

CHECKLIST PORTER MXR NITROUS OXIDE Blender & Equipment

CHECK CONNECTIONS GAS HOSES *BLUE (N₂O) WHITE (OXYGEN)*

- SECURE AT BACK OF PORTER MXR N₂O BLENDER
- SECURE AT THE WALL OUTLET
- PIN WHEEL TO CORRESPONDING OUTLET
- WHITE O₂ TO O₂ & BLUE N₂O TO N₂O



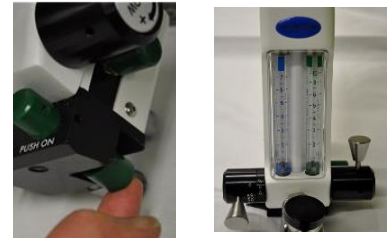
CHECK SCAVENGING SYSTEM *YELLOW*

- YELLOW PIN WHEEL SECURED AT WALL OUTLET
- YELLOW TUBING SECURE AT BASE OF PORTER MXR N₂O BLENDER
- TURN SCAVENGER DIAL "ON" USING YELLOW DIAL
- SUCTION IS HEARD FROM THE SCAVENGER SYSTEM



CHECK POSITIVE "ON/OFF SWITCH" *WHITE OR GREEN*

- PULL BUTTON TOWARDS THE OPERATOR (FRONT)
- POSITION THE FLOW CONTROL KNOB TO ZERO L/min & THE CONCENTRATION KNOB TO ZERO %
- **TURN THE FLOW CONTROL KNOB UP. THE PORTER MXR N₂O BLENDER WILL NOT DELIVER GAS WHEN POSITIVE SWITCH IS "OFF"**
- PREVENTING ACCIDENTAL DELIVERY OF GAS
- **PUSH IN THE "ON/ OFF SWITCH" FOR DELIVERY**



CHECK NITROUS OXIDE FAIL-SAFE SYSTEM

- TURN CONCENTRATION CONTROL KNOB TO 50% N₂O
- THERE SHOULD BE NO FLOW (BALLS DON'T MOVE)
- TURN THE FLOW CONTROL KNOB TO 3-4 L/MIN O₂
- N₂O SHOULD FLOW PORTIONALLY TO THE O₂
- FLOW METRE BALLS SHOULD AT SAME HEIGHT
- INTERRUPT THE OXYGEN SUPPLY BY LOOSENING THE OXYGEN PIN WHEEL AT THE WALL OUTLET
- THE O₂ GAS WILL MAKE A "HISSING" NOISE
- **THE NITROUS OXIDE FAIL-SAFE VALVE MUST INITIATE & THE NITROUS OXIDE FLOW (BALL) DROP AS THE OXYGEN FLOW (BALL) DROPS (L/min)**
- **N₂O FLOW MUST STOP COMPLETELY DUE TO NO OXYGEN (O₂) SUPPLY. DO NOT USE IF CHECK FAILS**
- RECONNECT OXYGEN PIN WHEEL TO WALL OUTLET
- SET CONCENTRATION CONTROL KNOB TO ZERO
- SET FLOW CHILD 5-6L/min ADOLESCENT 6-8L/min



CHECK RESERVOIR BAG ATTACHED TO BAG CONNECTION

- THE RESERVOIR BAG MUST BE INTACT
- INFLATE BAG & INSPECT - 3/4 FULL FOR DELIVERY
- REPLACE BAG** IF CRACKED, TORN OR PERFORATED
- DO NOT USE TAPES TO REPAIR THE RESERVIOR BAG
- DO NOT TIE OR MODIFY THERESERVIOR BAG



CHECK CIRCUIT CONNECTION

- USE DISPOSABLE PATIENT CIRCUIT
- CHECK CIRCUIT INTACT & COMPLETE
- CONNECT BLUE LIMB TO FRONT - FRESH GAS OUTLET
- CONNECT PINK LIMB TO SIDE -RETURN & SCAVENGER
- ENSURE APPROPRIATE SIZE FACE MASK



Troubleshooting PORTER MXR NITROUS OXIDE Blender & Equipment

Problem	Possible cause	Action
NO OXYGEN &/ OR NITROUS OXIDE GAS FLOW	POSTIVE "ON/OFF" SWITCH OFF	TURN POSITIVE "ON/OFF SWITCH" TO "ON" POSITION = PUSH IN
	GAS SUPPLY NOT CONNECTED CORRECTLY, INTERRUPTION OR LEAK IN THE GAS SUPPLY	CHECK OXYGEN & NITROUS OXIDE CONNECTIONS AT THE WALL PANEL & BACK OF PORTER MXR N ₂ O BLENDER IF NOT RESOLVED IMMEDIATELY, STOP PROCEDURE, GIVE OXYGEN
NITROUS OXIDE FLOW METRE WORKING BUT NO OXYGEN FLOW OBSERVED IN OXYGEN FLOW METRE	FAILSAFE MECHANISM MALFUNCTION	REMOVE PORTER MXR N₂O BLENDER FROM CLINICAL AREAS IMMEDIATELY, SEND TO RCH BIOMEDICAL ENGINEERING
GAS LEAKING FROM THE POSITIVE SWITCH ON/OFF	DAMAGE TO THE "O" RING INSIDE THE ON/OFF SWITCH	REMOVE PORTER MXR N₂O BLENDER FROM CLINICAL AREAS IMMEDIATELY, SEND TO RCH BIOMEDICAL ENGINEERING
GAS LEAKING AROUND THE OXYGEN OR NITROUS OXIDE PIN WHEEL OR HOSE AT THE WALL	DAMAGE TO THE PIN WHEEL THREADS OR THE GAS HOSE	REMOVE PORTER MXR N₂O BLENDER FROM CLINICAL AREAS IMMEDIATELY, SEND TO RCH BIOMEDICAL ENGINEERING
RESERVOIR BAG FAILS TO INFLATE	INADEQUATE GAS FLOW PATIENT HYPERVENTILATING RESERVOIR BAG DAMAGED	TURN FLOW CONTROL KNOB UP COACH PT TO SLOW BREATHING REMOVE & REPLACE** DAMAGED RESERVOIR BAG IF NOT RESOLVED IMMEDIATELY, STOP PROCEDURE, GIVE OXYGEN
RESERVOIR BAG OVERINFLATING	CIRCUIT CONNECTION INCORRECT GAS FLOW TOO HIGH PATIENT HYPOVENTILATING	CHECK CIRCUIT NOT REVERSED TURN FLOW CONTROL KNOB DOWN REDUCE N ₂ O CONCENTRATION % ASSESS & MANAGE PATIENTS RESPIRATORY EFFORT & UMSS IF NOT RESOLVED IMMEDIATELY, STOP PROCEDURE, GIVE OXYGEN
HIGH PITCH WHISTLE SOUND	EMERGENCY AIR VALVE INITIATED DUE TO LOSS IN OXYGEN GAS FLOW/ SOURCE	CHECK OXYGEN AND NITROUS OXIDE CONNECTIONS AT THE WALL PANEL & BACK OF PORTER MXR N ₂ O BLENDER IF NOT RESOLVED IMMEDIATELY, STOP PROCEDURE, GIVE OXYGEN

REMOVE PORTER MXR N₂O BLENDER FROM CLINICAL AREAS IMMEDIATELY, SEND TO RCH BIOMEDICAL ENGINEERING IF FAULTY

**Replacement bags Level 3 West Zone N Desk 1216/17 CKP Nitrous oxide equipment Black Box

Contact Kate Austin ext 55776 p7933 email kate.austin@rch.org.au or Karin Plummer ext 55772 p7932