

YAMAHA

SERVICE MANUAL



G1A/M/E/M (3/4/5)



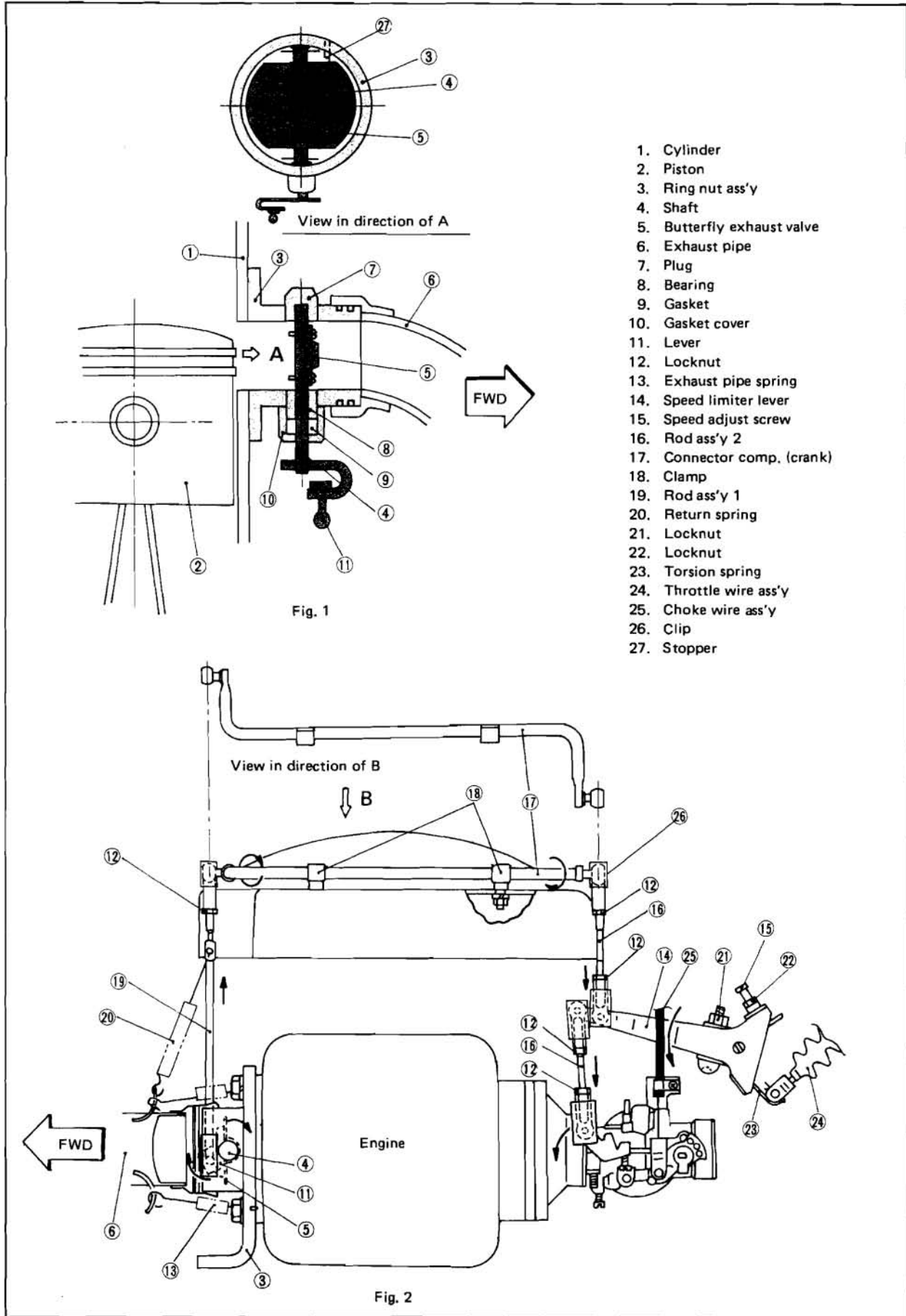
YAMAHA

GOLF CAR

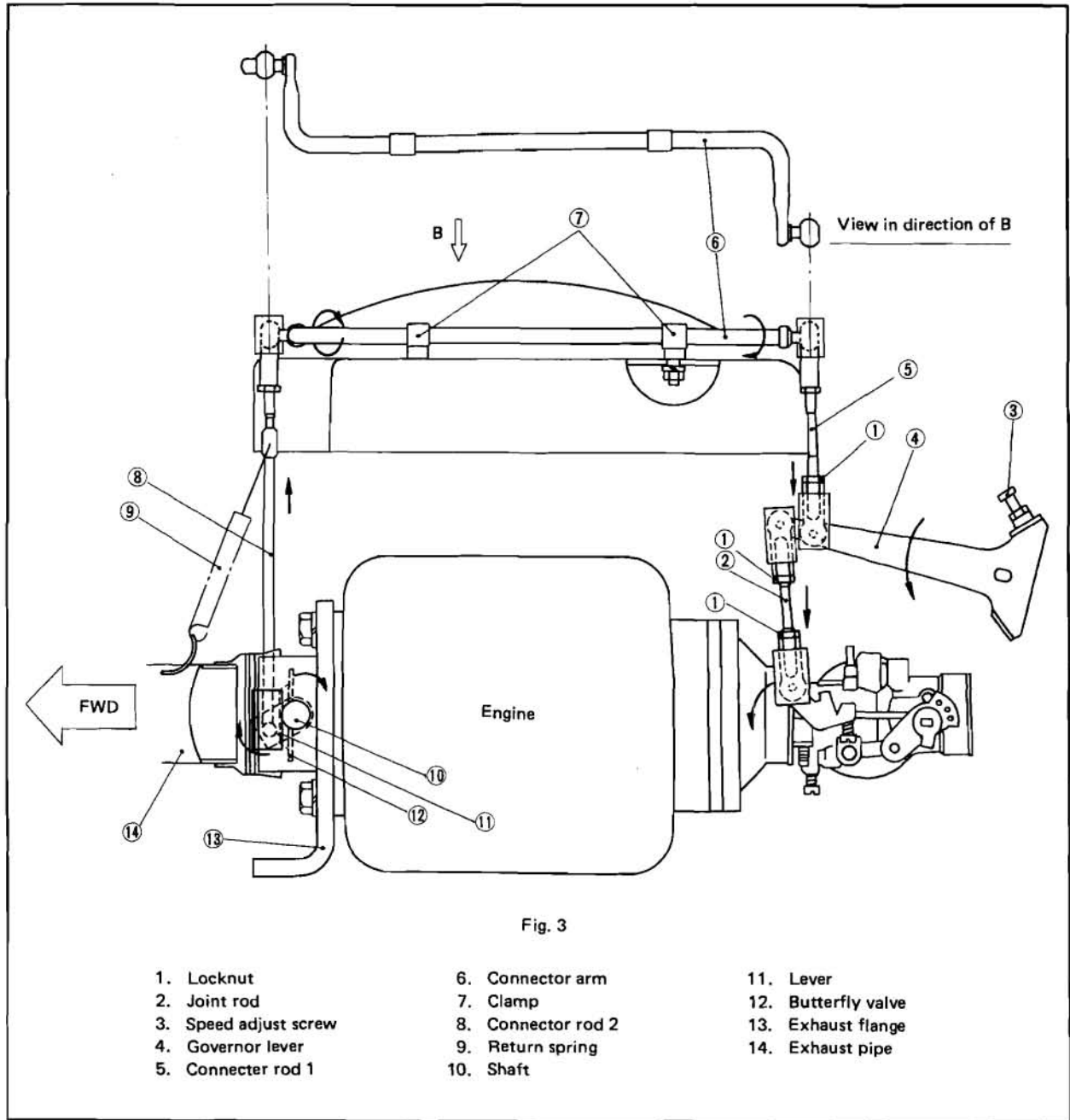
G1-AM3

Service Manual

EXHAUST VALVE



A. ADJUSTMENTS



NOTE:

Before adjusting, remove the return spring installed between connector rod 2 and the exhaust pipe.

1. Setting the governor lever

Adjust the length of the joint rod 1 so when the accelerator pedal is fully depressed, and the governor lever is turned counterclockwise, the carburetor throttle valve just reaches the fully open position. (To adjust the joint rod length, loosen two locknuts, adjust the length, then tighten the locknuts.)

2. Setting the engine idle speed

With the V-belt removed, make sure the engine idles at 1,200 r/min. (When the V-belt is mounted, the idling speed is 1,000 r/min.) If not, make an idle speed adjustment by turning the throttle stop screw. While making this idle speed adjustment, the engine speed will not affect the opening of the butterfly valve (exhaust valve).

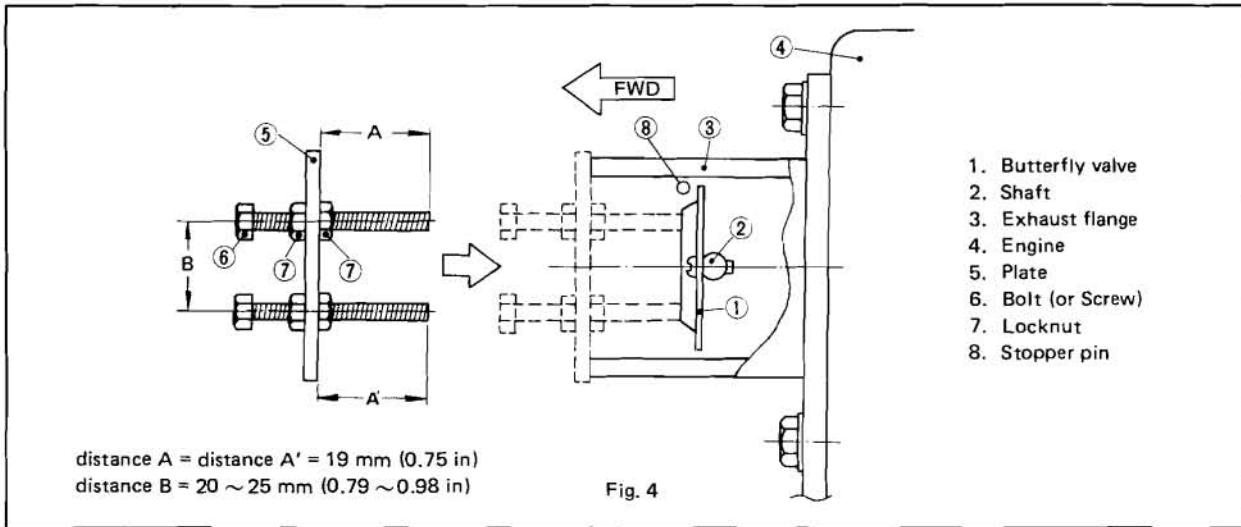
3. Exhaust valve setting

Adjust the length of connector rod so when the governor lever returns to the closed position, the butterfly valve in the exhaust port closes completely. (To adjust the length of connector rod 1, loosen two locknuts, and after adjusting, tighten the locknuts.)

To check that the exhaust valve is completely closed, remove the exhaust pipe. The valve

position can be checked by looking into the exhaust flange. As shown in Fig. 1, check the valve position. The screw head should face the exhaust pipe.

To facilitate checking the exhaust valve in the full-closed position, prepare a tool as shown in Fig. 4



4. Adjusting the throttle wire

Adjust the throttle wire so when the accelerator pedal is fully depressed, the carburetor throttle just reaches full-open position.

NOTE:

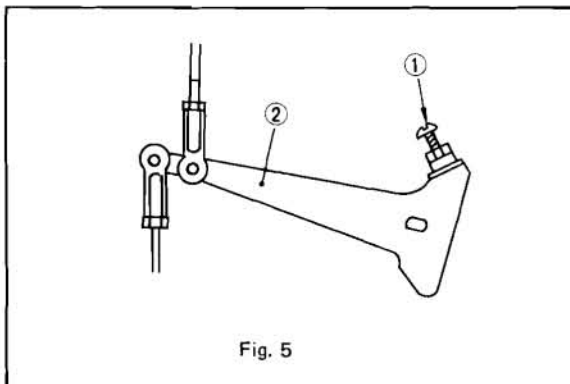
After adjusting the throttle wire, install the return spring between connector rod 2, and the exhaust pipe.

Adjust the car speed by turning the adjusting screw in either direction. The maximum amount of adjustment is about 4.8 km/h (± 3 m.p.h.)

Tightening the adjust screw increases the speed; loosening it decreases the speed.

Standard governor engine setting:
Approx. 2,700 r/min at 19.2 km/h
(12 m.p.h.) on hard, level surface.

5. Governor adjustment



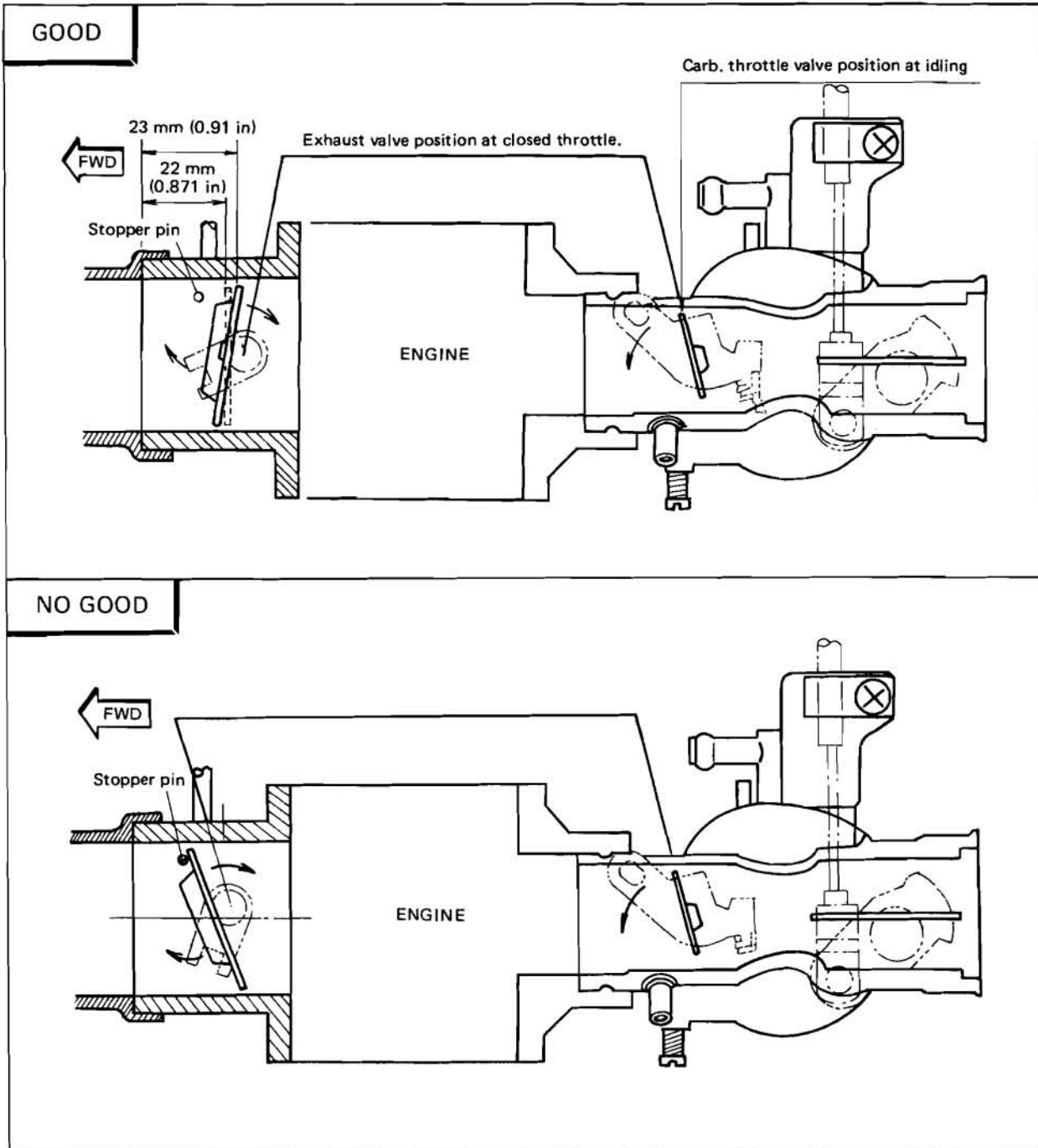
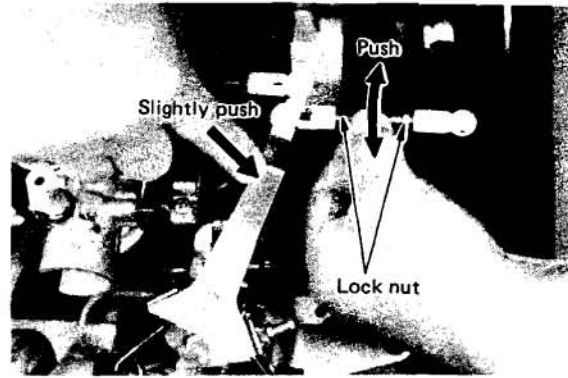
After this operation, check the following points:

- Check whether both links and butterfly valve move smoothly.
- Check whether the links move beyond dead center, and become locked.
- Check for abnormal noise from the butterfly valve and related parts.

1. Adjusting screw 2. Governor lever

6. Rod assembly 2 adjustment

Adjust the rod ass'y 2 length by turning the shaft so that when the throttle valve is at a closed (idle) position (by pushing the speed limiter lever slightly), the exhaust valve is at a closed position as illustrated on the next page. Tighten the locknut, keeping the plastic ends at a 90° angle to each other.



NOTE:

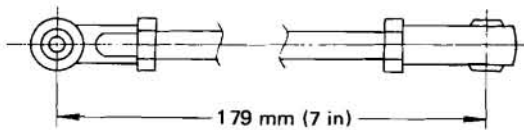
Check to see that when the throttle valve is fully open, the exhaust valve is also fully open.

B. DISASSEMBLY AND ASSEMBLY

In general, except when links are damaged or the joint is extremely worn, neither removal nor disassembly is necessary. When dismounting the engine from the chassis or reassembling links after replacing parts, the adjustments specified in D, above must be performed.

1. The link adjustment should be made only by adjusting the length of the joint rod and connector rod 1. It is unnecessary to adjust the length of connector rod 2 because it is already adjusted by the factory.

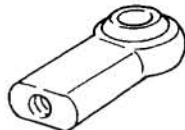
Standard eye-to-eye distance of connector rod (2): 179 mm (7 in)



2. As illustrated, the bracket should be installed with the open end facing downward, and all joints should be installed squarely facing the ball so that movement is free throughout its operating range.



Bracket



Joint

3. Do not apply grease to the contact surface of the joint.

SPECIFICATIONS


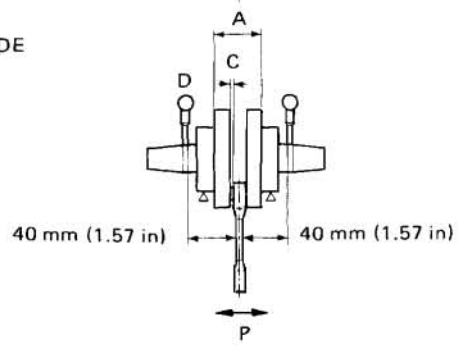
SPECIFICATIONS

A. General

Item	Model	G1-AM3
Model: Code No. Frame I.D. No. & Starting No. Engine I.D. No. & Starting No.		J24 J24-000101 J24-000101
Dimensions: Overall length Overall width Overall height (steering height) Height of floor Height of seat from floor Wheelbase Tread: Front Rear Min. ground clearance		2,403 mm (94.6 in) 1,140 mm (44.9 in) 1,180 mm (46.5 in) 295 mm (11.6 in) 428 mm (16.9 in) 1,550 mm (61.0 in) 900 mm (35.4 in) 900 mm (35.4 in) 110 mm (4.3 in)
Weight: Dry weight		310 kg (684 lb)
Performance: Maximum loading limit Maximum speed Starter generator red zone Cranking speed Minimum turning radius Braking distance Seating capacity Hill climbing ability Fuel consumption Oil consumption		340 kg (750 lb) 19 km/h (12 mph) 4,000 r/min (25 km/h) Appx. 800 r/min 3,000 mm (118 in) 4,500 mm (177 in) at 19 km/h (12 mph) 2 persons 30° (57% grade) on pavement 20 km/ℓ at 19 km/h on pavement 4,500 km/ℓ at 19 km/h on pavement

B. Engine

Item	Model	G1-AM3
Description: Engine type Number of cylinder Displacement Bore x Stroke Compression ratio Cooling system Starting system Ignition system Lubrication system		Reversible, 2-stroke, Gasoline, 7-port piston reed valve Forward-inclined, Single 214 cm ³ (13.06 cu.in) 68 x 59 mm (2.68 x 2.32 in) 5.7 : 1 Forced air cooled Normal & Reversible starter generator C.D.I. "Autolube" oil injection
Cylinder head: Combustion chamber volume (with spark plug) Compression chamber type Head gasket thickness		31.3 cm ³ (1.91 cu.in) Dome + Squish 0.6 mm (0.024 in)

Item	Model	G1-AM3
Cylinder: Material Bore size Taper limit Out of round limit		Cast iron sleeved aluminum 68 mm (2.677 in) 0.05 mm (0.0020 in) 0.01 mm (0.0004 in)
Piston: Piston skirt clearance (measuring point) Std. Max. Piston oversize Piston pin outside diameter x Length		0.030 ~ 0.035 mm (0.0012 ~ 0.0014 in) (10 mm (0.39 in) from piston skirt end) 0.1 mm (0.0039 in) 1st. 68.25 mm (2.687 in) 2nd. 68.50 mm (2.697 in) φ 18 x 55 mm (φ 0.709 x 2.165 in)
Piston ring: Piston ring design (Top)/I.D. mark Piston ring design (2nd)/I.D. mark Ring end gap (installed) (Top) (2nd)		Keystone/"RN"  Keystone/"R" 0.2 ~ 0.4 mm (0.008 ~ 0.016 in) 0.2 ~ 0.4 mm (0.008 ~ 0.016 in)
Small end bearing: Type		Needle bearing
Big end bearing: Type		Needle bearing
Crankshaft: Crankshaft assembly width (A) Crankshaft deflection (D) Connecting rod big end side clearance (C) Connecting rod small end deflection (P) Max.		56 ⁺⁰ / _{-0.05} mm (2.20 ⁺⁰ / _{-0.002} in) 0.02 mm (0.008 in) 0.25 ~ 0.75 mm (0.010 ~ 0.030 in) 2.0 mm (0.079 in)
		<p>CLUTCH SIDE</p> 
Crank pin outside diameter x Length		φ 24 ⁺⁰ / _{-0.013} x 55 ^{-0.2} / _{-0.4} mm (φ 0.945 ⁺⁰ / _{-0.0005} x 2.165 ^{-0.0078} / _{-0.0118} in)
Crankpin type		Solid shaft
Crank bearing type (Left) x Q'ty		#6306 c3 (Nylon retainer) x 1 pc
Crank bearing type (Right) x Q'ty		#6306 c3 (Nylon retainer) x 1 pc
Crank oil seal type (Left) x Q'ty		FPJ-30 72 8 x 1 pc
Crank oil seal type (Right) x Q'ty		FPJ-30 48 8 x 1 pc

Item	Model	G1-AM3
Air cleaner: Element type Element assembly P/N Element cover P/N		Wet paper with element cover J10-14450-10 J10-14417-00
Intake reed valve: Type At rest open limit Valve lift		"V" type 0.3 mm (0.012 in) 10.4 ± 0.2 mm (0.409 ± 0.0078 in)
Choke cable: Free play		1 mm (0.04 in)
Carburetor: Model/Maker P/No. I.D. mark Venturi diameter (Ven. T.) Main jet (M.J.) Air jet (A.J.) Main nozzle (M.N.) Pilot jet (P.J.) Pilot air jet (P.A.J.) Throttle valve (Th.V.) Valve seat (V.S.) By-pass (1) (B.P.-1) By-pass (2) (B.P.-2) Pilot outlet (P.O.) Pilot screw (P.S.) Float height (F.H.) Engine idling speed*		BV21-16/MIKUNI J24-14101-00 J2400 φ 16 #97.5 φ 1.2 2B #42.5 φ 1.0 #100 φ 1.0 φ 0.8 φ 0.7 φ 1.1 1 and 3/8 turn out 18 mm (0.7 in) 1,200 r/min
Fuel pump: Part No. Manufacturer/Type		J10-24410-02 MIKUNI/DF-36 (Diaphragm)
Fuel tank: Fuel grade Fuel tank capacity Fuel tank position Material/Color Gauge position		Any grade gasoline 25.5 L (5.6 Imp gal, 6.7 US gal) Front of left rear wheel Polyethylene/Black Side of filler cap
Lubrication system: Autolube pump – Type – Color code – Minimum stroke – Maximum stroke – Reduction ratio Max. output (690 mmAg exhaust pipe 1/1) Max. output (0 mmAg exhaust pipe Min.) Mixing ratio		Separated lubrication YAMAHA Automatic oil injection system (controlled by exhaust pressure) Pink 0.50 ~ 0.55 mm (0.020 ~ 0.022 in) 1.80 ~ 1.85 mm (0.071 ~ 0.073 in) 1/1.9 x 1/84 Approx. 21.1 cm ³ /h at 3,250 r/min Approx. 5.9 cm ³ /h at 3,250 r/min 150 : 1 at Max. power

Item	Model	G1-AM3
Oil tank: Oil Oil tank capacity Oil tank position Material/Color		Yamalube Golf Car oil or if not available, any two stroke oil that is B.I.A. certified for service T.C.W. 1.7 L (1.5 Imp qt, 1.8 US qt) Top of left rear fender Polyethylene/White
Jet senser: Type Pipe dia./Material		One hole (ϕ 0.85) orifice plate type with cleaner: Wire ϕ 6.35 mm (0.25 in)/Stainless

C. Transmission

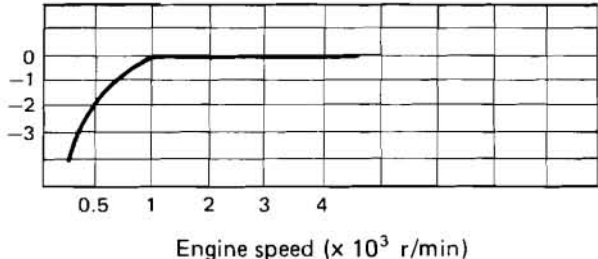
Item	Model	G1-AM3
Transmission: Type Primary reduction ratio Clutch engagement r/min Shift r/min Primary spring: Parts No. Outside dia. x Wire dia. Set load/Spring rate No of turns/Free length Color code Secondary spring: Part No. Outside dia. x Wire dia. No. of turns/Free length Color code Torque cam angle Sheave center to center distance Sheave offset V-belt part No. V-belt width and outer line length V-belt wear limit		V-belt automatic centrifugal engagement 3.1 : 1 ~ 0.8 : 1 1,500 r/min 3,600 r/min 90501-32557 42.9 x 3.2 mm (1.69 x 0.126 in) 7.8 kg/0.372 kg/mm 6.5/82 mm (2.95 in) Cr plated (Silver) 90501-45600 54.5 x 4.5 mm (2.15 x 0.177 in) 6.37/101 mm (3.98 in) Cr plated (Gold) Forward 50 deg/Reverse 45 deg 231 mm (9.09 in) 26 mm (1.02 in) J17-46241-00 31 x 925 mm (1.22 x 36.4 in) 27 mm (1.06 in)
Differential/Reduction gear: Secondary reduction system Secondary reduction ratio Differential type Lubricant/Capacity		Helical gear 2.952 x 4.588 SPUR gear 4 pinion SAE 90 Gear oil/800 cm ³ (27 oz.)
Governor: Type Adjustment Factory speed setting		Oil bath flyweight Screw with locknut 19 km/h (12 mph)

D. Chassis

Item	Model	G1-AM3
Frame: Type Material Color		Ladder type pipe structure Tubular steel (STKM) Yamaha Black
Front cowl: Type Material Color		(RIM) Urethane Ivory white
Rear cowl: Type Material Color		Match metal die shell type fiber galss (SMC) Fiber reinforced plastic (FRP) Ivory white
Seat: Seat cover Material Color Seat cushion Material		Vinyl chloride leather + Nylon lining Ivory white Urethane foam
Bumper: Front Rear		Steel + EVA end Steel + EVA end
Steering system: Type Steering angle (L, H) (R, H) Turning radius Lubricant Type Capacity		Worm and pin 1.4 turn 1.4 turn 3.0 m SAE 90 Gear oil 150 cc (5.1 oz)
Front axle: Type Toe-in Camber Caster Kingpin inclination		Single wish bone 10 ± 5 mm (0.394 ± 0.197 in) 0 deg 7 deg 3 deg
Rear axle: Rear wheel axle type Toe-in Camber		Semi-floating split 0 mm (0 in) 0 deg
Front suspension: Type Spring rate Coil spring free length Damper type		Single swingarm (independent suspension) Coil springs with hydraulic shock absorbers (Single action type) 3.6 kg/mm 185 mm (7.28 in) Oil damper (Single action/tension only)
Rear suspension: Type Spring rate Coil spring free length Damper type		Axle type trailing arm (Unit swing) Coil springs with hydraulic shock absorbers (double action type) 2.1 kg/mm 240 mm (9.45 in) Oil damper (Double action/Both Comp & Tens)

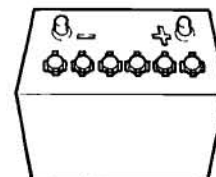
Item	Model	G1-AM3
Brakes: Brake system Method of operation Lining thickness Std/Min. Brake drum inside dia. Linkage adjustment (Brake wire free play) Parking brake Type Release timing (Free play of throttle wire end)		Mechanical brake linkage to individual drum brakes on each rear wheel with self-adjusting brake shoe. Dual internal expanding shoe Leading/Trailing shoes (self-adjusting) 4 mm (0.157 in)/1.5 mm (0.06 in) 160 mm (6.30 in) 0.1 ~ 0.5 mm (0.004 ~ 0.020 in) Foot type; Parking brake with automatic release 0 ~ 0.5 mm (0 ~ 0.02 in) Lightly depress the accelerator pedal with your hand (The parking brake is not released.)
Wheel: Tire type Front (pattern) Rear Tire size Front Rear Tire pressure Front/Rear Rim size Front/Rear		Tubeless (Rib) Tubeless (Block) 18 x 8.50 – 8.00/4 ply rating 18 x 8.50 – 8.00/4 ply rating 0.8 kg/cm ² (12 psi) 7.00 – I – 8.00

E. Electrical

Item	Model	G1-AM3
Voltage:		12V, Negative ground
Ignition system: Type Model/Manufacturer Pulser coil resistance (Color code) Output (Min.) Charging coil resistance (Color code) Output (Min.) Ignition timing Static Dynamic		Flywheel magneto (C.D.I. type) F3T35671/MITSUBISHI 14Ω ± 10% at 20°C (68°F) (White/Red – Black) 4.5V AC @ Cranking speed* 350Ω ± 10% at 20°C (68°F) (Brown – Black) 40V AC @ Cranking speed* B.T.D.C. 1.3 mm (0.051 in) by dial indicator Fan to crankcase marks at 1,200 r/min by timing light
Ignition advance curve:  <p style="text-align: center;">Engine speed (x 10³ r/min)</p>		
Ignition: Model/Manufacturer Sprak gap Primary winding resistance Secondary winding resistance Diode (Yes or No)		F6T411/MITSUBISHI 9 mm (0.35 in)/300 r/min. 11 mm (0.43 in)/3.000 r/min 1.0Ω ± 15% at 20°C (68°F) (Orange – Black) 5.9kΩ ± 15 % at 20°C (68°F) (High tension code – Black) No

* = Cranking speed approximately 800 r/min

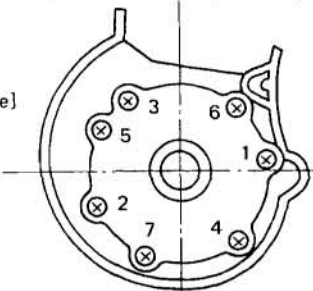
Item	Model	G1-AM3	
Spark plug: Type & Quantity Spark plug gap Thread size		NGK BP-6HS x 1 pc 0.6 ~ 0.7 mm (0.024 ~ 0.028 in) M14 x P1.25	
Spark plug cap: Type Noise suppressor resistance		Noise suppressor 5kΩ ± 15% at 20°C (68°F)	
C.D.I. unit: Model/Manufacturer Minimum C.D.I. output		F8T 02171/MITSUBISHI 4.0V @ Cranking speed*	
Charging • Starting/System: Type Model/Manufacturer Starting output Charging output Armature coil resistance Field coil resistance Shunt coil (Battery charging) Series coil (Starting) Brush port number Brush length Std/Min. Spring pressure/Q'ty Commutator outside dia. Mica undercut/No. of slot		Starter generator GSB107-02/HITACHI 0.6 kw 14V-15A/5,000 r/min 0.013Ω ± 20% at 20°C (68°F) (A1 – A2) 5Ω ± 10% at 20°C (68°F) (Red – Green) 0.006Ω ± 20% at 20°C (68°F) (F1 – F2) J10-81111-10 23 mm (0.9 in)/16 mm (0.63 in) 700 ~ 900 g (24.7 ~ 31.7 oz)/4 pcs. 41 ± 0.1 mm (1.61 ± 0.004 in) 0.7 mm (0.028 in)/41 pcs	
Voltage regulator: Type Model/Manufacturer Regulated voltage (No load) Voltage regulator Core gap Yoke gap Point gap Voltage coil resistance		Tillil type T107-23/HITACHI 14.8 ± 0.5V 0.6 ~ 1.0 mm (0.0024 ~ 0.04 in) 0.9 mm (0.035 in) 0.35 ~ 0.45 mm (0.014 ~ 0.018 in) 10.3Ω ± 20% at 20°C (68°F)	
Solenoid relay: Model (P/No.)/Manufacturer Amperage rating Cut in voltage Winding resistance		YZ18 (J17-81950-00)/ASAHI DENSO 60A Less than 8V 11.8Ω ± 5% at 20°C (68°F)	
Battery: Model/Manufacturer Capacity (Rating minimum) Specific gravity Gross weight Electrolyte quantity Dimension (W x H x T) Terminal description		For U.S.A. and Canada Group 24 12V-48 AH 1.26 — — 6-3/4 x 10-1/4 x 9 in	For Australia and Japan N-50/FURUKAWA 12V-50 AH 1.26 15 kg 4,500 cc 252 x 225 x 165 mm



* = Cranking speed approximately 800 r/min

Item	Model	G1-AM3
Battery charger: A.C. Input (House hold use) D.C. Out put Battery charge rating		At your requirement 50/60 Hz, 410 VA 6 ~ 12V 20A, 18 ~ 24V 10A 5% of AH rating
Back buzzer: Type Model/Manufacturer Frequency Current		Continuous beep S-12/NIKKO 600 ± 100 Hz. Less than 0.08A
Fuse: Plus fuse: Amperage/Q'ty Minum fuse: Amperage/Q'ty		10A/1pc plus one spare 10A/1pc plus one spare

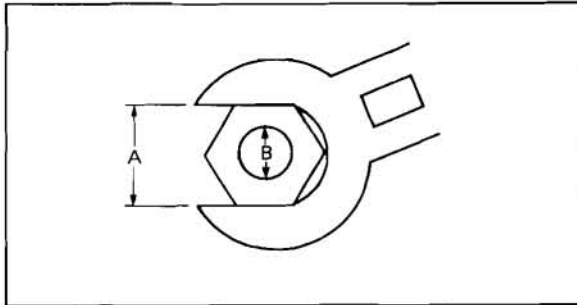
10-3. TIGHTENING TORQUE

Part to be tightened	Part name	Thread size	Tightening torque			Remarks
			Nm	m·kg	ft·lb	
[Engine]						
Spark plug		M14 P1.25	28	2.8	20	
Airshroud x Cylinder head crankcase	Bolt	M6 P1.0	7	0.7	5.1	Use Loctite®
Airshroud cylinder 1 x 2	Pan head	M6 P1.0	5	0.5	3.6	Use Loctite®
Cylinder head: First	Nut	M8 P1.25	20	2.0	14	
			25	2.5	18	
Cylinder x Exhaust pipe ring nut	Bolt	M8 P1.25	15	1.5	11	
			Clamp & Pan head	M4 P0.7		
Oil pump ass'y x Gear unit ass'y	Pan head	M5 P0.8	4	0.4	2.9	Tightening steady
Fan x CDI magneto	Bolt	M6 P1.0	10	1.0	7.2	Use loctite®
Flywheel magneto	Nut	M16 P1.0	73	7.3	53	
Crankcase x Engine bracket	Bolt	M10 P1.25	30	3.0	22	
Crankcase left x Right	Pan head	M6 P1.0	7	0.7	5	
 <p>[Crankcase tightening sequence]</p>						
[Drive]						
Primary sheave cap x Engine	Bolt	1/2-UNF	75	7.5	54	
Secondary sheave x Input shaft	Castle nut	M12 P1.25	60	6.0	43	
Transmission case x Rear arm	Bolt	M10 P1.25	40	4.0	29	
Transmission case x Rear arm housing	Bolt	M8 P1.25	25	2.5	18	
Transmission case 1 x Transmission case 2	Nut	M8 P1.25	20	2.0	14	First
			25	2.5	18	Final
Differential case x Ring gear	Bolt	M8 P1.25	25	2.5	18	
Governor fork x Governor shaft	Pan head	M4 P0.8	2	0.2	1.4	Use loctite®
[Chassis]						
Tension rod x Front lower arm	Bolt	M12 P1.25	125	12.5	90	
Tension rod x Frame	Bolt	M8 P1.25	68	6.8	49	
Front lower arm x Frame	Bolt	M10 P1.25	68	6.8	49	
Rear arm comp. x Frame	Bolt	M10 P1.25	90	9.0	65	
Tie rod x Ball joint	Nut	M12 P1.25	43	4.3	31	
King pin x Steering knuckle	Nylon nut	M12 P1.25	87	8.7	65	
Pitman arm x Idler arm	Nylon nut	M16 P1.5	85	8.5	61	Use lock washer
Steering gear housing x Steering cover	Bolt	M8 P1.25	18	1.8	13	
Steering adjusting bolt x Nut	Nut	M48 P2.0	25	2.5	18	55 mm width
Wheel x Hub or drum	Nut	M12 P1.25	80	8.0	58	
Back plate ass'y x Rear axle housing	Bolt	M8 P1.25	30	3.0	22	
Back lower support x Hinge	Nut	M10 P1.25	35	3.5	25	
[Electrical]						
Battery hold down x Battery	Nylon nut	M6 P1.0	2	0.2	1.4	
Traction motor terminal x Wire	Nut	M8 P1.25	7	0.7	5	
Relay terminal x Wire	Nut	M8 P1.25	6	0.6	4.3	

GENERAL TORQUE SPECIFICATIONS

This chart specifies torque for standard fasteners with standard I.S.O. pitch threads. Torque specifications for special components or assemblies are included in the applicable sections of this book. To avoid warpage, tighten multi-fastener assemblies in a criss-cross fashion, in progressive stages, until full torque is reached. Unless otherwise specified, torque specifications call for clean, dry threads. Components should be at room temperature.

A (Nut)	B (Bolt)	General torque specifications		
		Nm	m·kg	ft·lb
10 mm	6 mm	6	0.6	4.3
12 mm	8 mm	15	1.5	11
14 mm	10 mm	30	3.0	22
17 mm	12 mm	55	5.5	40
19 mm	14 mm	85	8.5	51
22 mm	16 mm	130	13.0	94



CONVERSION TABLES

METRIC TO INCH SYSTEM		
Known	Multiplier	Result
m·kg	9.807	Nm
	7.233	ft·lb
kg	9.807	N
	2.205	lb
mm	0.03937	in
cm ³	0.03527	Imp oz
	0.03381	US oz
L (liter)	0.2200	Imp gal
	0.2642	US gal
L (liter)	0.8802	Imp qt
	1.057	US qt
kg/mm	9.807	N/mm
	56.00	lb/in
kg/cm ²	98.07	kPa
	14.22	psi
mmHg	133.3	pa
	0.03937	inHg
Centigrade (°C)	9/5 (°C) + 32	Fahrenheit (°F)

INCH TO METRIC SYSTEM		
Known	Multiplier	Result
Nm	0.10197	m·kg
ft·lb	0.13826	
N	0.10197	kg
lb	0.4535	
in	25.4	mm
Imp oz	28.35	cm ³
US oz	29.57	
Imp gal	4.545	L (liter)
US gal	3.785	
Imp qt	1.136	L (liter)
US qt	3.785	
N/mm	0.10197	kg/mm
lb/in	0.0178	
kPa	0.0102	kg/cm ²
psi	0.0703	
pa	0.0075	mmHg
inHg	25.4	
Fahrenheit (°F)	5/9 (°F) - 32	Centigrade (°C)

DEFINITIONS OF TERMS

m•kg = Meter Kilogram(s) (usually torque)

g = Gram(s)

kg = Kilogram(s) (1000 grams)

L = Liter(s)

cm³ = Cubic centimeter(s)
(volume or capacity)

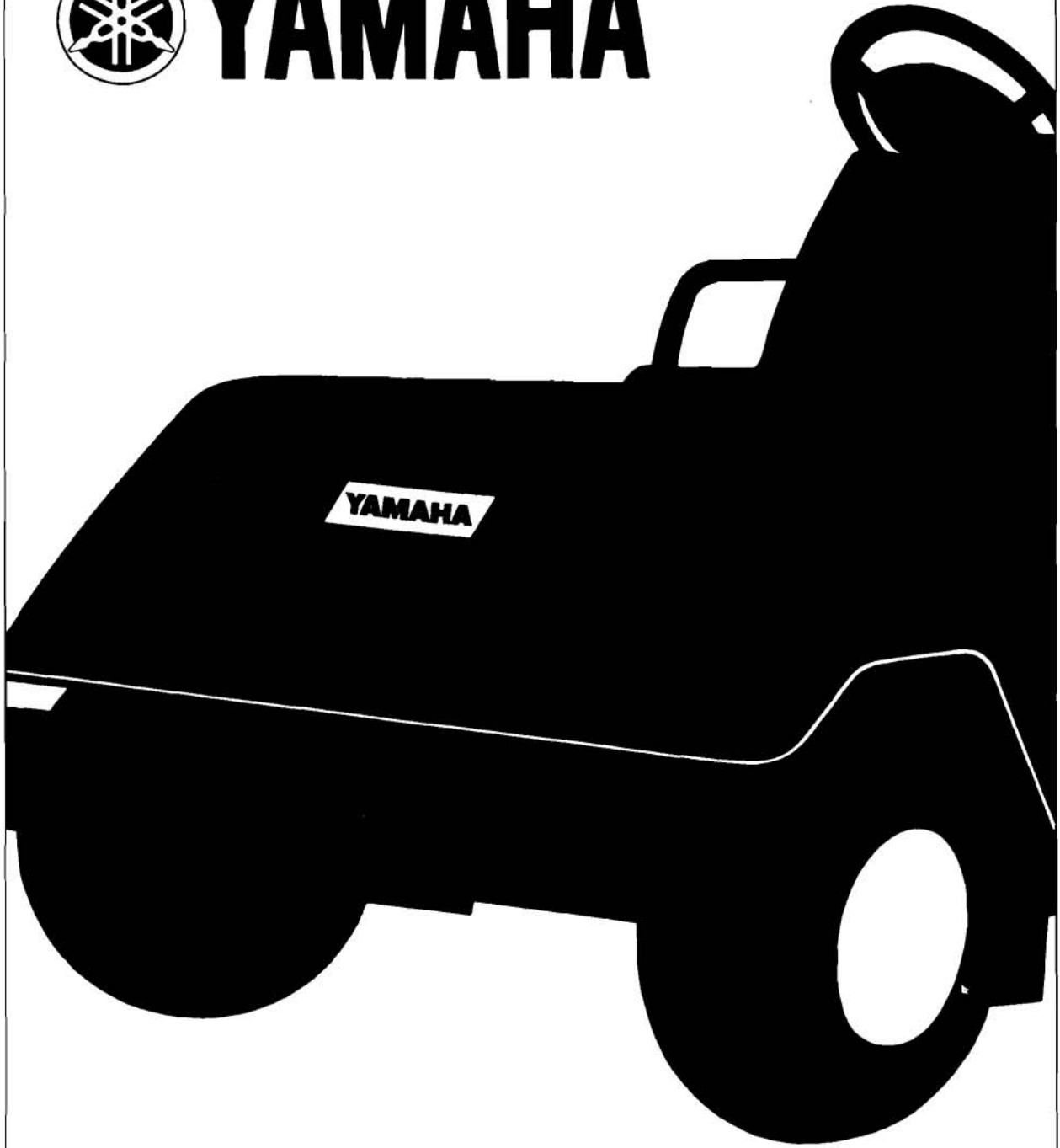
kg/mm = Kilogram(s) per millimeter
(usually spring compression rate)

kg/cm² = Kilogram(s) per square centimeter
(pressure)

cc	Liter	US gallon
1	0.001	0.0002642
1,000	1	0.2642
3,785	3.875	1
4,546	4.546	1.201
946.1	0.9461	0.25
1136.3	1.1363	0.3002



YAMAHA



G1-A3 / G1-E3

G O L F · C A R · S E R V I C E · M A N U A L

INDEX

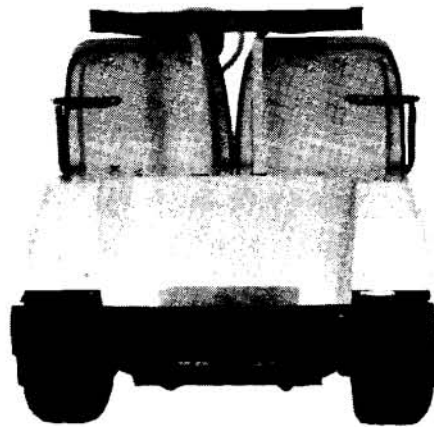
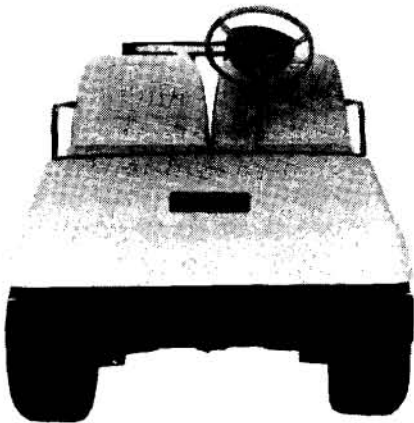
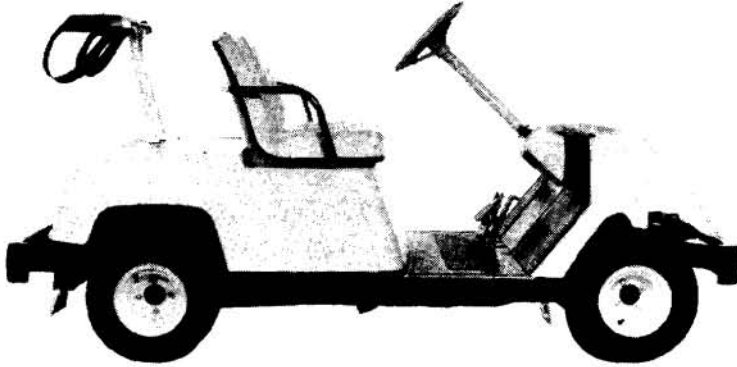
GENERAL INFORMATION	1
PERIODIC INSPECTIONS AND ADJUSTMENTS	2
ENGINE OVERHAUL	3
CARBURETION	4
POWER TRAIN	5
CHASSIS	6
ELECTRICAL	7
ELECTRIC CAR	8
TROUBLESHOOTING	9
APPENDIX	10

CHAPTER 1. GENERAL INFORMATION

1-1.	EXTERNAL VIEW.....	1-1
1-2.	LOCATION OF THE "CAUTION AND SPECIFICATION LABELS"	1-2
1-3.	DESCRIPTION.....	1-3
1-4.	CAR IDENTIFICATION.....	1-5
1-5.	FEATURES	1-5
	ENGINE	1-6
	GOVERNOR.....	1-9
	CLUTCHES.....	1-11
	DIFFERENTIAL	1-13
	BRAKES.....	1-15
	YAMAHA AUTOLUBE	1-20
1-6.	SERVICE NOTES.....	1-23
1-7.	SPECIAL TOOLS	1-28

GENERAL INFORMATION

1-1. EXTERNAL VIEW



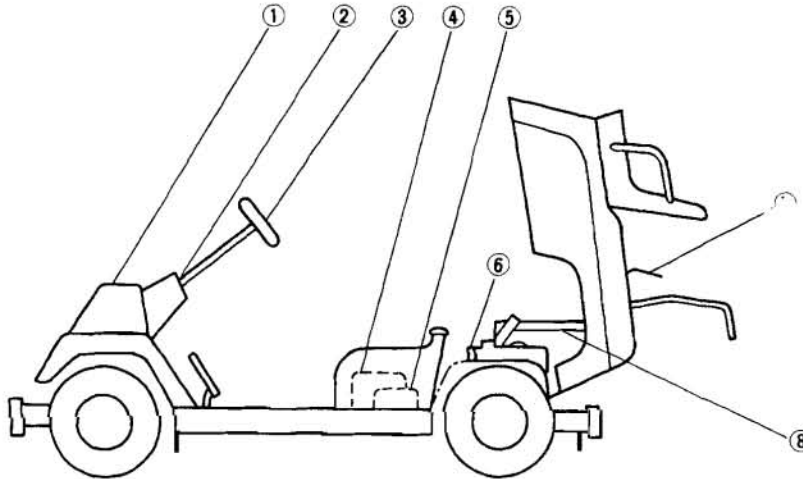
1-2. LOCATION OF THE "CAUTION AND SPECIFICATION LABELS"

() indicate label location.

*: For G1-A only

** : For G1-E only

"No asterisks" applies both G1-A and G1-E.



(Front cowl top)

①

FOR YOUR SAFETY

- ALWAYS SET BRAKE BEFORE LEAVING CAR
- DRIVE SLOWLY ON HILLS, SLOPES & INCLINES
- AVOID SHARP QUICK TURNS
- ONLY 2 PASSENGERS ALLOWED
- KEEP FEET AND ARMS INSIDE CAR
- NO CHILDREN TO OPERATE CAR
- KEEP PROPER DISTANCE FROM GREENS, TEES & TRAPS
- OBSERVE CLUB RULES FOR CAR OPERATION

YOU ARE RESPONSIBLE FOR ANY DAMAGE TO THIS CAR WHILE IN YOUR POSSESSION

* (Instrument panel)

②

DO NOT CHANGE SWITCH POSITION WHILE CAR IS MOVING

(Steering handle)

③

OPERATING INSTRUCTIONS

- SELECT PROPER SWITCH POSITION BEFORE STARTING THE CAR.
- CAR STARTS AUTOMATICALLY WHEN ACCELERATOR PEDAL IS DEPRESSED, AND STOPS WHEN THE PEDAL IS FULLY RELEASED.
- SET PARKING BRAKE BY FIRMLY DEPRESSING THE TOP SECTION OF BRAKE PEDAL WHEN LEAVING CAR. BRAKE AUTOMATICALLY RELEASES WHEN ACCELERATOR PEDAL IS DEPRESSED.
- BRING CAR TO COMPLETE STOP BEFORE REVERSING DIRECTION.
- DRIVE STRAIGHT UP AND DOWN INCLINES.
- DRIVE SLOWLY WHEN MAKING SHARP TURNS.

WARNING

THIS VEHICLE WAS NOT MANUFACTURED FOR USE ON PUBLIC STREETS AND DOES NOT COMPLY WITH FEDERAL MOTOR VEHICLE SAFETY STANDARDS APPLICABLE TO PASSENGER CARS.

(Battery)

④

POISON/DANGER CAUSES SEVERE BURNS

Contains sulfuric acid. Avoid contact with skin, eyes or clothing. Antidote: EXTERNAL: Flush with water. INTERNAL: Drink large quantities water or milk. Follow with milk of magnesia, beaten egg or veg. oil. Call physician immediately. Eyes: Flush with water for 15 minutes and get prompt medical attention. Batteries produce explosive gases. Keep sparks, flame, cigarettes away. Ventilate when charging or using in enclosed space. Always shield eyes when working near batteries.

KEEP OUT OF REACH OF CHILDREN

** (Solenoid cover)

⑤

DO NOT SPRAY HIGH PRESSURE WATER ON THE SOLENOID TOPS OR UNDER THIS COVER

* (In front of oil tank)

⑥

NOTICE! THIS CAR IS EQUIPPED WITH AUTOLUBE OIL INJECTION SYSTEM. DO NOT USE A GASOLINE-OIL MIX

FILL WITH YAMALUBE 2 OIL

- (A 81A, TC-W TYPE OIL CAN BE USED IF YAMALUBE 2 IS NOT AVAILABLE)
- CHECK OIL LEVEL SIGHT GAUGE DURING SERVICING TO MAINTAIN PROPER OPERATING LEVEL

* (Back of fuel lid)

⑦

NOTICE

USE STRAIGHT GASOLINE ONLY

DO NOT USE A GASOLINE-OIL MIX

THIS CAR IS EQUIPPED WITH AUTOLUBE OIL INJECTION SYSTEM

CHECK OIL TANK LEVEL PERIODICALLY

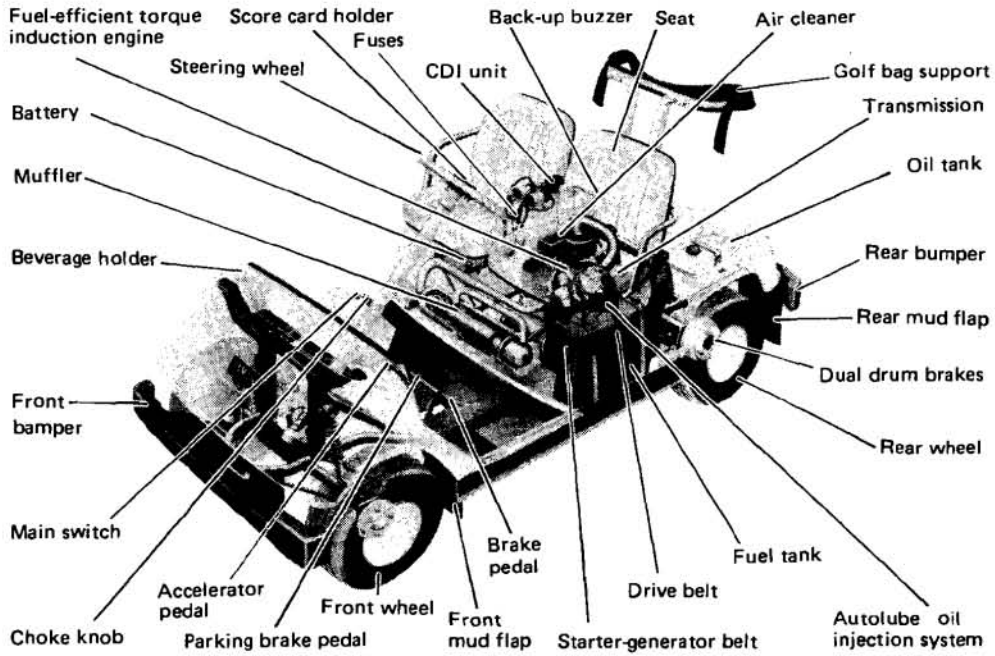
(Cowl supporting leg)

⑧

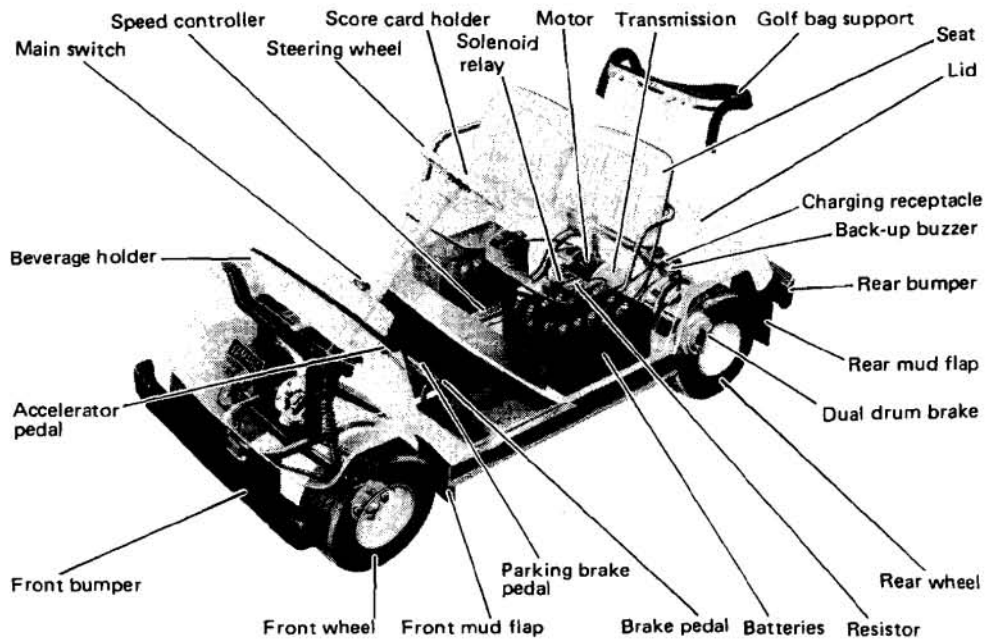
WARNING TO PREVENT ACCIDENTAL CLOSING OF BODY, INSERT PIN OR SCREWDRIVER IN HOLE

1-3. DESCRIPTION

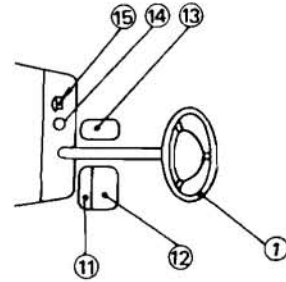
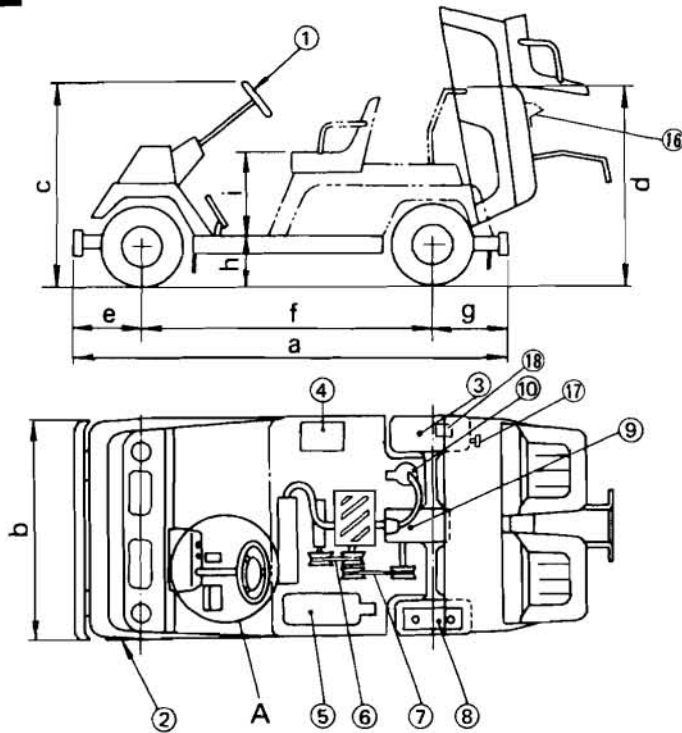
G1-A3



G1-E3

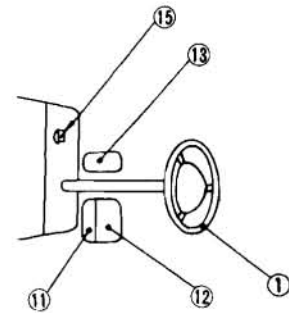
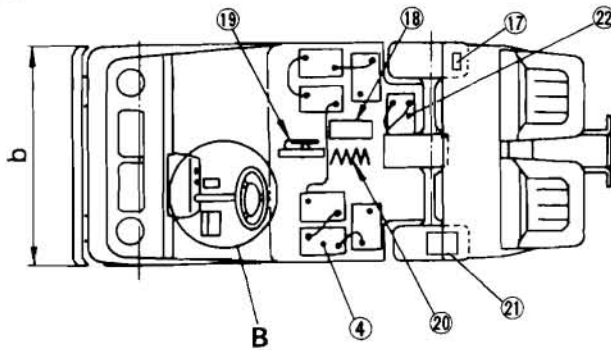


G1-A3



Expanded View of A

G1-E3



Expanded View of B

a	Overall length	2,430 mm (94.6 in)
b	Overall width	1,140 mm (44.9 in)
c	Steering height	1,180 mm (46.5 in)
d	Carrier height	1,100 mm (43.3 in)
e	Over-hang (front)	364 mm (14.3 in)
f	Wheelbase	1,550 mm (61.0 in)
g	Over-hang (rear)	489 mm (19.3 in)
h	Height of floor	295 mm (11.6 in)
i	Height of seat from floor	428 mm (16.9 in)

- | | |
|---------------------------|-------------------------|
| 1. Steering wheel | 11. Parking brake pedal |
| 2. Front wheel | 12. Brake pedal |
| 3. Rear wheel | 13. Accelerator pedal |
| Tire size (Tubeless) | |
| (F) 18 x 8.50-8-4PR | 14. Choke knob |
| (R) 18 x 8.50-8-4PR | 15. Main switch |
| 4. Battery | 16. Lid |
| 5. Fuel tank | 17. Buck up buzzer |
| 6. Starter-generator belt | 18. Solenoid relay |
| 7. Clutch belt | 19. Speed controller |
| 8. Oil tank | 20. Resistor |
| 9. Transmission | 21. Charging receptacle |
| 10. Air cleaner | 22. Motor |



Download the full PDF manual instantly.

Our customer service e-mail:

aservicemanualpdf@yahoo.com