

1946-48





# P15-D24 Maintenance

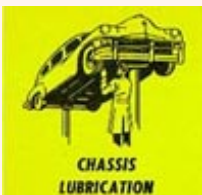
## Tune Up Specifications

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P15 Tune Up	1946	1947	1948	Notes:
Plug Type*	AC 44, Autolite A7, Champion J8	AC 44, Autolite A7, Champion J8	AC 44, Autolite A7, Champion J8	Auto-Lite A7-AN7, Resistor AR-8. AC 45 or 45R is one step hotter than AC44
Plug Gap	0.028	0.028	0.028	Set Resistor Plugs At 0.035 Gap
Ignition Timing	TDC	TDC	TDC	
Breaker Point Gap	0.020	0.020	0.020	
Dwell	38 Deg.	38 Deg.	38 Deg.	
Breaker Arm Spring Tension	17-20 oz.	17-20 oz.	17-20 oz.	
Distributor ID	IGS-4207A-1	IGS-4207A-1	IGS-4207A-1	
Tappet Clearance Intake (Hot)	0.008	0.008	0.008	.010 intake (Cold, initial set up)
Tappet Clearance Exhaust (Hot)	0.010	0.010	0.010	For engine operation at high speed & long periods use .012 for exhaust. (Hot) .013 intake (Cold, initial set up)
Minimum Idle Speed	450 R.P.M.	450 R.P.M.	450 R.P.M.	
Carb Float Height	5/64 inch	5/64 inch	5/64 inch	
D24 Tune Up	1946	1947	1948	Notes:

Plug Type	AC 44, Autolite A7, Champion J8	AC 44, Autolite A7, Champion J8	AC 44, Autolite A7, Champion J8	Auto-Lite A7-AN7, Resistor AR-8. AC 45 or 45R is one step hotter than AC44
Plug Gap	0.025	0.025	0.025	Set Resistor Plugs At 0.035 Gap
Ignition Timing	2 Deg. After TDC	2 Deg. After TDC	2 Deg. After TDC	
Breaker Point Gap	0.020	0.020	0.020	
Dwell	38 Deg.	38 Deg.	38 Deg.	
Breaker Arm Spring Tension	17-20 oz.	17-20 oz.	17-20 oz.	
Distributor ID	IGS-4207A-1	IGS-4207A-1	IGS-4207A-1	
Tappet Clearance Intake	0.008	0.008	0.008	
Tappet Clearance Exhaust	0.010	0.010	0.010	
Minimum Idle Speed	450 R.P.M.	450 R.P.M.	450 R.P.M.	
Carb Float Heighth	5/8 inch	5/8 inch	5/8 inch	

<b>*Spark Plug Information</b>				
Size:	14mm		Torque:	26-32 Lbs.-Ft.
Temp Range	Champion	New Champion	A-C	Auto Lite
Cold	H-9	J-57R	42	A3
	J7, J9		43	A5, Resistor AR5
<b>Normal</b>	<b>J8</b>	<b>CJ-8</b>	<b>44</b>	<b>A7, Resistor AR8 New #295, Resistor #306</b>
	J11		47	
Hot	J12	UJ-12	48	A11, Resistor AR-10



## Lubrication Information

### 1000 Miles or 30 Days

#### Chassis Lubrication

Chassis lubrication is important for long service life and quiet operation. Factory recommendaton was every 1000 miles or 30 days of operation. Want to be sure you lube all the fittings ? Use this list as your road map.

### **Front Wheel Upper Control Arms**

6 fittings, 3 on each side. One for the control arm pin, 1 for front and 1 for rear control arm pivot bar bushing.

### **Steering Knuckle King Pins**

4 fittings, 2 on each side. 1 for upper bushing, 1 for lower bushing.

### **Lower Control Arms**

6 fittings, 3 on each side. 1 for control arm pin, 1 for front and 1 for rear control arm pivot bar bushings.

### **Tie Rods**

4 fittings, 1 for each ball joint rod end.

### **Clutch and Brake Pedals**

2 fittings, 1 for clutch bushing and 1 for brake bushing.

### **Clutch Torque Shaft**

1 fitting at center of torque shaft.

### **Gearshift Control Bellcrank**

1 fitting.

### **Total Fittings: 24**

### **Optional Fittings**

#### **Water Pump**

One fitting, water pump grease only. (Later model replacement pump may have sealed shafts.)

#### **Propeller Shaft Spline**

1 fitting, found front end of rear propeller shaft ( 7 Passanger Only)

#### **Steering Gear Box**

Don't forget to check the steering gear box. Use SAE 90 Gear Lube. If the seal has failed on the kingman and your lubricant runs out, try chassis lube until you can replace the seal. Its better then letting the steering gears run dry.

#### **Crankcase Vent System.**

See [Techtips](#) article

#### **Air Cleaner**

Approximately 1 Quart Motor Oil. ( SAE 50 for 32 degress and above, SAE 20 for below 32 degrees.)

#### **3 Speed Transmission**

Check fluid level.

## **5,000 mi.**

Oil change and new oil filter

## **10,000 mi. or 1 year**

### **Lubrication Of Rear Wheel Outer Bearings**

(Before you perform this maintenance step check our [Tech Tip](#).)

One lubrication point commonly overlooked is the outer bearings on the rear axle. Because no zerk fitting is mounted this maintenance step is usually missed. Behind the brake backing plate is a small bolt tapped into the side of the axle. Remove this bolt and using your grease gun shoot approximately 1/2 ounces into the hole. DO NOT over lubricate as it may force grease past seal on the brake backing plate. Then re-install the bolt. If re-assembling axle and bearing you may need to add additional grease before reinstalling bearing.

### **3 Speed Transmission**

Drain and refill, SAE 90 above average -10 Degrees, SAE 80 for aaverage below -10 degrees.

### **Generator**

5 to 10 drops in oil cup at front.

### **Distributor**

5 to 10 drops in oil cup, 2 -3 drop in oil wick under rotor.

### **Starter**

Oil cup, if used.

### **Front Wheel Bearing**

Inspect, repack and/ or replenish as needed with short fiber wheel bearing grease.

### **Speedometer**

2 to 3 drops #10 weight engine oil applied to oil hole on cable. (Might consider using modern silicone lubricant for cable and housing.)

**Windshield Wiper Pivots**

Inject a few drops of light oil

**15,000 mi. or 2 years**

**Rear Axle Differential**

Drain and refill, SAE 90 above average -10 Degrees, SAE 80 for average below -10 degrees.

**20,000 mi. or 2 years**

**Universal Joints**

Disassemble, clean and repack with heavy fiber Joint Grease.

Speedometer Cable, re lube.

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