

# Op-Amps that Do and Don't Phase Reverse

## What is Phase Reversal?

Phase reversal happens when the input signals exceed the common-mode input range and negative feedback turns into positive feedback. The result is that the output of the op-amp latches on to one of the rails and stays there until power is removed.

## Op-Amps That Do - BEWARE!!!

Op-Amp	Manufacturer	Notes
OP-77	Analog Devices/PMI	"Improved" OP-07 (see below)
OP275	Analog Devices	Only in non-inv circuits, can be fixed with a resistor in the pos.input line.
TL07x, TL08x	TI, National Semi	Popular, low-cost single (1), dual (2) and quad (4) opamps.
LF412	National Semi	Popular low offset, low drift dual JFET op-amp
LF353	National Semi	Wideband dual JFET op-amp
AD712	Analog Devices	Enhanced replacements for TL082 and LF412
AD713	Analog Devices	Quad version of AD712
LM324	National Semi	Robust and cheap, designed for unipolar supplies

## Op-Amps That Don't

Op-Amp	Manufacturer	Notes
uA741	(many)	But, it's a 741...
1458	(many)	Dual 741 in DIP8
OPA-07	Analog Devices/PMI	But, it's as slow as 741
OP-07	Analog Devices/PMI	See above
OPA132	Burr-Brown	Low noise/distortion
OPA134	Burr-Brown	Very low noise/distortion
OPA277	Burr-Brown	
LT1055	Linear Technology	
LT1637	Linear Technology	

## Note

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