## DENVER VIBRATOR HIGH-CYCLE TROUBLE SHOOTING GUIDE

CONCERN	POSSIBLE CAUSE(S)	POSSIBLE CORRECTIVE ACTION(S)	
Motor will not start &	No output from power supply	Repair power supply as needed	
has no electrical sound	Faulty switch	Replace the switch	
	Broken electrical conductor(s)	Repair open circuits	
	Interrupted circuit in motor	Replace the motor section	
Notor will not start but has	Single phase condition	Refer to "Single Phasing" section	
electrical "hum"sound	Locked bearings	Replace the bearings	
	Vibrator mechanically bound up internal	· · · · ·	
	due to improper direction of rotation	See footnote #1	
Notor runs but unit does	Worn drivers		
		Check and replace drivers as necessary	
not vibrate	Intermittent single phase condition	Refer to "Single Phasing" section	
	Worn bearings	Replace the bearings	
	Low power supply output	Correct output to 180Hz	
	Voltage discrepancy between	Verify vibrator and power supply voltage are	
	vibrator and power supply	the same. See footnote #3	
	Incorrect direction of rotation	Correct direction of rotation. See footnote #1	
	Faulty rotor	Replace the rotor	
	Loose electrical connection	Inspect unit for loose electrical connections	
Excessive mechanical rattling			
		including any sectional connections in handling hose	
	Worn bearings or drivers	Check and replace worn parts	
	Worn bearing bores or journals	Check and replace worn parts	
Jnit does not reach full speed	Worn or binding bearings	Replace the bearings	
and draws high amps	Incorrect direction of rotation	Correct direction of rotation. See footnote #1	
Excessive temperature &	Worn bearings	Replace the bearings	
Abnormal current draw	Single Phase condition	Refer to "Single Phasing" section	
Abnormal current draw	Motor ground or short	Replace motor section	
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	Power supply voltage too high	Correct power supply voltage (output)	
	Voltage discrepancy between	Verify vibrator and power supply voltage are	
	vibrator and power supply	the same. See footnote #3	
Single Phasing	Broken conductor in extension	Locate & repair the defect	
	cord or vibrator assembly		
See footnote #2	Non-contacting / connectivity situation	Check, locate defect, repair or replace	
	at plug, receptacle or connector	as necessary	
	Burned or broken connection between	Locate and repair the defect	
	motor lead and handling hose connector		
	Defective switch	Replace the switch	
	Power cable fatigue failure	Repair or replace as necessary	
Moisture in Motor	Perforated hose	Replace the damaged hose	
Dry out motor parts prior to	Loose handling hose connector union.	Tighten correctly	
re-assembly and re-energizing	Missing or damaged "O" ring(s), loose ho	se Replace the "O" rings, hose clamps, switch box gasket	
motor assembly)	clamp(s), loose switch box cover or gaske		
	Head coming loose at joints	See "Head unscrews at joint while in operation"	
		· · · ·	
Head unscrews at joint while	Incorrect direction of rotation	Correct direction of rotation. See footnote #1	
in operation	Improper tightening of parts after repair	Inspect and tighten all sections as necessary	
	Excessive time with head in tight	Keep vibrator head moving	
	spot against form or rebar	Use smaller head	
ow Vibrator speed	Faulty rotor (open bar in rotor )	Test rotor, replace if defective	
Amp draw normal	Power supply output below 180Hz	Correct power supply output	
Footnotes:		prator will tend to unwind. Rotation is easily checked	
Footnotes:	_	by turning the vibrator "on" as the head sits on the ground in front of the operator.	
		ht. If it moves to the left, the rotation is wrong.	
	The most common cause of incorrect rot	ation is an incorrectly wired extension cord.	
	Whether the fault is in the extension core	Whether the fault is in the extension cord, power supply outlet wiring or unit wiring, by	
	reversing any two power leads you will r	reversing any two power leads you will reverse the direction of rotation.	
	Refer to wiring diagrams for	proper wiring details. See Footnoe #5	
		hecked prior to use for proper direction of rotation.	
	#2 Single Phasing - Indications of single pha		
	vibrator performance while in operation or hum noise but no vibrate when unit is energized.		
	Three phase 180Hz power	is required for vibrator operation.	
	#3 Voltage - Voltage provided by the power	supply must be the same as the vibrator voltage required.	
		The required voltage is stamped into the vibrator barrel over the serial number.	
		Other service information - for any concern not addressed in this brief guide or for	
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	additional help or information please contact the factory service personnel at:		
	Ph. 303-778-8832 or Toll Free 800-392-6703		
		enverconcretevibrator.com	
	#5 Parts & Wiring Diagrams - available on t	he web at www.denverconcretevibrator.com	