

ENGINE SPECIFICATIONS

Brake Horsepower	22
Bore	3.50" (88.90mm)
Stroke	2.500 (63.50mm)
Displacement	48.1 (789cm ³)
Compression Ratio	8.0:1
Cranking Compression	130 PSI (896 kPa)
Governor Type	Flyball Type
Rotation (Viewed from fly-wheel)	CW
Spark Plug	Champion RV15YC
Air Cleaner	Paper Cartridge
Spark Plug Size	14mm
Breaker Point Gap	.020" (0.5mm)
Spark Plug Gap	.025" (0.6mm)
Spark Run	28°-31° BTDC
Spark Retard (Static timing)	5° BTDC
Oil Filter	Full Flow
Valve Seat Angle	44° 33'
Valve Face Angle	45°
Valve Timing for .040" (1.0mm) Lash at Valve	Intake Opens 4 degrees 42' B.T.D.C. Intake Closes 39 degrees 40' A.B.D.C. Exhaust Opens 39 degrees 42' B.B.D.C. Exhaust Closed 4 degrees 40' A.T.D.C.

MAXIMUM VEHICLE AND ENGINE SPEED

22 HP ENGINE (SAE hp)

Axle Ratio	Maximum** Vehicle Speed*	Maximum** Engine RPM
4.71:1	39.0 M.P.H. (63.4 km/h)	3750
6.5:1	29.0 M.P.H. (47 km/h)	3750
*8.2:1	22.5 M.P.H. (36 km/h)	3750
10.25:1	18.0 M.P.H. (29 km/h)	3750

*Auxiliary transmission halves speed.

**The engine governor controls are preset to control engine and ground speeds to design limits.



SAFETY WARNING

- To prevent speeds greater than design limits, NEVER alter the governor controls in any manner to increase engine speed beyond 3750 R.P.M.

BATTERY

Volts	12
Ampere Hour Rating	70
Ground Terminal Polarity	Negative

FUEL AND OILS

Gasoline good grade of leaded or non-leaded regular not lower than 87 octane

NOTE

- The engine may last longer if leaded fuel is used.

GASOLINE CONTAINING METHANOL

We do NOT recommend the use of METHANOL bearing fuels in any of our products. The use of these fuels may create a potential safety hazard.

LUBRICANTS

Engine oil use only oils recommended for service SE or SF
SAE 30 above 32° F. (0°C)
SAE 10W below 32° F. (0°C)
Transmission oil SAE 80 above 32° F. (0°C)
SAE 20W below 32° F. (0°C)
Differential oil EP 80-90 Multigrade Lubricant
Pressure gun grease Lithium base
Hydraulic Lift System Type A or F
Transmission Fluid

GEAR RATIOS

Transmission:

High gear	1:1
Second gear	1.6:1
Low gear	2.6:1
Reverse gear	3.5:1

CAPACITIES

Gasoline tank (models 530 & 532) 6.5 gal. (23.6 L)
all other models 6.0 gal. (22.7 L)
Crankcase 2 qt. (1.9 L)
(if filter is replaced 2 1/2 qt. (2.4 L))

NOTE

- The oil level must be kept between the two marks on the dipstick.

Do NOT overfill. Engine overheating and damage may result.

Differential	1 1/2 pt. (0.7 L)
Differential	12 oz. (0.4 L)
Auxiliary Transmission	22 oz. (0.7 L)
Hydraulic System	112 oz. (3.34 L)