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Owner:	
Evaluation Date:	8/1/2026
Completion Date:	8/13/2026
Amp Model:	Mesa Rectoverb 50 (Series 1) Combo
Manufacture Date:	Feb. 2001
S/N:	R50-01377

Owner Comments:
Needs a new fuse. Nothing happens when powered up. When working, reverb sounds weak. Amp had casters, but they have broken off. When casters were in place, amp took lots of shaking moving it around. 2nd owner. No known maintenance history from current owner other than tubes possibly being replaced.

Current Limiter Test:	2.5a fuse initially blown. Fails current limiter test; hard short indicated.
AC Voltage on Chassis:	0.142v (standby mode), 0.138v (play mode)
DC Voltage on Chassis:	0.358v (standby mode), 0.361v (play mode)

Rectifier	Type	Model (if tube)	Tube Tester Result
1	Solid State, Single Rectifier	n/a	n/a

Filter Caps	Brand	Rating	Measured Capacitance	Variance
1	Mesa (UNITED CHEMI-CON)	220uF 300VDC	245uF	10.2%
2		220uF 300VDC	222uF	0.9%
3		30uF 500VDC	33.6uF	9.1%

Preamp Tubes	Model	Tube Tester Result	Measured Plate Voltage	Spec Plate Voltage	Variance
V1a	Mesa 12AX7	20%	197.8	186	-6.0%
V1b			259.6	250	-3.7%
V2a	JJ 12AX7	100%	246.8	249	0.9%
V2b			355.4	359	1.0%
V3a	Mesa 12AX7	15%	204.5	211	3.2%
V3b			404.7	415	2.5%

Reverb	Type	Model	Tube Tester Result
Send	Solid State	5532 Op Amp	n/a
Recovery	Solid State	5532 Op Amp	n/a

Effects Loop	Model	Tube Tester Result	Measured Plate Voltage	Spec Plate Voltage	Variance
V4a	HP 12AX7	100%	322.4	331	2.7%
V4B			280.5	270	-3.7%

P/I	Model	Tube Tester Result	Measured Plate Voltage	Spec Plate Voltage	Variance
V5a	Mesa 12AX7	20%	267.3	266	-0.5%
V5b			271.5	279	2.8%

Power Tubes	Model	Tube Tester Result	Measured Plate Voltage	Spec Plate Voltage	Variance
V1	Sovtek 6L6 WXT+ (r)	90%, but shorted plate	438.5	451	2.9%
V2	Sovtek 6L6 WXT+ (r)	90%	438.8	451	2.8%

Power Tube Bias	Type	Measured Bias Voltage	Spec Bias Voltage	Variance	Bias
V1	Fixed	-47.18	-40	-15.2%	~70%
V2	Fixed	-47.2	-40	-15.3%	~70%

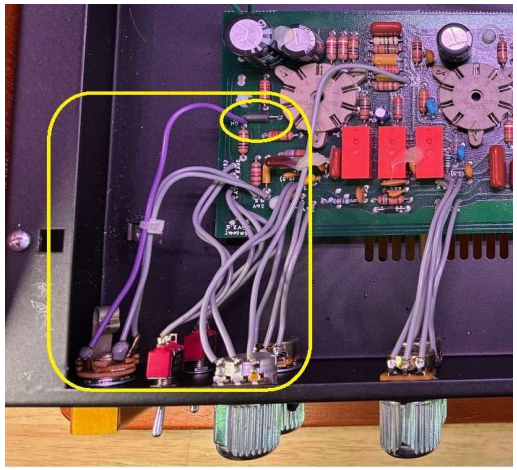
Observations:
Power tubes and several preamp tubes replaced at some point. Has not been actively played in several years. No known mods or overhaul. No notable cabinet damage aside from a broken handle. No exterior visible damage to the chassis. One chassis bolt hanging down 2"-3" but not associated with any component or chassis mount. **2.5a fuse blown on arrival.** Chassis & PCB clean inside. No visible damage to components, however **circuit protection MOV lead has been clipped (disabled)**. MOV is blown indicating a power (AC main voltage) surge at some point. Electrolytic filter caps are Mesa branded and might be original. No electrolyte leakage; capacitance within spec. No cold solder joints. No loose components. One resistor has a minor indication of overheating, however measures in spec. Multiple grounds to chassis (each pot grounded with a star washer). Guitar input wire is not shielded, but is followed by a ferrite bead to filter RF noise. HP branded effects loop send and recovery tube is unusual (60's vintage, NOS $90 - $150). **Hard short inside one of the power tubes.** Reverb sounds sufficient on rhythm channel. Design intentionally limits amount of reverb on lead channel. Reverb appears to be functioning as designed. If additional reverb and/or modulation effects are desired, the effects loop can be leveraged.

Recommendations:
1) Replace 2.5a fuse. 2) Replace V1, V2, V3 & V5 (all 12AX7). 3) Retain HP 12AX7 in V4 (effects loop send & recovery). 4) Replace 6L6 power tubes. 5) Replace clipped MOV --or-- ensure use of a surge protector (best practice and highly recommended if it also includes AC line RF filtration). Note: Mesa is the only major amp manufacturer that uses an MOV for surge protection. The downside of using an MOV is that if there is a surge that blows the MOV, the amp will not be playable until a tech pulls the chassis and replaces the MOV. This could happen in the middle of a gig. 6) Optionally replace guitar input wire with shielded coax; although the ferrite bead should provide sufficient RF filtration. 6) Replace cabinet handle. 7) Clean and lubricate all pots w/DeoxIT. 8) Clean and lubricate foot switches w/DeoxIT. 9) Clean cabinet. 10) Confirm correct speaker polarity.
Rhythm channel has 3 gain stages. Lead channel has 5 gain stages. Consider replacing V1, V2 & V3 with 5751 or 12AT7 to improve headroom and tame the gain, unless high gain (metal) applications are intended. Continue to use a 12AX7 in the PI position. 5751 = 70% of 12AX7 gain. 12AT7 = 60% of 12AX7 gain.

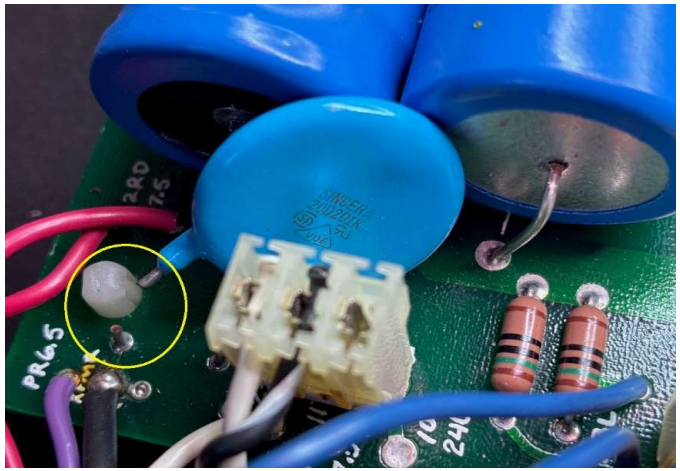
Cost Estimate:	Total	Evaluation Report	Parts	Shipping & Tax	Labor
Option 1	$226.64	n/c	$226.64	calculated at purchase	n/c
Option 2	$246.39	n/c	$246.39	calculated at purchase	n/c

Option 1 Parts List:	Quantity	Unit Cost	Total Cost
2.5a 250v time delay fuse + 2 spares	3	$0.88	$2.64
Mesa Leather Cabinet Handle	1	$21.00	$21.00
Mesa OEM 12AX7 tube	4	$26.00	$104.00
Mesa OEM 6L6GC STR 448 tube (matched pair)	1	$99.00	$99.00

Option 2 Parts List:	Quantity	Unit Cost	Total Cost
2.5a 250v time delay fuse + 2 spares	3	$0.88	$2.64
Mesa Leather Cabinet Handle	1	$21.00	$21.00
3x JJ 5751 tubes (matched, balanced , low noise)	1	$83.85	$83.85
JJ 12AX7 tube (ECC803s, phase inverter)	1	$28.95	$28.95
TAD Black Plate 6L6 (matched pair)	1	$109.95	$109.95



Unshielded guitar input with ferrite bead to filter RF



Clipped MOV (AC voltage surge protection)

Work Performed

1) Replaced 2.5a fuse. Provided 2 spares.
2) Replaced V1, V2, V3 with JJ matched, balanced, low noise & microphonics 5751's.
3) Retained HP 12AX7 in V4.
4) Replaced V5 (Phase Inverter) with JJ with balanced, low noise & microphonics 12AX7.
5) Replaced power tubes with matched pair TAD 6L6GC Blackplates.
6) Installed power tube vibration damper rings.
7) Left clipped MOV disconnected. Use a surge protector instead (best practice for any amp).
8) Replaced cabinet handle with OEM part.
9) Confirmed correct speaker polarity.
10) Cleaned and lubricated all pots with DeoxIT.
11) Burnished all jack contacts to remove oxidation.
12) Tied down loose wires inside cabinet.
13) Cleaned cabinet.
14) Performance tested the amp.

Amount Due	Total	Evaluation Report	Parts	Shipping & Tax	Labor
	$247.39	n/c	$247.39	n/c	n/c

Parts	Quantity	Unit Cost	Total Cost
2.5a 250v time delay fuse + 2 spares	3	$0.88	$2.64
Mesa Leather Cabinet Handle	1	$21.00	$21.00
3x JJ 5751 tubes (matched, balanced , low noise)	1	$83.85	$83.85
JJ 12AX7 tube (ECC803s, phase inverter)	1	$28.95	$28.95
TAD Black Plate 6L6 (matched pair)	1	$109.95	$109.95
6L6 Vibration Damper Rings	2	$0.50	$1.00

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