Choose the most correct answer for each question. DO NOT WRITE ON TEST

*NOTE: IF ANSWER IS NOT GIVEN. DARKEN IN "E"

GOOD LUCK!!

I BEARING PACK

1.TRUE OR FALSE(wheel)

Bearings are best lubed with white grease.



- 2. The cotter pin goes through a hole in:
- a) the race b) the cone c) the cage d) the spindle e) the drum



3.TRUE OR FALSE

When removing the inner seal the nut and washer should be reinstalled on the spindle and then the hub or drum pulled.



4.TRUE OR FALSE

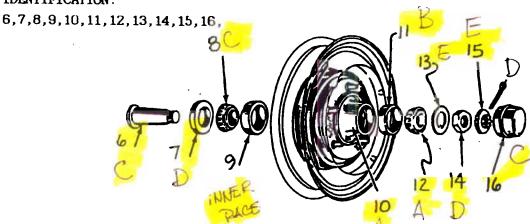
The dust cover should be packed with grease.



5.TRUE OR FALSE

The spindle nut should be tightened as tight as possible and then backed off until there is some play.

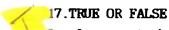
IDENTIFICATION:



CHOOSE THE CORRECT TERM FOR THE ILLUSTRATION

a) Caliper	a)Hub & Drum	a)Outer Cone
b) Cotter Pin	b)Inner cage	b)Outer Race
c) Dust Cover	c)Inner cone	c)Spindle
d) Cotter pin	d)Inner seal	d)Spindle Nut
e) Dust Cover	e)Keeper	e.Thrust Washer

II SAFETY



Coggles are to be worn at all time when using the muffler cut-off tool.



18.TRUE OR FALSE

Wood chisels make good gasket scrapers.



19. TRUE OR FALSE

Oxygen and Acetylene are more explosive than straight oxygen.



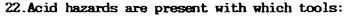
20.TRUE OR FALSE

The tire machine can be hazardous to fingers.



21.TRUE OR FALSE

One should be especially careful around the rubber vibration belt that wraps around the drum when the brake lathe is running.





a) sockets b)dwell meters c)battery load testers d) hydrometers e) cap screws



23.TRUE OR FALSE

Battery acid can be neutralized with a solution of epson salt and water.



24. TRUE OR FALSE

There is no danger of fire when doing a compression test.

III.BRAKE LATHE



- 25. Brake drums can usually be turned up to:
- a) .060 in. b) .060 feet c. diameter x bore d) .1000 e) 60 inches





- a) .060 in. b) according to spec. c) until lugs disappear
- d) at high speed e)only on drum surface



- 27. The part used to eliminate tool chatter on the brake lathe is:
- a) the vibration belt b)tool wrench c) cones d)crossfeed e)static adjuster



28.TRUE OR FALSE

Egg shaped drums are tapered.

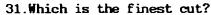


- 29. Drums turned over the maximum can: (worst)
- a) overheat b) explode c) warp d) stretch e) compress



BO. TRUE OR FALSE

The shaft nut on the brake lathe is a reverse thread.





- a) 3/1000 inch
- b).050
- c) 1/4 inch
- d) 1/16in.
- e) .006 in.

IV.BRAKES





- a) pressure b) submerging hose in fluid c) gravity d) pump and hold
- e) air injection



33.TRUE OR FALSE

A pulsating pedal is due to air in the system.



34.TRUE OR FALSE

All drum brake systems self adjust.

- 35. The caliper is the same as _____ in a drum system.
- a) drum b) wheel cylinder c) brake shoe d) hold down
- e) return spring
- 36. Return springs are best removed with:
- a) channel locks b) a vise grip c) a punch d) a brake spring pliers
 - e) a cylinder hone



- 37. The star wheel in a brake drum system is actually a
- a) wheel cylinder b) cup c) check valve d)brake adjuster e)bleeder



TRUE OR FALSE

38.0il on the brake drums is best removed with parts cleaner solvent

IDENTIFICATION

39,40,41,42,43,44,45

A)AIR VALVE

B)BLEEDER SCREW

B)PISTON

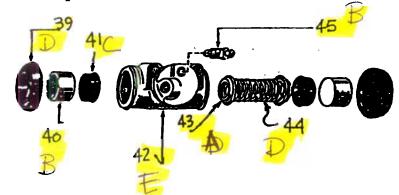
C)CUP

C)RETAINER

D)DUST COVER(BOOT)

D)SPRING

E)END CAP E)WHEEL CYLINDER



46.TRUE OR FALSE

It is good practice to disassemble both brakes on the same axle at the same time.



49



47. Which is NOT a part in the brake system?

a) wheel cylinder b) master cylinder c)cup d) roll pin e) steel line

48. TRUE OR FALSE

Bleeding is a method for adding air to the brake lines. IDENTIFICATION 49,50,51,52,53,54,55,56,57,

A) ANCHOR PIN A)PISTON PIN

B) ADJUSTER SLEEVE B)PRIMARY SHOE

C) BACKING PLATE C) RETURN SPRING

D) BRAKE SHOE RETAINER (HOLD DOWN) D)SECONDARY SHOE

E) CUP E) STAR WHEEL

) CUP E)STAR WHEEL (brake adjuster)

V.OIL CHANGE

58.All of the following are necessary for an oil change excep-

a) oil filter b) fuel filter c) filter wrench d) sticke

e) drain plug



59. True or False

All modern cars have a crankcase capacity of 5 quarts.

1

60.True or False

Oil should be added to within 1 qt. of capacity, the engine started, level checked, and remainder of oil added.



61.True or False

After changing oil. When the oil light goes out the oil filter is pressurized and all parts of the system are filled with oil.



62. Engine Oil level should be checked.

a) with the car in drive b) with the car in neutral c) with the car in park d) with engine running e) after the engine has stopped

63.10W30 is:



a) a designation for gear lube b) trans lube c)straight weight oil

d) multi-viscosity oil e) open gear lube



64.A good interval for oil change is:

- a) every 200 miles b) every 10,000 miles c) every 5,000 miles
- d) never e) every 2,000 miles



65.TRUE OR FALSE

Ligine oil cools, lubricates, and cleans the engine



66 TRUE OR FALSE

The filter should be changed at every oil change



67. TRUE OR FALSE

A stripped out drain plug can be replaced with an oversized drain plug

VI.TOOLS

PICK THE BEST TOOLS FOR THE FOLLOWING OPERATIONS:

68 Removing cotter pin from spindle a)Battery Load Teste	68 Renoving	cotter pin	from soindle	a)Battery	Load Tester
--	-------------	------------	--------------	-----------	-------------

69. Removing inner wheel seal b)Brake Spoon

c)Brake Spring Pliers 70.Installing pistons(IMPACT)

71 Checking cylinders for wear(cone) d)Channel Locks

72. Checking battery specific gravity e) Compression Gauge

73. Checking tire pressure a)Cylinder Taper Gauge

74.Setting point gap(degrees) b)Diagonal Cutters

√ 75. Checking resistance in plug wires c)Dwell meter

76. Setting spark plug gap d)Filter Wrench 77 Reading ignition timing e)Headlight Aimer

78. Measuring pressurein eng.cylinder a) Hydrometer

14 79 Measuring charging voltage b)Mouth

🦰 80 Headlight alignment c XOhmmeter

d)Piece of Hose 81. Fuel Filter Test

82. Removing oil filter e)Ring Compressor 83. Removing brake return spring a)Screwdriver

84. Adjusting brakes (drum-star wheel) b) Spark Plug Gapper

85. Removing spindle nut c)Spindle Nut 86.Installing difficult spark plug d)Timing Light

87. Adjusting air fuel mixture e)Tire Pressure Gauge

VII .TUNE-UP



88.TRUE OR FALSE

You must disconnect the primary wire to the coil before removing the distributor.



89.TRUE OR FALSE

If the distibutor points are pitted you should replace the condensor.



90 TRUE OR FALSE

Brown deposits on the plugs mean that the engine is burning lean.



- 91. Normal compression test readings are:
- a) within 10% of high and low b) above 150psi c) according to manual
- d) all the same e) within 20% of two adjacent cylinders



92.TRUE OR FALSE

Valve timing is changed by turning the distributor.

93. The distributor cam can be checked with:



a)compression gauge b) distributor machine c)timing light d)feeler gauge e)ohmmeter



94.TRUE OR FALSE

A feeler gauge is more accurate for setting points than a dwell meter.



- 95.Backfiring can be caused by:
- a) crossed spark plug wires b) lean mixture c) no air cleaner
- d) bad ballast resistor e) lost rotor



96. The following are necessary for an accurate compression test EXCEPT: a) fully charged battery b.point condition c.open choke d) tight seal at spark plug holes e) turning engine over same number of times



97.BTDC means

a)position of piston before it hits top on compression stroke b)after top dead center c)degrees retarded d)came angle e)point dwell



98.TRUE OR FALSE

A non-magnetic feeler gauge should be used when setting distributor air gap.



99.TRUE OR FALSE

A small amount of distrubutor cam lube should be placed against the rubbing block when installing a new set of points.

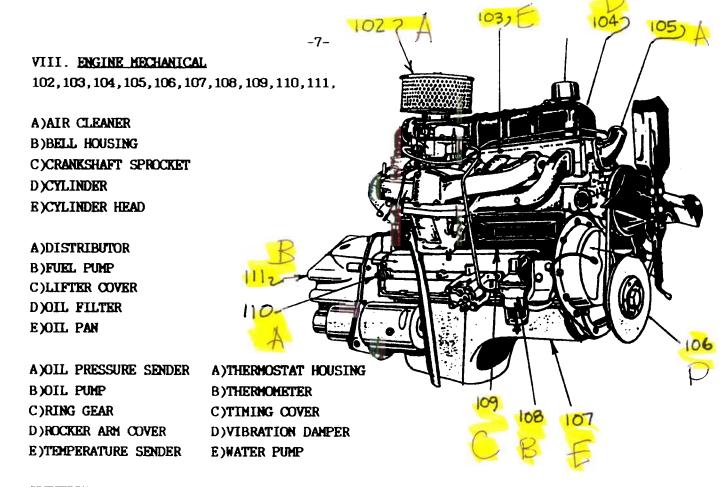


100.AIR GAP refers to the space:

BETWEEN a)rotor and stator b)point faces c)armature and commutator d)relay and ground e)pickup and reluctor



- 101.A low vacuum reading(3-5 in. mercury) usually means
- a) leaking intake manifold b) burnt valve c) late ignition timing d) low turbo boost e) electrical short



IDENTIFY THE ENGINE PARTS IN THE ILLUSTRATION

IX. EXHAUST SYSTEM

112. Piece that connects muffler to catalytic converter

113. Piece that connects the head to the exhaust pipe

b)Catalytic converter c)Crossover pipe

a)Catalyst

114. Valve in the exhaust manifold that deflects hot exhaust gas to base of carburetor to warm fuel mixture. e)Exh.manifold

d)EGR Valve

115. Material that speeds up the rate of a chemical reaction.

a)Exhaust pipe b)Extension

116. Pipe connecting exhaust manifold to the muffler.

c)manifold heat

117. Chamber that exhaust passes to quiet loud sounds.

d)Muffler

riser

118. Pipe used in V type engines to pass exhaust from one side to the other .

e)Tailpipe

119. Unit that contains platinum coated balls that changes carbon monoxide to carbon dioxide and water.

X.FUEL SYSTEM

120.Situation: Car doesn't start Compression OK Spark OK Timing OK Fuel present at: Tank Intake-Fuel Pump Not Present at: Out-Fuel Pump Out-Filter Carburetor



Problem is:

- a) pump diaphragm b) check valve c) plugged line d) clogged filter
- e) air in system



- 121. Testing instrument used to verify problem in
- a) fuel pump tester b)mouth c) vacuum gauge d) flowmeter e) venturi



122. Remedy of problem -#120

a)replace the unit b)reuse the unit c) clean the unit d) bypass the unit e) fill it up



123.TRUE OR FALSE

The In Side of a fuel filter connects to the line coming from the carburetor.



124.TRUE OR FALSE

Most fuel pumps in carbureted cars run at 3-1/2 to 5 p.s.i. pressure.



- 125. When an engine first starts the unit that causes a higher fuel to air mixture is the:
- a) throttle plates b) float c) points d) vacuum advance e)choke



- 126. The unit that lets gasoline enter the bowl is:
- a) the throttle body b) needle and seat valve c) check valve
- d) choke plates e) fuel pump



- 127. A major casting in the carburetor is:
- a) float lever b) bowl c) air filter d) needle and seat e) deflector



128.TRUE OR FALSE

Electric fuel pumps are NEVER located in the fuel tank.



129. TRUE OR FALSE

Fuel Filters for carbureted fuel systems are physically larger.



130. TRUE OR FALSE

Many idling problems can be traced to moisture in the fuel.

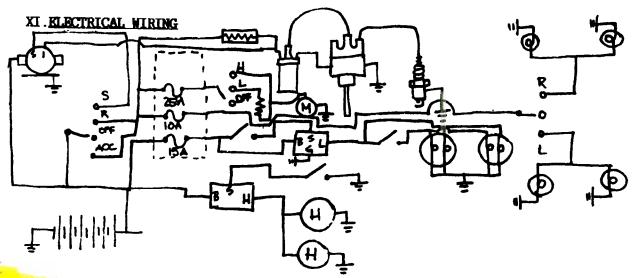


Gasoline loses its burnability after being in a cars tank several years.



132. TRUE OR FALSE

If given the choice a fuel pump will always suck air before fuel.



- 133. Heater circuit is correct and workable
- 134. Dual Horn Circuit is correct and workable
- 135. Turn signal Circuit is complete, correct and workable.
- 136. Headlight circuit is fused
- 137. Ignition circuit has 12 volts in start, 6 volts in run.

A= YES B= NO

XII.METERS

Match the correct meter to following operations:

138.Test spark plug wires.

139. Test Continuity-dead circuit

140.Test Alternator Charging

141. Test Battery condition under working conditions

142. Set Point Gap

143.Set Idle Speed

144 Test Fuel Pump

145. Test Valve sealing in head

146.Set Carburetor idle air mixture

147. Test Strength of battery acid

a)Acid Meter

b)Battery Load

tester

c)Compression

gauge

d)dwellmeter

e)Fuel Pump

pressure tester

a)Hydrometer

b)Ohumeter

c)Tachomter

d) Vacuum gauge

e)Voltmeter

XIII.TIRE MACHINE



148.TRUE OR FALSE

The valve core must be installed to seat the bead on the rim of a tire.



- 149. The tire machine has two foot pedals. One pedal rotates the center shaft and the other one operates the air blast and:
- a) breaks the bead b) puts air to the air hose c) sets the gauge
- d) pulls down the arm e) moves the seating bar.



150.TRUE OR FALSE

It is necessary to tighten the hold down cone to properly break the bead on a tire.



151. The best tool to remove a valve core is:

- a) diagonal cutters b)snap ring pliers c)needle nose pliers d)valve core tool e) Edward Scissorhands
- 152.TRUE OR FALSE



All tires should be filled up to the pressure rating stamped on the side of the tire.



153.TRUE OR FALSE

Deep dished wheels should be mounted upside down on the tire machine when breaking the bead.



154. To avoid ripping the sealing surface of the tire when removing or installing you should always put______on the bead.

a)rubber lube b)Comet c)ammonia d)oil e)brake cleaner

XIV.CLEAN-UP



- 155. The best solution for cleaning up oil is:
- a) hot water, ammonia and some b) hot water c) cold water d) a rag
- e) a broom



156.TRUE OR FALSE

Oil should always be wiped up before mopping.

- 157. Sector SIX is near:
- a) the sink b) the scope c) the blasters d) the loft e) the tool room



158. The LUBE bench is closest to:

a)the drinking fountain b)the tool room c)the hoist d)the long bench e.the bead blasters

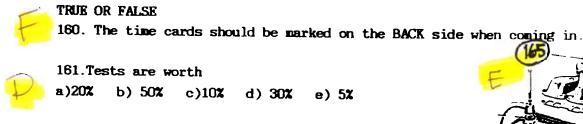


159.Brakes drums should be cleaned in solvent, flushed w/ hot water & TIFIN

e) 5%

- a) assembled b) blown dry c) wiped dry d) rewet
- e) cleaned with gas

XV.TIME CARDS



162. The classroom grade is worth:

a)20% b) 50% c)10% d) 30% e) 5%

XVI . ENGINE - MECHANICAL 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177,

IDENTIFY PARTS IN ILLUSTRATION

a)air cleaner

- b)baseplate gasket
- c)bell housing
- d)cylinder head
- e)distributor

a)exhaust manifold gasket a)oil filter(cannister) b)fuel pump b)oil pan c)counterweight c)oil pump d)float d)oil strainer e)fuel pump e)pushrod

a)rocker arm cover

b)journal b)rocker arm cover gasket

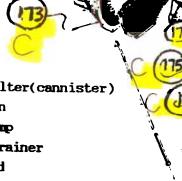
c)valley cover d)vibration damer

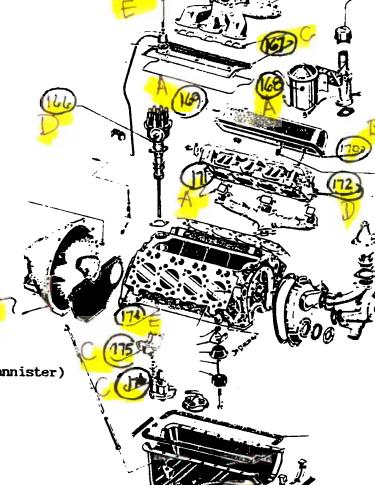
e)oil filter(spin-on) e)NOT GIVEN

a)intake manifold

c) main cap

d)oil filler cap





XVII. MECHANICAL SYSTEMS

Match the following terms with the correct system.

178.Eccentric	a) Accessory Circuits
179.Lobe	b) Air Conditioning
△ 180. Journal	e) Air Induction
€ 181.Race	d) Brakes
8 182. Deck	e) Chassis and Suspension
2 183. Header	a) Engine-Oiling
184.Float	b) Engine-Mechanical
A 185.Drive Gear	e) Exhaust
186. Solenoid/Relay comb.	d) Fuel System
187.Land	e) Starting-Electrical
188 Guide(knurled)	a) Starting Mechanical
A 189.Driven gear	b) Timing
B 190. Ridge	c) Valve Train
	d) Wheels and Tires
XVIII. MANUALS	e) NOT GIVEN

TRUE OR FALSE - THE FOLLOWING CAN BE FOUND IN THE MOTOR'S MANUALS

191. Engine tightening specs.
192. Engine displacement
193. Serial Number location
194. Crankcase capacity
195. Brake, cylinder diameter
196. Ignition point part number.

XIX.LUBRICATION

Match the following parts with the correct lubricant

	197.Ball Joints	a) ATF
D	198.Crankcase	b) Bearing Grease
B	199.Shock absorber bushings	c) Chassis lube
C	200.Door latches	d) Engine Oil
E	201.Engine Bearings(assembly)	e) EP Gear Oil
D	202.Piston Rings(assembly)	a) Graphite
B	203. Wheel Bearings	b) Rubber Lube
D	204.0il filter	c) Stick Grease
F	205.Differentials	d) STP & Oil
A	206.Transmissions(automatic)TH350	e) White Lithium Grease

XXI.BELTS

A = Replace B = adjust

AB

207.Cracks on side of belt

208. Fan on alternator turns by hand

209.Sides of belt hard and glazed

210.Belt sags in between pulleys

XX.HOSES

Rank hoses by size largest = A B C D E = smallest

211.PCV Home

212.Fuel line

213.Heater hose

214.Radiator hose

215.Vacuum hose

XXI.CARBURETUR PARTS

IDENTIFY THE PARTS OF THE CARBURETOR

216,217,218,219,220,221,

a. air horn

b. bowl

c. jet

d. needle and seat

e. not given

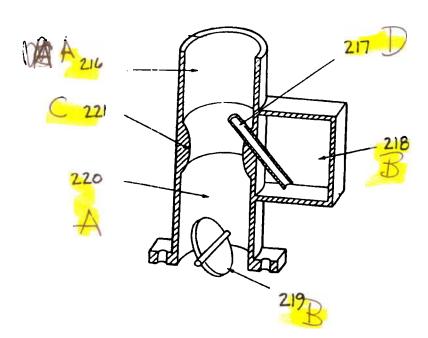
a. throttle body

b. throttle plate

c. venturi

d. vent tube

e. not given





A stuck closed needle valve can contribute to a fire hazard.

XXII.TRANSMISSION



- 223. The smallest gear on the cluster is:
- a) first b) second c) third d) reverse e) synchro
- F
- 224. The Brass part that helps eliminate gear grinding is:
- a) shift sleeve b) blocking ring c) first and reverse slider d) clutch
- e) synchronizer
- 225. The piece used to hold cluster bearings in place while installing the cluster gear into the case is called:
 - a) dummy shaft b) pilot shaft c) bearing retainer d) race e) rollers
- 226. Units found in an electric overdrive unit are all the below EXCEPT:

 a) governor b) shift fork c) planetary gearset d) synchronizer
 e)solenoid
 - 227. Bearings are found in all the following units EXCEPT:
 - a) cluster gear b) pilot shaft c) synchronizer d) mainshaft
 - e) tailshaft
 - 228. A top loading transmission has:
 - a)three levers b)a gasket on the side c)a cover on the top
 - d)first and second in reverse order e) a pilot shaft on top

XXIII.CARBURETOR

- D
- 229. The unit that sucks the gas into the barrel is called:
- a) throttle body b) vent c) accelerator pump d) venturi e) jet
- D
- 230. The unit that lets fuel into the bowl is:
- a)gate valve b)check valve c)exhaust valve d)needle valve e)bowl valve
- 231. Secondary throttle plates are activated by either mechanical linkage or_ assist
 - a) pressure b) spring c) vacuum d) floating e) expandable
 - 232. The BOTTOM casting of the carburetor is:
 - a) the throttle body b) the vent bowl c) the fuel bowl d) the air horn
 - e) the manifold heat riser
 - 233. The assembly that squirts a stream of fuel into the primary venturi is called:
 - a) venturi b) calibrater c) idle screw d)fast idle cam
 - e) accelerator pump

XXIV. FRONT END



- 234. The angle that returns the steering wheel to center position is called
- a) caster b) camber c)king pin inclination d)toe in e)toe out



- 235. The angle that makes the tire narrower on the top than on the bottom is:
- a) caster b)camber c)king pin inclination d)toe in e)toe out



- 236. The angle that makes the fronts of the tires narrower than the rear edges is:
- a) caster b) camber c) king pin inclination d) toe in e) toe out



- 237. All the following are steering parts EXCEPT:
- a) spindle b) tie rod end c) king pin d) ball joint e) no se housing



- 238. A Macpherson strut takes the place of:
- a) tie rod and pitman arm b) spindle and ball joint c)shift sleeve and fork d) clutch and pressure plate e) contact point and rubbing block

XXV. EXHAUST



239. TRUE OR FALSE

The unit that quiets the exhaust sound is the cadillac converter.



240. TRUE OR FALSE

No gasket compound should be used on either side of the donut.



- 241. A straight pipe means:
- a) chambered exhaust b) baffles present c) glass packs d) no muffler
- e) use unleaded fuel only



- 242. The exhaust part that usually causes a popping in the tailpipe is:
- a) coil b) burnt exhaust valve c) bad guides d) bad points e) cracked manifold.

243. A crossover pipe:



- a) equalizes air pressure b) routes exhaust to one side in v engines
- c) maintains pressure in turbo charger d) heats up electric choke
- e) takes the place of the manifold in early cars.

XXVI . KLECTRICAL

244. A SHORT is

- b) a bad ground c) a circuit that grounds too soon a) a bad connector
- e) pitted points d) A bad armature

245. TRUE OR FALSE

You can sometimes find a short with a cheap compass and a flasher.

246. TRUE OR FALSE

The condensor in the distributor keeps the points from pitting.

247. The pick-up and stator are the same as:

a) reluctor and module b) points and distributor cam c) coil and rotor

d) cap and spark plug e) brush and armature

248. The part that charges the battery is:

a) alternator b) starter c) voltage regulator d) hydrometer e) coil

XXVII. IN BETWEENS

249. DRIVESHAFT - DIFFERENTIAL YOKE

a) bell housing b) universal joint c) clutch fork d) spline

e) center bearing

250. PRESSURE PLATE - FLYWHEEL

a) throw out bearing b) pilot bushing c) pilot shaft d) clutch disc

e) nose housing

251. SPARK PLUG WIRE - COIL WIRE

b) condensor c) rotor d) spark plug e) nothing a) points

252. SPINDLE - INNER CONE b) cotter pin c) washer d) seal e) nothing

a) inner race

c) valve guide d) valve stem e) valve cap a) cone b) spindle

XXVIII.DRIVELINE

254. TRUE OR FALSE

253. VALVE CORE - WHEEL

The slip spline is usually on the transmission side of the drive line.



255. TRUE OR FALSE

Front wheel drive cars use constant velocity joints in front of the differential.



256. TRUE OR FALSE

ATF-Dexcron is the same as KP Gear Lube (SAK 90)



257. TRUE OR FALSE

The driveshaft connects the transmission to the differential.



258. TRUE OR FALSE

Most universal joints can be removed with a vise, hammer, and punches.

XXVIX.FUKL SYSTEM



259. If a fuel pump has three tubes coming from its housing they are:

- a) in , out, return b) up, down, in c) carb, bowl, filter
- d) sender, housing, check valve e) through, after, before



260. TRUE OR FALSE

Diaphragm fuel pumps operate from a pulse from the eccentric on the camshaft.



261. TRUE OR FALSE

Big block engines require two fuel pumps.



262. TRUE OR FALSE

A fuel filter that permits flow in only one direction has an internal check valve.



283. TRUE OR FALSE

The sender for the fuel level gauge is located in the fuel tank.

XXX.COOLING SYSTEM



- 284. The part that regulates the engine operating temperature is:
- a) the shroud b) the thermostat c) the radiator d) the lower hose
- e) the radiator overflow tube



285. TRUE OR FALSE

Thermostat gaskets can be cut from the bottom of tin cans.

A

266. The rating of a thermostat is marked

a)on the bottom of the pellet b)on the radiator cap c)on the upper hose d)on the clamp closest to the thermostat housing e)on the thermostat housing



267. The heater control valve regulates water flow to the:

- a) radiator b) thermostat housing c) heater core d) inside of the car
- e) lower radiator tank



268. The water jacket is located in:

- a) the radiator b) the thermostat housing c) the upper tank
- d) the engine block e) the overflow capacitor



XXXI.ENGINE TECHNICAL

269. TRUE OR FALSE

Exhaust valves usually wear out before intakes.



270. TRUE OR FALSE

Hemi headed engines have a wedge shaped combustion chamber.



271. TRUE OR FALSE

L head engines are flat head engines.



272. TRUE OR FALSE

Worn valve stems can usually be refaced by grinding at a larger diameter.



273. TIMING GEARS ARE LOCATED:

- a) in the oil pump b) in the head c) on the crankshaft and camshaft
- d) next to the flywheel e) between the vibration damper and pulley



274. TIMING CHAIN SETS come with:

a)soft plugs b) pulley bolts c) degree wheel d) sprockets e) splines



MARK A for CORRECT SPELLING

MARK B for WRONG SPELLING

- 275. Timing Chain
- 276. Carburetor Bowl
- 277. Fuel Pump
- 278. Caster
- 279. Eccentric
- 280. Cam lobe
- 281. Hammerberg
- 282. Catalyst
- 283. Wheel Bearing
- 284. Mechanical

XXXII.FLEL SUPPLY

1

285. TRUE OR FALSE

Most carburetted car fuel pumps are diaphragm type.

1

286. TRUE OR FALSE

Most fuel injected oil pumps are vane type.

E

287. A car that runs rough at idle following a fill-up might have:

- a)improper camber b) loose bearings c)fuel in the water d) gas in the oile) water in the fuel
- 288. During a fuel pump test the gauge reads 5 psi and drops to zero at each pulse. THE PROBLEM IS:
- a) bad filter b) bad diaphragm c) bad check valve d) bad float e)bad tank



289. TRUE OR FALSE

Most modern day cars have non-vented gas caps.

A

290. Leaking gas tanks should be repaired:

a) by a professional b) when full c) when filled with water d) when filled with sand e) in a bunker

XXXIII.FUEL SYSTEM Carburetor



291. TRUE OR FALSE

The carburetor mixes fuel and air.

B

292. The pressure inside a venturi is ____ than in the bowl.

a) the same b) less c) more



293. The best ratio of air to fuel is about:

a) 2:1 b) 14:1 c) 3:1 d) 1:1 e) 9:1

C

294. The plate that richens the fuel mixture in the carburetor is:
a)accellerator pump b) throttle plates c) choke d) metering rods e)float

295. TRUE OR FALSE

When starting a cold engine the accelerator pump primes the engine with a shot of fuel.



296. Idle air mixture can be adjusted by using all EXCEPT:
a)vacuum gauge b)tachometer c)dwellmeter d)infra red meter e)ear

B

297. Normal vacuum reading at idle for a new engine is:

a) 3 psi. b) 18-22 in. c) 5psi. d) 550 rpm e)30 degrees



298. TRUE OR FALSE

A properly running engine should die when the idle air screws are turned all the way in.



277.TRUE OR FALSE

White smoke from the throat of the carburetor indicates raw fuel.



300. Blue smoke from the tailpipe means:

a)rich mixture b) lean mixture c) bad piston rings/guides d) bad valve faces e)wrong firing order



301, TRUE OR FALSE

Most fuel filters have an "INLET" side and an "OUTLET" side.



302. All the following are types of fuel filters EXCEPT:
a)copper wound b)in-line c)bronze d)paper e)cannister



303. TRUE OR FALSE

Excessive fuel consumption can be caused by a clogged exhaust passage in the intake manifold.(v type engines)



304. All of the following are types of automatic chokes EXCEPT:
a)thermostatic coil b) electric c) water temp. activated d) cable



305. TRUE OR FALSE

A correctly adjusted automatic choke plate should have slight tension when the engine is HUT.



- 306. The unit that sets curb idle speed and closes the throttles when the engine stops is the:
- a) accellerator pump b)needle and seat valve c) float d)idle air screwe)idle/stop solenoid

a.air nozzle

b.EAR

c.50-100 PSI PRESSURE GAUGE

307. adjusting float level
308. testing fuel filter
309. cleaning air filter
310. adjusting idle air screws
311. testing electric choke
312. tightening baseplate to max
313. testing fuel pump pressure
314. testing fuel gauge
315. testing idle stop sol
316. testing air file d.MOUTH e.PLIERS

312. tightening baseplate to manifold

a.PRESSLRE/VACULM GALGE

b.9DREWDRIVER C.TACHOMETER

d. TEST WIRE TO GROUND e.TROUBLE LIGHT AND EYES

318. The sensor that tells richness of the combustion mixture is the:

- a) pressure sensor b) temperature sensor c) EGR Valve d)Oxygen sensor
- e) timing sensor

319. The sensor that tells the computor WHEN to fire the injector is THE:

- a) pressure sensor b) temperature sensor c) EGR Valve d)Oxygen sensor
- e) timing sensor

320.TRUE OR FALSE

Carburetors are more efficient than electronic fuel injection systems.

XXXV.STEERING

321 TRUE OR FALSE

The piece that supports the steering linkage to the frame is the idler arm.

322.If you grab the sides of a jecked up tire you are checking.

- a) suspension b) steering c) steering and wheel bearing
- d) shock absorbers e) tire pressure

323. If you push up on the center link and the center link and tie rod ends and sleave move together it is possible that the _____is worn out.

a) a frame b)idler arm c)steering column d)shock absorber e)ball joints

324.Steering wheels are best removed using:

- a) goar puller b) steering wheel puller c) jaw puller d) steel punch
- e) impact driver

325 TRUE OR FALSE

Before removing a steering wheel it is important to mark the center of the steering wheel, and steering shaft with a center punch.

326.TRUE OR FALSE

Time rod ends are removed from center links and spindles with a pickle fork.

327 TRUE OR FALSE

The height of a car can be changed by tightening or loosening a tension adjuster on a torsion bar.

328.9way bars are mounted:

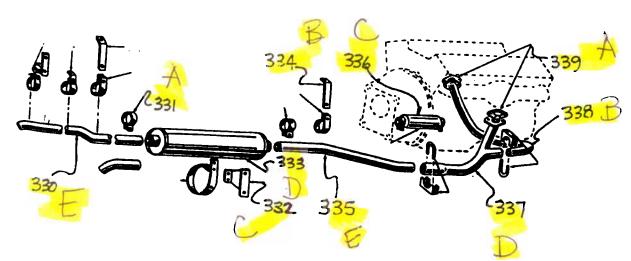
a)directly to the frame b) to the shock absorbers c) in rubber sleeves or bushings d) to both upper control arms e) only in the center

329, TRUE OR FALSE

It is almost impossible to align a car if it has two different size tires on the same axle.

XXXVI .EXHALET SYSTEM

330,331,332,333,334,335,336,337,338,339,



IDENTIFICATION

A.CLAMP

B.CROSSOMER PIPE

C.EXHAUST BRACKET

D.EXHALET PIPE

E.EXTENSION PIPE

A.FLANGE GASKET

B.HANGER

C.HEAT SHIELD

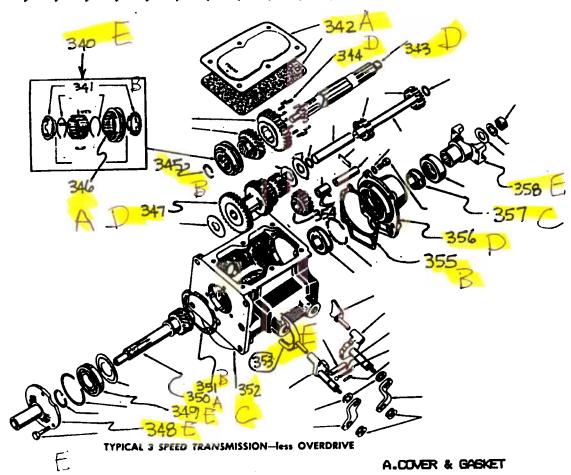
D.MLFFLER

E.TAIL PIPE

XXXVII. TRANSMISSION PARTS

IDENTIFICATION

340,341,342,343,344,345,346,347,348,349,350,351,352,353,354,355,356,357,358,



B.BLOCKING, RING

C.BUSHING

D.CLUSTER GEAR

E.CLUSTER SHAFT

A.PILOT SHAFT

B.REAR TRANSMISSION SEAL

C.REVERSE IDLER

D.ROLLER BEARING

E.SHIFT FURK

E.NOT GIVEN

B.GASKET

C.GEARBOX

D.MAINEHAFT

E.PILOT HOUSING

A.SHIFT SLEEVE

B.SNAP RINE

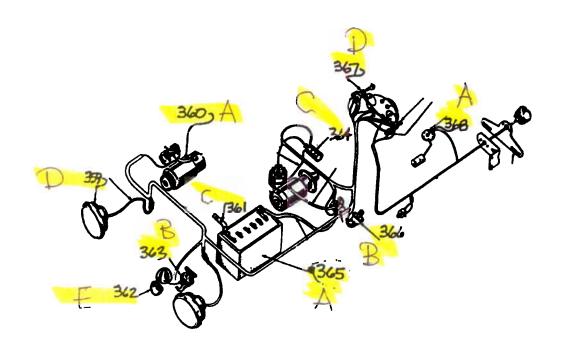
C.SPEEDOMETER GEAR

D. TAIL HOLSING

E.YOKE

XXXVIII. ELECTRICAL WIRING

359,360,361,362,363,364,365,366,367,368,



IDENTIFICATION

A-BATTERY ,

B.DIMMER SWITCH

C.GROUND STRAP

D.HEADLIGHT

E.HURN

A.FLEL TANK SENDER

B.HORN RELAY

C. IGNITION COIL

D. IGNITION SWITCH

E.PARKING LIGHT

A.STARTER

B.STARTER RELAY

C.STOP LIGHT SWITCH

D.TAILLIGHT

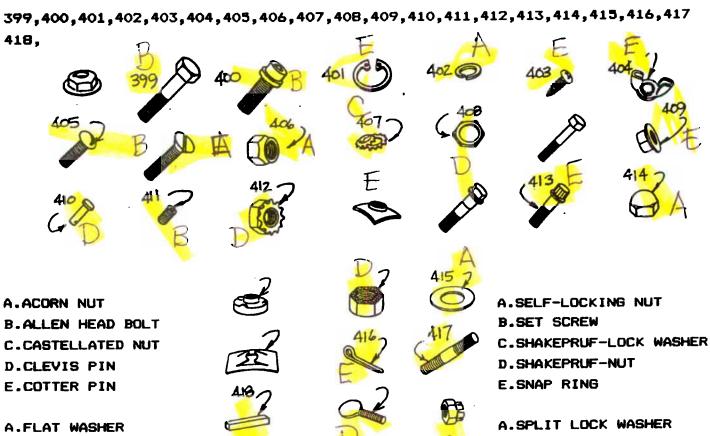
E.WIRING HARNESS



375.MACHINIST HAMMER 396.STETHESCOPE 397.HOLLANDER MANUAL 398.BLOW GLIN

A.RED BOX B.TIRE MACHINE C.TOOL ROOM D. WALVE BENCH E.NOT BIVEN

XXXXI. FASTENERS **IDENTIFICATION**



E.PHILLIPS HEAD SCREW

B.HEX HEAD CAP SCREW

C.KEY

D.JAM NUT

XXXXII.BEST PRECISION MEASURING TOOL

419. INSIDE DIAMETER OF HUB 420. POINT GAP A 421. CRANKSHAFT END PLAY 422. CYLINDER TAPER 423. HEAD WARPAGE 424. VALVE STEM OUT OF ROUND

425. COOLANT TEMPERATURE E 426. CRANKSHAFT JOURNAL DIAMETER

427. BEARING DIL CLEARANCE

428. BRAKE DRUM OVERSIZE

429. FRAME HEIGHT

430. CAMBER ANGLE

B.STOVE BOLT

C.STUD

D. THUMBSCREW

E.WING NUT

E. NOT GIVEN

A. ALIGNMENT HEAD

B. BRAKE MICROMETER

C. CALIPER(INSIDE READ)

D. CYLINDER TAPER GAUGE

E. DIAL INDICATOR

A. FEELER BAUGE

B. MICROMETER

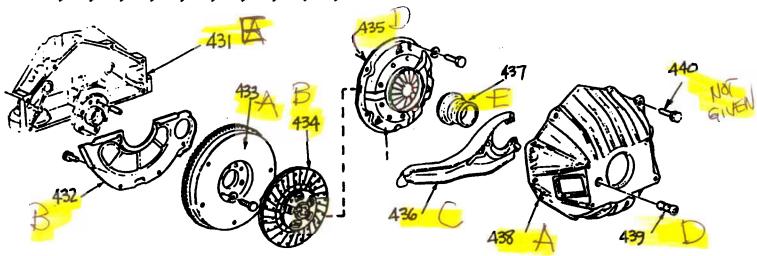
C. PLASTIGAGE

D. RULER

E. STRAIGHTEDGE/ FEELER GAUGE

XXXXIII.CLUTCH IDENTIFICATION

431,432,433,434,435,436,437,438,437,440,



A.BELL HOLSING

B.CLUTCH DISC

C.OLUTCH FORK

D.CLUTCH FORK STUD

E.ENGINE BLOCK

XXXXIV. COOLING SYSTEM

IDENTIFICATION

441,442,443,444,445,446,447,448,449,450,

A. FAN
B. FAN BELT
C. HEATER CONTROL
D. HEATER CORE

E. NOT GIVEN

E. GASKET

A.FLYWHEEL

B. INSPECTION COVER

C.PILOT BUBHING

D.PRESSURE PLATE

E.THROW OUT BEARING

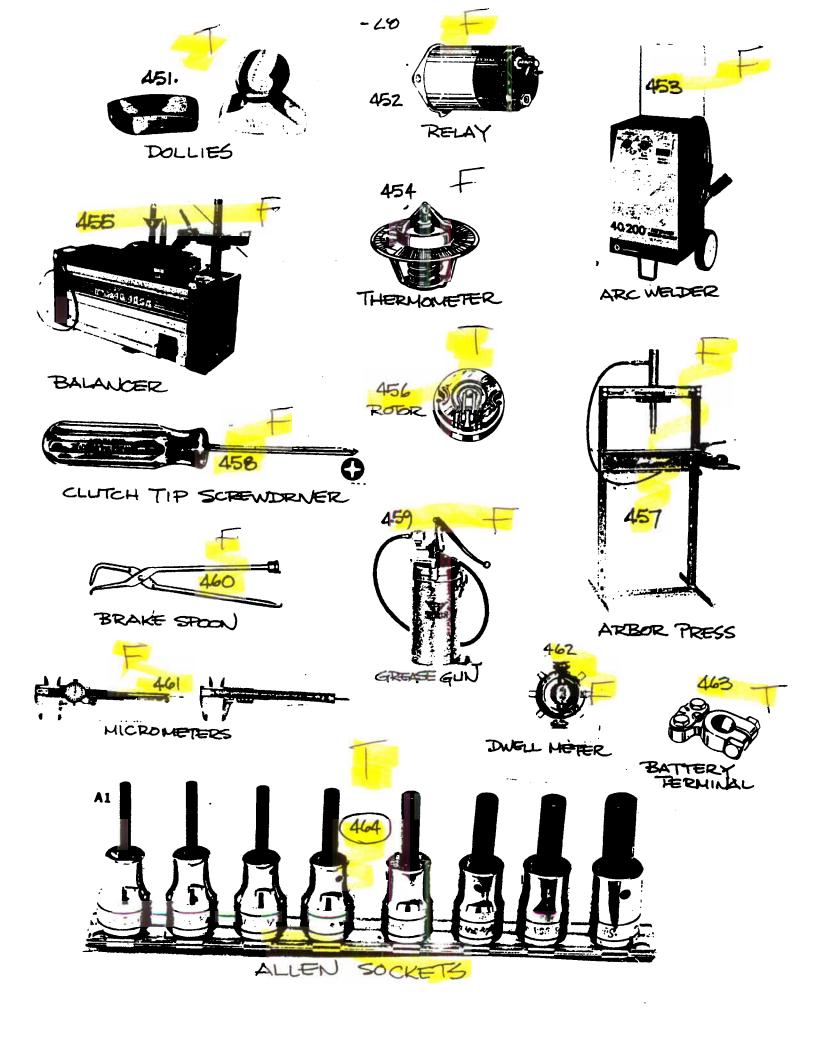
A. LONER RADIATOR HORE

B. RADIATOR CAP

D. THERMOSTAT

E. UPPER RADIATOR HOSE

E. THERMOSTAT HOUSING





VALVE SPRING



BATTERY FILLER



DEEP SOCKETS

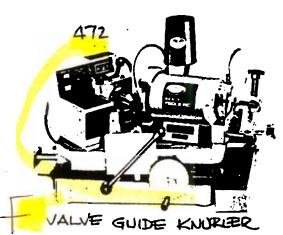


MULTIMETER





CHAMOIS





PEASE GUN

BATTERY LOAD TESTER

473 W



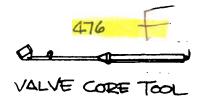
475



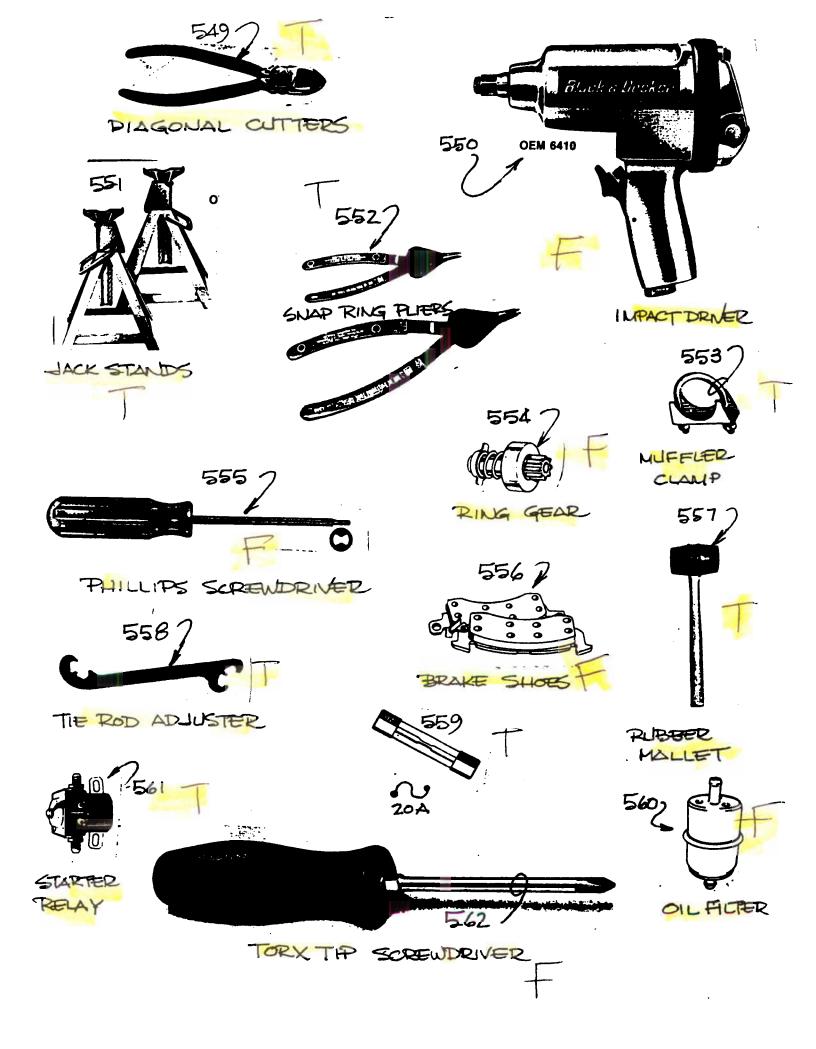
TIMING LIGHT

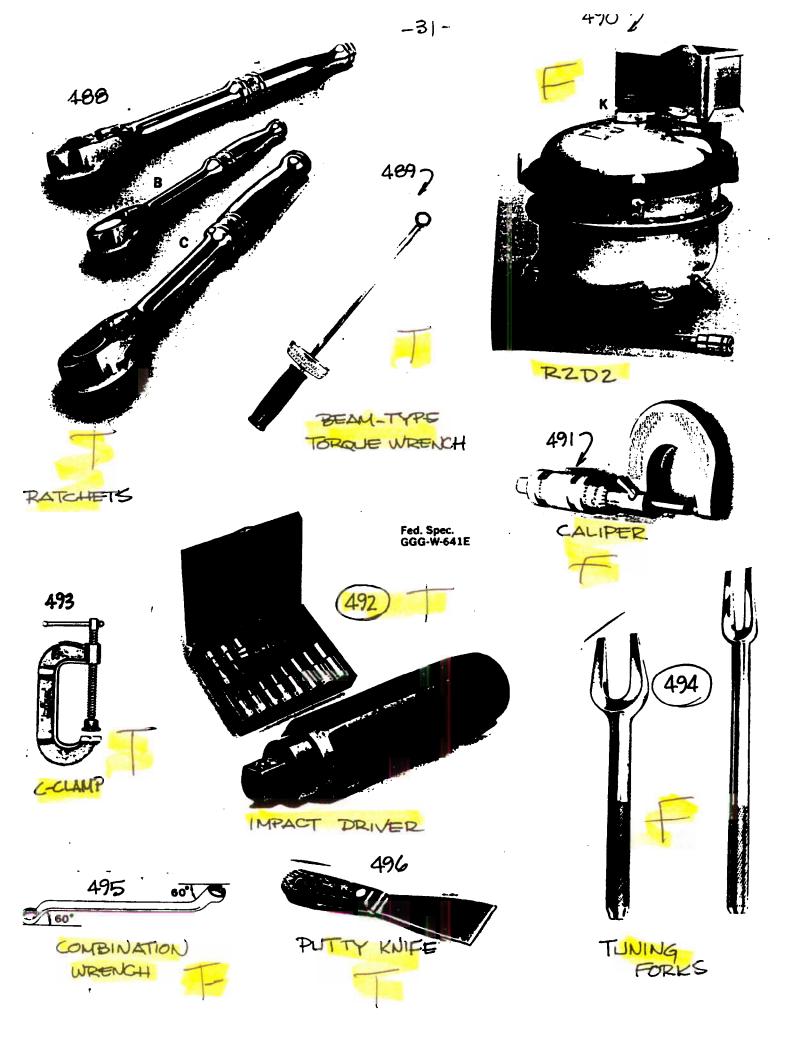


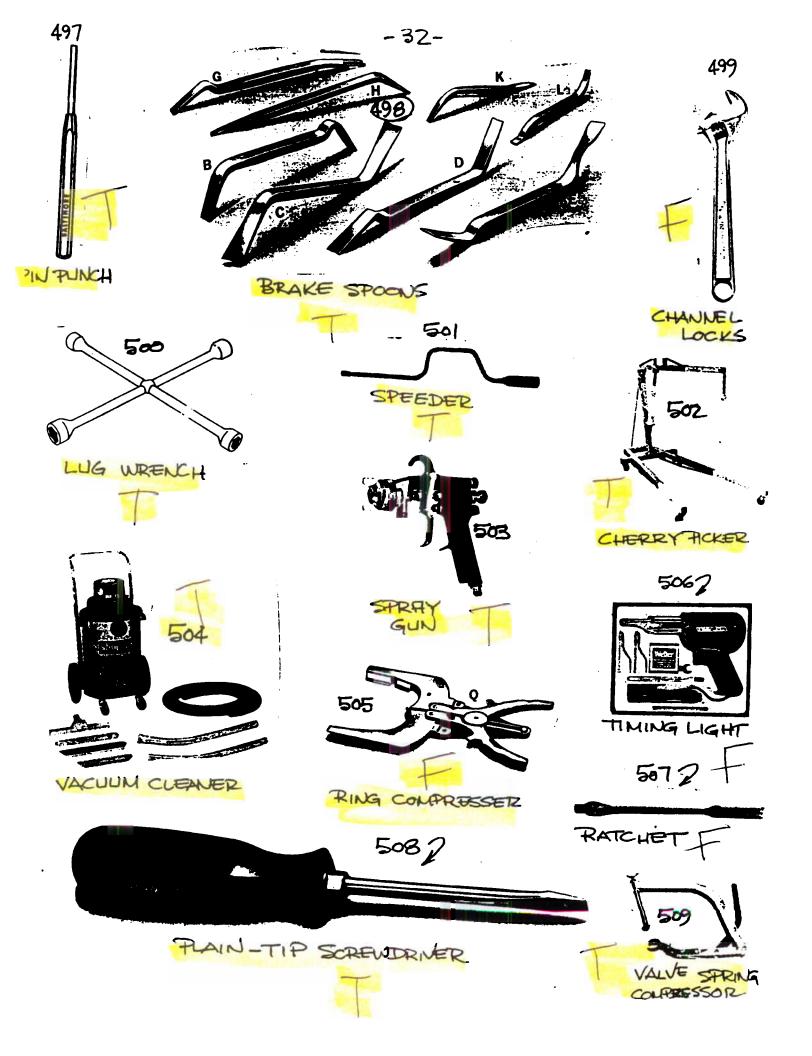
VALVE LAPPERS

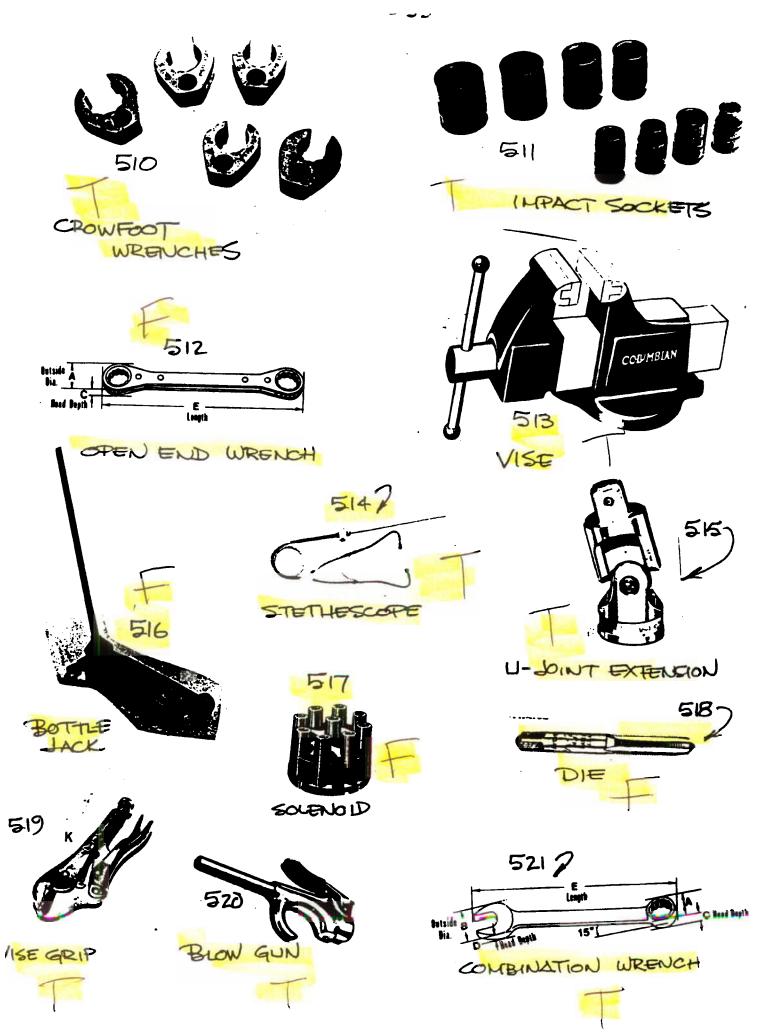


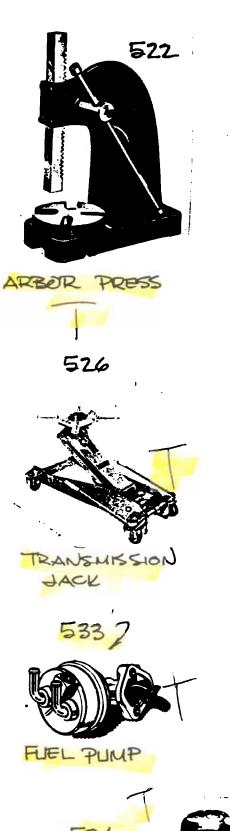
IGNITION SWITCH

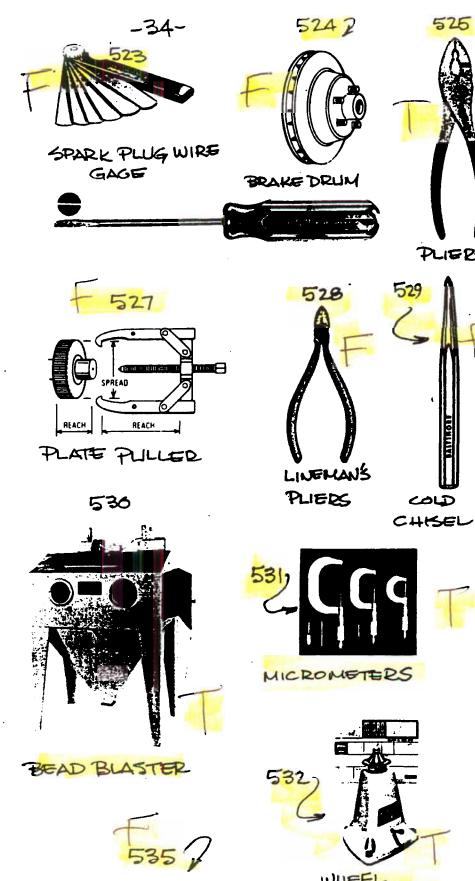


















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PLIERS

UNIVERSAL WRENCHES



