessary
- Dirty radiator fins
 - o clean fins – be careful not to damage
- Thermostat not opening
 - o replace thermostat
- Radiator internally restricted
 - o clean and flush radiator
- Faulty or incorrect radiator cap
 - o check cap, replace as required
- Faulty water pump
 - o repair or replace pump
- Incorrect engine timing
 - o adjust timing to engine manual specs
- Operating booster with hood open
 - o close hood
- Coolant level low
 - o add coolant to proper level

INSUFFICIENT GAS DELIVERY

- Booster undersized for gas requirement
 - o recheck maximum gas requirement
- Engine speed low
 - o check speed/adjust if necessary
- Leaks in gas system
 - o check that blowdown valve is closed – if not, repair or replace
 - o check all air lines, fittings, and connections for leaks; repair as necessary
- Gas intake restricted
 - o look for obstructions in the filter and inlet piping
 - o check that the inlet valve is opening fully
- Faulty drive coupling
 - o replace coupling

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EXCESIVE BOOSTER OIL CONSUMPTION

- Oil reservoir overfilled
 - o Drain to proper level
- Leak in booster oil system
 - o Check all piping lines and connections – repair as necessary
- Oil scavenge line not removing oil from separator element
 - o Check scavenge line and connections – repair as necessary
- Separator element damaged
 - o replace element
- Booster undersizing for gas requirement
 - o Contact Boss Industries at 219.324.7776 or 800.635.6587
- Operating at low pressure increases oil carryover
 - o recheck load requirements