

RV-7 Common Engine Choices & Lycoming Engine Codes

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Common Engines for the RV-7 or -7A

| Model Number | HP | RPM | Comp. Ratio | Dry Weight ⁽¹⁾ | Fuel Delivery | | Induction | | Form Factor (Valves) | | Propellor | |
|--------------|--------------------|-------|-------------|---------------------------|---------------|----------|-----------|------------|----------------------|-------|-----------|----|
| | | | | | Carburated | Injected | Vertical | Horizontal | Parallel | Angle | FP | CS |
| O-320-D1A | 160 | 2,700 | 8.50:1 | 278-286 | ● | | ● | | ● | | | ● |
| O-320-D2A | 160 | 2,700 | 8.50:1 | 278-286 | ● | | ● | | ● | | ● | |
| IO-320-D1A | 160 | 2,700 | 8.50:1 | 291 | | ● | ● | | ● | | | ● |
| IO-320-D2A | 160 | 2,700 | 8.50:1 | 291 | | ● | ● | | ● | | ● | |
| O-360-A1A | 180 | 2,700 | 8.50:1 | 285-301 | ● | | ● | | ● | | | ● |
| O-360-A2A | 180 | 2,700 | 8.50:1 | 285-301 | ● | | ● | | ● | | ● | |
| IO-360-B1B | 180 | 2,700 | 8.50:1 | 290-308 | | ● | ● | | ● | | | ● |
| IO-360-B2B | 180 | 2,700 | 8.50:1 | 290-308 | | ● | ● | | ● | | ● | |
| IO-360-M1x | 185 ⁽²⁾ | 2,700 | 8.50:1 | 300 | | ● | | ● | ● | | | ● |
| IO-360-M2x | 185 ⁽²⁾ | 2,700 | 8.50:1 | 300 | | ● | | ● | ● | | ● | |
| IO-360-Axxx | 200 | 2,700 | 8.70:1 | 315-326 | | ● | | ● | | ● | | ● |
| IO-390 | 210 | 2,700 | 8.90:1 | 324-335 | | ● | | ● | | ● | | ● |

1 - Dry Weights have come from a variety of sources and vary greatly, therefore their accuracy is questionable.

2 - Due to the use of horizontal cold-air induction, IO-360-Mxx engines typically produce approximately 185HP.

Lycoming Engine Codes

Example: IO-360-A1B6

- I - Injected
- O - Opposed Cylinders
- 360 - Displacement in Cubic Inches
- A - Power Section & Power Rating
- 1 - Nose Section
- B - Accessory Section
- 6 - Counterweight Application

Common Configuration Codes (characters before the displacement)

- I - Injected
- O - Opposed Cylinders
- G - Geared Engine
- T - Turbocharged
- S - Supercharged
- L - Left-turning
- AE - Aerobatic (wet sump)
- H - Helicopter