

Circuit: \* C:\Users\Acer\SIM\last\guitar amp-mod-1.asc

Direct Newton iteration for .op point succeeded.

.step res=10000

N-Period=1

Fourier components of V(out)

DC component:0.000956296

Harmonic Number	Frequency [Hz]	Fourier Component	Normalized Component	Phase [degree]
1	1.000e+03	1.432e+00	1.000e+00	-0.49°
2	2.000e+03	1.247e-02	8.704e-03	-92.11°
3	3.000e+03	5.175e-05	3.613e-05	-179.78°
4	4.000e+03	1.982e-05	1.384e-05	42.49°
5	5.000e+03	1.109e-05	7.740e-06	-0.21°
6	6.000e+03	9.052e-06	6.320e-06	-0.28°
7	7.000e+03	7.761e-06	5.419e-06	-0.11°
8	8.000e+03	6.791e-06	4.742e-06	-0.09°
9	9.000e+03	6.037e-06	4.215e-06	-0.08°

Total Harmonic Distortion: 0.870429%(0.870430%)

N-Period=1

Fourier components of V(out1)

DC component:-0.0133466

Harmonic Number	Frequency [Hz]	Fourier Component	Normalized Component	Phase [degree]
1	1.000e+03	8.429e+00	1.000e+00	-0.33°
2	2.000e+03	1.138e-02	1.350e-03	-91.90°
3	3.000e+03	3.137e-04	3.721e-05	177.68°
4	4.000e+03	1.855e-05	2.201e-06	135.05°
5	5.000e+03	1.109e-05	1.316e-06	-179.86°
6	6.000e+03	9.602e-06	1.139e-06	-179.89°
7	7.000e+03	8.228e-06	9.761e-07	-180.00°
8	8.000e+03	7.198e-06	8.540e-07	179.99°
9	9.000e+03	6.398e-06	7.591e-07	-180.00°

Total Harmonic Distortion: 0.135073%(0.135072%)

N-Period=1

Fourier components of V(out)

DC component:0.000956296

Harmonic Number	Frequency [Hz]	Fourier Component	Normalized Component	Phase [degree]
1	1.000e+03	1.432e+00	1.000e+00	-0.49°
2	2.000e+03	1.247e-02	8.704e-03	-92.11°
3	3.000e+03	5.175e-05	3.613e-05	-179.78°
4	4.000e+03	1.982e-05	1.384e-05	42.49°
5	5.000e+03	1.109e-05	7.740e-06	-0.21°
6	6.000e+03	9.052e-06	6.320e-06	-0.28°
7	7.000e+03	7.761e-06	5.419e-06	-0.11°
8	8.000e+03	6.791e-06	4.742e-06	-0.09°
9	9.000e+03	6.037e-06	4.215e-06	-0.08°

Total Harmonic Distortion: 0.870429%(0.870430%)

.step res=15000

N-Period=1

Fourier components of V(out)

DC component:0.00220104

Harmonic Number	Frequency [Hz]	Fourier Component	Normalized Component	Phase [degree]
1	1.000e+03	1.630e+00	1.000e+00	-0.55°
2	2.000e+03	1.571e-02	9.639e-03	-92.17°
3	3.000e+03	7.077e-05	4.341e-05	-179.62°
4	4.000e+03	2.927e-05	1.795e-05	47.97°
5	5.000e+03	1.464e-05	8.978e-06	-0.19°
6	6.000e+03	1.188e-05	7.289e-06	-0.35°
7	7.000e+03	1.019e-05	6.251e-06	-0.09°
8	8.000e+03	8.917e-06	5.470e-06	-0.06°
9	9.000e+03	7.927e-06	4.862e-06	-0.07°

Total Harmonic Distortion: 0.963905%(0.963906%)

N-Period=1

Fourier components of V(out1)

DC component:-0.0179355

Harmonic Number	Frequency [Hz]	Fourier Component	Normalized Component	Phase [degree]
1	1.000e+03	9.594e+00	1.000e+00	-0.39°
2	2.000e+03	1.208e-02	1.259e-03	-91.74°
3	3.000e+03	4.533e-04	4.725e-05	177.27°
4	4.000e+03	2.426e-05	2.529e-06	134.57°
5	5.000e+03	1.443e-05	1.504e-06	-179.81°
6	6.000e+03	1.263e-05	1.316e-06	-179.88°
7	7.000e+03	1.082e-05	1.128e-06	180.00°
8	8.000e+03	9.464e-06	9.864e-07	179.99°
9	9.000e+03	8.412e-06	8.768e-07	180.00°

Total Harmonic Distortion: 0.125988%(0.125987%)

N-Period=1

Fourier components of V(out)

DC component:0.00220104

Harmonic Number	Frequency [Hz]	Fourier Component	Normalized Component	Phase [degree]
1	1.000e+03	1.630e+00	1.000e+00	-0.55°
2	2.000e+03	1.571e-02	9.639e-03	-92.17°
3	3.000e+03	7.077e-05	4.341e-05	-179.62°
4	4.000e+03	2.927e-05	1.795e-05	47.97°
5	5.000e+03	1.464e-05	8.978e-06	-0.19°
6	6.000e+03	1.188e-05	7.289e-06	-0.35°
7	7.000e+03	1.019e-05	6.251e-06	-0.09°
8	8.000e+03	8.917e-06	5.470e-06	-0.06°
9	9.000e+03	7.927e-06	4.862e-06	-0.07°

Total Harmonic Distortion: 0.963905%(0.963906%)

.step res=20000

N-Period=1

Fourier components of V(out)

DC component:0.00395542

Harmonic Number	Frequency [Hz]	Fourier Component	Normalized Component	Phase [degree]
1	1.000e+03	1.861e+00	1.000e+00	-0.62°
2	2.000e+03	1.989e-02	1.069e-02	-92.25°
3	3.000e+03	9.869e-05	5.303e-05	-179.53°
4	4.000e+03	4.447e-05	2.390e-05	53.65°
5	5.000e+03	1.927e-05	1.035e-05	-0.15°
6	6.000e+03	1.552e-05	8.339e-06	-0.47°
7	7.000e+03	1.331e-05	7.153e-06	-0.05°
8	8.000e+03	1.165e-05	6.260e-06	-0.03°
9	9.000e+03	1.036e-05	5.565e-06	-0.04°

Total Harmonic Distortion: 1.069040%(1.069042%)

N-Period=1

Fourier components of V(out1)

DC component:-0.0243925

Harmonic Number	Frequency [Hz]	Fourier Component	Normalized Component	Phase [degree]
1	1.000e+03	1.095e+01	1.000e+00	-0.47°
2	2.000e+03	1.216e-02	1.110e-03	-91.29°
3	3.000e+03	6.740e-04	6.154e-05	176.74°
4	4.000e+03	3.179e-05	2.903e-06	136.36°
5	5.000e+03	1.933e-05	1.765e-06	-179.72°
6	6.000e+03	1.716e-05	1.567e-06	-179.86°
7	7.000e+03	1.470e-05	1.342e-06	179.99°
8	8.000e+03	1.286e-05	1.174e-06	179.98°
9	9.000e+03	1.143e-05	1.043e-06	179.99°

Total Harmonic Distortion: 0.111202%(0.111201%)

N-Period=1

Fourier components of V(out)

DC component:0.00395542

Harmonic	Frequency	Fourier	Normalized	Phase
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Number	[Hz]	Component	Component	[degree]
1	1.000e+03	1.861e+00	1.000e+00	-0.62°
2	2.000e+03	1.989e-02	1.069e-02	-92.25°
3	3.000e+03	9.869e-05	5.303e-05	-179.53°
4	4.000e+03	4.447e-05	2.390e-05	53.65°
5	5.000e+03	1.927e-05	1.035e-05	-0.15°
6	6.000e+03	1.552e-05	8.339e-06	-0.47°
7	7.000e+03	1.331e-05	7.153e-06	-0.05°
8	8.000e+03	1.165e-05	6.260e-06	-0.03°
9	9.000e+03	1.036e-05	5.565e-06	-0.04°

Total Harmonic Distortion: 1.069040%(1.069042%)

.step res=30000  
N-Period=1  
Fourier components of V(out)  
DC component:0.00987658

Harmonic Number	Frequency [Hz]	Fourier Component	Normalized Component	Phase [degree]
1	1.000e+03	2.459e+00	1.000e+00	-0.81°
2	2.000e+03	3.254e-02	1.323e-02	-92.40°
3	3.000e+03	2.078e-04	8.453e-05	-179.77°
4	4.000e+03	1.146e-04	4.661e-05	64.72°
5	5.000e+03	3.319e-05	1.350e-05	-0.02°
6	6.000e+03	2.596e-05	1.056e-05	-1.22°
7	7.000e+03	2.230e-05	9.070e-06	0.05°
8	8.000e+03	1.953e-05	7.942e-06	0.07°
9	9.000e+03	1.736e-05	7.060e-06	0.03°

Total Harmonic Distortion: 1.323284%(1.323285%)

N-Period=1  
Fourier components of V(out1)  
DC component:-0.0478469

Harmonic Number	Frequency [Hz]	Fourier Component	Normalized Component	Phase [degree]
1	1.000e+03	1.447e+01	1.000e+00	-0.66°
2	2.000e+03	7.440e-03	5.141e-04	-85.26°
3	3.000e+03	1.661e-03	1.148e-04	175.25°
4	4.000e+03	5.624e-05	3.886e-06	155.85°
5	5.000e+03	3.891e-05	2.689e-06	-179.25°
6	6.000e+03	3.627e-05	2.506e-06	-179.89°
7	7.000e+03	3.106e-05	2.146e-06	179.98°
8	8.000e+03	2.717e-05	1.877e-06	179.98°
9	9.000e+03	2.415e-05	1.669e-06	179.99°

Total Harmonic Distortion: 0.052681%(0.052681%)

N-Period=1  
Fourier components of V(out)  
DC component:0.00987658

Harmonic Number	Frequency [Hz]	Fourier Component	Normalized Component	Phase [degree]
1	1.000e+03	2.459e+00	1.000e+00	-0.81°
2	2.000e+03	3.254e-02	1.323e-02	-92.40°
3	3.000e+03	2.078e-04	8.453e-05	-179.77°
4	4.000e+03	1.146e-04	4.661e-05	64.72°
5	5.000e+03	3.319e-05	1.350e-05	-0.02°
6	6.000e+03	2.596e-05	1.056e-05	-1.22°
7	7.000e+03	2.230e-05	9.070e-06	0.05°
8	8.000e+03	1.953e-05	7.942e-06	0.07°
9	9.000e+03	1.736e-05	7.060e-06	0.03°

Total Harmonic Distortion: 1.323284%(1.323285%)

.step res=40000  
N-Period=1  
Fourier components of V(out)  
DC component:0.021713

Harmonic Number	Frequency [Hz]	Fourier Component	Normalized Component	Phase [degree]
1	1.000e+03	3.351e+00	1.000e+00	-1.10°
2	2.000e+03	5.548e-02	1.656e-02	-92.50°
3	3.000e+03	5.145e-04	1.535e-04	178.74°
4	4.000e+03	3.561e-04	1.063e-04	73.96°

5	5.000e+03	5.598e-05	1.670e-05	0.42°
6	6.000e+03	4.069e-05	1.214e-05	-4.94°
7	7.000e+03	3.518e-05	1.050e-05	0.24°
8	8.000e+03	3.088e-05	9.214e-06	0.36°
9	9.000e+03	2.745e-05	8.191e-06	0.18°

Total Harmonic Distortion: 1.655703%(1.655704%)

N-Period=1

Fourier components of V(out1)

DC component:-0.106303

Harmonic Number	Frequency [Hz]	Fourier Component	Normalized Component	Phase [degree]
1	1.000e+03	1.973e+01	1.000e+00	-0.95°
2	2.000e+03	1.959e-02	9.932e-04	74.97°
3	3.000e+03	5.005e-03	2.537e-04	172.81°
4	4.000e+03	1.996e-04	1.012e-05	-151.56°
5	5.000e+03	9.332e-05	4.730e-06	-177.12°
6	6.000e+03	9.753e-05	4.944e-06	179.70°
7	7.000e+03	8.387e-05	4.251e-06	179.99°
8	8.000e+03	7.327e-05	3.714e-06	-179.98°
9	9.000e+03	6.513e-05	3.301e-06	-179.99°

Total Harmonic Distortion: 0.102522%(0.102526%)

N-Period=1

Fourier components of V(out)

DC component:0.021713

Harmonic Number	Frequency [Hz]	Fourier Component	Normalized Component	Phase [degree]
1	1.000e+03	3.351e+00	1.000e+00	-1.10°
2	2.000e+03	5.548e-02	1.656e-02	-92.50°
3	3.000e+03	5.145e-04	1.535e-04	178.74°
4	4.000e+03	3.561e-04	1.063e-04	73.96°
5	5.000e+03	5.598e-05	1.670e-05	0.42°
6	6.000e+03	4.069e-05	1.214e-05	-4.94°
7	7.000e+03	3.518e-05	1.050e-05	0.24°
8	8.000e+03	3.088e-05	9.214e-06	0.36°
9	9.000e+03	2.745e-05	8.191e-06	0.18°

Total Harmonic Distortion: 1.655703%(1.655704%)

.step res=50000

N-Period=1

Fourier components of V(out)

DC component:0.0464269

Harmonic Number	Frequency [Hz]	Fourier Component	Normalized Component	Phase [degree]
1	1.000e+03	4.827e+00	1.000e+00	-1.59°
2	2.000e+03	1.009e-01	2.091e-02	-92.26°
3	3.000e+03	1.699e-03	3.520e-04	173.82°
4	4.000e+03	1.456e-03	3.016e-04	80.63°
5	5.000e+03	7.875e-05	1.632e-05	3.60°
6	6.000e+03	5.259e-05	1.090e-05	-41.56°
7	7.000e+03	3.943e-05	8.169e-06	0.75°
8	8.000e+03	3.526e-05	7.304e-06	2.92°
9	9.000e+03	3.112e-05	6.447e-06	0.93°

Total Harmonic Distortion: 2.091893%(2.091894%)

N-Period=1

Fourier components of V(out1)

DC component:-0.289582

Harmonic Number	Frequency [Hz]	Fourier Component	Normalized Component	Phase [degree]
1	1.000e+03	2.844e+01	1.000e+00	-1.44°
2	2.000e+03	1.448e-01	5.091e-03	78.22°
3	3.000e+03	2.090e-02	7.349e-04	168.53°
4	4.000e+03	1.933e-03	6.798e-05	-126.24°
5	5.000e+03	2.314e-04	8.136e-06	-158.50°
6	6.000e+03	3.532e-04	1.242e-05	177.03°
7	7.000e+03	3.165e-04	1.113e-05	179.83°
8	8.000e+03	2.748e-04	9.663e-06	-179.81°
9	9.000e+03	2.440e-04	8.579e-06	-179.90°

Total Harmonic Distortion: 0.514426%(0.514432%)

N-Period=1

Fourier components of V(out)

DC component:0.0464269

Harmonic Number	Frequency [Hz]	Fourier Component	Normalized Component	Phase [degree]
1	1.000e+03	4.827e+00	1.000e+00	-1.59°
2	2.000e+03	1.009e-01	2.091e-02	-92.26°
3	3.000e+03	1.699e-03	3.520e-04	173.82°
4	4.000e+03	1.456e-03	3.016e-04	80.63°
5	5.000e+03	7.875e-05	1.632e-05	3.60°
6	6.000e+03	5.259e-05	1.090e-05	-41.56°
7	7.000e+03	3.943e-05	8.169e-06	0.75°
8	8.000e+03	3.526e-05	7.304e-06	2.92°
9	9.000e+03	3.112e-05	6.447e-06	0.93°

Total Harmonic Distortion: 2.091893%(2.091894%)

Date: Mon May 09 09:00:46 2016

Total elapsed time: 2.402 seconds.

tnom = 27

temp = 27

method = Gear

totiter = 10131

traniter = 10120

tranpoints = 4961

accept = 4955

rejected = 6

matrix size = 54

fillins = 21

solver = Normal

Thread vector: 27.5/16.0[2] 3.8/3.0[2] 8.0/4.0[2] 1.6/2.0[1] 2592/500

Matrix Compiler1: 4.13 KB object code size 2.6/2.2/[1.7]

Matrix Compiler2: off [1.8]/2.4/4.4