### PERFORMANCE CHARTS

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### WARNING

Performance information derived by extrapolation beyond the limits shown on the charts should not be used for flight planning purposes.
PA-28-180
CHEROKEE

ALTITUDE CONVERSION CHART

THIS CHART SHOULD BE USED TO DETERMINE DENSITY ALTITUDE FROM EXISTING TEMPERATURE AND PRESSURE ALTITUDE CONDITIONS FOR USE WITH PERFORMANCE CHARTS.
PA-28-180 CHEROKEE

TAKEOFF PERFORMANCE

GROSS WEIGHT 2450 LBS.
PAVED LEVEL DRY RUNWAY
FULL POWER BEFORE BRAKE RELEASE
ZERO WIND FLAPS 25°

EXTRAPOLATION OF CHART ABOVE 7000 FT. IS INVALID

NOTE: SEE SECTION 7 FOR EFFECTS OF AIR CONDITIONING INSTALLATION ON PERFORMANCE.

PERFORMANCE CHARTS
REVISED: JUNE 17, 1974
PA-28-180 CHEROKEE

CLimb Performance

Takeoff Gross weight 2450 Lbs.
Flap position 0°
Power - Full Throttle
Mixture - Lean per Lycoming instructions
85 mph cas

Rate of Climb-FPM

Density Altitude-Feet

0 200 400 600 800

NOTE: See Section 7 for effects of air conditioning installation on performance.
PA-28-180

CRUISE PERFORMANCE - RANGE

GROSS WEIGHT, 2450 LBS.
WHEEL FAIRINGS INSTALLED
48 GAL., USABLE FUEL
BEST ECONOMY
MIXTURE - LEAN PER LYCOMING INSTRUCTIONS
ZERO WIND

<table>
<thead>
<tr>
<th>PERCENT RATED POWER</th>
<th>APPROX. GPH</th>
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<tr>
<td>75</td>
<td>8.8</td>
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<td>60</td>
<td>7.1</td>
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NOTE: SEE SECTION 7 FOR EFFECTS OF AIR CONDITIONING INSTALLATION ON PERFORMANCE.

PERCENT RATED POWER

DENSITY ALTITUDE: FEET

RANGE - STATUTE MILES

75% 70% 60% 75% 70% 60%
PA-28-180 CHEROKEE

ENGINE PERFORMANCE

GROSS WEIGHT 2450 LBS.
WHEEL FAIRINGS INSTALLED
BEST POWER
MIXTURE - LEAN PER LYCOMING INSTRUCTIONS

NOTE: SEE SECTION 7 FOR EFFECTS OF AIR CONDITIONING INSTALLATION ON PERFORMANCE.
PA-28-180 CHEROKEE

CRUISE PERFORMANCE - TRUE AIRSPEED

GROSS WEIGHT 2450 LBS.
WHEEL FAIRINGS INSTALLED
BEST POWER
MIXTURE - LEAN PER LYCOMING INSTRUCTIONS

NOTE: SUBTRACT 3 MPH IF WHEEL FAIRINGS ARE NOT INSTALLED.

DENSITY ALTITUDE - FEET

55% 60% 65% 70% 75%

TRUE AIRSPEED - MPH

NOTE: SEE SECTION 7 FOR EFFECTS OF AIR CONDITIONING INSTALLATION ON PERFORMANCE.

PERFORMANCE CHARTS
REVISED: NOVEMBER 21, 1975

9-6
PA-28-180 CHEROKEE

STALL SPEED

Vs

AIRCRAFT GROSS WEIGHT

POWER OFF

FLAPS RETRACTED

FLAPS 40°

STALL SPEED - MPH CAS

1600 1800 2000 2200 2400 2600

AIRCRAFT GROSS WEIGHT - POUNDS

NOTE: SEE SECTION 7 FOR EFFECTS OF AIR CONDITIONING INSTALLATION ON PERFORMANCE.
PA-28-180
CHEROKEE

STALL SPEED

VS

ANGLE OF BANK

GROSS WEIGHT 2450 LBS.

POWER OFF

FLAPS RETRACTED

FLAPS 40°

STALL SPEED - MPH CAS

ANGLE OF BANK - DEGREES

NOTE: SEE SECTION 7 FOR EFFECTS OF AIR CONDITIONING INSTALLATION ON PERFORMANCE.

PERFORMANCE CHARTS
REVISED: JUNE 17, 1974
PA-28-180 CHEROKEE

GLIDE PERFORMANCE

GROSS WEIGHT 2450 LBS.
PROP WINDMILLING
FLAP POSITION 0° ZERO WIND
85 MPH CAS

ALITITUDE ABOVE TERRAIN — FEET

GLIDE DISTANCE — STATUTE MILES

NOTE: SEE SECTION 7 FOR EFFECTS OF AIR CONDITIONING INSTALLATION ON PERFORMANCE.

PERFORMANCE CHARTS
REVISED: JUNE 17, 1974
PA-28-180
CHEROKEE

LANDING PERFORMANCE

GROSS WEIGHT 2450 LBS.
PAVED LEVEL DRY RUNWAY
POWER OFF  40° FLAPS
ZERO WIND  MAX. BRAKING
APPROACH SPEED 76 MPH CAS

NOTE: SEE SECTION 7 FOR EFFECTS OF AIR CONDITIONING INSTALLATION ON PERFORMANCE.