

OPERATION AND MAINTENANCE MANUAL

MODEL: R 6-80
SERIAL NO. : 83222 - 88117
MANUAL NO. : MR-680-00

- IMPORTANT -

READ AND FOLLOW INSTRUCTIONS GIVEN
IN SAFETY & OPERATIONS AND THOSE
SECTIONS RELATED TO YOUR SERVICE
AND REPAIR RESPONSIBILITIES



TAYLOR - DUNN
Commercial and Industrial Vehicles Since 1949

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IMPORTANT INFORMATION

This vehicle conforms to applicable portions of ANSI B56.8 (American National Standard Personnel and Burden Carriers). This manual is designed for use by Vehicle Operators and Service Personnel alike. Throughout the manual, there are various WARNINGS, CAUTIONS, and NOTICES which must be carefully read to help reduce the possibility of personal injury. Maintenance personnel must understand that if a service procedure or method is used that is not recommended by Taylor-Dunn, it then becomes the personal responsibility of the person performing the work to first satisfy himself that neither his safety, the safety of others, or the safety of the vehicle will be endangered. ANSI B56.8 applies to only those vehicles with serial numbers dated after July 31, 1982.

Definition of the three terms are as follows:

WARNING - There is a potential for injury to yourself and others.

CAUTION - There is a potential for damage to the vehicle.

NOTE - Specific information clarifying or giving the reason for a particular maintenance or service procedure.

Before operating your Taylor-Dunn vehicle, it is your responsibility to read, understand and follow the safety and operating instructions contained in this manual to help ensure your safety and comfort. If this car is to be used for rental purposes, it is your responsibility to explain to the operator about the various controls and vehicle operating characteristics. Equally important is the operators "need to know" the basic rules required for safe operation of the vehicle in day to day usage. Sections 5 and 6 of ANSI B56.8 have been inserted in Section 3 page 3 of this manual for your specific operating guidelines.

1. Vehicle is to be operated only by qualified persons and only in designated areas.
2. Vehicle will not be started until all occupants are seated.
3. Occupants must remain seated while vehicle is in motion.
4. Arms, legs and feet must be kept inside while vehicle is in motion.
5. Slow down making a turn.
6. Drive slowly straight up and down inclines.
7. Set parking brake before leaving vehicle.
8. Forward/Reverse switch must be in the correct position for direction of travel desired.

WARNING: FAILURE TO COMPLY WITH ABOVE INSTRUCTIONS COULD RESULT IN INJURY TO THE VEHICLE OCCUPANTS, BYSTANDERS AND TO PROPERTY.

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INSPECTION, SAFETY AND INTRODUCTION
ARRIVAL INSPECTION CHECKLIST

Visual Inspection should be made to determine that the truck has remained in good condition during transit. If any damage is found, the details should be noted on the delivery receipt immediately. After delivery the truck should be most carefully checked for HIDDEN DAMAGE. Any concealed damage not noted on the delivery receipt should be reported, in writing, to the delivering carrier within 48 hours.

The following checklist has been prepared to aid you during arrival and inspection of your vehicle.

- A. Open all packages and examine any accessories which may be shipped detached from vehicle.
- B. Examine wiring for visible evidence of damage. Check all connections to insure that none have loosened during transit.
- C. Check all battery connections and electrolyte level in each cell.
- D. Check tires for damage and proper inflation. Check wheel lugs to insure tightness.
- E. Examine entire vehicle for damage such as dents or cracks.
- F. Check operation of controls to see that they are working freely.

Upon completion of the Visual Inspection, an operational test should be made after a thorough review of Sections 1, 2 and 3.

SAFETY

The safe and satisfactory use of any vehicle is a responsibility shared by many persons.

As the manufacturer, we feel that it is our responsibility to emphasize vehicle characteristics and make safety recommendations regarding those characteristics. That is the primary purpose of this portion of the manual.

Persons who operate this vehicle need to be aware of, and to observe, the safe driving rules established in their locality, and need also to be aware of the vehicle operating characteristics and safety recommendations of the manufacturer, to assist them in exercising the judgement necessary to prevent injury to themselves or to others.

IMPORTANT: Persons who service and maintain the vehicle need to be aware of how their activities relate to safe vehicle operation, and of potential hazards involved in their service and maintenance processes, to assist them in applying sensible judgement to those processes.

STEERING: This vehicle has a very small minimum turning radius, and low ratio steering leverage.

CAUTION: These characteristics, so desirable for maneuverability at slow speeds, require that great care be exercised at high speeds to avoid turning so sharply that one or more wheels lose contact with the ground, or that the vehicle is caused to overturn. Be especially careful while traveling on an incline. Avoid sharp turns, even at slow speeds.

INSPECTION, SAFETY AND INTRODUCTION (continued)
SAFETY

SPEED: This vehicle is designed to attain its maximum safe operating speed on level ground. That speed can easily be exceeded when traveling down hill. If this is allowed to occur, vehicle stability and braking performance become unpredictable. **WARNING: DO NOT** exceed, under any circumstances, the maximum design speed of the vehicle.

CONTROLS: Bring the vehicle to a complete stand still before operating the forward/reverse switch to change direction of travel. **DO NOT** use the accelerator to hold the vehicle at a standstill on an incline. Use only the brakes to hold the vehicle at rest while on a hill. **WARNING: intentional/unintentional mis-use of controls could result in an accident.**

BRAKES (MECHANICAL DISC): The brake system relies on contact of rear tires with the ground for effectiveness. As tire to ground contact is reduced, braking effect is reduced. While driving, the operator must consider terrain, speed and steering maneuvers to prevent tires from losing contact with the ground, with consequent reduction of braking action.

MAINTENANCE: Many operating characteristics relate to maintenance in ways which are not readily obvious. Those maintenance characteristics most closely related to vehicle operating safety are indicated in Sections 3 and 4.

CAUTION: Also to be considered is the safety of personnel who perform service and maintenance duties. Two characteristics need special emphasis.

1. Disconnect battery leads to avoid unintentional starting of the motor during servicing or maintenance.
2. Batteries emit gasses which can be explosive, especially while they are being charged. Personnel who are involved with servicing vehicles, or maintaining vehicles, need to be made familiar with this hazard. A detailed explanation is contained in Section 7.

WARNING:

1. When performing maintenance on any part of the vehicle electrical system, disconnect main battery leads. Remove key from keylock in dash panel.
2. Never replace a circuit fuse with one having a higher rating than the original equipment fuse. Fuses have been selected to provide full circuit protection for all operating conditions. **A FUSE WILL ONLY BLOW DUE TO A SHORT CIRCUIT.** Therefore, always locate and correct the cause of short-circuit before replacing a blown fuse. Using a fuse of higher rating is an **UNSAFE PRACTICE** and could cause serious damage to equipment.

INTRODUCTION

This vehicle is designed to be driven on smooth surfaces in and around industrial plants, nurseries, institutions, motels, mobile home parks and resorts. It is not designed to be driven on the public highways. It is not designed to go in excess of 15 mph on level surfaces or downhill. Speeds in excess of this may result in steering difficulty and possible loss of vehicle control. Vehicle is not designed to be towed in excess of 15 mph.

SERIAL NO.

The model number and serial number are on a decal attached to the cowl panel right of the steering column. In ordering parts or referring to your unit, please use these numbers. Replacement parts can be purchased directly from your local authorized dealer.

SPECIFICATIONS

ITEMS	DESCRIPTION
Dimensions (L x W x H)	248.9 X 112 X 118.1 cm (98 X 44-1/2 X 46-1/2in)
Dry weight	307 kg (675 lbs.)
Turning radius	2,900 mm (114 in)
Hill climbing ability	up to 25%
Lubrication system	Wet sump
Engine Oil capacity	1.4 L (1.5 US qt) - 1 qt. revised 11-4-94
Oil required	SAE 10W30 type SE or SF motor oil
Fuel tank capacity	24.0 L (5.3 Imp gal, 6.3 US gal)
Fuel required	Unleaded regular gasoline only
Ignition system	TCI
Spark Plug type	B5ES (NGK)
Spark Plug gap	0.7 approx. 0.8 mm (0.028 approx. 0.031 in)
Transmission system	Automatic variable-pitch V-belt transmission Double reduction helical gear 13.65 : 1
Brakes	Mechanical brake linkage to individual drum brakes on each rear wheel with self-adjusting brake shoe. Parking brake with automatic release.
Engine	Model G2-A 4 stroke 1 cylinder
Tire type	4.80 x 8 Load Range B - 4 ply
Tire pressure	0.8 kg/cm ² (12 psi)
Maximum loading limit	1150 lbs (523 kg) includes passengers
Battery	Group 24, minimum 48 amp. hour (Note: The positive terminal must be in the top right corner of the battery top to allow proper installation.)

OPERATING INSTRUCTIONS

The controls on your Taylor-Dunn vehicle have been designed and located for convenience of operation and efficient performance. Before driving your vehicle for the first time, familiarize yourself with each of the controls. Read the following instructions and with power OFF, operate each control.

STEERING

The steering wheel and steering system is similar to automotive types. Turn the steering wheel to the right (clockwise) for a right turn and left (counterclockwise) for a left turn.

KEY LOCK

Your vehicle is equipped with a keyed lock located on the instrument panel. It is designed to lock the switch in the neutral position only. The key will remove from the lock in the locked position (neutral) only.

SERVICE BRAKE (FOOT)

The brake pedal is designed and located for right foot operation. It is the pedal located to the left of the accelerator pedal. It functions the same as the brake pedal in your automobile. Removing your foot from the pedal allows immediate release of the braking action to your vehicle.

PARK BRAKE

This is above the foot brake and functions as a lock on the regular brake. Depressing both automatically locks foot brake and park brake. Depressing accelerator releases brake.

CHOKE KNOB

Use the choke knob (located on kick panel) when starting a cold engine. Pull out the choke knob and hold it in position until the engine responds correctly. Release choke as engine warms up.

FORWARD/REVERSE SWITCH

The forward/reverse switch is located on the kick panel. It is a lever type switch. Pulling the lever places the vehicle in forward. Pushing downward places vehicle in reverse. Center position is off. **CAUTION:** The forward/reverse switch serves the same purpose as the transmission SELECTOR in your automobile. Treat it with the same respect and care. DO NOT SHIFT from forward to reverse or vice-versa while the vehicle is in motion.

OIL WARNING LIGHT

Located on instrument panel, it will glow when oil level is low.

FUEL WARNING LIGHT

Located on instrument panel. Will glow when fuel is low. Gasoline filler cap is located behind front seat on right hand side.

BACK UP BUZZER

Whenever vehicle is in reverse position, warning buzzer will sound.

ACCELERATOR

The accelerator pedal is located to the right of the brake pedal. It is designed for right foot operation similar to your automobile. Your forward/reverse switch determines the direction of travel and your accelerator pedal controls the speed.

HORN BUTTON

The horn button is located on the floor board to the left of the steering column. Depressing button sounds horn. Releasing button will immediately silence horn.

STANDARD OPTIONAL ACCESSORIES

WINDSHIELD WIPER

On vehicles equipped with electric windshield wipers use the Accessory (ACC) Control Switch.

DIRECTION SIGNALS

On vehicles equipped with directional turn signals the control is located on the steering column. Move the control lever in the direction you will be turning your steering wheel to signal the direction you intend to turn your vehicle. Indicating lamps are located within the turn signal control for your convenience.

The directional turn signal also serves as an emergency flasher control by pulling the control lever outward away from steering column when in neutral position.

HEADLIGHT (IF SO EQUIPPED) AND DUAL TAILLIGHTS

Use instrument panel switch labeled, "HEADLIGHT"

MAJOR OPTIONS (SEE SECTION 15)

CAB

An all metal cab with or without metal doors

TOOL BOX

Mounts two metal doors to rear compartment

FOLD DOWN REAR SEAT

Folds into rear deck when not in use

CARGO BOX

All metal with rear doors.

NOTE: Other items are also shown in Section 15 for kit up-dating of basic vehicles.

OPERATING YOUR VEHICLE

To put your vehicle into operation; sit on seat, turn key on (clockwise). Select direction you wish to travel by activating forward reverse switch then slowly depress accelerator pedal until vehicle is moving at the desired speed. Steer vehicle as required, utilizing the foot brake and accelerator to control your speed as desired.

CAUTION:

DO NOT "HOLD" VEHICLE AT A STANDSTILL ON A HILL OR INCLINE USING ACCELERATOR ONLY. USE FOOT AND PARK BRAKE TO HOLD THE VEHICLE ON A HILL SAFELY.

WARNING:

WHEN YOU LEAVE YOUR VEHICLE, SET PARKING BRAKE, PLACE FORWARD/REVERSE LEVER IN NEUTRAL POSITION AND REMOVE KEY.

DRIVE SAFELY AND ENJOY YOUR TAYLOR-DUNN VEHICLE

OPERATING RESPONSIBILITIES
AMERICAN NATIONAL STANDARD PERSONNEL AND BURDEN CARRIERS
ANSI B 56.8-1981
SECTION 5
OPERATING RULES AND PRACTICES

501 OPERATOR QUALIFICATIONS

Only trained and authorized operators shall be permitted to operate a Personnel and Burden Carrier. Operators of Personnel and Burden Carriers shall be qualified as to visual, auditory, physical, and mental ability to safely operate the equipment according to Section 5 and all other applicable parts of this standard.

502 PERSONNEL AND BURDEN CARRIER OPERATORS' TRAINING

(a) The carrier owner, lessee, or employee of the carrier operator shall conduct an operators' training program for the carrier operators.

(b) Successful completion of the operators' training program shall be required by the owner, lessee, or employer of the carrier operator before operation of the Personnel and Burden Carrier by any operator.

(c) An effective operator's training program should center around user company's policies, operating conditions, and their Personnel and Burden Carrier by any operator.

(d) Information on operator training is available from several sources, including carrier manufacturers.

(e) The carrier owner, lessee or employer of the carrier operator should include in the operators' training program the following:

(1) Careful selection of the operators, considering physical qualifications, job attitude and aptitude.

(2) Emphasis on safety of stock, equipment operator, and other employees.

(3) General safety rules contained in this standard and the additional specific rules determined by the carrier owner, lessee, or employer of the carrier operator in accordance with this standard, and why they were formulated.

(4) Introduction of equipment, control locations and functions, and explanation of how they work when used properly and when used improperly; and ground and floor conditions, grade, and other conditions of the environment in which the Personnel and Burden Carrier is to be operated.

(5) Operational performance tests and evaluations during, and at completion of the program.

(6) Rules of the employer and any applicable labor contract governing and dealing with discipline of employees for violation of employer's rules, and including safety rules.

503 OPERATOR RESPONSIBILITY

Operators of Personnel and Burden Carriers shall abide by the following safety rules and practices in 504, 505, 506, and 507.

OPERATING RESPONSIBILITIES continued
ANSI B56.8-1981

504 GENERAL

- (a) Safeguard the pedestrians at all times. Do not drive carrier in a manner that would endanger anyone.
- (b) Riding on the carrier by persons other than the operator is authorized only when personnel seat(s) are provided. Do not put any part of the body outside the outer perimeter of the carrier.
- (c) When a Personnel or Burden Carrier is left unattended, stop carrier, place directional controls in neutral, apply the parking brake, stop the engine or turn off power, turn off the control or ignition circuit, remove the key if provided, and block the wheels if machine is on an incline.
- (d) A Personnel and Burden Carrier is considered unattended when the operator is 25 ft. (7.6 m) or more from the carrier which remains in his view, or whenever the operator leaves the carrier and it is not within his view. When the operator of a Personnel and Burden Carrier is dismounted and within 25 ft. (7.6 m) of the carrier still in his view, he still must have controls neutralized, and brakes set to prevent movement.
- (e) Maintain a safe distance from the edge of ramps and platforms.
- (f) Use only approved Personnel and Burden Carriers in hazardous locations.
- (g) Report all accidents involving personnel, building structures, and equipment.
- (h) Operators shall not add to, or modify, the Personnel or Burden carrier.
- (i) Fire aisles, access to stairways, and fire equipment shall be kept clear.
- (j) Operators and personnel shall be warned of the hazards of long hair and loose clothing.

505 TRAVELING

- (a) Observe all traffic regulations, including authorized plant speed limit. Under normal traffic conditions keep to the right. Maintain a safe distance, based on speed of travel, from the carrier or vehicle ahead; and keep the Personnel and Burden Carrier under control at all times.
- (b) Yield the right of way to pedestrians, ambulances, fire trucks, or other carriers or vehicles in emergency situations.
- (c) Do not pass another carrier or vehicle traveling in the same direction at intersections, blind spots, or at other dangerous locations.
- (d) Keep a clear view of the path of travel, observe other traffic and personnel, and maintain a safe clearance.
- (e) Slow down and sound the audible warning device at cross aisles and other locations where visibility is obstructed.
- (f) Ascend or descend grades slowly.
- (g) Use extra caution when operating on grades. Never turn on any grade, ramp, or incline; always travel straight up and down.
- (h) Under all travel conditions the carrier shall be operated at a speed that will permit it to be brought to a stop in a safe manner.
- (i) Make starts, stops, turns, or direction reversals in a smooth manner so as not to shift the load, overturn the carrier, or both.
- (j) Do not indulge in stunt driving or horseplay.
- (k) Slow down when approaching, or on, wet or slippery surfaces.
- (l) Do not run carrier onto any elevator unless specifically authorized to do so. Approach elevators slowly, and then enter squarely after the elevator car is properly leveled. Once on the elevator, neutralize the controls, shut off power, and set brakes. It is advisable that all other personnel leave the elevator before a carrier is allowed to enter or leave.
- (m) Avoid running over loose objects on the roadway surface.
- (n) Prior to negotiating turns, reduce speed to a safe level, turning hand steering wheel or tiller in a smooth, sweeping motion.

OPERATING RESPONSIBILITIES continued

506 LOADING

(a) Handle only stable or safely arranged loads. When handling off-center loads which cannot be centered, operate with extra caution.

(b) Handle only loads within the capacity of the Personnel and Burden Carrier as specified on the name plate.

(c) Handle loads exceeding the dimensions used to establish carrier capacity with extra caution. Stability and maneuverability may be adversely affected.

507 OPERATOR CARE OF MACHINE

(a) At the beginning of each shift during which the Personnel and Burden Carrier will be used, the operator shall check the carrier condition and inspect the tires, warning devices, lights, battery, controller, brakes, and steering mechanism. If the carrier is found to be in need of repair, or in any way unsafe, or contributes to an unsafe condition, the matter shall be reported immediately to the designated authority, and the carrier shall not be operated until it has been restored to safe operating condition.

(b) If, during operating the carrier becomes unsafe in any way, the matter shall be reported immediately to the designated authority, and carrier shall not be operated until it has been restored to safe operating condition.

(c) Do not make repairs or adjustments unless specifically authorized to do so.

(d) The engine shall be stopped and the operator shall leave the carrier while refueling.

(e) Spillage of oil or fuel shall be carefully and completely absorbed or evaporated and fuel tank cap replaced before starting engine.

(f) Do not operate a carrier with a leak in the fuel system or battery.

(g) Do not use open flames for checking electrolyte level in storage batteries or liquid level in fuel tanks.

601 INTRODUCTION

Personnel and Burden Carriers may become hazardous if maintenance is neglected. Therefore, maintenance facilities, trained personnel, and procedures shall be provided.

602 MAINTENANCE PROCEDURES

(a) Maintenance and inspection of all Personnel and Burden Carriers shall be performed in conformance with the manufacturer's recommendations and the following practices.

(b) A scheduled preventive maintenance, lubrication, and inspection system shall be followed.

(c) Only qualified and authorized personnel shall be permitted to maintain, repair, adjust, and inspect Personnel and Burden Carriers.

(d) Before leaving the Personnel and Burden, stop carrier, place directional controls in neutral, apply the parking brake, stop the engine or turn off power, turn off the control or ignition circuit, and block the wheels if carrier is on an incline.

(e) Before undertaking maintenance or repair on carrier, raise drive wheels free of floor or disconnect battery, and use chocks or other positive carrier positioning devices.

(f) Block chassis before working under it.

(g) Before disconnecting any part of the engine fuel system of a gasoline or diesel powered carrier with gravity feed fuel systems, be sure shutoff valve is closed, and run engine until fuel system is depleted and engine stops running.

SECTION 6
MAINTENANCE PRACTICES

602 MAINTENANCE PROCEDURES continued

(h) Before disconnecting any part of the fuel system of LP gas powered carriers, close the LP gas cylinder valve and run the engine until fuel in the system is depleted and the engine stops running.

(i) Operation to check performance of the Personnel and Burden Carrier shall be conducted in an authorized area where safe clearance exists.

(j) Before starting to operate the carrier:

- 1) Have operator in operating position.
- 2) Depress clutch (or brake pedal on automatic transmission and electric carriers).
- 3) Place directional controls in neutral.
- 4) Start engine or switch electric carrier to "on" position.
- 5) Check functioning of directional and speed controls, steering, warning devices, and brakes.

(k) Avoid fire hazards and have fire protection equipment present in the work area. Do not use an open flame to check level or leakage of fuel, electrolyte, or coolant. Do not use open pans of fuel or flammable cleaning fluids for cleaning parts.

(l) Properly ventilate work area.

(m) Handle LP gas cylinders with care. Physical damage, such as dents, scrapes, or gauges, may dangerously weaken the tank and make it unsafe for use.

(n) Brakes, steering mechanisms, control mechanism, warning devices, lights, governors, guards, and safety devices shall be inspected regularly and maintained in a safe operating condition.

(o) Special Personnel and Burden Carriers or devices designed and approved for hazardous area operation shall be inspected to ensure that maintenance preserves the original approved safe operating features.

(p) Fuel systems shall be checked for leaks and condition of parts. Action shall be taken to prevent the use of the carrier until the leak has been corrected.

(q) The Personnel and Burden Carrier manufacturer's capacity, operation and maintenance instruction plates, tags, or decals shall be maintained in legible condition.

(r) Batteries, motors, controllers, limit switches, protective devices, electrical conductors, and connections shall be inspected and maintained in conformance with good practice.

(s) Carriers shall be kept in a clean condition to minimize fire hazards and facilitate detection of loose or defective parts.

(t) Modifications and additions which affect capacity and safe machine operation shall not be performed by the customer or user without manufacturer's prior written authorization; where authorized modifications have been made, the user shall ensure that capacity, operation, warning and maintenance instruction plates, tags, or decals are changed accordingly.

(u) Care shall be taken to assure that all replacement parts are interchangeable with the original parts and of a quality at least equal to that provided in the original equipment.

W A R N I N G

When replacement parts are necessary, use Taylor-Dunn parts to insure original strength and characteristics.

MAINTENANCE GUIDE CHECKLIST

This checklist is provided for your convenience as a guide for servicing your vehicle. If followed you will enjoy a good running and trouble free unit. It has been set up for average normal use. More frequent service is recommended for extreme or heavy usage. If desired your Taylor-Dunn dealer will gladly perform these service for you as he has expert service men in the field for this purpose. Do not hesitate to call your Service Manager if any questions arise.

WARNING: When performing maintenance on any part of the electrical system, turn key to off position and remove from switch, disconnect main battery leads and place Forward/Reverse switch in neutral.

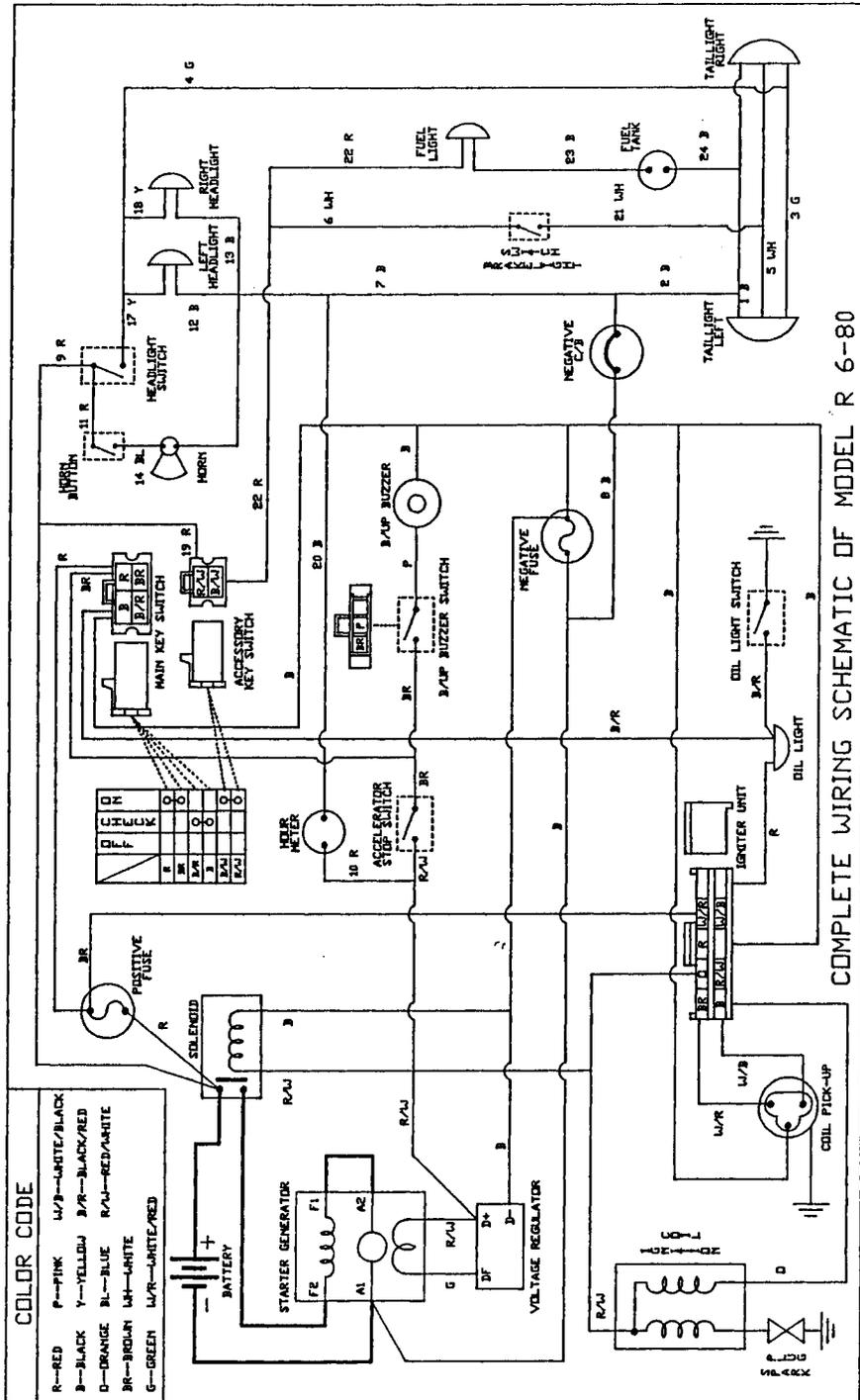
MAINTENANCE	EVERY WEEK	EVERY MONTH	EVERY 3 MONTHS	EVERY 6 MONTHS	EVERY YEAR
Check and fill battery. If necessary fill with distilled water only.	X				
Check tire pressure. (12 PSI)	X				
Check condition of air filter cover Wash with solvent and allow to dry.				X	
Replace air filter element.					X
Lubricate all Zerk Fittings.			X		
Lubricate all moving parts without Zerk Fittings. Use all purpose engine oil.			X		
Wash off battery with water, (use soda if necessary).			X		
Check all wire connections. Be sure they are all clean and tight.			X		
Check foot operated brake systems		X			
Check brake linings for wear. Adjust as necessary.				X	
Check spark plug (B5ES) Gap.Ø31 in Torque to 14 ft. lb.				X	
Check steering for play Adjust as necessary				X	
Check engine oil level 1 quart, 10W 30 type SE or SF		X			
Drain differential and refill Use <i>SAE 90 gear oil</i>					X
Drain transmission and refill Use SAE 90 gear oil (quart)					X
* Lubricate front wheel bearings					X
Repack front wheel bearings (use wheel bearing grease).					X
* Check and adjust front wheel bearings.				X	X

* ITEMS RELATED TO SAFETY RECOMMENDATIONS

YEARLY MAINTENANCE GUIDE CHECK LIST

MAINTENANCE TASK	COMPLETED	DATE
THROTTLE CABLE: Check for free play. .020 inch		
CHOKE CABLE: Check for free play. .040 inch		
CARBURETOR: Check for dirt or water		
FUEL LINES: Check for leakage. Replace if necessary.		
DRIVE BELT: Check for slippage, wear or scratches		
PRIMARY SHEAVE: Check for operation and wear. Grease: 2-3 shots (manual grease gun) 2-3 seconds (auto grease gun) with light weight lithium soap base grease.		
STARTER: Check starter V belt for damage, tension and tightness.		

R 6-80
WIRING DIAGRAM
FIGURE 1



TROUBLE SHOOTING PROCEDURES

SYMPTOM	PROBABLE CAUSE	CORRECTIVE ACTION
<u>STEERING</u>		
1. a. Pull in one direction	1. Unbalanced front tire pressure 2. Bent or misadjusted tie rod	1. Check and adjust pressures 2. Repair, replace or adjust tie rod
b. Hard Steering	1. Low tire pressure 2. Dry pivot points in steering linkage 3. Bent or misadjusted king pin	1. Inflate to 12 lbs. 2. Lubricate 3. Repair, replace or adjust king pin
c. Sloppy or Loose	1. Loose wheel bearing 2. Loose or worn universal joints 3. Worn king pin bushings or king pins 4. Excess backlash in steering gear box	1. Adjust 2. Tighten or replace universal joints 3. Replace bushings or pins and bushings 4. Adjust backlash
<u>DRIVE AXLE</u>		
2. a. Lack of Power	1. Parking brake not completely released 2. Incorrect brake adjustment, brake dragging 3. Defective or misadjusted wheel bearing 4. Bind or drag in primary drive or differential	1. Release parking brake 2. Adjust brake system 3. Adjust or replace bearing 4. Check and repair primary drive or differential
b. Abnormal Noise	1. Worn gears or bearings in differential 2. Defective axle bearing 3. Worn or bent axle 4. Loose wheel lug nuts	1. Check and replace gears or bearings 2. Replace bearing 3. Replace axle 4. Tighten lug nuts
c. Oil leaks in wheel bearing area	1. Wheel bearing seal defective 2. Wheel bearing gasket defective 3. Drive axle filled above proper level	1. Replace seal 2. Replace gasket 3. Drain oil to proper level
d. Oil leaks in gear case or motor area	1. Defective gear case cover gasket	1. Replace gasket
<u>BRAKES</u>		
3. a. Poor brakes	1. Worn lining 2. Brake lining wet or oily 3. Bind in brake linkage 4. Incorrect linkage adjustment	1. Adjust for lining wear or replace in less than .060 thick 2. Clean and dry or replace if oily 3. Loosen and readjust brake linkage 4. Adjust linkage

TROUBLE SHOOTING PROCEDURES

SYMPTOM	PROBABLE CAUSE	CORRECTIVE ACTION
3. BRAKES continued		
b. No brakes: Pedal reaches the floor board	1. Incorrect linkage adjustment 2. Broken linkage	1. Adjust linkage 2. Repair or replace broken part
c. Excessive or grabbing brakes	1. Small amount of oil on lining 2. Incorrect linkage adjustment	1. Clean lining 2. Adjust linkage
4. Poor idle or low speed performance	* 1. Spark plug fouled 2. Choke on * 3. Incorrect timing 4. Carburetor not level * 5. Weak spark 6. Pilot screw 7. Carburetor low speed inoperative 8. Fuel pump inoperative * 9. Incorrect Carburetor level 10. Air leak * 11. Plugged gas tank vent	1. Clean or replace 2. Turn off 3. Reset timing 4. Level it 5. Check ignition coil and circuits 6. Clean or adjust as necessary 7. Repair as necessary 8. Repair as necessary 9. Level it 10. Repair 11. Clean or repair
5. Poor midrange or high speed performance	1. Incorrect fuel level 2. Incorrect main jet 3. Incorrect pilot jet 4. Dirty air filter 5. Brake drag 6. Low compression 7. Blocked exhaust system 8. Governor misadjusted	1. Level 2. Check size 3. Check size 4. Replace 5. Adjust brakes 6. Check with compression tester 7. Check muffler and carbon build up 8. Adjust
* Also applies to above group		

MAINTENANCE PROCEDURES
BATTERIES

It cannot be over emphasized how important good maintenance procedures and normal care of your batteries will affect their useful life. It is therefore recommended that a comprehensive maintenance program be established and adhered to throughout the life of your vehicle. A 3 point program is outlined below to assist you in understanding and establishing good battery care.

1. CHARGING

Check electrolyte level periodically and fill the battery with distilled water up to the specified level.

Check the specific gravity of the electrolyte. The reading should be 1.26 at 26.7 degrees C (80 degrees F). If the specific gravity is low, charge the battery.

2. CLEANING

Batteries pick up various kinds of dirt and dust, depending on their surroundings and to the type of service they are subjected. This is usually dry dirt, which can be readily be blown off with low pressure air or brushed off. However, if cells are overfilled and electrolyte collects on the covers, the top of the battery becomes wet and stays wet, since the acid in the electrolyte does not evaporate. This moist surface in combination with certain kinds of dirt becomes electrically conductive and permits stray currents to flow externally over the top of the battery. These currents cause corrosion of cell posts, nuts, connectors and steel trays, which eventually become troublesome and expensive to repair.

When wet dirt accumulates on top of the battery, remove it by washing the battery with a strong solution of baking soda and hot water (1 lb. of soda to 1/2 gallon of water). A convenient brush to use is one having flexible bristles like an old paint brush. Continue the application of the soda solution until all fizzing stops, which indicates that the acid has been neutralized. Then rinse thoroughly with clear water.

Wet covers can be indication of overfilling, leaky seals at posts and covers or of excessive gassing during charge. When observed the cause should be determined and the abusive conditions corrected.

MAINTENANCE PROCEDURES, BATTERIES continued

3. WINTER STORAGE

Before storing your vehicle in a sheltered area for the winter season, clean and check the charge level of the batteries.

It is not advisable to allow a battery to stand for a long period of time in a low state of charge. Doing so subjects the battery to excessive plate erosion and in the cold climate conditions the electrolyte will freeze at a much higher temperature. For example, a fully charged battery will not freeze at temperatures near 60 degrees below zero. Yet a battery in a very low state of charge may freeze at temperatures around 10 to 15 degrees above zero.

A battery not in use maintains small amounts of chemical action which slowly tends to dissipate the charged condition. It is wise to re-charge a battery not in use every 1 to 2 months. If possible store the battery in a cool place, as the self discharge rate is increased with warmer temperatures.

BATTERY PART NUMBER

77-054-10 Battery 12 Volt 61 AH 1 Required

MAINTENANCE PROCEDURES
FRONT AXLE, STEERING AND TIRES

Your front axle and wheel assembly consists of an axle shock mounted on a triangular arm assembly with automotive spindles, steering worm, and steering linkage. It has been designed for rugged dependable service with little maintenance requirements, other than lubrication and an occasional check of all nuts and bolts for tightness. Your wheels revolve on roller bearings and the spindles are mounted with heavy kingpins.

It is recommended that you follow the maintenance guide and lubrication diagrams for normal maintenance of the assembly. They are located in Section 4 of this manual.

The maintenance guide is set up for average use. If the vehicle is subject to long hours of running and heavy work loads the frequency of lubrication and service should be increased accordingly.

Refer to maintenance guide Section 4 for normal care.

If service and adjustment are required, refer to appropriate section of this manual.

REMOVE AND INSTALL WHEEL HUB: ADJUST BEARINGS

1. Remove wheel cover
2. Remove dust cap
3. Remove cotter pin and unscrew spindle nut
4. Remove outer washer and bearing
5. Remove wheel, tire and hub assembly
6. Before re-assembly, thoroughly clean the bearings, spindle, and hub assembly. Inspect bearings for wear or damage. Examine inner seal. Replace damaged or worn parts.
7. Generously pack bearings with wheel bearing grease.
8. Reassemble in reverse order. Adjust wheel bearings before installing cotter pin.
9. Adjust wheel bearings by tightening spindle nut until bearing drag barely occurs, then back off spindle nut approximately 1/4 turn. Wheel should turn freely without noticeable bearing end play.
10. Install cotter pin, dust cap and wheel cover.
11. Remove wheel hub for periodic lubrication of bearing. Refer to Section 4 when re-installing wheel hub, install the conical washer with the tapered side facing inward.

REMOVE AND INSTALL KING PINS AND BUSHINGS

1. Remove wheel and hub from spindle. See preceding subsection.
2. Remove ball joints from steering arms. Remove cotter pin and nut, rap stud sharply with soft hammer, or soft block and regular hammer, to loosen tapered stud from steering arm,
3. Disconnect drag link ball joint at Pitman Arm, remove cotter pin and nut, rap stud sharply with soft hammer, or soft block and regular hammer, to loosen tapered stud from Pitman Arm.
4. Remove lock nut which retains spindle and steering arm assembly to king pin.
5. Remove king pin from axle. If it is necessary to force the pin from the axle, use a soft rod, such as bronze or aluminum.
6. Remove spindle and steering arm assembly, and thrust bearing, from axle yoke.
7. Press bushing from spindle.
8. Thoroughly clean bushing housing and king pin before installing new bushings.
9. Press bushing into sleeve. If proper press is not available, most automotive supply houses and repair shops have capacity to perform this service.

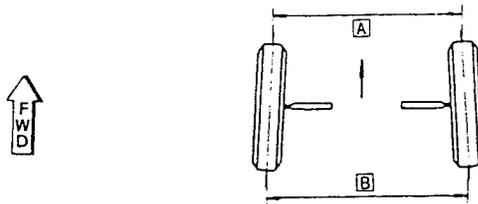
SERVICE AND ADJUSTMENT
FRONT AXLE, STEERING AND TIRES

REMOVE AND INSTALL KING PINS AND BUSHINGS continued

10. Reassemble in reverse order. Lightly oil king pin and tap into place in axle. Where it is necessary to use force to assemble components, use a soft hammer or punch. When yoke and king pin are assembled to axle, drive king pin home to seat serrations into top yoke plate. Install nut bearingly touch lower yoke plate. DO NOT DRAW YOKE PLATES TOGETHER.
11. After reassembly, tighten ball joints securely. Lubricate bushings and king pin through grease fitting.

ALIGN FRONT END: ADJUST TOE IN

1. Place the vehicle on a level surface.
2. Measure toe in: Position wheels straight ahead. Toe-in (B-A) unloaded $.350 \pm .200$ fully loaded zero in.



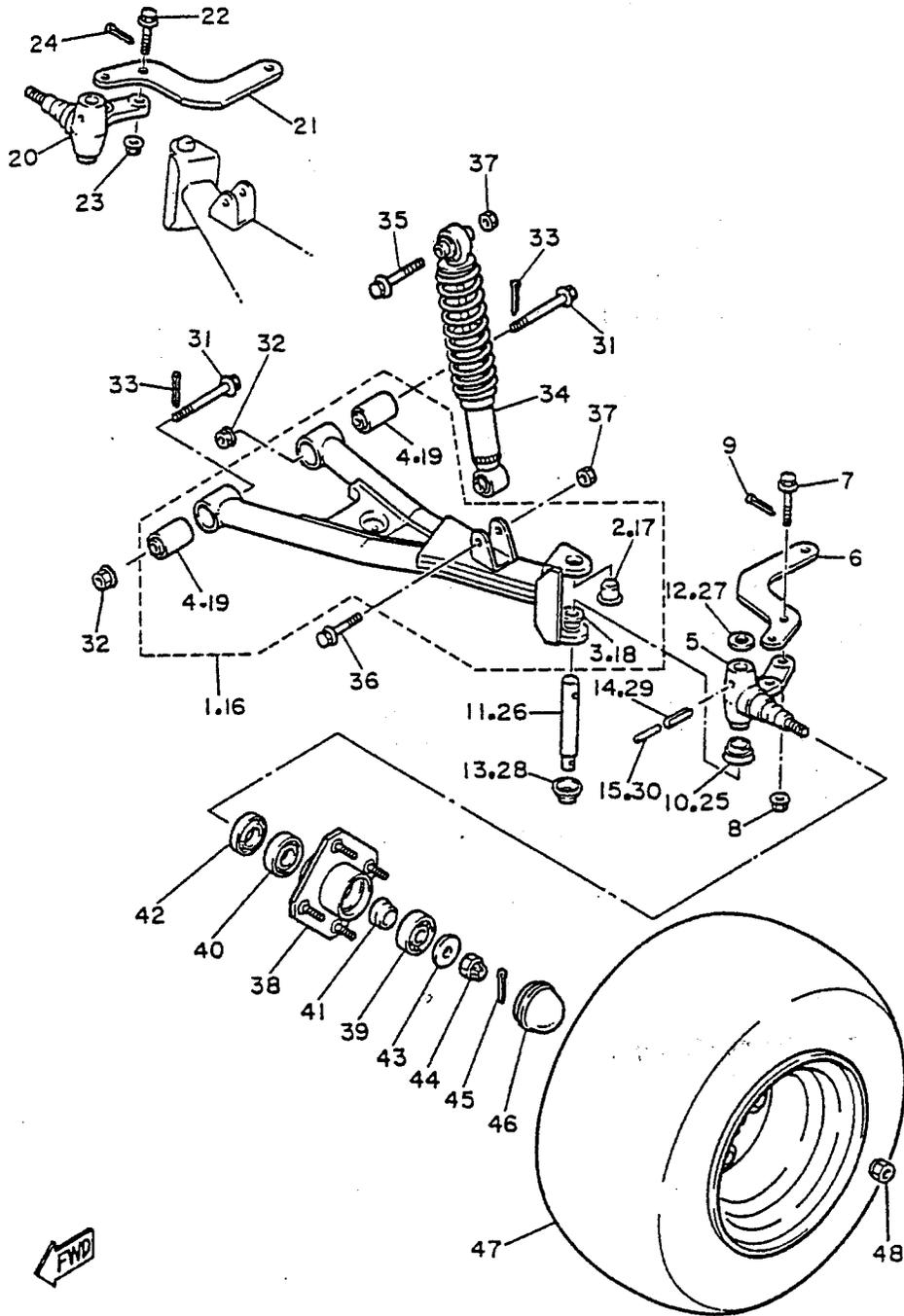
[A] Center-to-center at front side tire tread.
[B] Center-to-center at rear side tire tread.

3. Toe-in adjustment: Raise front of vehicle, loosen locknuts. Adjust toe-in by turning tie-rods. To reduce turn rod to make length longer. To increase turn rod to make length shorter. Be sure each rod is rotated same number of turns. Tighten rod-end locknut to 35 foot pounds. Place vehicle on ground. Compress suspension by standing on front bumper.

REMOVE AND REPLACE BALL JOINT

1. Remove cotter pin and nut.
2. Loosen sleeve clamp.
3. Rap ball joint stud sharply with soft hammer or soft block and regular hammer to loosen tapered stud from steering arm.
4. Either measure position of ball joint or count number of threads exposed from sleeve. Remove ball joint by unscrewing from sleeve. Note that one end will be left hand thread and the opposite ball joint will be right hand thread.
5. Install new ball joint and position same as the one removed.
6. Install tapered stud in steering arm or Pitman Arm.
7. Replace nut, tighten securely and replace cotter pin before tightening ball joint in Pitman Arm. Make any necessary adjustments to coordinate (center) steering wheel when tires are aligned.
8. If ball joint replaced is part of the tie-rod, check toe-in and adjust if necessary - as described in subsection titled "Align Front End".
9. Install steering wheel loosely. Center steering gear, turn full left return one and three quarters. Steering gear is now centered.
10. Install arm.
11. Center steering wheel and tighten nut.
12. Check that you will be able to turn the steering mechanism equally in both directions. If you cannot, it means the steering arm was not properly installed and it will be necessary to remove the arm and replace it in the proper position.
13. Lubricate steering worm with multi type grease; approximately 3 ounces.

DRAWING FRONT AXLE - FIGURE 2

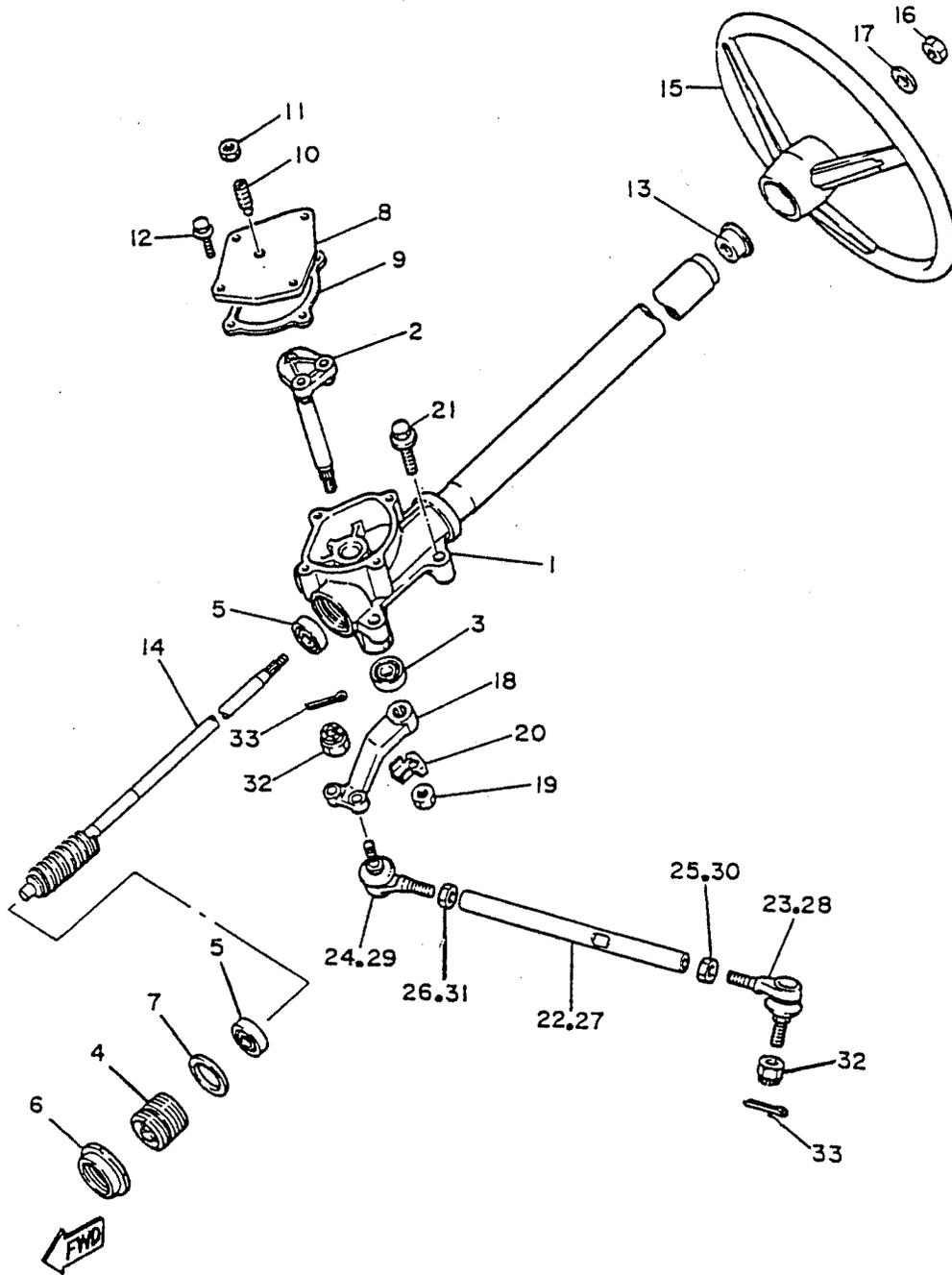


FRONT AXLE PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	J38-23507-00-00	FRONT LOWER ARM SUB-ASS'Y (L.H.)	1
2	90338-17170-00	PLUG	1
3	90386-15139-00	BUSH	1
4	J38-23526-00-00	BUSH	1
5	J38-23511-00-00	KNUCKLE, STEERING 1	1
6	J38-23512-00-00	ARM, KNUCKLE 1	1
7	90105-10360-00	BOLT, WASHER BASED	2
8	90185-10130-00	NUT, SELF LOCKING	2
9	91402-25020-00	PIN COTTER	2
10	J38-23527-00-00	SEAL DUST 1	1
11	J38-23516-00-00	KING PIN, STEERING KNUCKLE	1
12	90201-156J2-00	WASHER, PLATE	1
13	J38-23528-00-00	SEAL, DUST 2	1
14	91609-60028-00	PIN, SPRING	1
15	91609-35028-00	PIN, SPRING	1
16	J38-23508-00-00	FRONT LOWER ARM SUB-ASS'Y (R.H.)	1
17	90338-14140-00 17170	PLUG	1
18	90386-15139-00	BUSH	2
19	J38-23526-00-00	BUSH	2
20	J38-23521-00-00	KNUCKLE, STEERING 2	1
21	J38-23512-00-00	ARM, KNUCKLE 1	1
22	90105-10360-00	BOLT, WASHER BASED	2
23	90185-10130-00	NUT, SELF LOCKING	2
24	91402-25020-00	PIN, COTTER	2
25	J38-23527-00-00	SEAL, DUST 1	1
26	J38-23516-00-00	KING PIN, STEERING KNUCKLE	1
27	90201-156J2-00	WASHER, PLATE	1
28	J38-23528-00-00	SEAL, DUST 2	1
29	91609-60028-00	PIN, SPRING	1
30	91609-35028-00	PIN, SPRING	1
31	90105-10357-00	BOLT, WASHER BASED	4
32	90185-10130-00	NUT, SELF LOCKING	4
33	91402-25020-00	PIN, COTTER	4
34	J38-23350-00-00	SHOCK ABSORBER ASS'Y	2
35	97302-10065-00	BOLT	2
36	97301-10050-00	BOLT (97302-10050)	2
37	95602-10100-00	NUT, U	4
38	J38-W2511-00-00	HUB, FRONT	2
39	93306-20401-00	BEARING (B6204)	2
40	93306-00510-00	BEARING	2
31	90387-241M7-00	COLLAR	2
42	93102-30083-00	OIL SEAL	2
43	90209-32271-00	WASHER	2
44	95602-14100-00	NUT, U	2
45	91402-25020-00	PIN, COTTER	2
46	J17-25118-00-00	COVER, HUB DUST	2
*47	90179-12262-00 1213-734-12	FRONT WHEEL ASS'Y	2
48	90179-12262-00	NUT	8

*NOTE: Same wheel ass'y is used on rear axle.

DRAWING STEERING ASSEMBLY - FIGURE 3



STEERING ASSEMBLY PARTS LIST - FIGURE 3

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	J38-23811-00-00	COLUMN, STEERING	1
2	J38-23816-00-00	ARM, PITMAN	1
3	93102-22087-00	OIL SEAL (93102-22082)	1
4	J38-23876-00-00	BOLT	1
5	93332-00010-00	BEARING	2
6	J10-23877-00-00	NUT	1
6	J10-23444-00-00	WASHER	1
8	J38-23818-00-00	COVER, STEERING	1
9	J38-23462-00-00	SEAL, STEERING	1
10	J10-23459-00-00	BOLT	1
11	90170-08024-00	NUT	1
12	95802-06020-00	BOLT, FLANGE	4
13	J38-23814-00-00	HOLDER, HANDLE UPPER	1
14	J10-23840-00-00	STEERING SHAFT ASS'Y	1
15	J10-23838-00-00	WHEEL, STEERING	1
16	90185-12061-00	NUT, SELF-LOCKING	1
17	92901-12200-00	WASHER (92902-12200)	1
18	J38-23826-00-00	ARM, IDLER	1
19	95702-16300-00	NUT, NYLON	1
20	90215-16161-00	WASHER, LOCK	1
21	95802-10050-00	BOLT, FLANGE	4
22	J38-23831-00-00	ROD, TIE	1
23	J38-23841-00-00	JOINT, UNIVERSAL 1	1
24	J38-23845-00-00	JOINT, UNIVERSAL 2	1
25	95301-01700-00	NUT (95302-10700)	1
26	90170-10186-00	NUT	1
27	J38-23837-00-00	ROD, TIE 2	1
28	J38-23841-00-00	JOINT, UNIVERSAL 1	1
29	J38-23845-00-00	JOINT, UNIVERSAL 2	1
30	95301-10700-00	NUT (95302-10700)	1
31	90170-10186-00	NUT	1
32	95602-10100-00	NUT, U	4
33	91402-25020-00	PIN, COTTER	4

MAINTENANCE PROCEDURES
CARBURETOR

For simple adjustments it is not necessary to remove carburetor from engine. Refer to Maintenance Guide Checklist, Section 4 for required servicing.

1. Turn pilot screw in, to a slightly seated position. **CAUTION: Avoid turning pilot screw too hard to avoid damaging the tapered portion of the pilot screw, resulting in low speed performance.**
2. Turn pilot 1-1/2 turns out and make test run.
3. Dependent on terrain and weather, adjust the low speed properly by loosening or tightening the pilot screw in 1/8 - 1/4 turn increments. **NOTE: Clockwise turning makes the mixture leaner and counterclockwise makes the mixture richer.**

IDLING SPEED ADJUSTMENT

When the accelerator pedal is released, the engine will stop. For this reason it is impossible to measure the idling speed under normal conditions.

1. Make sure the Pilot Screw is 1-1/2 turns out.
2. Loosen the carburetor throttle stop screw to clear the throttle arm.
3. Slowly tighten the Throttle Stop Screw until it has lightly touched the throttle arm, and give another two turns.

NOTE: The standard setting for the Throttle Stop Screw is 2 turns in. However, if additional riding qualities are required the Throttle Stop Screw setting can be 4 turns in.

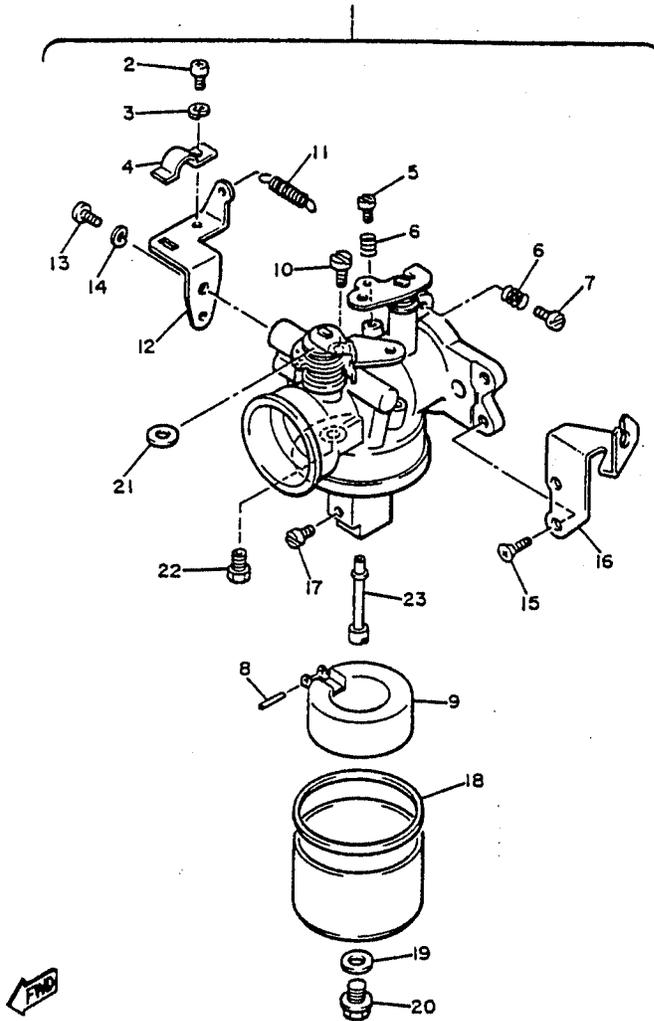
CARBURETOR REMOVAL

(Required for major overhaul, ie; Gaskets, Jet Replacement or other parts replacement.)

1. Disconnect fuel hose
2. Loosen choke cable clamp screw
3. Remove cotter pin (from clevis pin)
4. Remove clevis pin
5. Remove choke cable
6. Remove circlip
7. Remove cotter pin (from clevis pin)
8. Remove throttle cable
9. Loosen carburetor joint clamp screws
10. Remove carburetor body nuts
11. Remove carburetor assembly
12. Remove gasket

Reinstall in reverse order of assembly after necessary work has been completed.

DRAWING CARBURETOR FIGURE 3



CARBURETOR PARTS LIST

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	J38-14101-00-00	CARBURETOR ASSEMBLY	1
2	98501-05010-00	SCREW, PAN HEAD (98503-05008-00)	1
3	92990-05100-00	WASHER, SPRING	1
4	J10-14243-00-00	PLATE	1
5	75G-14211-00-00	SCREW, PILOT ADJUSTING	1
6	620-14212-00-00	SPRING, PILOT ADJUSTING	2
7	J10-14122-00-00	SCREW, THROTTLE	1
8	J38-14186-00-00	PIN, FLOAT	1
9	J38-14185-00-00	FLOAT	1
10	620-14142-72-00	JET, PILOT (#72.5)	1
11	J38-14133-00-00	SPRING, THROTTLE STOP	1
12	J38-14581-00-00	BRACKET	1
13	92503-06010-00	SCREW, PAN HEAD (92501-06010)	1
14	92903-06100-00	WASHER, SPRING (92901-06100)	1
15	98702-05008-00	SCREW, FLAT HEAD	2
16	J38-14291-00-00	BRACKET 1	1
17	3G2-1423E-42-00	JET, MAIN (#106.3)	1
18	796-14184-00-00	GASKET, FLOAT CHAMBER	1
19	127-14198-00-00	GASKET	1
20	7R1-14162-00-00	BOLT, HOLDING	1
21	J10-14597-00-00	WASHER	1
22	J38-14150-00-00	NEEDLE ASSEMBLY	1
23	J38-14141-00-00	NOZZLE, MAIN	1

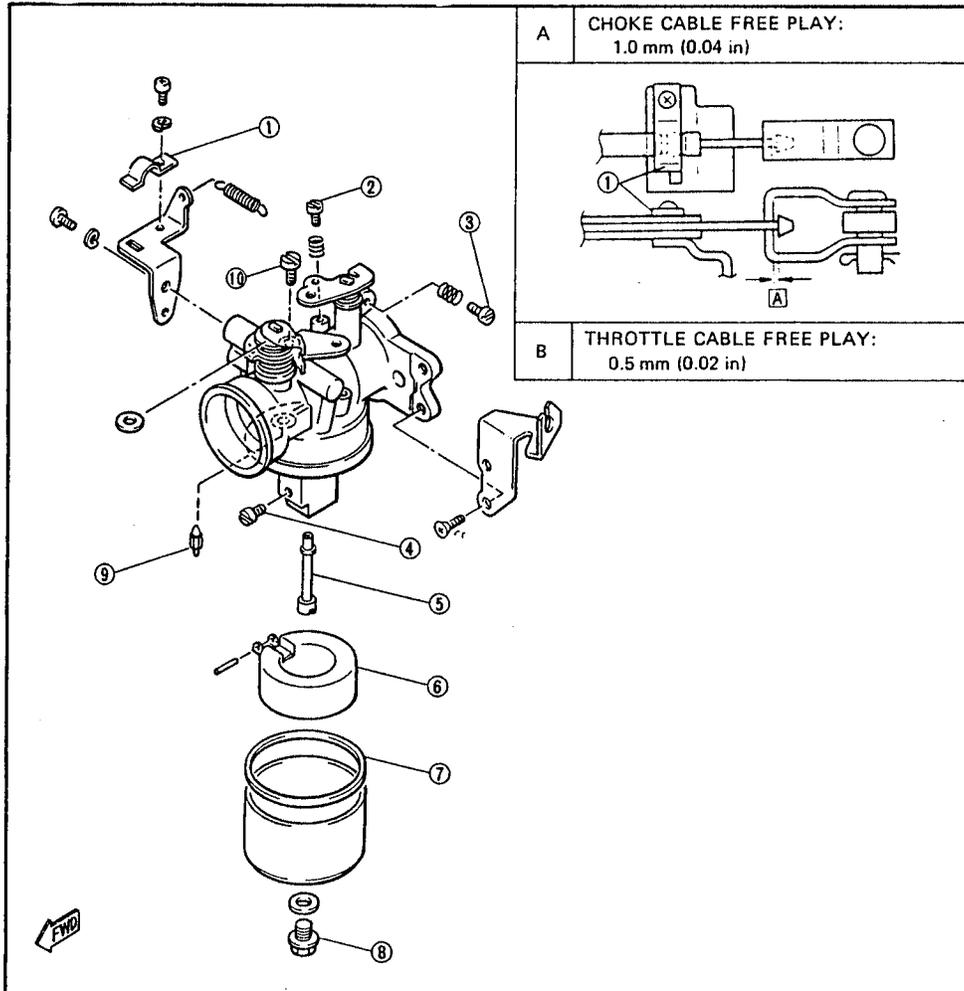
CARBURETOR SPECIFICATIONS

- CARBURETOR
1. Cable housing clamp
 2. Pilot screw (P.S.)
 3. Throttle stop screw
 4. Main jet (M.J.)
 5. Main nozzle
 6. Float
 7. Float chamber cover
 8. Cover holding bolt
 9. Float needle valve
 10. Pilot jet (P.J.)

SPECIFICATIONS		
Main jet	(M.J.)	#106.3
Main air jet	(M.A.J.)	2.5
Pilot jet	(P.J.)	#72.5
Pilot air jet	(P.A.J.)	1.4
Throttle valve	(Th.V.)	#120
Valve seat	(V.S.)	1.2
By-pass (1)	(B.P. 1)	0.7
By-pass (2)	(B.P. 2)	0.9
By-pass (3)	(B.P. 3)	0.6
Pilot outlet	(P.O.)	1.0
Pilot screw	(P.S.)	1-1/2 Turn out
Float height	(F.H.)	14.5mm(0.57 in)

NOTE
 \varnothing = DIAMETER
 # = NUMBER

FIGURE 4



MAINTENANCE PROCEDURES AIR CLEANER (AIR FILTER)

The air filter, a large box with a molded hose assembly is attached to the left side (looking forward) of the carburetor.

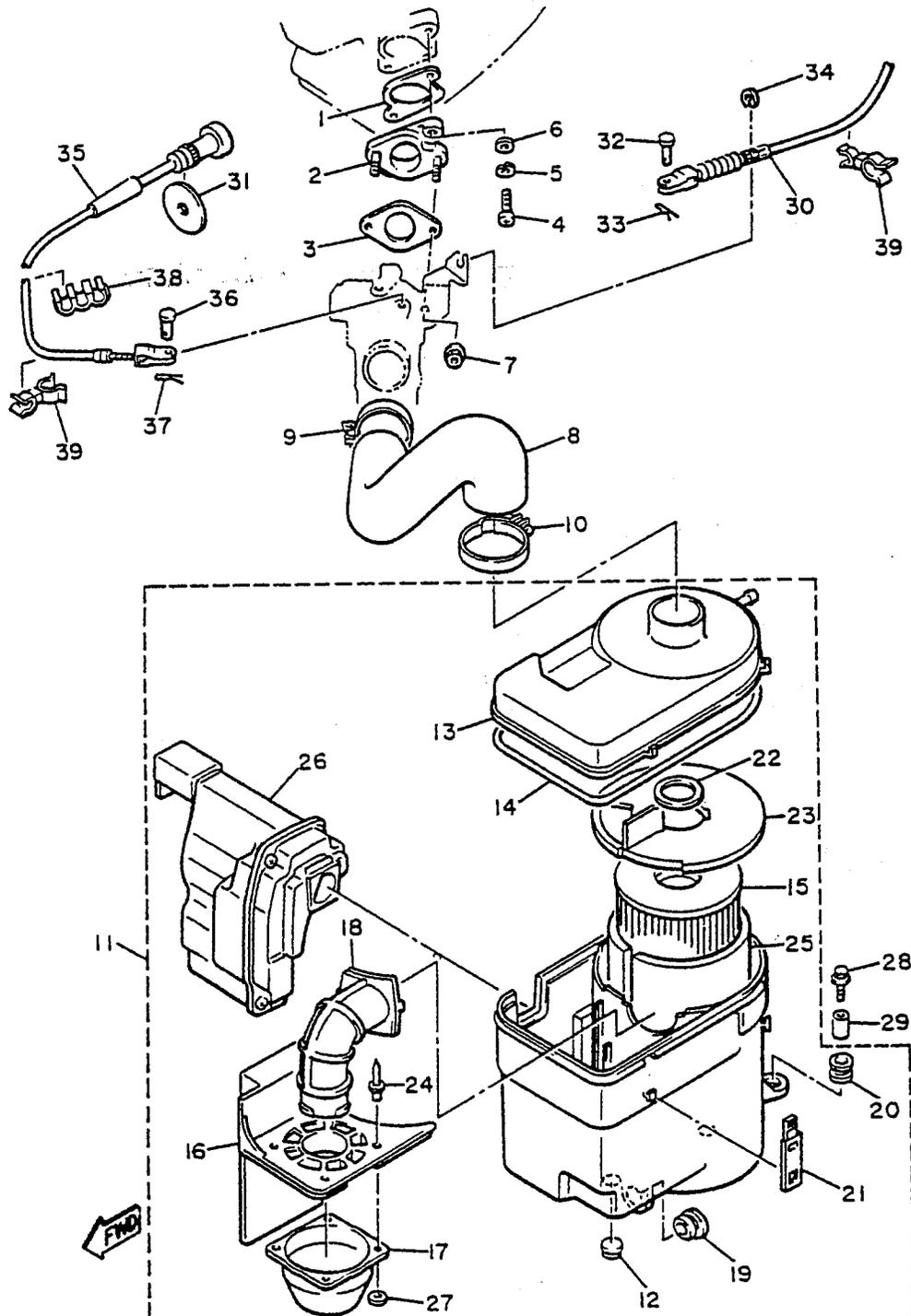
Inside the air filter is the element cover and air filter element. The air filter element should be replaced once a year. If the vehicle is operated in a dusty environment, replacement may be required every 6 months.

ELEMENT COVER

1. Remove air filter lid.
2. Remove element cover from air filter
3. Thoroughly clean the element cover with solvent and allow to dry. **CAUTION:** Do not apply oil to the element cover; resistance to air flow will be increased and adversely affect the performance.
4. Replace element cover and secure air filter lid.

NOTE: Never blow out the air filter element with compressed air or wash with solvent. The oil (on air filter element) will be removed and the engine will be damaged.

AIR CLEANER AND INTAKE FIGURE 5



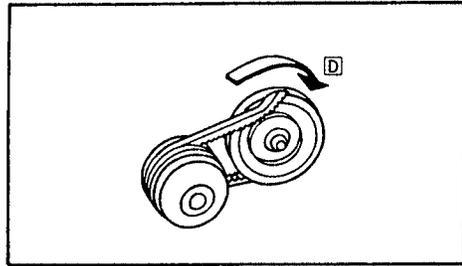
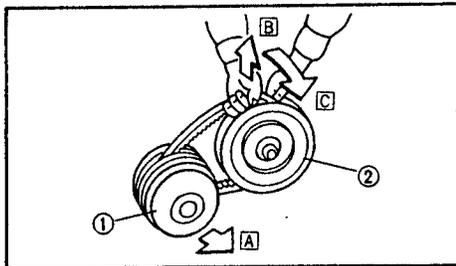
AIR CLEANER AND INTAKE PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	J38-13556-00-00	GASKET, MANIFOLD	1
2	J38-13596-00-00	JOINT, CARBURETOR	1
3	J38-13557-00-00	GASKET	1
4	92501-06030-00	SCREW, PAN HEAD	2
5	92903-06100-00	WASHER, SPRING (92902-06100)	2
6	92990-06600-00	WASHER, PLATE	2
7	90185-06098-00	NUT, SELF LOCKING	2
8	J38-14453-00-00	JOINT, AIR CLEANER 1	1
9	90460-43279-00	CLAMP, HOSE	1
10	90460-53239-00	CLAMP, HOSE	1
11	J38-14410-00-00	AIR CLEANER ASS'Y AIR FILTER	1
12	90480-14100-00	GROMMET	2
13	J38-14412-00-00	CAP, CLEANER CASE 1	1
14	J38-14452-00-00	SEAL	1
15	J38-14450-00-00	ELEMENT ASS'Y AIR CLEANER	1
16	J38-14484-00-00	PLATE, CLEANER CASE FITTING	1
17	J38-14479-00-00	FUNNEL	1
18	J38-14419-00-00	PIPE	1
19	90480-18277-00	GROMMET	1
20	90480-13238-00	GROMMET	2
21	J10-14436-00-00	HOOK	4
22	J38-14416-00-00	GASKET, AIR CLEANER	1
23	J38-1441F-00-00	PARTITION, AIR CLEANER CASE	1
24	90267-40073-00	RIVET, BLIND	4
25	J10-14417-00-00	COVER 1	1
26	J38-1446A-00-00	SURGE TANK ASS'Y	1
27	92901-04200-00	WASHER, PLAIN	4
28	90119-06097-00	BOLT, W/WASHER	2
29	90387-07390-00	COLLAR	2
30	J38-26312-00-00	CABLE, THROTTLE 2	1
31	90201-114E6-00	WASHER, PLATE	1
32	91702-05010-00	PIN, CLEVIS	2
33	90468-10049-00	CLIP	2
34	99001-07600-00	CIRCLIP	1
35	J38-26331-00-00	CABLE, STARTER 1	1
36	91702-05010-00	PIN, CLEVIS	1
37	90468-10049-00	CLIP	1
38	90468-07197-00	CLIP	1
39	90468-80180-00	CLIP	2

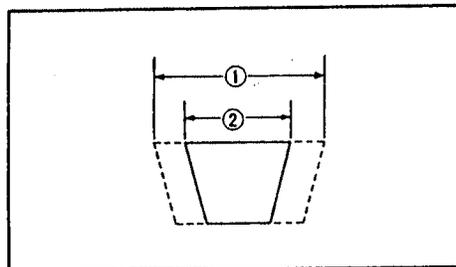
R 6-80 POWER TRAIN
SHEAVES, REAR AXLE AND TRANSMISSION

ADJUSTMENT OF DRIVE BELT (ONCE A YEAR)

1. **CAUTION:** Disconnect both battery leads to prevent accidental engagement of power while servicing vehicle.
2. Open rear deck (for removal and inspection of drive belt) exposing drive train.
3. Set the shift lever to neutral position.
4. Pull out the primary sliding sheave 1:A.
5. Jerk up the belt B, push the belt outward over the edge of the secondary fixed sheave 2:C.



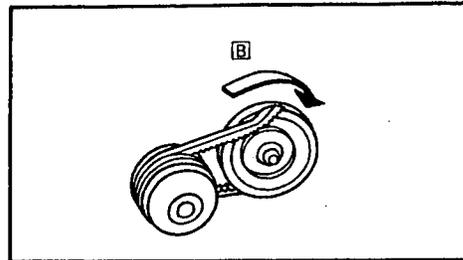
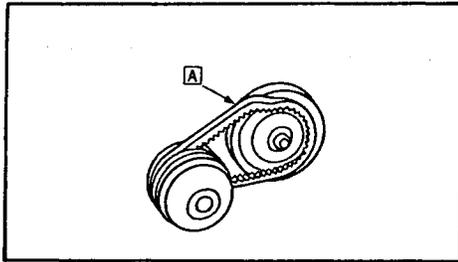
6. Rotate the secondary sheave clockwise: D and the belt will roll off the secondary sheave.
7. Now slip the belt over the primary sheave for complete belt removal.
8. Inspect drive belt for wear and damage. Replace if necessary.
9. Measure belt width: Minimum is 1.06 inches (see 2) Wear limit: 1, new belt width 1.22 inches wear limit 2, 1.06 inches (see sketches below)



R 6-80 POWER TRAIN
SHEAVES, REAR AXLE AND TRANSMISSION

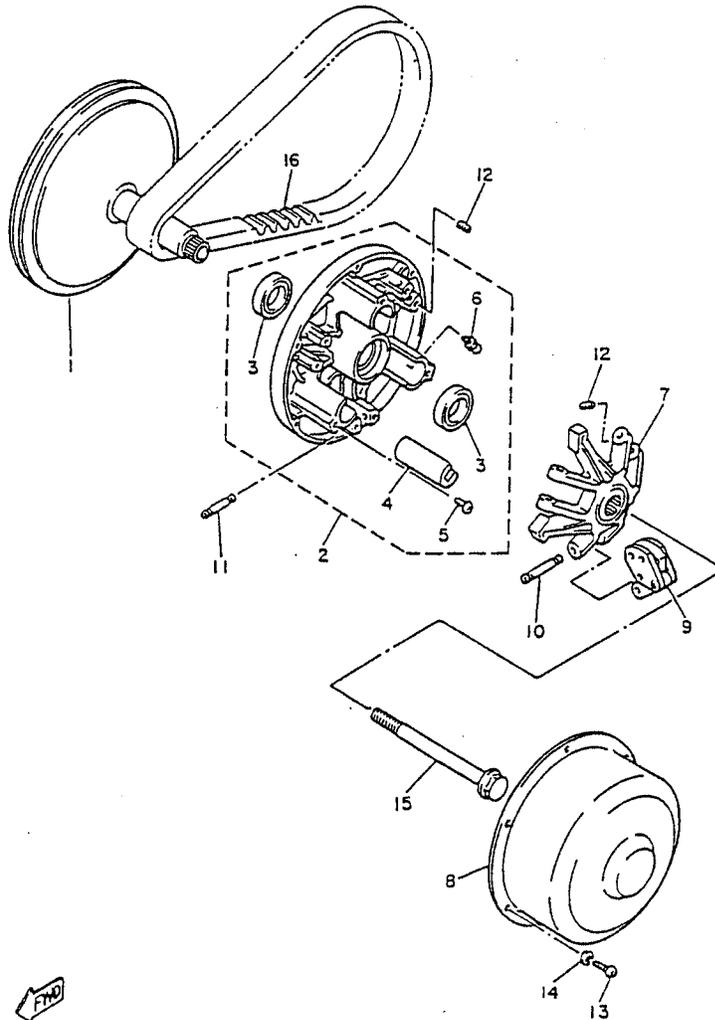
ADJUSTMENT OF DRIVE BELT continued

10. Install drive belt: Set shift lever to neutral position.
11. Slip the belt over the primary sheave.
12. Push the belt firmly into the secondary sheave at about the 10:00 O'clock position, as shown below at 'A'.
13. Rotate the secondary sheave clockwise until the belt has rolled into complete position on the secondary sheave, 'B' (see sketches below).



BELT DRIVE INSTALLATION

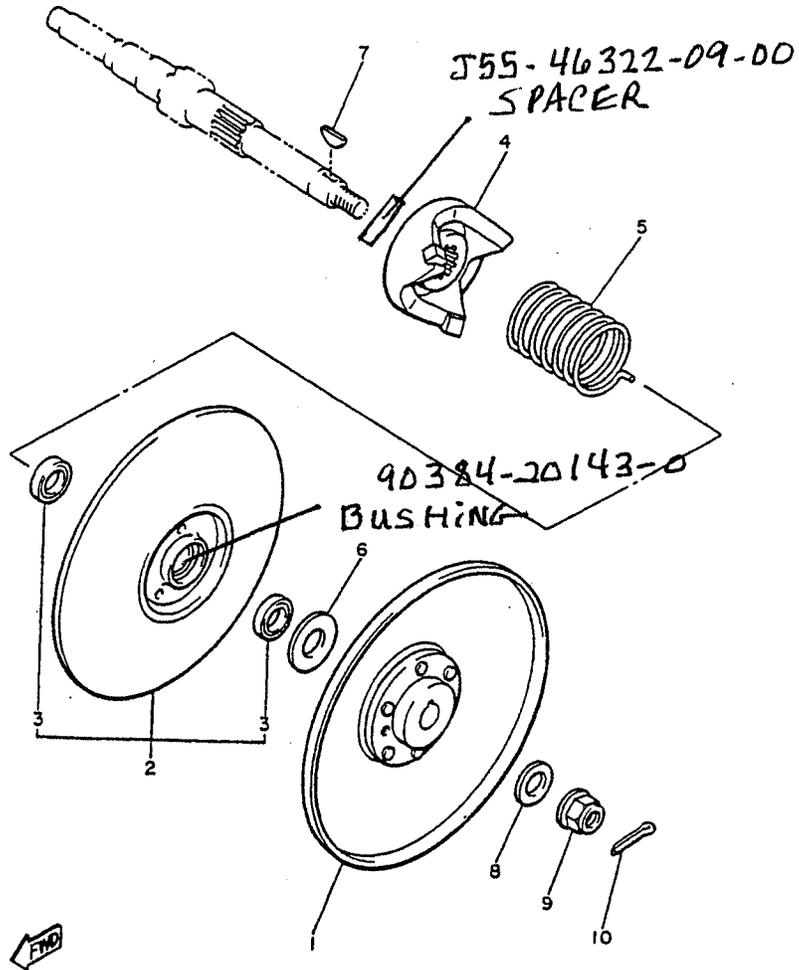
R 6-80 POWER TRAIN
SHEAVES, REAR AXLE AND TRANSMISSION
PRIMARY SHEAVE - FIGURE 6



R 6-80 POWER TRAIN
SHEAVES, REAR AXLE AND TRANSMISSION
PRIMARY SHEAVE PARTS LIST
Figure 6

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	J38-46210-00-00	PRIMARY FIXED SHEAVE COMP	1
2	J38-46220-00-00	PRIMARY SLIDING SHEAVE COMP	1
3	93102-28348-00	OIL SEAL	2
4	J38-46253-00-00	SLIDER	3
5	98901-05008-00	SCREW, BIND	3
6	93700-06004-00	NIPPLE, GREASE	1
7	J38-46251-00-00	SPIDER	1
8	J38-46231-00-00	CAP	1
9	J38-46205-00-00	WEIGHT LINK ASSEMBLY	3
10	J38-46236-00-00	PIN, WEIGHT	3
11	J38-46237-00-00	PIN, WEIGHT 2	3
12	90113-04050-00	BOLT, SET	12
13	98501-05010-00	SCREW, PAN HEAD (98503-05008)	6
14	92903-05100-00	WASHER, SPRING (92901-05100)	6
15	J38-46249-00-00	BOLT	1
16	J38-46241-00-00	V-BELT	1

R 6-80 POWER TRAIN
SHEAVES, REAR AXLE AND TRANSMISSION
SECONDARY SHEAVE - FIGURE 7

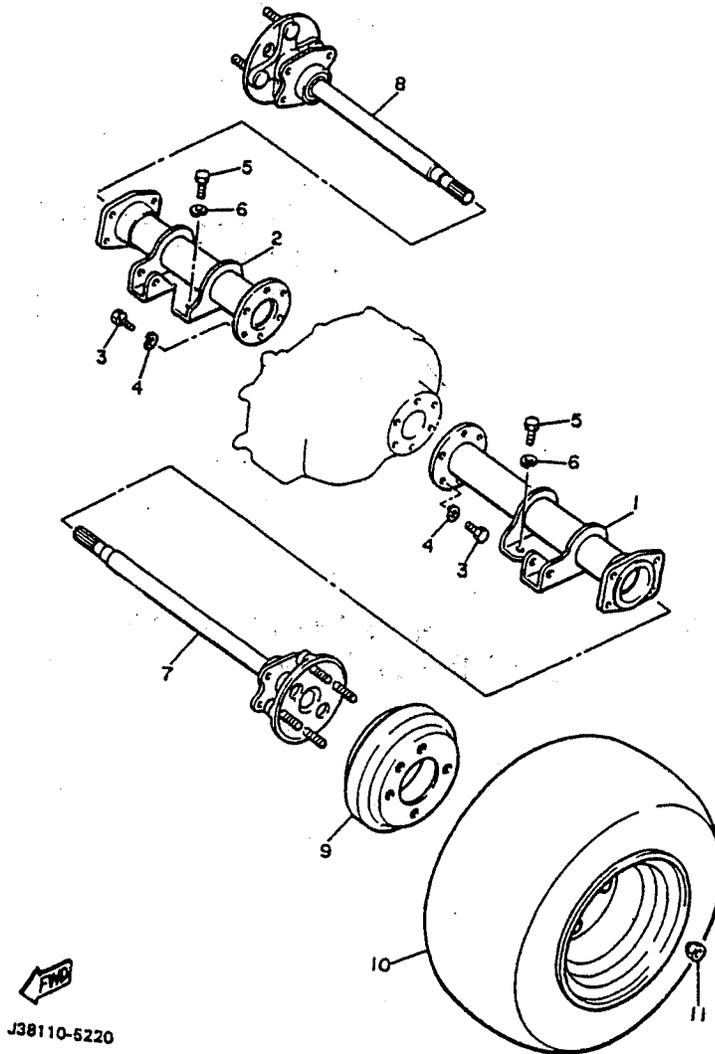


SECONDARY SHEAVE PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	J38-46260-00-00	SECONDARY FIXED SHEAVE COMP	1
2	J38-46270-00-00	SECONDARY SLIDING SHEAVE COMP	1
3	93102-20309-00	OIL SEAL	2
4	J38-46280-00-00	SECONDARY SPRING SEAT COMP	1
5	90508-45679-00	SPRING, TORSION	1
6	90202-20130-00	WASHER, PLATE	1
7	90280-05022-00	KEY, WOODRUFF	1
8	90201-12588-00	WASHER, PLATE	1
9	90185-12093-00	NUT, SELF-LOCKING	1
10	91401-25025-00	PIN, COTTER	1

R 6-80 POWER TRAIN
SHEAVES, REAR AXLE AND TRANSMISSION

REAR AXLE - FIGURE 8

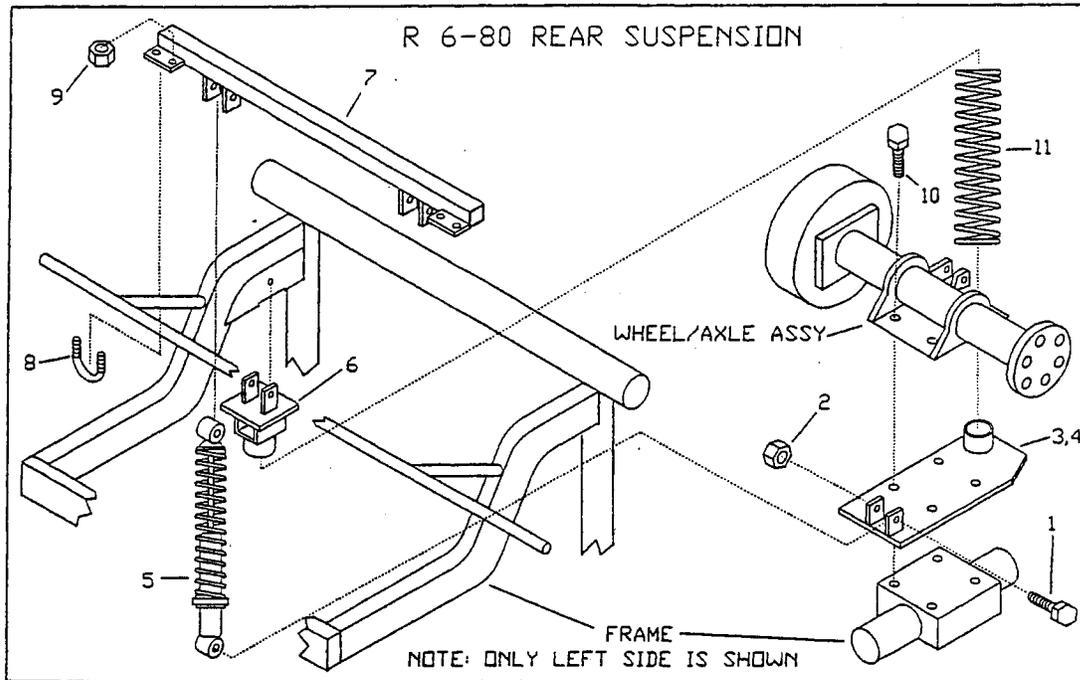


J38110-5220

REAR AXLE PARTS LIST

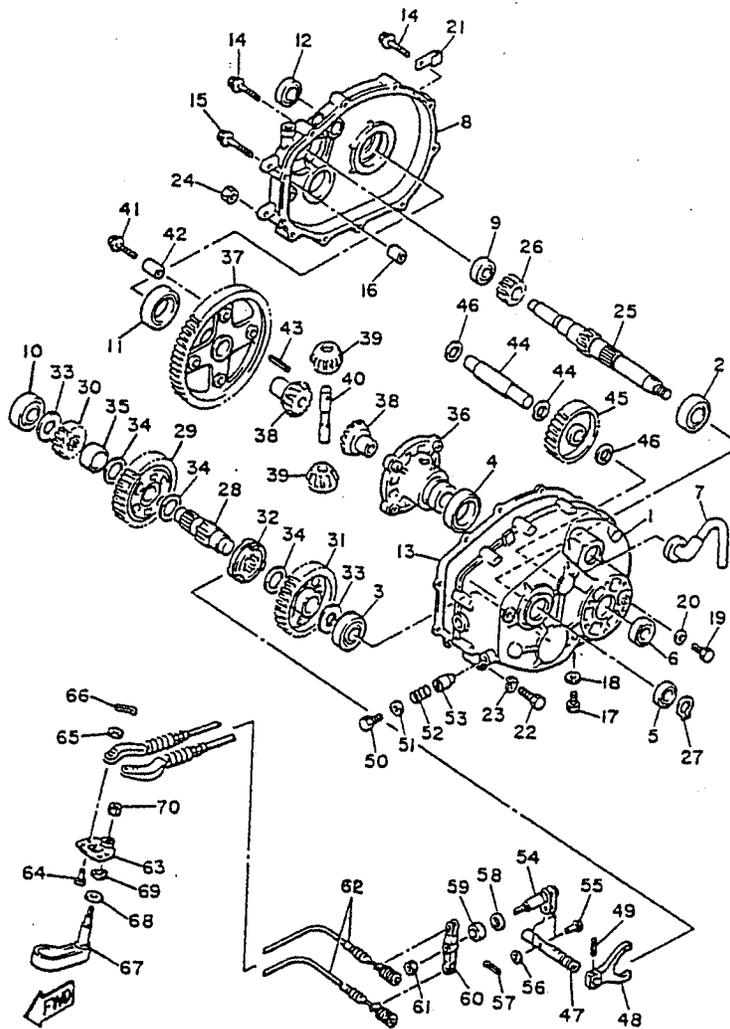
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	J38-46540-00-00	REAR AXLE HOUSING COMP	1
2	J38-46550-00-00	REAR AXLE HOUSING COMP 2	1
3	97321-08025-00	BOLT (97322-08025)	12
4	92903-08100-00	WASHER, SPRING (92902-08100)	12
5	97321-10020-00	BOLT (97322-10020)	8
6	92903-10100-00	WASHER, SPRING	8
7	J38-46510-00-00	REAR AXLE SHAFT COMP	1
8	J38-46520-00-00	REAR AXLE SHAFT COMP 2	1
9	J17-46521-00-00	DRUM	2
10	13-743-12	REAR WHEEL ASSEMBLY	2
11	90179-12262-00	NUT	8

R 6-80 POWER TRAIN
SHEAVES, REAR AXLE AND TRANSMISSION
REAR SUSPENSION FIGURE 8A



ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	97002-10050-00	BOLT, 10MM X 50MM, HX HEAD	6
2	95602-10100-00	NUT, 10MM	14
3	03-380-28	BRACKET, SHOCK MOUNT, LEFT	1
4	03-380-27	BRACKET, SHOCK MOUNT, RIGHT	1
5	J38-22210-00-00	SHOCK ABSORBER	2
6	03-380-05	MOUNT, SPRING TOP	2
7	03-380-14	MOUNT, SHOCK	1
8	96-115-00	U-BOLT	2
9	88-109-87	NUT, 3/8 NC KEPS	4
10	97522-10430-00	BOLT, 10MM X 30MM	8
11	85-150-00	SPRING, COMPRESSION	2

R 6-80 POWER TRAIN
SHEAVES, REAR AXLE AND TRANSMISSION
TRANSMISSION - FIGURE 9



R 6-80 POWER TRAIN
SHEAVES, REAR AXLE AND TRANSMISSION
TRANSMISSION PARTS LIST
Figure 9

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	J38-46311-00-00	CASE, TRANSMISSION 1	1
2	93306-20541-00	BEARING (B6205)	1
3	93306-20401-00	BEARING (B6204)	1
4	93306-00801-00	BEARING (B6008)	1
5	93102-25017-00	OIL SEAL	1
6	93102-22189-00	OIL SEAL	1
7	835-47559-00-00	CAP 2	1
8	J38-46312-00-00	CASE, TRANSMISSION 2	1
9	93306-20324-00	BEARING	1
10	93306-20401-00	BEARING (B6204)	1
11	93306-00801-00	BEARING (B6008)	1
12	93102-22189-00	OIL SEAL	1
13	J38-46319-00-00	GASKET	1
14	95822-08040-00	BOLT, FLANGE	8
15	98522-08050-00	BOLT, FLANGE	2
16	91830-22016-00	PIN, DOWEL (91810-05016)	2
17	90340-14036-00	PLUG, STRAIGHT SCREW	1
18	90430-14043-00	GASKET	1
19	90101-08344-00	BOLT	1
20	90430-08119-00	GASKET	1
21	90465-06011-00	CLAMP	1
22	97322-08075-00	BOLT	1
23	92903-08100-00	WASHER, SPRING (92902-08100)	1
24	95301-08600-00	NUT (95302-08600)	1
25	J38-46321-00-00	SHAFT, INPUT	1
26	J38-46331-01-00	GEAR, INPUT 1	1
27	93410-25017-00	CIRCLIP	1
28	J38-46351-00-00	SHAFT, COUNTER	1
29	J38-46361-01-00	GEAR, COUNTER 1	1
30	J38-46362-00-00	GEAR, COUNTER 2	1
31	J38-46363-00-00	GEAR, REVERSE	1
32	J38-4636A-00-00	DOG, CLUTCH	1
33	90201-20611-00	WASHER, PLATE	2
34	90201-257J2-00	WASHER, PLATE	3
35	90387-252M8-00	COLLAR	1
36	J38-46411-01-00	CASE, DIFFERENTIAL	1
37	J38-46421-01-00	GEAR, RING	1
38	J38-46414-00-00	GEAR, DIFFERENTIAL SIDE	2
39	J38-46415-00-00	PINION, DIFFERENTIAL	2
40	J38-46417-00-00	PIN, DIFFERENTIAL	1
41	90105-08390-00	BOLT, WASHER BASED	4
42	91812-16001-00	PIN, DOWEL	2
43	91609-40036-00	PIN, SPRING	1
44	J38-46348-00-00	SHAFT 2	1
45	J38-46356-00-00	GEAR, IDLER	1
46	90201-17713-00	WASHER, PLATE	3
47	J38-4633A-00-00	BAR, SHIFT FORK GUIDE	1
48	J38-46338-00-00	FORK, SHAFT	1
49	91609-40020-00	PIN, SPRING	1
50	90101-08344-00	BOLT	1
51	90430-08119-00	GASKET	1
52	90501-10060-00	SPRING, COMPRESSION	1
53	90249-07190-00	PIN	1
54	J38-46384-00-00	LEVER, SHIFT 3	1
55	91702-06022-00	PIN, CLEVIS	1
56	92903-06200-00	WASHER (92902-06200)	1

R 6-80 POWER TRAIN
SHEAVES, REAR AXLE AND TRANSMISSION
TRANSMISSION PARTS LIST
Figure 9

ITEM NO.	PART NO.	DESCRIPTION	QTY.
57	91401-20015-00	PIN, COTTER	1
58	90201-12166-00	WASHER, PLATE	1
59	93102-12224-00	OIL SEAL	1
60	J38-46383-00-00	LEVER, SHIFT 2	1
61	95601-08100-00	NUT, U (95601-08100)	1
62	J38-46371-00-00	WIRE, SHIFT	2
63	J38-46382-00-00	LEVER, SHIFT 1	1
64	91702-06014-00	PIN, CLEVIS	2
65	92990-06600-00	WASHER, PLATE	2
66	91401-20015-00	PIN, COTTER	2
67	J38-46381-00-00	KNOB, SHIFT	1
68	90201-12729-00	WASHER, PLATE	1
69	99001-08600-00	CIRCLIP	1
70	95601-08100-00	NUT, U (95602-08100)	1

R 6-80 BRAKE SYSTEM

The R 6-80 vehicle is equipped with rear (pair) wheel, mechanical drum brakes. The brakes are controlled through interconnecting linkage to the foot brake pedal.

When the brake pedal is depressed, the brakes will be applied in proportion to the force applied to the brake pedal.

PARKING BRAKE: Is located above the pedal and functions as a lock on the regular brake. By depressing both at the same time, the parking brake is actuated. **Depressing the accelerator pedal, automatically releases the parking brake.**

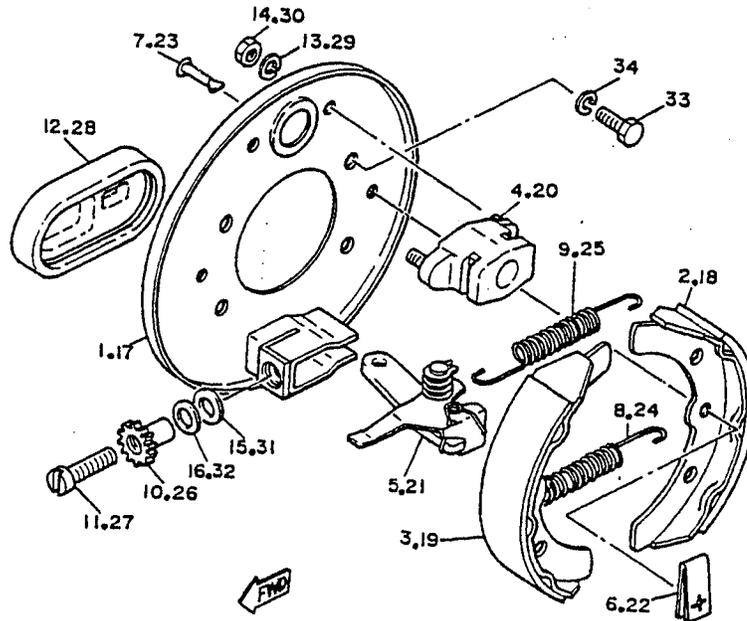
INSPECTION (See Section 4 for maintenance interval)

CAUTION: Turn key to "OFF" and remove. Apply parking brake.

Loosen the wheel nuts. Jack up the rear of vehicle. Release parking brake (depress accelerator pedal).

1. Remove wheel, wheel nuts and rear wheel
2. Inspect lining surface for scratches and/or oil. Clean completely with a non oily solvent. Polish with emery cloth. For scratches; lightly polish with emery cloth.
3. Measure lining thickness. Replace lining at .060 inches.
4. Remove brake drum. Screw in the (2) 10 mm bolts to loosen drum).
5. Inspect brake drum, same as step 2 above.
6. Measure inside diameter of drum. The wear limit is 6.34 inches.
7. Inspect brake shoe plate for bends, cracks or damage. Replace.
8. Inspect dust cover for cracks and wear, replace.
9. CHECK: Self adjusting device (items 10, 11, 5 on Figure 10) adjusting bolt and nut, brake lever assembly and lever hoder. Any items worn or damaged should be replaced. Unsmooth movement, lubricate with lightweight grease.

R 6-80 BRAKE SYSTEM
DRUM BRAKE - FIGURE 10



ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	J17-27208-00-00	BACKING PLATE SUB ASSEMBLY 1	1
2	J17-25330-00-00	BRAKE SHOE COMP	1
3	J17-25340-00-00	BRAKE SHOE COMP	1
4	J17-27206-00-00	ANCHOR BODY COMP	1
5	J38-27204-00-00	LEVER ASSEMBLY 1	1
6	J10-27281-00-00	SPRING, SHOE CLAMP	2
7	J10-27282-00-00	PIN, SHOE HOLD DOWN	2
8	90506-20281-00	SPRING, TENSION	1
9	90506-26191-00	SPRING, TENSION	1
10	J17-27238-00-00	NUT, ADJUSTING	1
11	90109-08657-00	BOLT	1
12	J10-27286-00-00	COVER, DUST	1
13	29203-06100-00	WASHER, SPRING (92902-06100)	2
14	95302-06600-00	NUT	2
15	90201-121H8-00	WASHER, PLATE	1
16	90201-121H9-00	WASHER, PLATE	1
17	J17-27209-00-00	BACKING PLATE SUB ASSEMBLY 2	1

R 6-80 BRAKE SYSTEM
DRUM BRAKE - FIGURE 10

ITEM NO.	PART NO.	DESCRIPTION	QTY.
18	J17-25330-00-00	BRAKE SHOE COMP.	1
19	J17-25234-00-00	BRAKE SHOE COMP.	1
20	J17-27206-00-00	ANCHOR BODY COMP.	1
21	J38-26205-00-00	LEVER ASS'Y 2	1
22	J10-27281-00-00	SPRING, SHOE CLAMP	2
23	J10-27282-00-00	PIN, SHOE HOLD DOWN	2
24	90506-20281-00	SPRING, TENSION	1
25	90506-26191-00	SPRING, TENSION	1
26	J17-27258-00-00	NUT, ADJUSTING	1
27	90109-08659-00	BOLT	1
28	J10-27286-00-00	COVER, DUST	1
29	92903-06100-00	WASHER, SPRING (92909-06100)	2
30	95302-06600-00	NUT	2
31	90201-121H8-00	WASHER, PLATE	1
32	90201-121H9-00	WASHER, PLATE	1
33	97313-08016-00	BOLT (97322-07016)	8
34	92903-08100-00	WASHER, SPRING (92902-08100)	8

R 6-80 ENGINE

GENERAL INFORMATION:

The engine in this vehicle is 8.6 HP @ 4000 RPM 285 cc 4 stroke gasoline OHV, single cylinder, force air cooled with a governor.

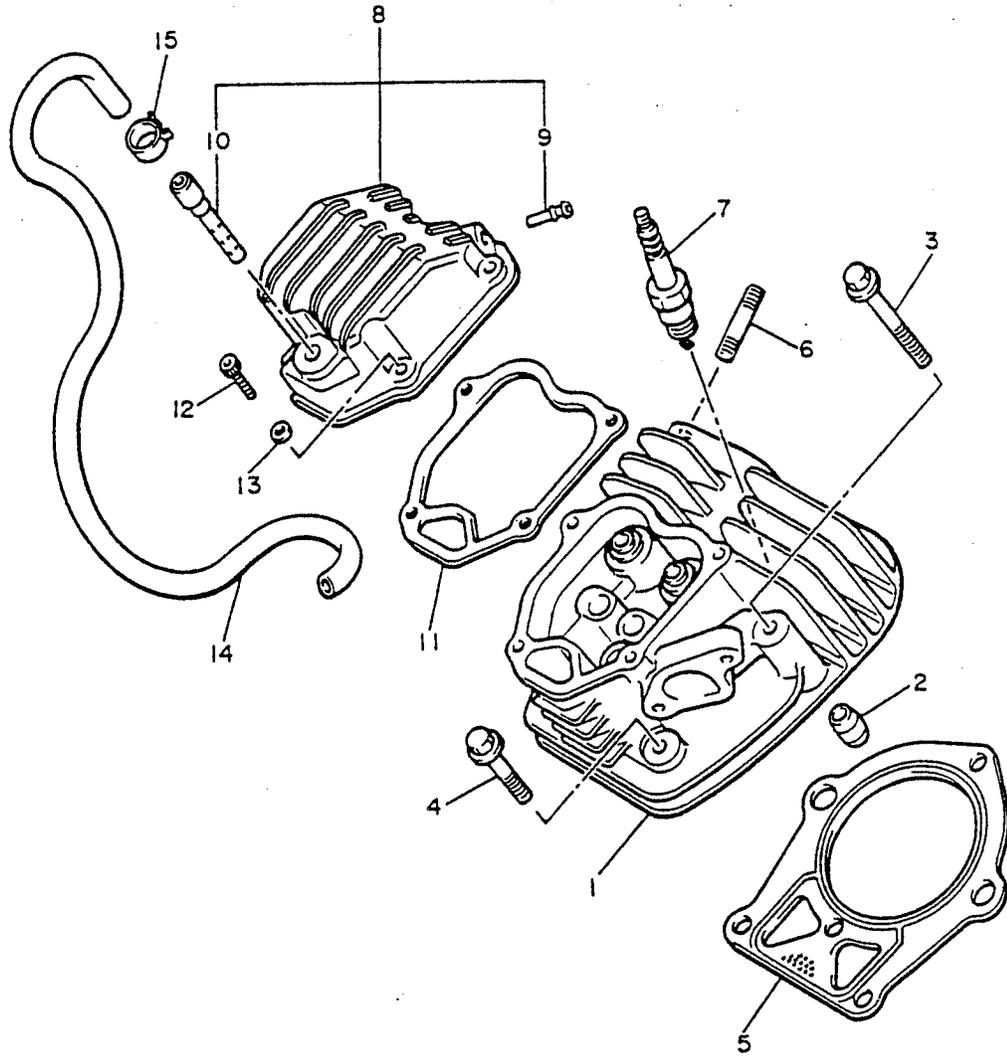
No major repairs or maintenance other than periodic servicing are documented in this manual. The same is true of the transmission.

For major repairs and maintenance of the engine and transmission the Yamaha service manual G2-A part no. LIT-11616-04-90 should be used in place of this manual.

The engine is made up of several sub-assemblies. The engine sub-assemblies found in this section are:

CRANKCASE
CRANKSHAFT
CYLINDER
EXHAUST
FAN
GOVERNER
PISTON
VALVE
ENGINE BRACKET

R 6-80 ENGINE CYLINDER FIGURE 11

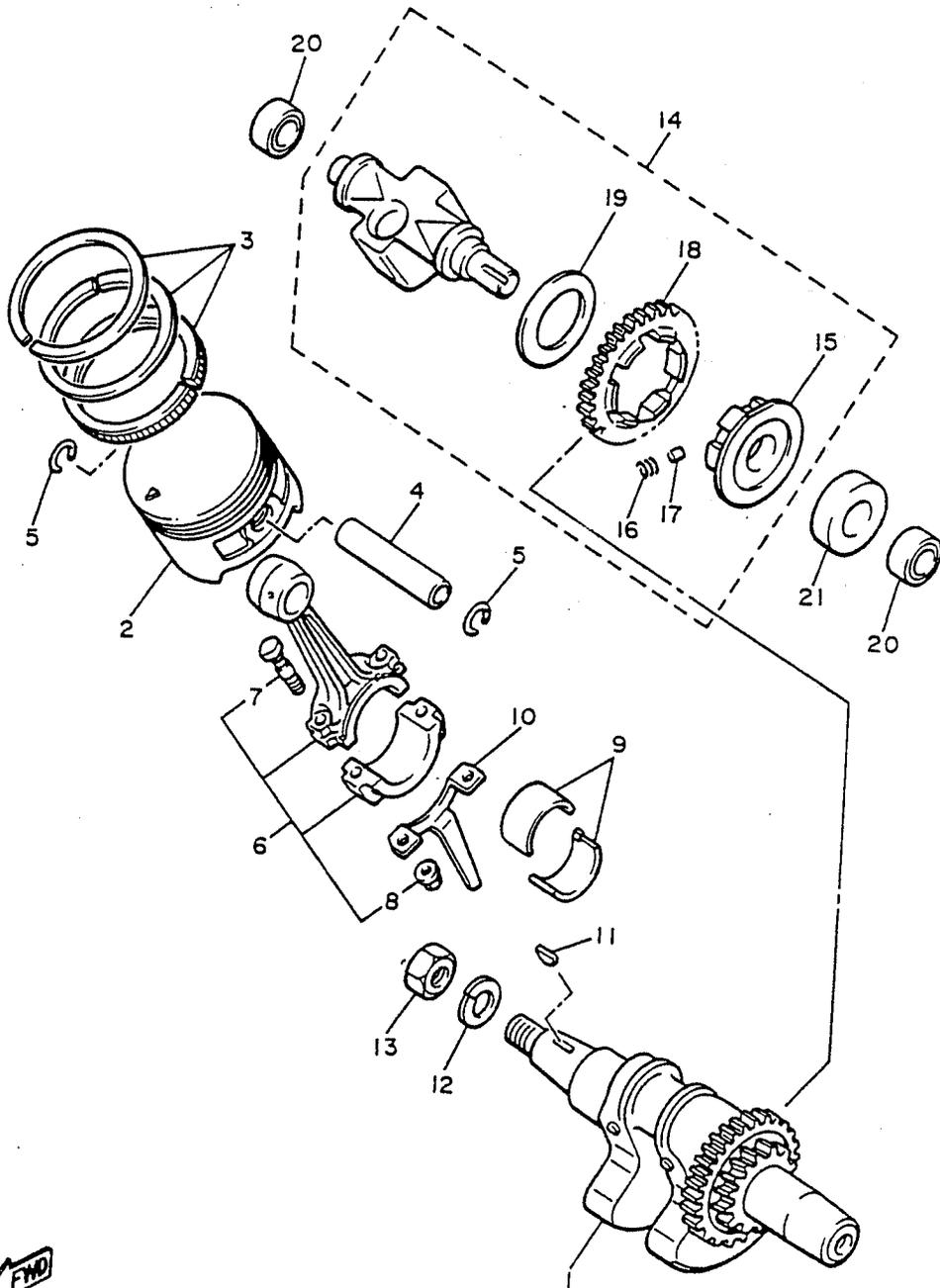


R 6-80 ENGINE

CYLINDER PARTS LIST - FIGURE 11

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	J389Y1111-00-00	CYLINDER HEAD ASSEMBLY	1
2	91830-22016-00	PIN, DOWEL (91810-05016)	2
3	95812-0807-00	BOLT, FLANGE	3
4	95812-08045-00	BOLT, FLANGE	3
5	J38-11181-00-00	GASKET, CYLINDER HEAD 1	1
6	95622-08618-00	BOLT, STUD	2
7	NGK-B5ES0-00-00	PLUG, SPARK	1
8	J38-11101-00-00	COVER, SYLINDER HEAD 1	1
9	J38-11116-00-00	JOINT, BREATHER	2
10	J38-24461-00-00	PIPE, JOINT	1
11	J38-11193-00-00	GASKET, HEAD COVER 1	1
12	91312-06025-00	BOLT	4
13	92990-06600-00	WASHER, PLATE	4
14	J38-11166-00-00	PIPE, BREATHER 1	1
15	90467-12053-00	CLIP	2

R 6-80 ENGINE
CRANKSHAFT-PISTON FIGURE 12

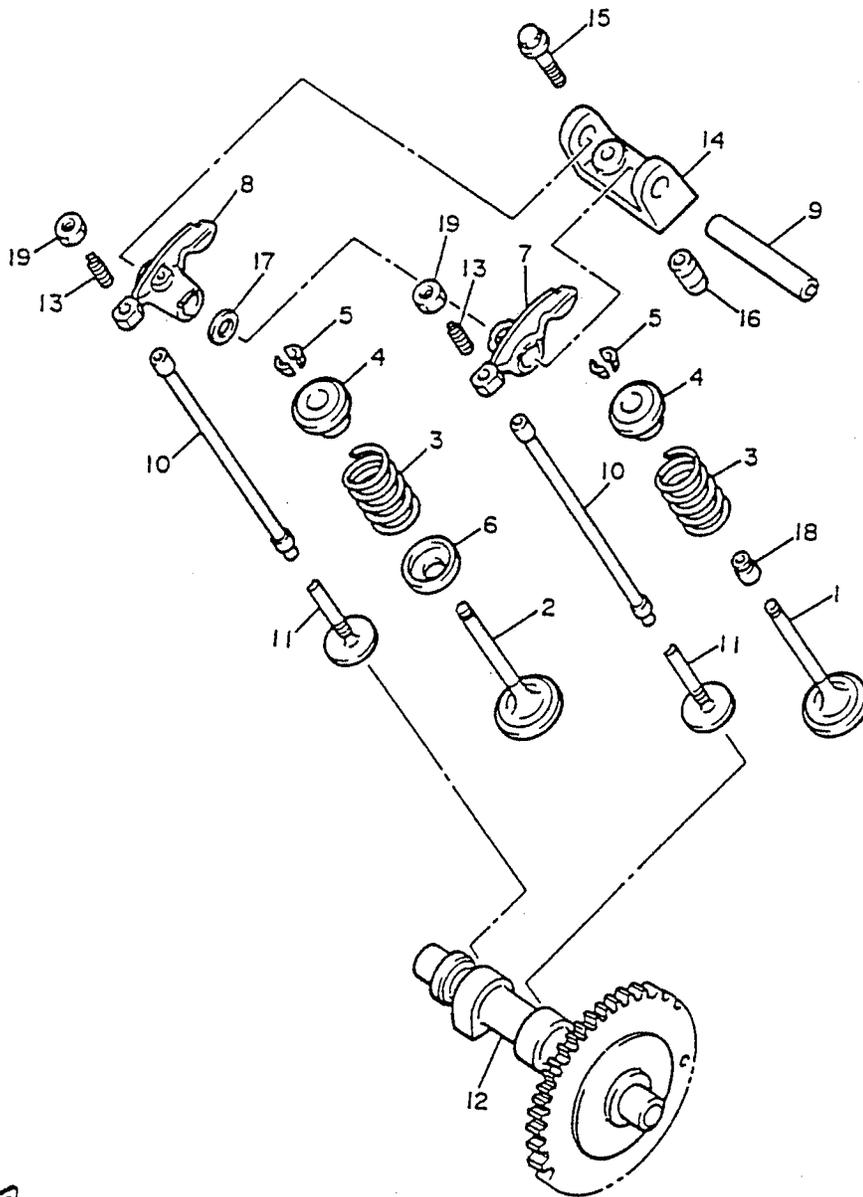


END

R 6-80 ENGINE
CRANKSHAFT-PISTON PARTS LIST FIGURE 12

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	J38-11400-00-00	CRANKSHAFT ASSEMBLY	1
2	J38-11631-00-00	PISTON (STD)	1
	J38-11635-00-00	PISTON (Ø.25 MM O/S)	1
	J38-11636-00-00	PISTON (Ø.50 MM O/S)	1
3	J38-11610-00-00	PISTON RING SET (STD)	1
	J38-11610-10-00	PISTON RING SET (1ST O/S)	1
	J38-11610-20-00	PISTON RING SET (2ND O/S)	1
4	2F1-11633-00-00	PIN, PISTON	1
5	93450-19052-00	CIRCLIP	2
6	J38-Y1165-00-00	CONNECTING ROD ASSEMBLY	1
7	J38-11654-00-00	BOLT, CONNECTING ROD	2
8	90179-08327-00	NUT	2
9	J38-11656-00-00	BEARING, CON-ROD (BROWN)	2
	J38-11656-10-00	BEARING, CON-ROD (BLACK)	2
	J38-11656-20-00	BEARING, CON-ROD (BLUE)	2
10	J38-11657-00-00	SPLASHER, OIL	1
11	90280-05013-00	KEY, WOODRUFF	1
12	92901-16100-00	WASHER, SPRING	1
13	90170-16182-00	NUT	1
14	J38-11500-00-00	BALANCER ASSEMBLY	1
15	25G-11496-00-00	BOSS, BUFFER	1
16	90501-21133-00	SPRING, COMPRESSION	6
17	93605-10090-00	PIN, DOWEL	3
18	J38-11531-00-00	GEAR, BALANCE WEIGHT	1
19	90201-201G9-00	WASHER PLATE	1
20	93318-31507-00	BEARING, CYLINDRICAL	2
21	90387-152M7-00	COLLAR	1

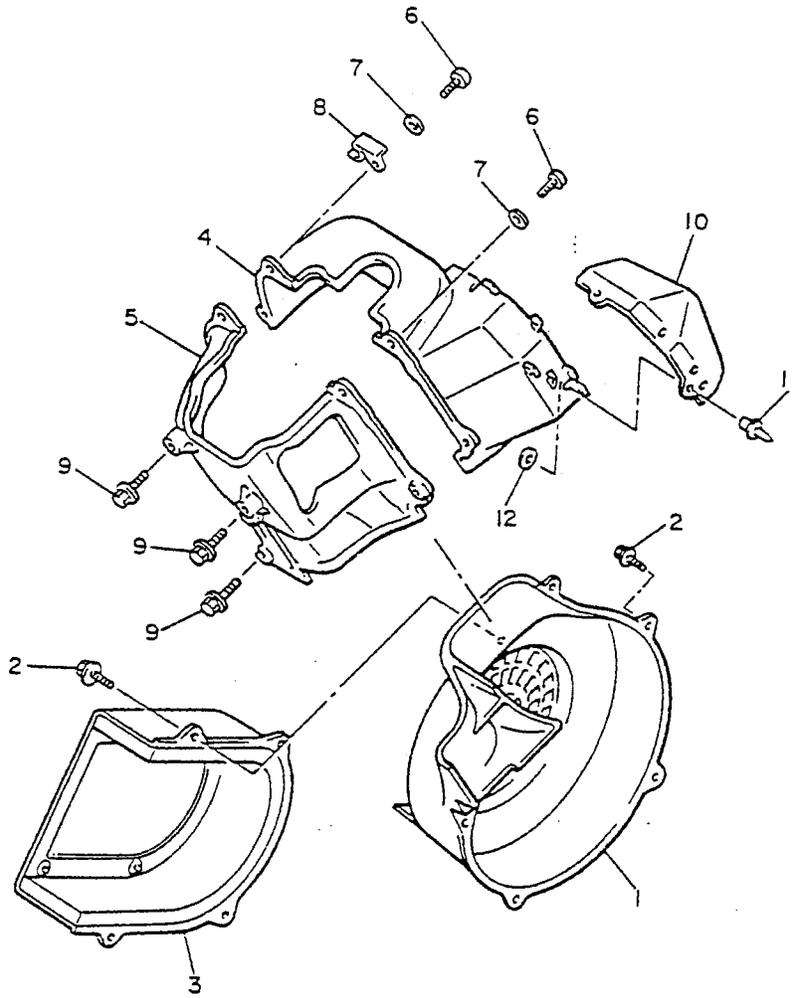
R 6-80 ENGINE
VALVE FIGURE 13



R 6-80 ENGINE
VALVE PART LIST FIGURE 13

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	J38-12111-00-00	VALVE, INTAKE	1
2	J38-12121-00-00	VALVE, EXHAUST	1
3	90501-264A9-00	SPRING, COMPRESSION	2
4	J38-12117-00-00	RETAINER, VALVE SPRING	2
5	4G0-12118-00-00	COTTER, VALVE	4
6	J38-12219-00-00	SEAT, SPRING	1
7	J38-12151-00-00	ARM, VALVE ROCKER	1
8	J38-12161-00-00	ARM, VALVE ROCKER 2	1
9	J38-12156-00-00	SHAFT, ROCKERR 2	1
10	J38-12154-00-00	ROD, VALVE PUSH	2
11	J38-12153-00-00	LIFTER, VALVE	2
12	J38-12171-00-00	CAMSHAFT 1	1
13	J38-12159-00-00	SCREW, VALVE ADJUSTING	2
14	J38-12152-00-00	SUPPORT, ROCKER ARM	1
15	95822-06030-00	BOLT, FLANGE	2
16	91810-09014-00	PIN, DOWEL	2
17	90201-127J1-00	WASHER, PLATE	1
18	5H0-12119-00-00	SEAL, VALVE STEM	1
19	90170-06128-00	NUT	2

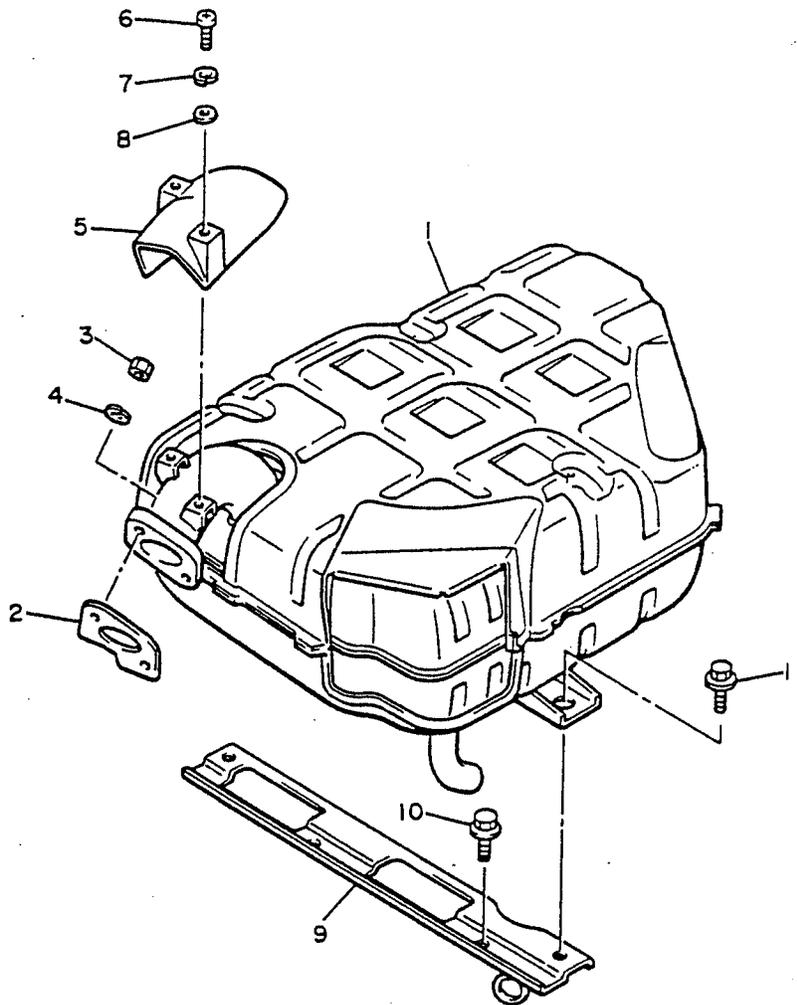
R 6-80
ENGINE AIR SHROUD
FIGURE 14



R 6-80 ENGINE
AIR SHROUD - FAN PARTS LIST
FIGURE 14

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	J38-12621-00-00	CASE, FAN	1
2	95802-06020-00	BOLT, FLANGE	9
3	J38-12640-00-00	FAN CASE COVER COMP	1
4	J38-12651-00-00	AIR SHROUD, CYLINDER 1	1
5	J38-12652-00-00	AIR SHROUD, CYLINDER 2	1
6	95202-06016-00	SCREW, PAN HEAD	4
7	92990-06600-00	WASHER, PLATE	4
8	90465-10129-00	CLAMP	1
9	90105-06124-00	BOLT, WASHER BASED	4
10	J38-12631-00-00	DEFLECTOR 1	1
11	90267-48040-00	RIVET, BLIND	2
12	90201-04325-00	WASHER, PLATE	2

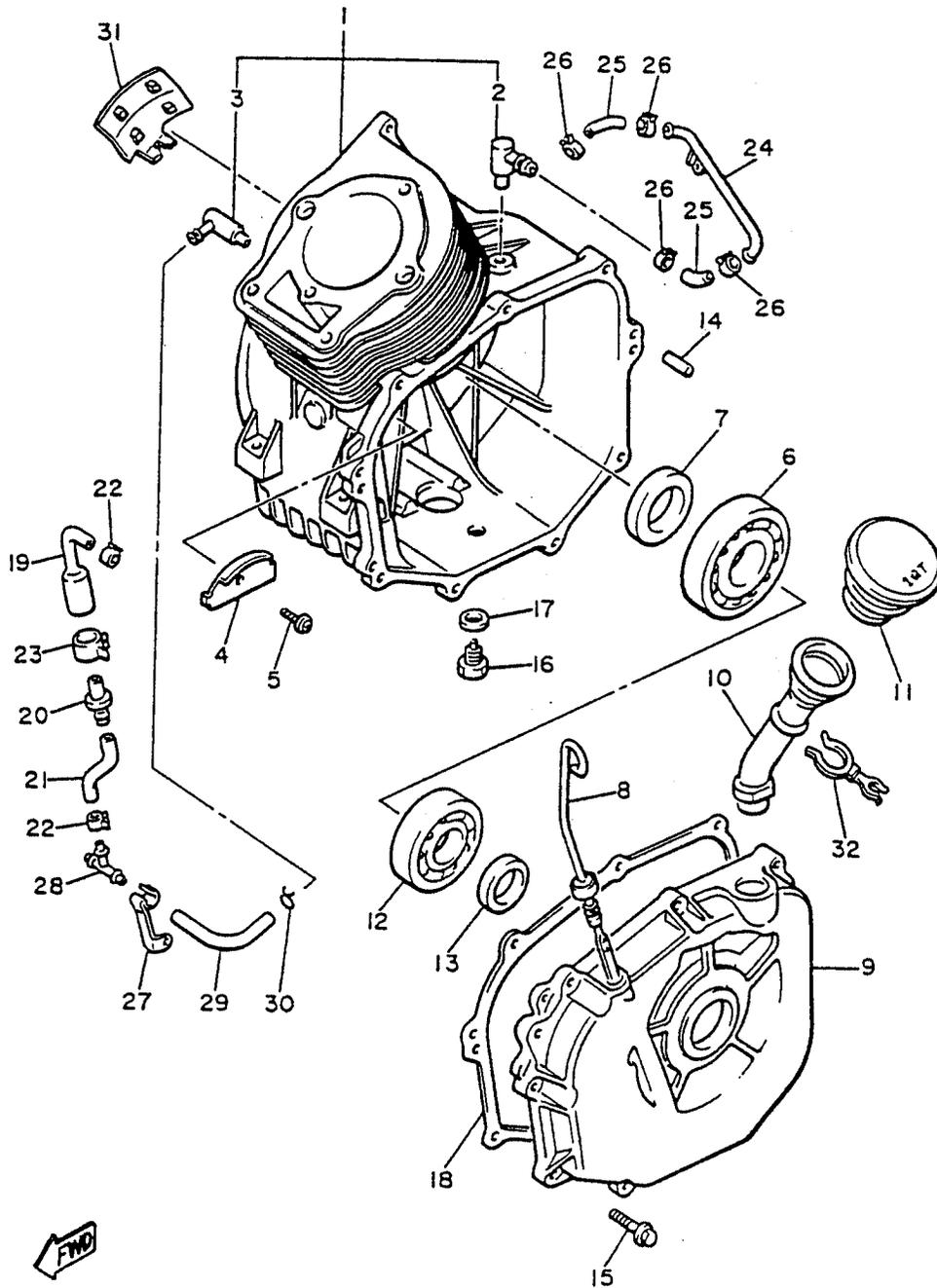
R 6-80 ENGINE
EXHAUST FIGURE 15



R 6-80 ENGINE
EXHAUST PARTS LIST
FIGURE 15

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	J38-14710-00-00	MUFFLER ASS'Y 1	1
2	J38-14613-00-00	GASKET, EXHAUST PIPE	1
3	95380-08600-00	NUT	2
4	92990-08100-00	WASHER, SPRING	2
5	J38-14738-00-00	PROTECTOR, MUFFLER 3	1
6	92580-06012-00	SCREW, PAN HEAD	2
7	92990-06100-00	WASHER, SPRING	2
8	92990-06600-00	WASHER, PLATE	2
9	J38-14771-00-00	STAY, MUFFLER 1	1
10	95026-10020-00	BOLT, FLANGE	2
11	90119-08119-00	BOLT, W/WASHER	2

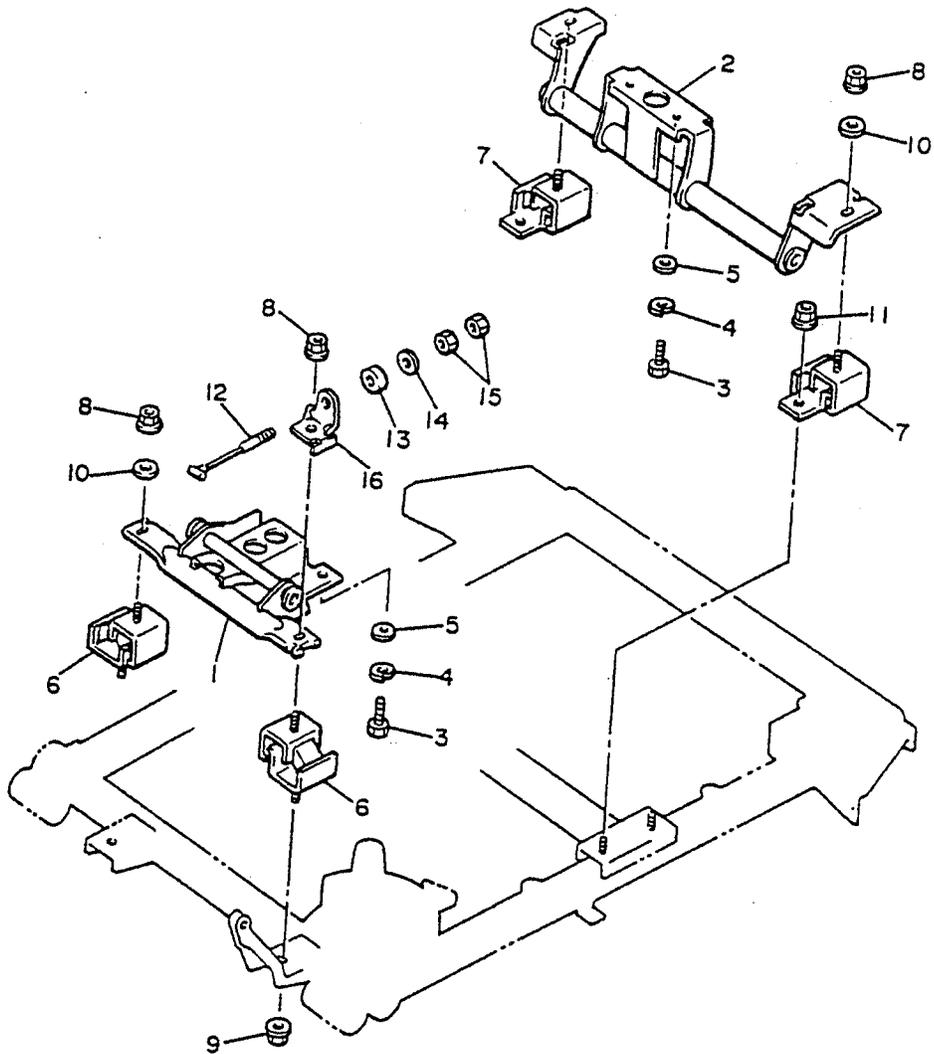
R 6-80 ENGINE
CRANKCASE FIGURE 16



R 6-80 ENGINE
CRANKCASE PARTS LIST
FIGURE 16

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	J38-15100-00-00	CRANKCASE ASS'Y	1
2	J38-15148-00-00	. NOZZLE 2	1
3	J38-15155-00-00	. NOZZLE 3	1
4	J38-15123-00-00	PLATE, BUFFLE 1	1
5	90159-05117-00	SCREW, W/WASHER	1
6	93306-30709-00	BEARING	1
7	93102-35191-00	OIL SEAL	1
8	J38-15361-00-00	GAUGE, LEVEL	1
9	J38-15411-00-00	COVER, CRANKCASE 1	1
10	J38-15112-00-00	PIPE, OIL	1
11	J38-15363-00-00	PLUG, OIL	1
12	93306-30621-00	BEARING (B6306)	1
13	93102-30195-00	OIL SEAL	1
14	93608-12063-00	PIN, DOWEL	2
15	95822-08035-00	BOLT, FLANGE	9
16	J38-13455-00-00	PLUG	1
17	90430-13138-00	GASKET	1
18	J38-15451-00-00	GASKET, CRANKCASE COVER 1	1
19	J38-14388-00-00	VALVE, VACUUM CONTROL	1
20	J38-13115-00-00	CONNECTOR, SUCTION PIPE	1
21	90445-113E4-00	HOSE	1
22	90467-10035-00	CLIP	2
23	90468-03104-00	CLIP	1
24	J38-13161-00-00	PIPE, DELIVERY 1	1
25	90445-110E6-00	HOSE	2
26	90467-10035-00	CLIP	4
27	90465-10292-00	CLAMP	1
28	807-24376-00-00	PIPE, JOINT 1	1
29	90445-09066-00	HOSE	1
30	90467-08016-00	CLIP	1
31	J38-11355-00-00	SEAL, CYLINDER 1	1
32	90468-60180-00	CLIP	1

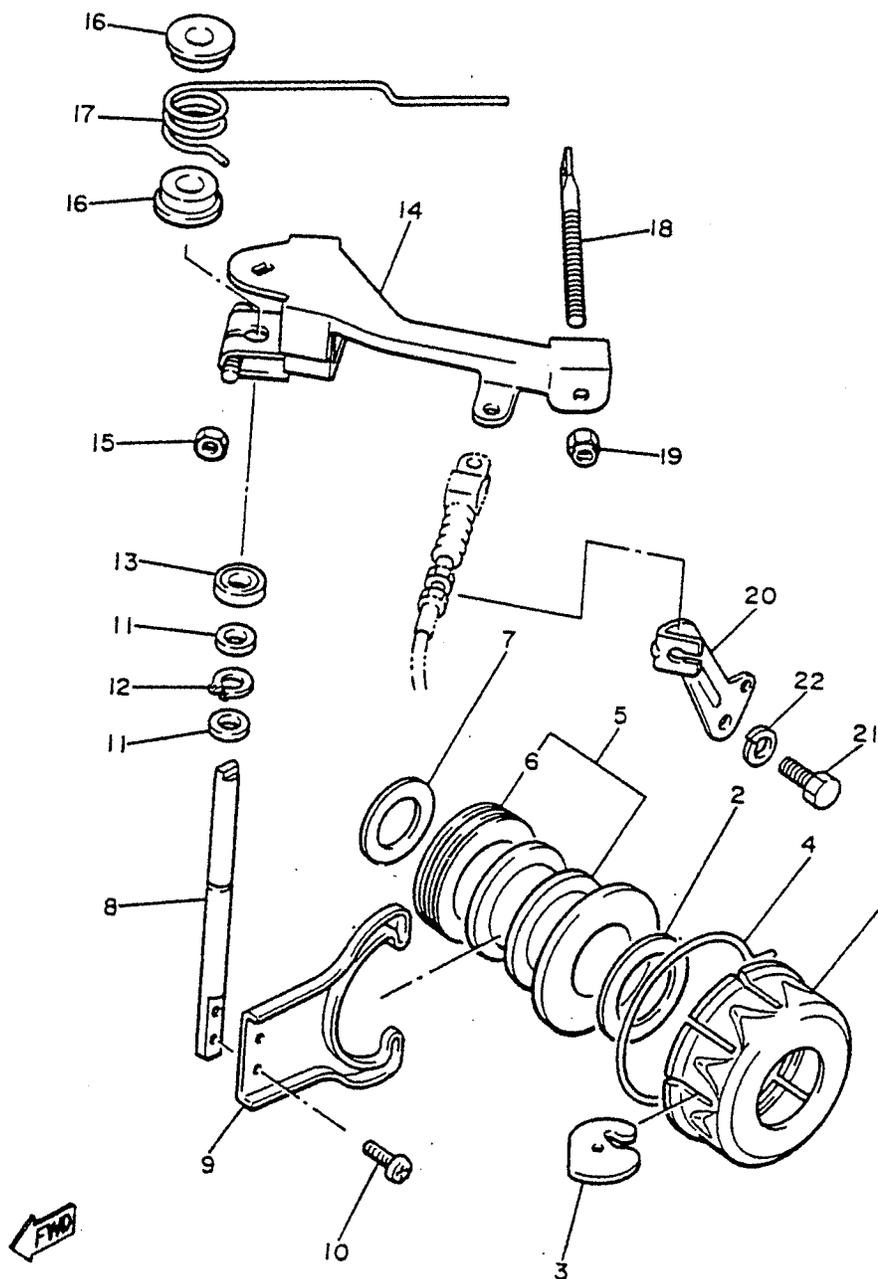
R 6-80 ENGINE
BRACKET FIGURE 17



R 6-80 ENGINE
BRACKET PARTS LIST
FIGURE 17

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	J38-21411-00-00	BRACKET, ENGINE 1	1
2	J38-21419-00-00	BRACKET, ENGINE 2	1
3	97322-10025-00	BOLT	4
4	92903-10100-00	WASHER, SPRING (92901-10100)	4
5	92901-10600-00	WASHER, PLATE (92902-10600)	4
6	J38-21486-00-00	DAMPER 2	2
7	J38-21488-00-00	DAMPER	2
8	90185-10130-00	NUT, SELF-LOCKING	4
9	95702-10500-00	NUT, FLANGE	2
10	90201-10136-00	WASHER, PALTE	3
11	90185-08106-00	NUT, SELF-LOCKING	4
12	J17-2217J-00-00	TENSIONER 1	1
13	J17-2214F-00-00	DAMPER 1	1
14	90201-06778-00	WASHER, PLATE	1
15	95032-06600-00	NUT	2
16	J38-2141A-00-00	BRACKET 1	1

R 6-80 ENGINE GOVERNOR
FIGURE 18



R 6-80 ENGINE GOVERNOR
FIGURE 18

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	J10-27912-00-00	RETAINER	1
2	90387-21690-00	COLLAR	1
3	J10-27913-00-00	WEIGHT	12
4	J10-27911-00-00	HOLDER	1
5	J10-27927-00-00	LIFTER	1
6	93342-22502-00	. BEARING	1
7	90201-20275-00	WASHER, PLATE	1
8	J38-27921-00-00	SHAFT, GOVERNOR	1
9	J10-27922-00-00	FORK, GOVERNOR	1
10	98501-04008-00	SCREW, PAN HEAD	2
11	90202-08110-00	WASHER, PLATE	2
12	99001-06600-00	CIRCLIP	1
13	93104-08058-00	OIL SEAL	1
14	J38-27951-00-00	LEVER, SPEED LIMITER	1
15	95302-06600-00	NUT	1
16	90386-08141-00	BUSH	2
17	90508 90507 -40678-00	SPRING, TORSION	1
18	J38-27959-00-00	SCREW, ADJUSTING	1
19	95702-06300-00	NUT, NYLON	1
20	J38-27982-00-00	BRACKET, WIRE	1
21	97302-08016-00	BOLT	1
22	92903-08100-00	WASHER, SPRING (92902-08100)	1

MAINTENANCE PROCEDURES
CONTROL LINKAGE, BRAKE PEDAL, AND
ACCELERATOR PEDAL

The mechanical control linkage operates the various controls and mechanisms located throughout your vehicle.

All wear points should be lubricated according to section 4.

CAUTION:

Before performing any of the following inspection or adjustments, turn the main switch to "off" and remove the key.

BRAKE CABLE INSPECTION:

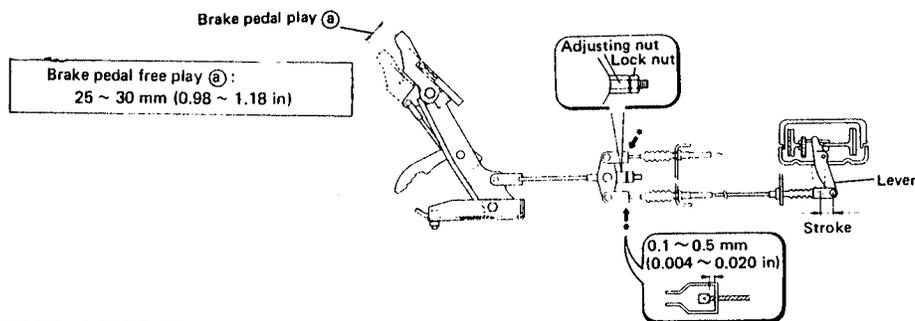
At brake pedal, remove floor mat and service lid, exposing brake cable controls.

1. Brake cables
2. Brake rod
3. Clevis pins on the brake equalizer replace any damaged or worn parts.

MAINTENANCE PROCEDURES
CONTROL LINKAGE, BRAKE PEDAL, AND
ACCELERATION PEDAL

BRAKE CABLE ADJUSTMENT:

1. Measure brake cable end play 1. End play should be within .004 to .020in.
2. Loosen the locknut 2.
3. Adjust end play by turning the adjusting nut.
4. To **reduce** end play, turn the adjusting nut clockwise.
5. To **increase** end play, turn the adjusting nut counter-clockwise.
6. Tighten the locknut.



PARK BRAKE INSPECTION:

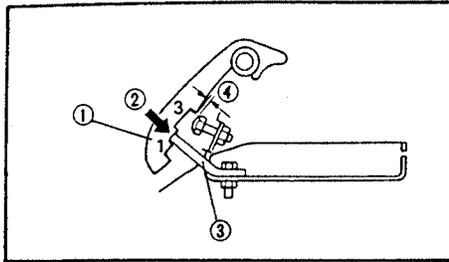
At brake pedal, remove floor mat and service lid.

1. Parking brake ratchet (refer to item 19 of park brake parts list in this section).
2. Ratchet stopper (refer to item 43 of park brake parts list in this section). Replace any damaged or worn parts.

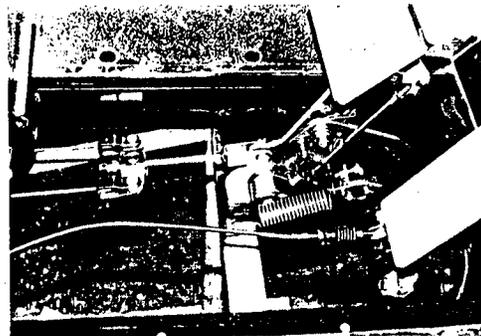
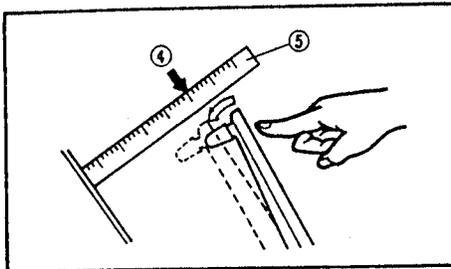
MAINTENANCE PROCEDURES
CONTROL LINKAGE, BRAKE PEDAL, AND
ACCELERATOR PEDAL

PARK BRAKE ADJUSTMENT: (Park brake & accelerator pedal)

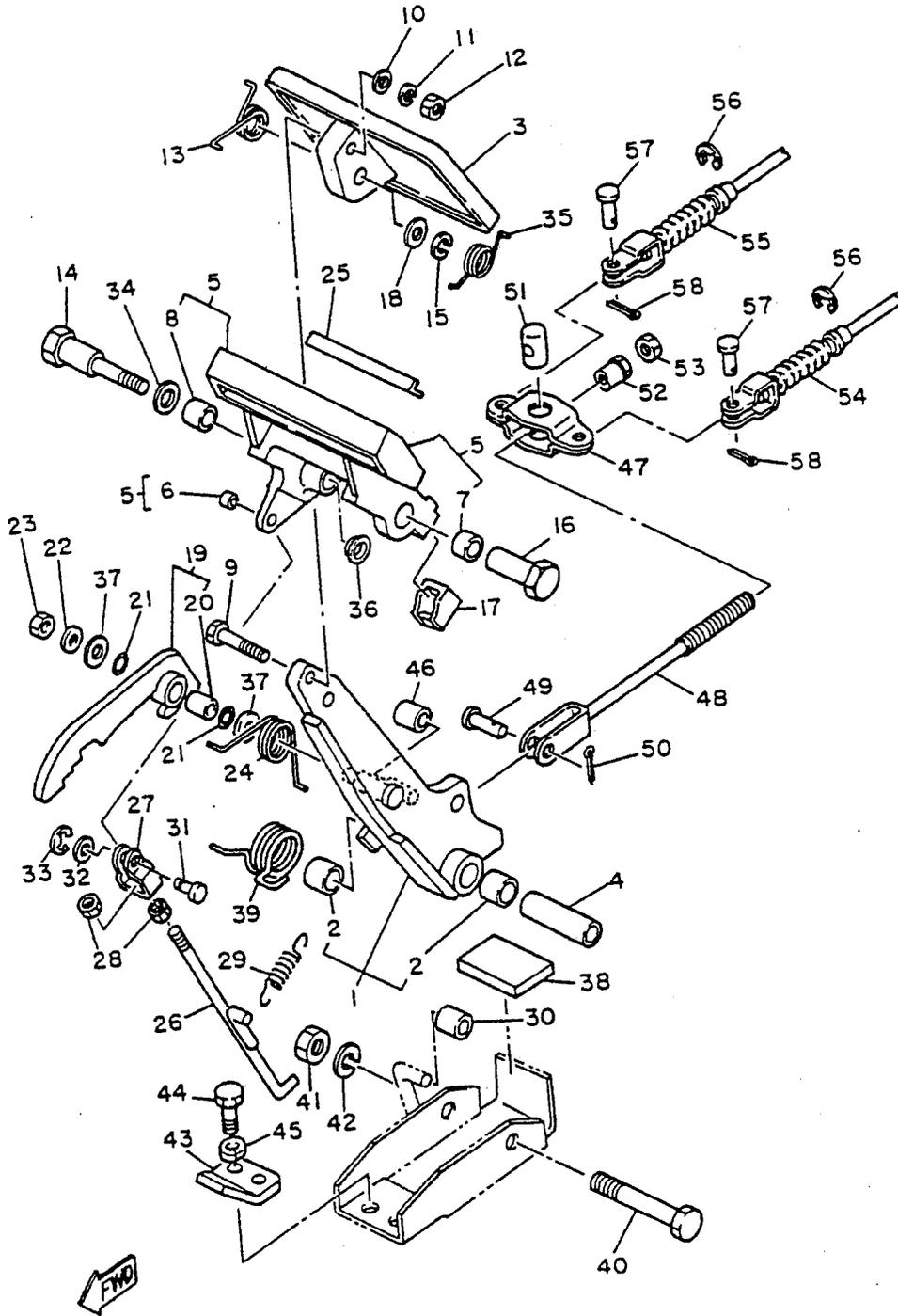
1. Apply brake.
2. Hook the ratchet 1, at the 2nd position 2, on the stopper 3, as shown.



3. Measure the position of acceleration pedal just as the carburetor begins to open, 4; using a ruler, 5, as shown.
4. Position the adjusting bolt 2 (see photo) so that the brake releases at the same time the carburetor begins to open.



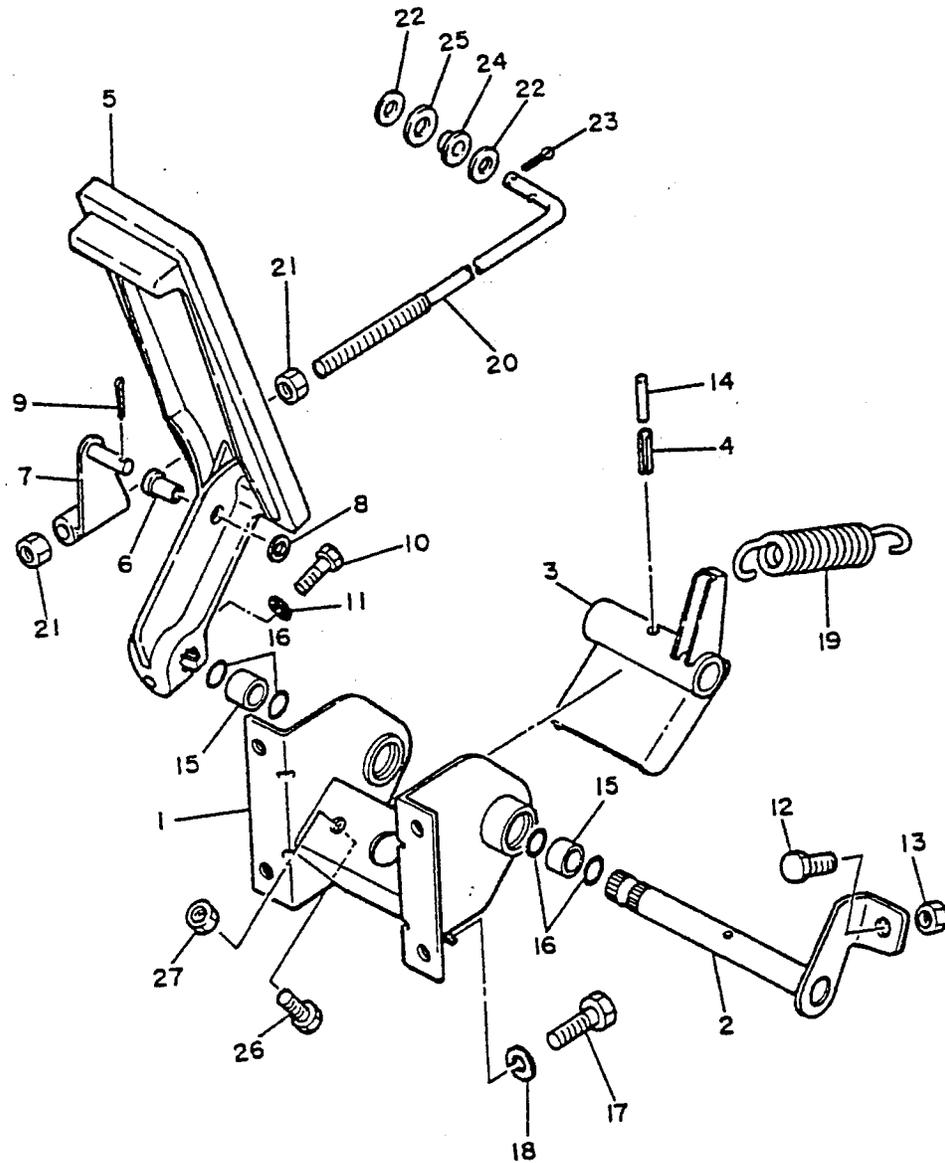
R 6-80 BRAKE PEDAL
FIGURE 18



R. 6-80 BRAKE PEDAL PARTS LIST
FIGURE 18

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	J17-27250-00-00	BRAKE ARM COMP.	1
2	90384-14080-00	.BUSH, BIMETAL FORMED	2
3	J10-27211-00-00	PEDAL, BRAKE	1
4	90387-107F8-00	COLLAR	1
5	J17-25670-00-00	PARKING PEDAL COMP	1
6	90384-05163-00	.BUSH, BIMETAL FORMED	1
7	90384-12164-00	.BUSH, BIMETAL FORMED	1
8	90380-12051-00	.BUSH, SOLID	1
9	90101-06555-00	BOLT	1
10	92903-06200-00	WASHER (92902-06299)	1
11	92903-06100-00	WASHER, SPRING (92902-06100)	1
12	95302-06600-00	NUT	1
13	90508-23542-00	SPRING, TORSION	1
14	90109-08669-00	BOLT	1
15	92903-08100-00	WASHER, SPRING (92902-08100)	1
16	90179-08378-00	NUT	1
17	J17-25679-00-00	DAMPER	2
18	92990-08200-00	WASHER, PLAIN	1
19	J17-W2561-00-00	SECTOR, PARKING BRAKE	1
20	90384-10162-00	.BUSH, BIMETAL FORMED	1
21	J17-27221-00-00	SEAL, SHAFT	2
22	90201-064H0-00	WASHER, PLATE	1
23	95601-06100-00	NUT, U (95602-06100)	1
24	90508-14548-00	SPRING, TORSION	1
25	J17-25672-00-00	PAD, PARKING PEDAL	1
26	J17-27231-00-00	ROD, BRAKE	1
27	J17-27232-00-00	END, ROD 2	1
28	95301-06700-00	NUT (95302-06700)	2
29	90506-12277-00	SPRING, TENSION	1
30	J17-25673-00-00	DAMPER, BRAKE	1
31	J17-27228-00-00	PIN, JOINT	1
32	92901-05600-00	WASHER, PLATE	1
33	99001-04600-00	CIRCLIP	1
34	90201-123F2-00	WASHER, PLATE	1
35	90508-26557-00	SPRING, TORSION	1
36	90380-12105-00	BUSH, SOLID	1
37	90201-104G8-00	WASHER, PLATE	2
38	J17-27245-00-00	PAD, BRAKE PEDAL	1
39	90508-40543-00	SPRING, TORSION	1
40	90101-10447-00	BOLT	1
41	95602-10100-00	NUT, U	1
42	92903-10100-00	WASHER, SPRING (92901-10100)	1
43	J17-27246-00-00	NAIL, BRAKE	1
44	97301-08020-00	BOLT (97302-08020)	2
45	92902-08100-00	WASHER, SPRING (92902-08100)	2
46	J17-25673-00-00	DAMPER, BRAKE	1
47	J10-25681-00-00	EQUALIZER, BRAKE	1
48	J20-25685-00-00	ROD	1
49	91701-10022-00	PIN, CLEVIS	1
50	91490-30015-00	PIN, COTTER	1
51	90249-14120-00	PIN	1
52	90179-08261-00	NUT	1
53	95301-08700-00	NUT	1
54	J38-26341-00-00	CABLE, BRAKE	1
55	J38-26351-00-00	CABLE, BRAKE	1
56	99002-09600-00	CIRCLIP	4
57	91701-08018-00	PIN, CLEVIS	4
58	91490-25015-00	PIN, COTTER	4

R 6-80 ACCELERATOR PEDAL
FIGURE 19

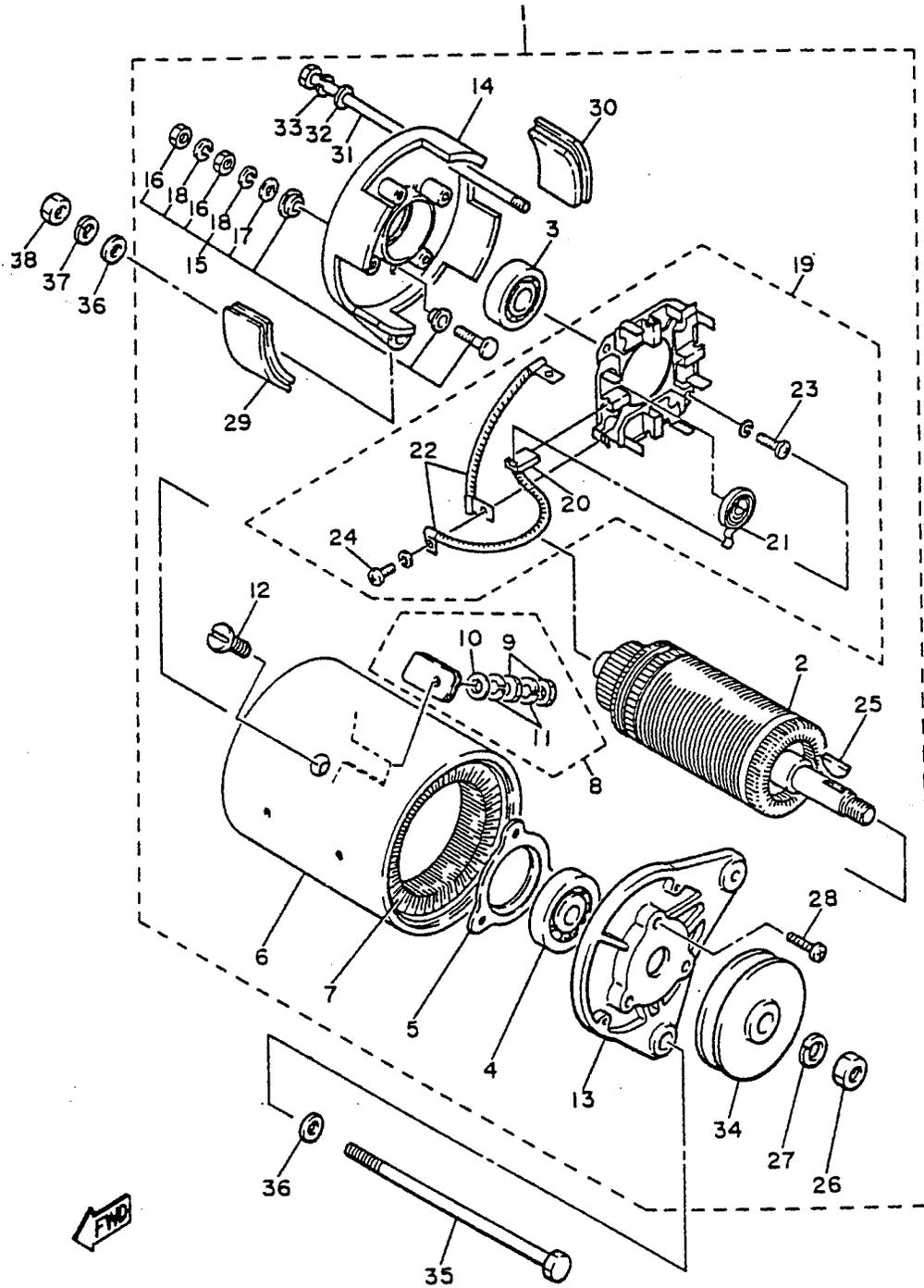


J41110-5070

R 6-80 ACCELERATOR-PEDAL PARTS LIST
FIGURE 19

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	J38-27874-00-00	BRACKET, ACCELERATOR PEDAL	1
2	J17-27853-00	SHAFT, PEDAL 1	1
3	J38-27872-00-00	ARM, ACCELERATOR PEDAL	1
4	91609-60028-00	PIN, SPRING	1
5	91609-35028-00	PIN, SPRING	1
6	J14-27871-00-00	PEDAL, ACCELERATOR (J10-27871-01)	1
7	97301-06025-00	BOLT (96302-06025)	1
8	92903-06100-00	WASHER, SPRING (92902-06100)	1
9	90106-08040-00	BOLT	1
10	95301-08700-00	NUT	1
11	90384-14080-00	BUSH, BIMETAL FORMED	2
12	93210-14104-00	O-RING	4
13	97301-06016-00	BOLT	4
14	92903-06100-00	WASHER, SPRING (92902-06100)	4
15	90506-26282-00	SPRING, TENSION	1
16	J38-26311-00-00	CABLE, THROTTLE 1	1
17	91702-05012-00	PIN, CLEVIS	1
18	90468-10049-00	CLIP	1
19	90508-16460-00	SPRING, TORSION	1
20	90560-05001-00	SPACER 1	1
21	J38-27981-00-00	BRACKET, THROTTLE	1
22	97301-06025-00	BOLT (97302-06025)	1
23	95301-06700-00	NUT (95302-06700)	1
24	90461-08048-00	CLAMP	1
25	90461-08106-00	CLAMP	1

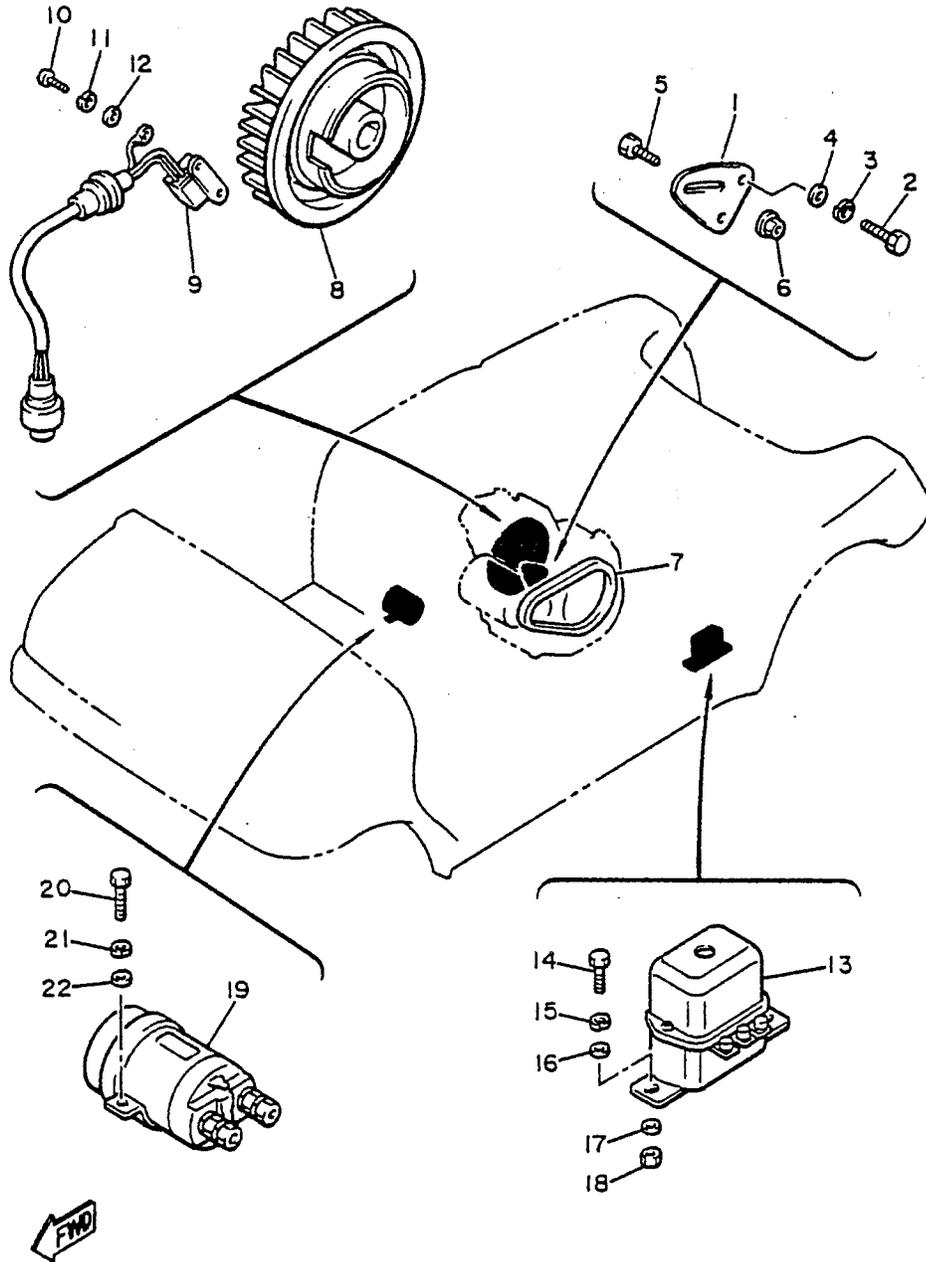
R 6-80 STARTING MOTOR
FIGURE 20



R 6-80 STARTING MOTOR PARTS LIST
FIGURE 20

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	J38-81100-10-00	STARTER GENERATOR ASS'Y	1
2	J10-81150-10-00	. ARMATURE ASS'Y	1
3	J10-81157-10-00	. BEARING 1 (6202 SD)	1
4	J10-81158-10-00	. BEARING 2 (6203 SD)	1
5	J10-81159-10-00	. HOLDER, BEARING	1
6	J38-81110-10-00	. STATOR ASS'Y	1
7	J38-81160-10-00	. FIELD COIL ASS'Y	1
8	J10-81148-10-00	. SCREW 4	2
9	95302-06600-00	.. NUT	4
10	92990-06600-00	.. WASHER, PLATE	2
11	92903-06100-00	.. WASHER, SPRING (92902-06100)	4
12	J10-81146-10-00	. SCREW 2	4
13	J38-81165-10-00	. BRACKET, STARTER GENERATOR 1	1
14	J10-81166-10-00	. BRACKET, STARTER . GENERATOR 2	1
15	J10-81147-10-00	. SCREW 3	2
16	95302-06600-00	.. NUT	4
17	92990-06600-00	.. WASHER, PLATE	2
18	92903-06100-00	.. WASHER, SPRING (92902-06100)	4
19	J38-81119-10-00	. BRUSH HOLDER ASS'Y	1
20	J38-81111-10-00	.. BRUSH	4
21	J10-81113-10-00	.. SPRING, BRUSH	4
22	J10-81115-10-00	.. WIRE, LEAD	2
23	98501-05016-00	.. WIRE, LEAD	2
24	98503-04010-00	.. SCREW, PAN HEAD	4
25	J38-81163-10-00	. KEY	1
26	95302-14600-00	. NUT	1
27	92902-14100-00	. WASHER	1
28	98502-05018-00	. SCREW, PAN HEAD	3
29	J10-81129-10-00	. COVER, BRUSH 2	3
30	J10-81129-10-00	. COVER, BRUSH 2 (J10-81139-10)	1
31	J10-81145-10-00	. SCREW 1	2
32	92990-06600-00	. WASHER, PLATE	2
33	92903-06100-00	. WASHER, SPRING (92902-06100)	2
34	J38-81161-10-00	. PULLEY	1
35	90101-12545-00	BOLT	1
36	92901-12600-00	WASHER, PLATE (92902-12600)	2
37	92901-12100-00	WASHER, SPRING (92902-12100)	1
38	95302-12600-00	NUT	1

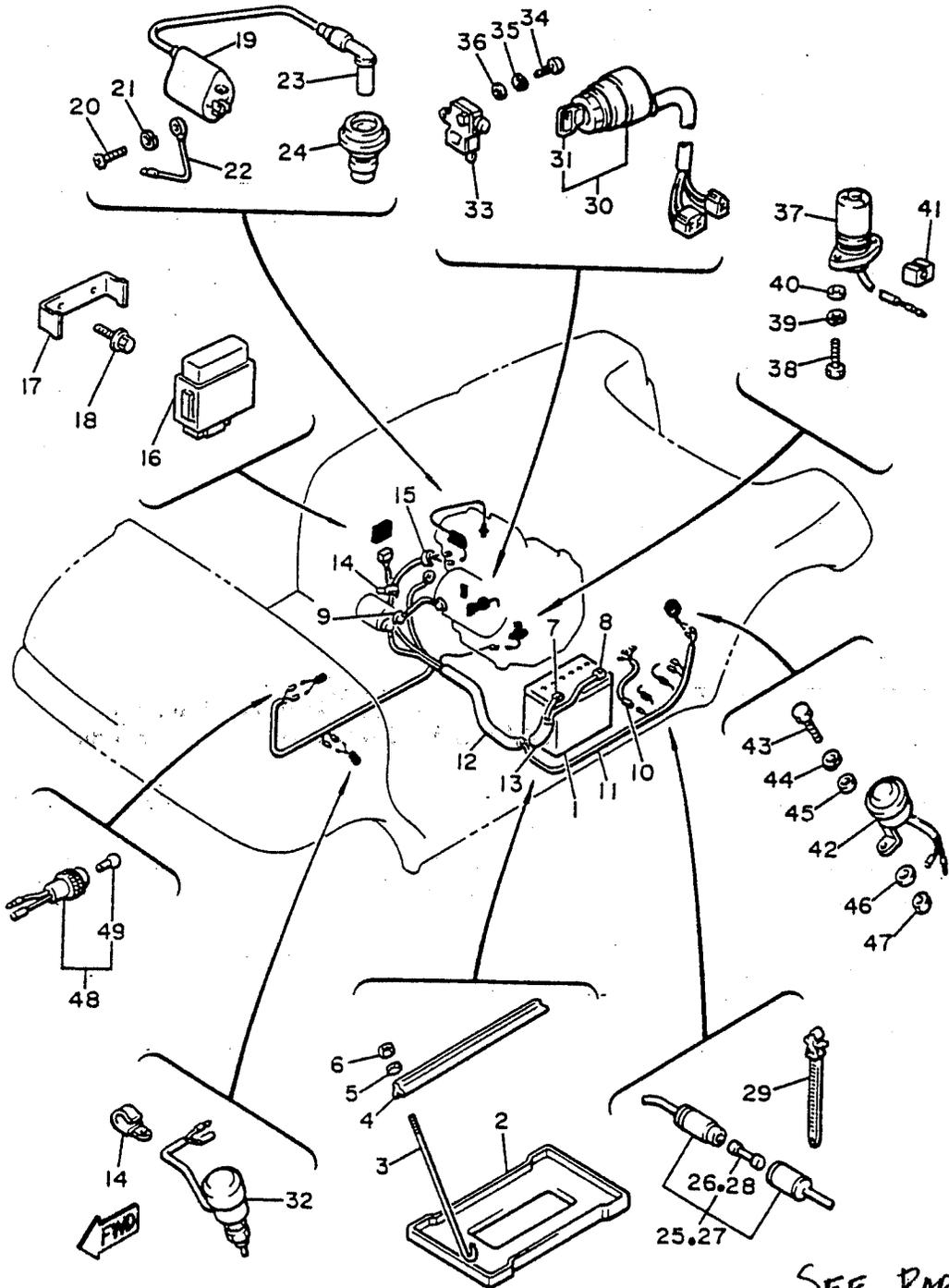
R 6-80 ELECTRICAL SYSTEM 1
FIGURE 21



R 6-80 ELECTRICAL SYSTEM 1
FIGURE 21

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	J38-81170-00-00	TENSIONER ASS'Y	1
2	97301-08025-00	BOLT (97302-08025)	2
3	92903-08100-00	WASHER, SPRING (92902-08100)	2
4	92990-08600-00	WASHER, PLATE	2
5	90109-087A5-00	BOLT	1
6	95702-08500-00	NUT, FLANGE	1
7	J38-81173-00-00	BELT	1
8	J38-81350-20-00	ROTOR ASS'Y	1
9	J38-85580-20-00	COIL, PULSER	1
10	98501-05016-00	SCREW, PAN HEAD	2
11	92990-05100-00	WASHER, SPRING	2
12	92901-05600-00	WASHER, PLATE	2
13	J10-81910-10-00	VOLTAGE REGULATOR ASS'Y	1
14	97301-06016-00	BOLT	2
15	92903-06100-00	WASHER, SPRING (92902-06100)	2
16	92990-06600-00	WASHER, PLATE	2
17	90201-06043-00	WASHER, PLATE	2
18	95302-06600-00	NUT	2
19	J38-81950-00-00	RELAY ASS'Y	1
20	97303-06020-00	BOLT (97302-06020)	2
21	92903-06100-00	WASHER, SPRING (92902-06100)	2
22	92990-06600-00	WASHER, PLATE	2

R 6-80 ELECTRICAL SYSTEM 2
FIGURE 22



SPOTLIGHT, BRAKE LIGHT SWITCH
NOT LISTED... 248-82530-00-00

SEE PART NO.
75-146-00
FOR MORE INFO!

R 6-80 ELECTRICAL SYSTEM 2
FIGURE 22

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	77-054-10	BATTERY ASS'Y	1
2	J17-82122-00-00	SEAT, BATTERY	1
3	J17-82133-00-00	SCREW, FITTING	2
4	J17-82136-00-00	PLATE, BATTERY FITTING	1
5	92903-06200-00	WASHER, (92902-06200)	2
6	95702-06300-00	NUT, NYLON	2
7	J38-82115-00-00	WIRE, PLUS LEAD	1
8	J38-82116-00-00	WIRE, MINUS LEAD	1
9	J38-82117-00-00	WIRE, LEAD	1
10	J38-82105-00-00	WIRE HARNESS	1
11	J38-82590-20-00	WIRE HARNESS ASS'Y	1
12	J38-87196-00-00	TUBE 1	1
13	J38-87197-00-00	TUBE 2	1
14	90465-06038-00	CLAMP	2
15	341-82594-00-00	CLAMP	1
16	J38-82305-20-00	IGNITOR UNIT ASS'Y	1
17	J38-8553A-00-00	STAY UNIT	1
18	95802-06010-00	BOLT, FLANGE	2
19	J38-82310-20-00	IGNITION COIL ASS'Y	1
20	98503-05020-00	SCREW, PAN HEAD (98501-05020)	2
21	92990-05100-00	WASHER, SPRING	2
22	J38-82318-00-00	WIRE, SUB-LEAD	1
23	8K1-82370-20-00	PLUG CAP ASS'Y	1
24	J38-82372-00-00	SEAL, PLUG CAP	1
25	1E6-82150-00-00	FUSE HOLDER ASS'Y	1
26	1E6-82151-00-00	. FUSE (6V-10A)	2
27	J14-82150-00-00	FUSE HOLDER ASS'Y	1
28	1E6-82151-00-00	. FUSE (6V-10A)	2
29	90464-12036-00	CLAMP	2
30	J38-82510-00-00	MAIN SWITCH ASS'Y	1
31	J17-82511-20-00 →	. KEY, MAIN SWITCH	2
32	J41-82550-00-00	STOP SWITCH ASS'Y - MAIN POWER ON ACCEL	1
33	J38-82617-00-00	SWITCH, REVERSE BUZZER	1
34	98511-04025-00	SCREW, PAN HEAD	1
35	92990-04100-00	WASHER, SPRING	1
36	92901-04600-00	WASHER, PLATE	1
37	J38-85720-00-00	OIL LEVEL GUAGE ASS'Y	1
38	97303-06020-00	BOLT (97302-06020)	2
39	92903-06100-00	WASHER, SPRING (92902-06100)	2
40	92990-06600-00	WASHER, PLATE	2
41	J38-82598-00-00	GROMMET	1
42	J10-83383-02-00	BUZZER	1
43	97301-06016-00	BOLT	1
44	92903-06100-00	WASHER, SPRING (92902-06100)	1
45	92990-06600-00	WASHER, PLATE	1
46	90201-06043-00	WASHER, PLATE	1
47	95302-06600-00	NUT	1
48	70R-83530-00-00	PILOT LIGHT ASS'Y	1
49	123-83516-21-00	. BULB (12V-3.4W)	1

R 6-80 OPTIONS AND KITS

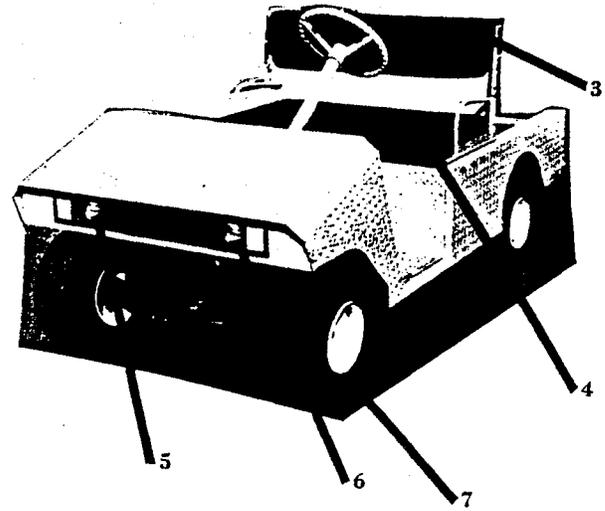
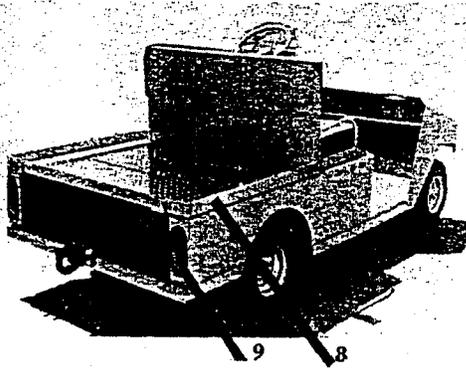
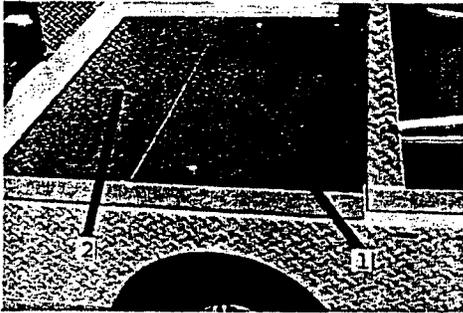
GENERAL: This section illustrates the many additional options to increase the usage of your vehicle. Some of these kits can be added with basic tools, ie; side mirrors, rotating beacon turn signals and seat belts. All other kits should be installed at an authorized Taylor-Dunn dealership. This section is only a guide for various options that will aid you in improving the operation and serviceability of your vehicle.

BODY AND TRIM
(OPTIONAL) FIELD KITS

The following field kits are supplied as an additional option for customizing your R 6-80. See illustration of major kit packages, next page. All metal parts are orange. All other colors are special.

KIT NO.	DESCRIPTION
90-109-62	Second seat
97-804-61	Pintle hitch
97-808-61	Automatic coupling hitch
91-120-62	Surrey top
91-340-63	Kit, tool box
90-300-60	Kit, side and end rails
90-300-61	Kit, side rails
74-010-61	Windshield wiper
91-011-64	Kit, cab (all metal) with windshield & rear window, less doors
91-010-68	Kit, door (all metal) with sliding glass window, left hand
91-010-69	Kit, door (all metal) with sliding glass window, right hand
71-141-62	Turn signals, front and rear
90-160-61	Seat belts
73-005-60	Reverse warning beeper
72-023-61	Rotating amber light, pole
72-023-62	Rotating amber light, cab
92-202-60	Mirror

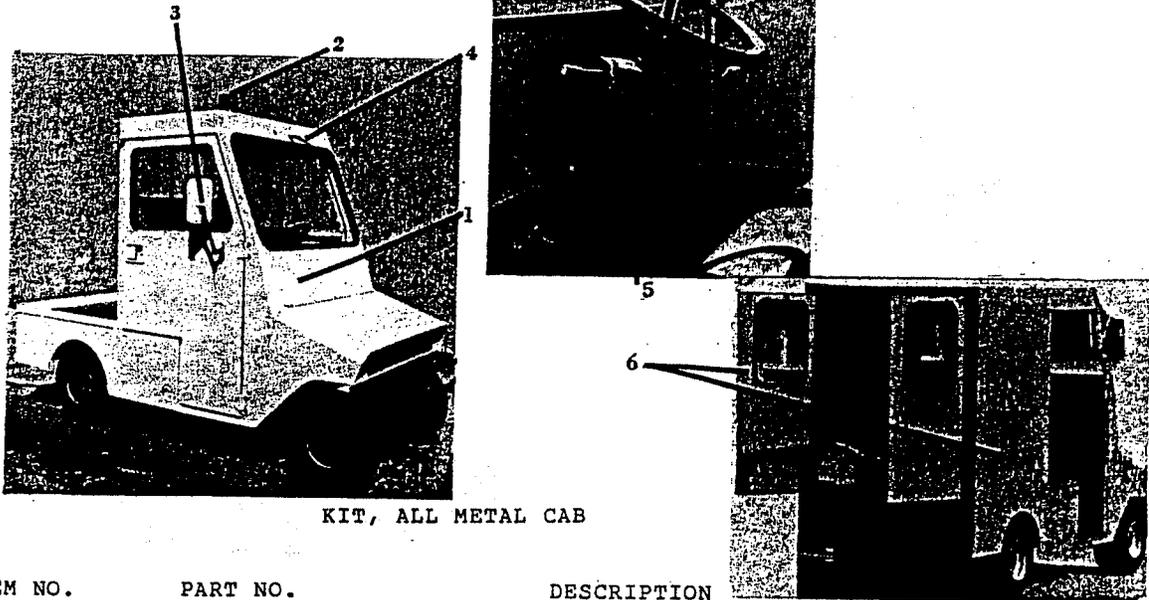
R 6-80



BODY AND TRIM

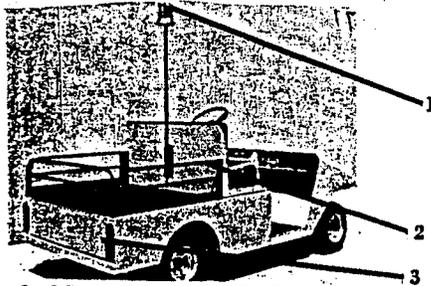
ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	03-380-40	Deckboard, Stationary, (Forward)	1
2	00-380-58	Deckboard, Tool Box Top, (Rear)	1
3	90-172-00	Cushion, Backrest	1
4	90-192-00	Cushion, Seat	1
5	72-072-00	Headlight, 4 Inch, 12 Volt	2
6	94-050-00	Lens, Light, Front	2
7	13-742- 00 10	Tires, 5.70x8 Pneumatic Ld Range B, Hiway Tread	4
8	03-380-41	Side Rails	2
9	72-025-00	Taillight, Stop, Turn, Red	2

R 6-80

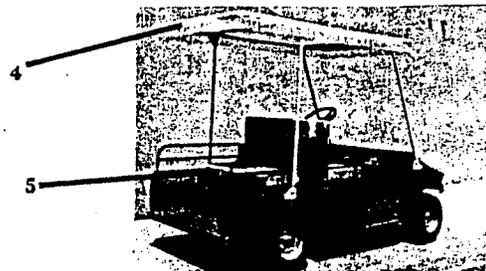


KIT, ALL METAL CAB

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	91-011-64	KIT, METAL CAB W/O DOORS, WITH GLASS	1
	91-010-68	LT HAND KIT, DOOR INCL. SLIDING GLASS WINDOW	1
	91-010-69	RT HAND KIT, DOOR INCL. SLIDING GLASS WINDOW	1
2	72-023-62	KIT, ROTATING BEACON	1
3	92-202-60	KIT, REAR VIEW MIRROR, FITS RT OR LT SIDE	1
4	74-010-61	KIT, WINDSHIELD WIPER	1
5	74-141-61	KIT, TURN SIGNAL	1
	60-160-61	KIT, SEAT BELT, NOT SHOWN	1
6	91-322-60	KIT, CARGO BOX WITH REAR DOORS	1



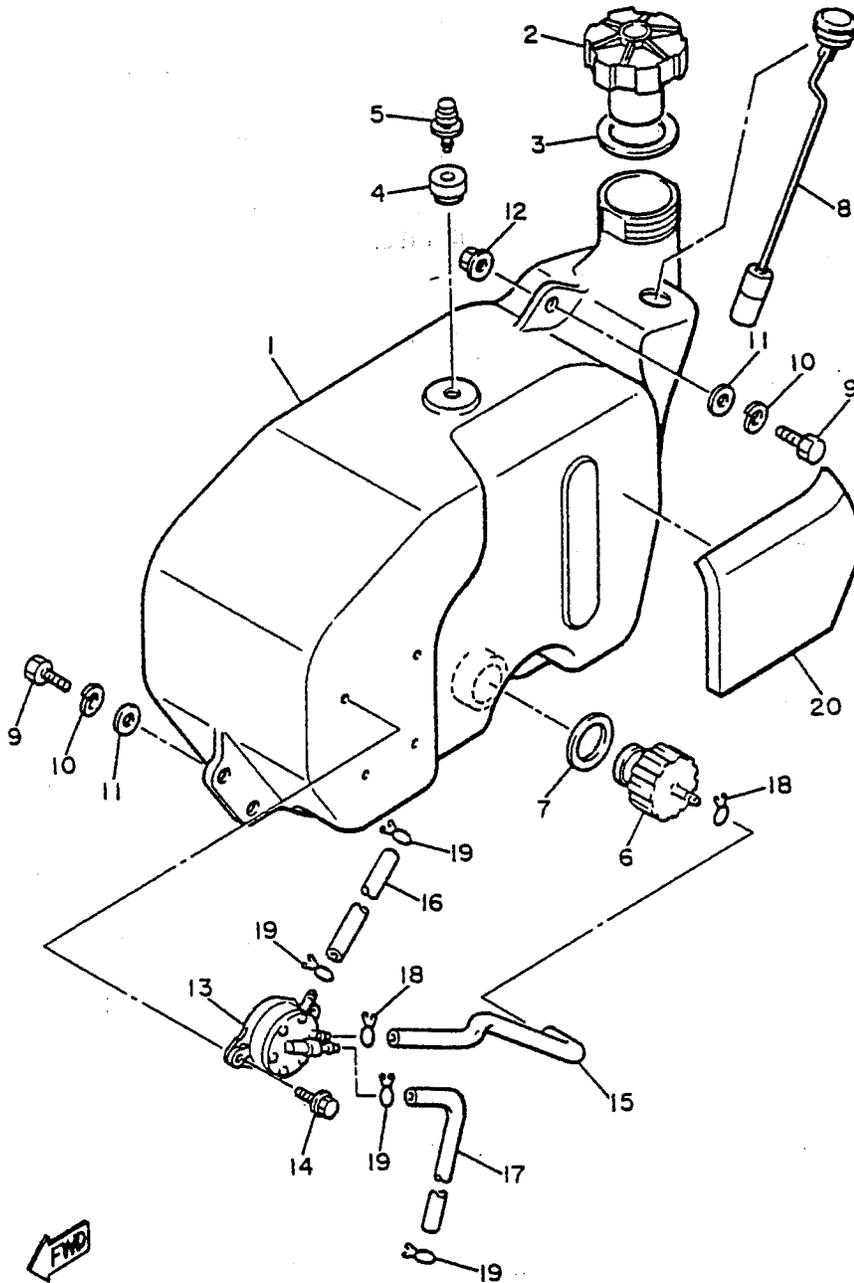
R 3-80 WITH ROTATING BEACON
CARGO RAILS AND TOOL BOX



R 6-80 WITH SURREY TOP
AND FOLDAWAY SECOND SEAT

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	72-023-61	KIT, ROTATING BEACON ON POLE	1
2	90-300-60	KIT, CARGO RAILS	1
3	91-340-63	KIT, TOOL BOX W/LOCKING DOORS	1
4	91-120-62	KIT, SURREY TOP WITH SUPPORT POSTS	1
5	90-109-62	KIT, FOLD DOWN 2ND SEAT	1

R 6-80 FUEL TANK
FIGURE 23



R 6-80 FUEL TANK PARTS LIST
FIGURE 23

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	J38-24111-00-00	TANK, FUEL	1
2	J24-24620-00-00	BODY CAP ASS'Y	1
3	J10-24612-00-00	GASKET, CAP	1
4	J10-21773-00-00	GROMMET	1
5	J24-24460-00-00	RELEASE VALVE ASS'Y	1
6	8R4-24560-00-00	FILTER ASS'Y FUEL	1
7	8F3-24564-00-00	GASKET	1
8	J38-85710-00-00	FUEL LEVEL GAUGE ASS'Y	1
9	97301-08025-00	BOLT (97302-08025)	3
10	92903-08100-00	WASHER, SPRING (92902-08100)	3
11	90201-08748-00	WASHER, PLATE	3
12	95702-08500-00	NUT, FLANGE	1
13	J38-24410-00-00	FUEL PUMP ASS'Y	1
14	95802-06016-00	BOLT, FLANGE	2
15	J38-24311-00-00	PIPE, FUEL 1	1
16	90445-09225-00	HOSE	1
17	90445-09085-00	HOSE	1
18	90467-11009-00	CLIP	2
19	90467-08017-00	CLIP	4
20	J38-24129-00-00	COVER, SIDE 1	1

R 6-80 PARTS ORDERING PROCEDURE

Parts may be purchased from your local Taylor Dunn dealer. When ordering parts, be sure to specify the complete model number and serial number of this unit. Also specify the full Taylor-Dunn part number, description of part and quantity of parts required. When ordering parts for the drive motor, also include the specifications found on the motor name plate. Be sure to give complete shipping and billing address on all orders. Example:

1 - Part Number - J38-23816-00-00 - Arm-Pittman

1 - Set of 2 - Part Number - 70-005-00 - 93332-00010-00 - Bearing

Above parts for model R 6-80 truck, beginning with serial number 83222.

Parts ordered under warranty must be placed with your authorized Taylor-Dunn dealer. Be sure to include original invoice number, date of shipment of vehicle, and vehicle serial number.

NOTE: On contracts with National Federal Government Agencies, Defense General Supply Agency, and United States Post Office Department, orders for all warranty parts must be placed directly with the Taylor-Dunn factory in Anaheim, California.

TAYLOR-DUNN MANUFACTURING COMPANY
2114 West Ball Road
Anaheim, CA 92804

Phone: 714-956-4040
Telex: 65-5393

R 6-80 SUGGESTED SPARE PARTS LIST

T-D PART	DESCRIPTION	QTY. 1-20 UNITS
13-734-12	TIRE, DEMOUNTABLE WHEEL 4.80 X 8 LOAD RANGE B	1
13-742-20	TIRE, DEMOUNTABLE WHEEL 5.70 X 8 LOAD RANGE B	1
13-746-12	TIRE, WHEEL, 18 X 8.50 X 8 GOOD YEAR 4 HOLES	1
79-840-20	CIRCUIT BREAKER (SECTION 50 20 AMP SINGLE POLE	1
J38-14450-00	ELEMENT ASSEMBLY, AIR CLEANER	2
J38-14453-00	JOINT AIR CLEANER	1
J38-14410-00	AIR CLEANER ASSEMBLY	1
J38-14101-00	CARBURETOR ASSEMBLY	1
796-14184-00	GASKET, FLOAT CHAMBER	1
127-14198-00	GASKET	1
620-14212-00	SPRING, PILOT ADJUSTING	2
J38-14133-00	SPRING, THROTTLE STOP	1
(COM'L)B5ES(NGK)	SPARK PLUG, .028 TO .031 GAP	8
J38-81100-10-00	STARTER, GENERATOR	1
J38-81111-10-00	BRUSH	8
J10-81113-10-00	SPRING, BRUSH	8
J38-81173-00-00	BELT (ENGINE PULLEYS)	2
J38-85580-20-00	COIL, PULSER	1
J10-81910-10-00	VOLTAGE REGULATOR ASSEMBLY	1
J38-81950-00-00	RELAY ASSEMBLY (SOLENOID)	1
J38-82305-20-00	IGNITOR UNIT ASSEMBLY	1
J38-82310-20-00	IGNITOR COIL ASSEMBLY	1
LEG-82151-00-00	FUSE (6V-10A)	12
J38-82510-00-00	MAIN SWITCH ASSEMBLY	2
J17-82511-20-00	KEY, MAIN SWITCH	2
J10-83383-02-00	BUZZER	1
70R-83530-00-00	PILOT LIGHT ASSEMBLY	1
123-83516-21-00	BULB (12V - 3.4 W) PILOT LIGHT	6

NOTICE OF CHANGE

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SECTION _____ PAGE NO. _____ LINE OR ITEM _____

* EXAMPLE: Section 13, Page 5, Item 5.
PART NO. 41-350-55 KIT, CYLINDER REPAIR SHOULD BE PART NO. 41-350-66.

MAIL TO: TAYLOR-DUNN
ATTN: ENGINEERING
2114 W. BALL ROAD
ANAHEIM, CA 92804

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