

PART THREE:

Pneumatic Options Littlefoot Engine, 30 minutes

I bought this compressor from a salvage yard and converted it to run as a two-stage engine. The only machining was to put different grooves on the pistons for standard O-ring seals; the original metal piston rings were removed. Everything else was done with hand tools and simple electric tools.

In 2004 I gave my torquerack engine and 2-stage engine to a 13-year old boy who thought they were the greatest thing he ever saw. This video and the drawings are all that's left of them.

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PNEUMATIC OPTIONS RESEARCH LIBRARY AIR ENGINE VIDEOS

PART ONE:

Terry Miller's Spirit of Joplin Air Car, 40 minutes

Terry Miller was the father of the modern air car movement. He is the only air car inventor who has ever made the complete details of his designs available to the public. He sent me this unedited footage shortly before his death. The air cars were destroyed by the people who took over his project.

PART TWO:

Pneumatic Options Torquerack Engine, 11 minutes

I built this engine based on a suggestion by Terry Miller that led to research into rack-and-pinion crankshaft substitutes. The crankshaft has a variable torque output throughout its cycle, whereas the torquerack produces smooth, maximum torque at all times. It has been pointed out that this type of engine would be best suited to slow-cycling stationary engines because of its large reciprocating moving mass.