

CONTENTS

1. MODIFICATIONS.....	1
A. ENGINE.....	1
B. DRIVE.....	2
C. CHASSIS.....	3
D. ELECTRICAL.....	5
2. SERVICE.....	7
A. MAINTENANCE INTERVALS.....	7
B. SPECIFICATIONS.....	9
C. SPECIAL TOOLS.....	14
D. WIRING DIAGRAM.....	15
E. WIRE AND PIPE ROUTING DIAGRAM.....	16

1. MODIFICATIONS

(Compared with 1979 model ET340)

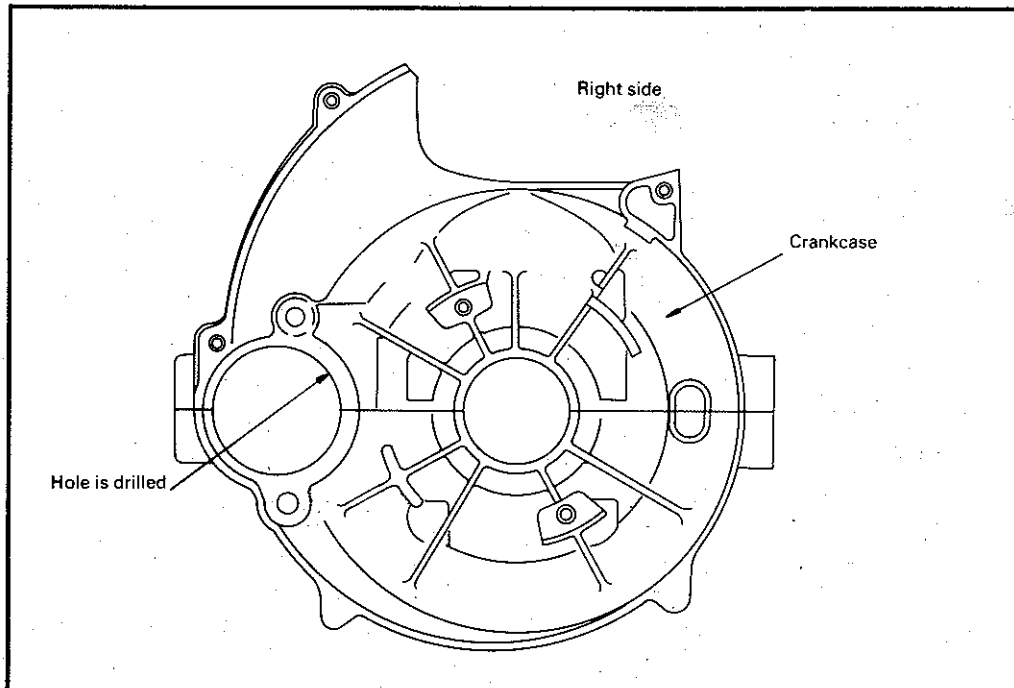
A. ENGINE

1. Crankcase (Upper and lower halves)
(8G8-15100-00 → 8J4-15100-00)

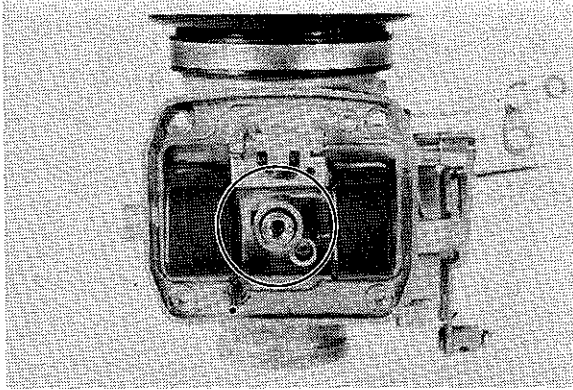
8G8-15100-00 can not be used on
1980 model.

In order to mount the optional starter
motor, mounting holes are provided.

8J4-15100-00 can be used on both
1979 and 1980 models.



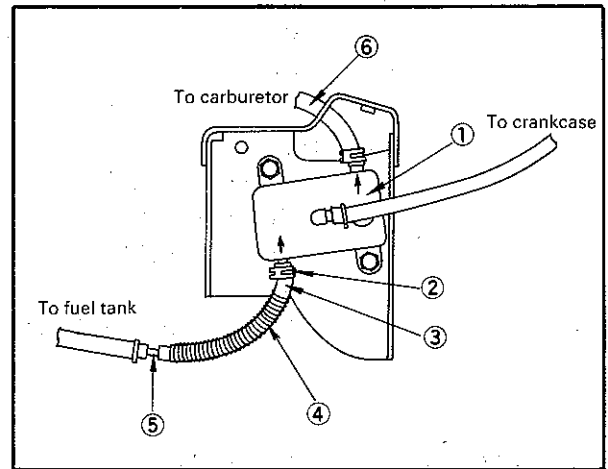
2. Carburetor
(8H5-14101-00 → 8J6-14101-00)
To achieve the precise fitting of the main nozzle, the main nozzle is press-fitted to the mixing chamber body, and accordingly the main nozzle cannot be removed.



Interchangeability: Yes



'80 model



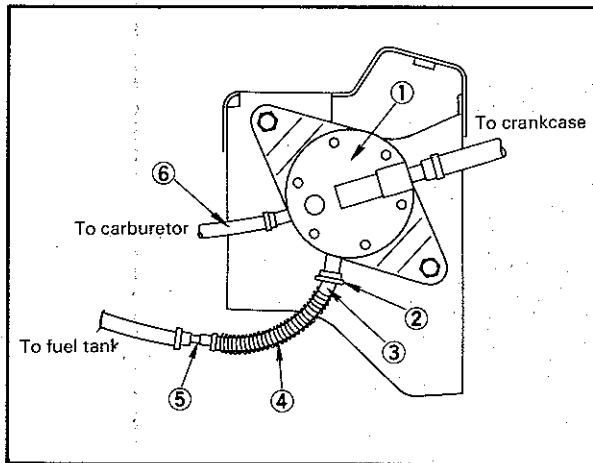
- | | |
|---|---|
| 1. Fuel pump ass'y
(8J6-24410-00) | 4. Pipe protector: 9.5 mm
(8G5-24328-00) |
| 2. Clip: 8.6 mm
(90467-09026) | 5. Joint pipe: 8-6 mm
(8J6-24376-00) |
| 3. Fuel pipe: 5 x 9 x 270 mm
(90446-09062) | 6. Fuel pipe: 240 mm
(90445-09466) |

3. Fuel pump
A small-type, lightweight fuel pump is adopted and therefore, some of the parts are modified.

Interchangeability: Yes

(Interchangeable as a set of the above-listed parts)

'79 model



- | | |
|--|--|
| 1. Fuel pump ass'y
(8G8-24410-00) | 4. Pipe protector: 11.5 mm
(8F3-24326-00) |
| 2. Clip: 11 mm
(90467-11028) | 5. Joint pipe: 8-8 mm
(878-24379-00) |
| 3. Fuel pipe: 7 x 11 x 230 mm
(90446-11027) | 6. Fuel pipe: 350 mm
(90446-09058) |

B. DRIVE

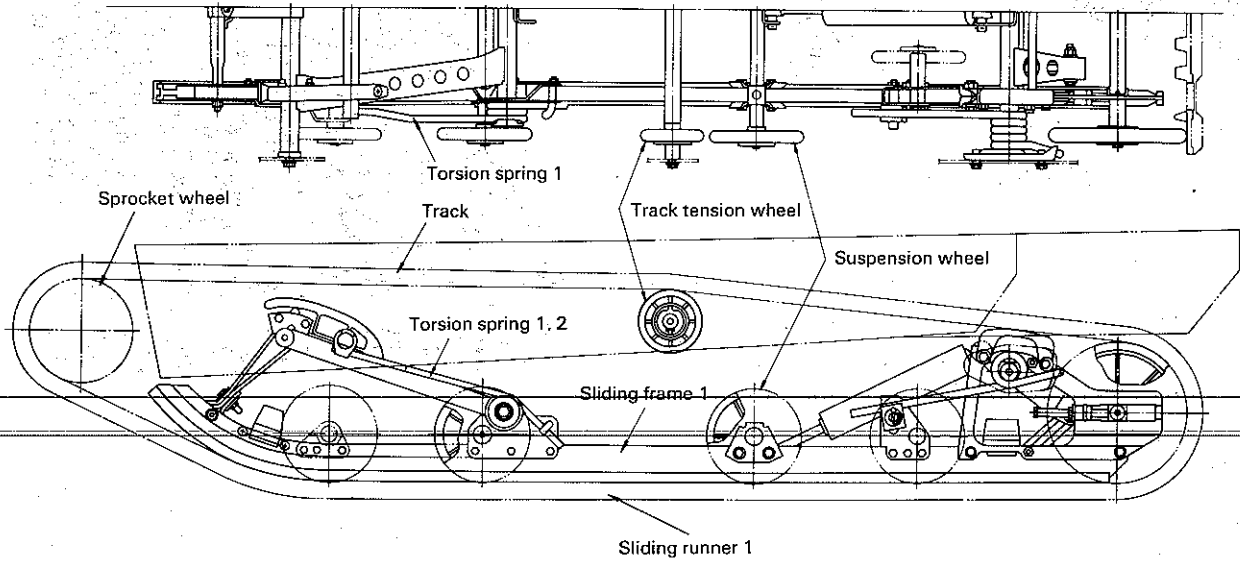
1. Track
(8G8-47110-00 → 8L1-47110-00)
To improve maneuverability on fresh snow, tractive performance and climbability, a longer track is employed.

	ET340 ('79)	ET340T ('80)
Pitch	64 mm	83.6 mm
Number of links	44	41
Length on ground	760 mm	1,110 mm

As a result of change of the track, the following parts are modified.

- Sprocket wheel
8F3-47531-00 (7 teeth)
→ 8H9-47531-00 (11 teeth)
- Sliding frame 1
8G8-47411-00 → 8L1-47411-00

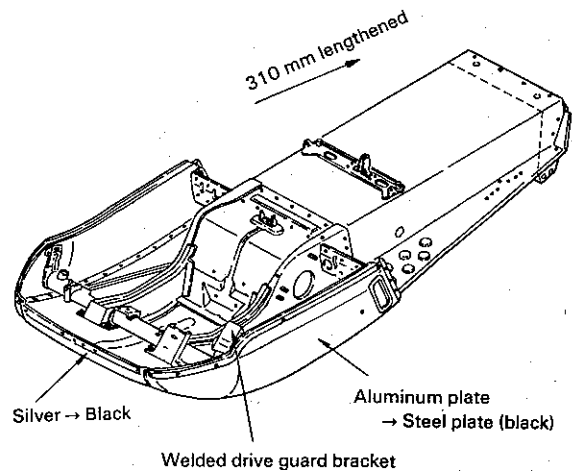
- Sliding runner 1
8E7-47421-00 → 8L1-47421-00
(Due to a larger contact area of track with ground)
- Torsion spring 1
90508-70375 (7.0 mm dia., Red)
→ 90508-90418 (9.0 mm dia., Blue)
- Torsion spring 2
90508-70376 (7.0 mm dia., Red)
- 90508-90419 (9.0 mm dia., Blue)
- Track tension wheel
(8H8-47310-00) (Newly added due to longer track)
- Suspension wheel
(899-47310-01)
2 pcs. → 4 pcs.
(Increased due to longer track)



C. CHASSIS

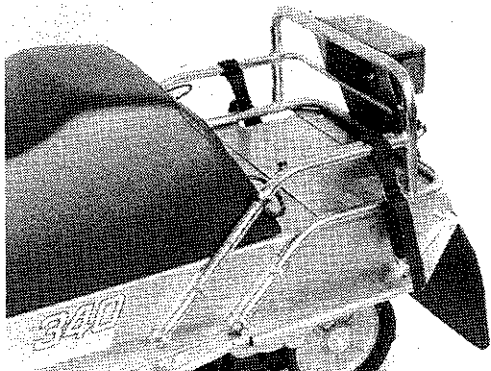
1. Frame

- (8G8-21910-00 → 8J6-21910-00)
- As a result of modification of the track (refer to "B Track"), the chassis is lengthened 310 mm.
- For better durability of the frame, the engine hood material is changed from aluminium to steel plate (black coating).
- The drive guard bracket is welded to the hood for easy assembling.
- The front part of the frame is painted black as part of the new 1980 model design.



2. Rear bumper

To increase the loading capacity, the rear bumper is so designed that it can also be used as a carrier.

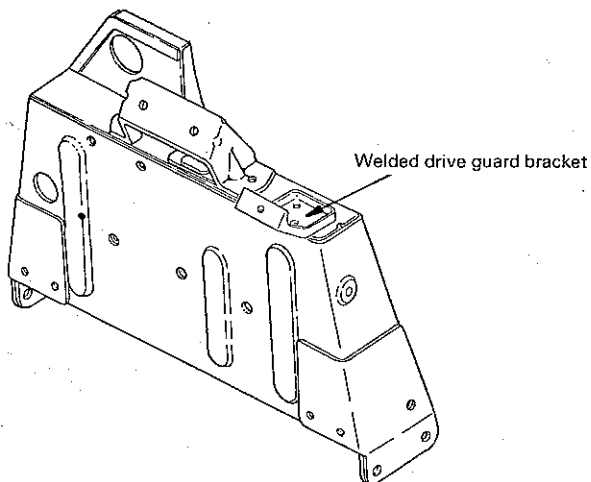


Interchangeability: No

3. Steering gate

(8G8-2371-01 → 8J6-23871-00)

For easy assembling and maintenance, the drive guard bracket is welded to the steering gate.



Interchangeability: Yes

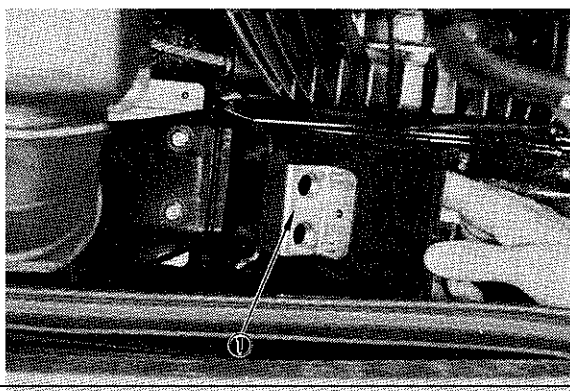
The previous model's steering gate (8G8-23871-01) is interchangeable, as a set with the drive guard bracket (8F3-77316-01), with the new steering gate.

NOTE:

Due to modifications in 1. and 2. above, the 1979 model's drive guard bracket 1 (8G5-77315-00) and bracket 2 (8F3-77316-01) are no longer used.

4. Luggage box

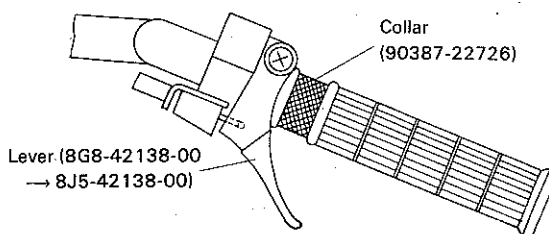
For better saleability, a spark plug holder is provided on the luggage box cover.



1. Spark plug holder (8H8-77356-00)

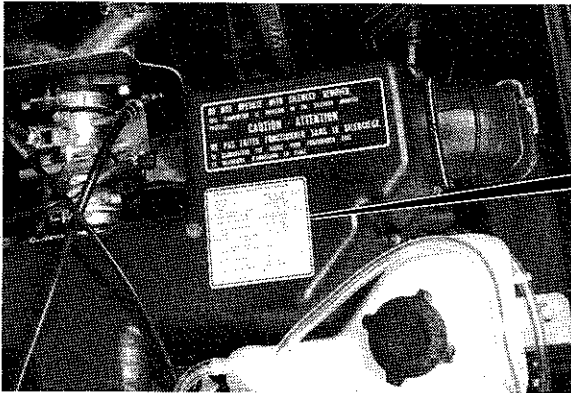
5. Throttle

To keep the throttle cable end,, which is held by the throttle lever, from contacting the throttle grip, a collar is mounted and the lever is properly curved.



Lever (8J5-42138-00) and collar (90387-22726) can be used on both 1979 and 1980 models. Lever (8G8-42138-00) can not be used on the 1980 model.

6. Tune-up label
(8K5-77743-00)
For easy service, the tune-up label is adhered to the intake silencer.



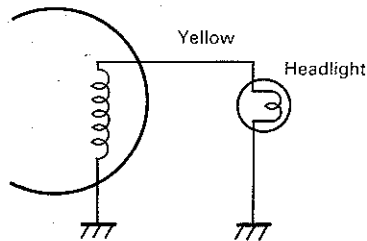
ET340T (8L1) SPECIFIKATIONER	
1. BENSIN	MIN 92 OKT. R.O.N.
2. MOTOROLJA	YAMALUBE
3. TÄNDSTIFT	BR-9ES (NGK)
4. ELEKTRODEAVSTAND	0.7 ~ 0.8 mm
5. TÄNDINSTÄLLNING	1.6 ± 0.1 mm
6. LÅGFART (BRÄNSLE) JUSTERINGSSKRUV	1.0 ÖPEN
7. TOMGANGSVARVTAL	1700 RPM
8. BRÄNSLENIVÅ	25 ± 1 mm
9. KEDJEHUS OLJEVOLYM OCH VISKOSITET	400 cc. GEAR OLJA SAE #75 ~ 80
10. VARITORAVSTAND	266 ± 2 mm
11. VARIATOR SIDOFÖRSKJUTNING	11 ± 1 mm
12. MATTSPÄNNING	40 ~ 45 mm/10 kg

* FÖR YTTERLIGARE INFORMATION SE INSTRUKTIONSBOKEN FÖR DENNA MODELL.
* SPECIFIKATIONER KAN ÄNDRAS UTAN MEDDELANDE.

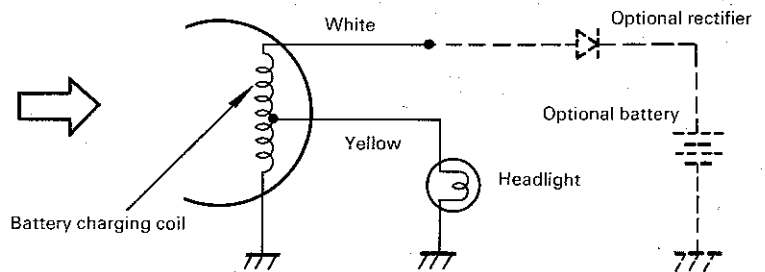
D. ELECTRICAL

1. C.D.I. magneto
(8H5-85500-20 → 8J9-85500-20)
○ For optional electric starter, the battery charging coil is added.

'79 model



'80 model



- Rotor assembly
(8H5-85550-20 → 8J9-85550-20)
For optional electric starter, the ring gear mounting holes (M8 P1.0 x 4) are provided.

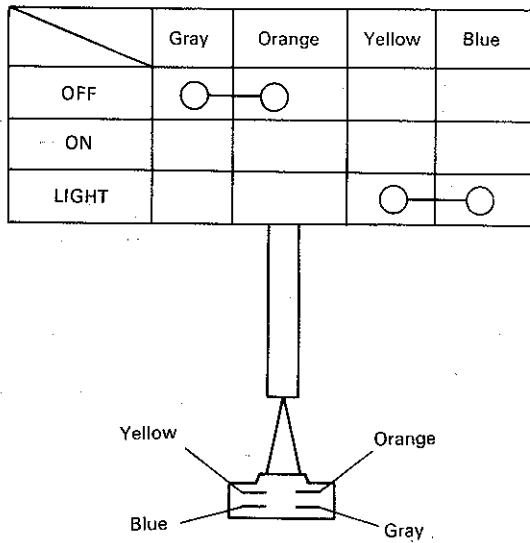
BR-9EV (N.G.K.) → BR-9ES (N.G.K.)

Interchangeability: Yes

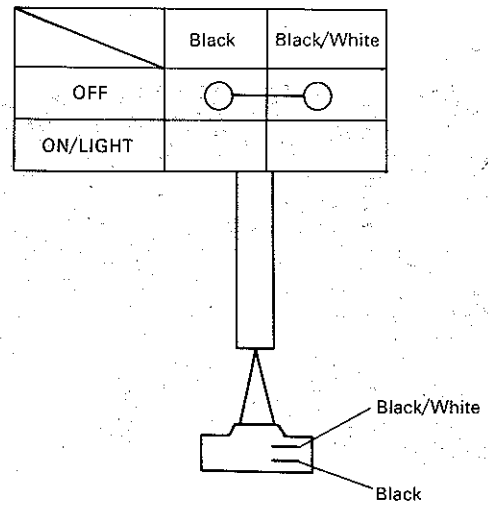
2. Spark plug
(94701-00114 → 94701-00186)
The spark plug has been changed to a type because it is more easily available in the market and does not affect engine performance adversely.

3. Main switch
(8G8-82508-20 → 8J5-82508-21)
For additional safety, the headlight and taillight circuits are changed so that these lights are kept turned on as long as the engine is in operation.

'79 model



'80 model



Interchangeability: No

4. Wire harness

(8G8-82590-20 → 8J6-82590-20)

For additional safety, the headlight and taillight circuits are changed so that these lights are kept turned on as long as the engine is in operation. (Refer to "2-D Wiring Diagram.")

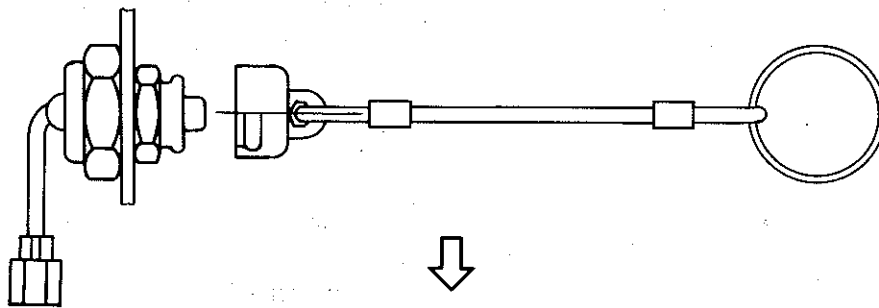
Interchangeability: No

5. Tether switch

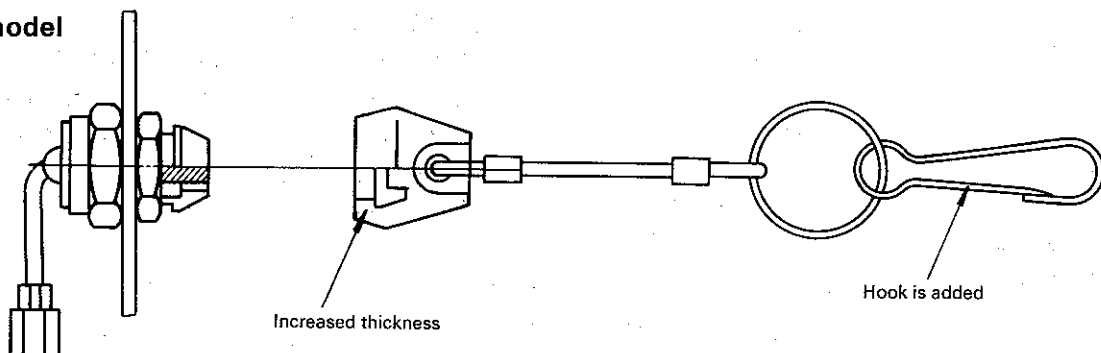
(8F3-82550-00 → 8H8-82550-00)

To prevent the switch from coming off easily, the rubber cap thickness is increased, by which the durability and strength of the cap is also increased. The ring is provided with a hook so it can easily be hooked to the clothes.

'79 model



'80 model



Interchangeability: Yes

2. SERVICE

A. MAINTENANCE INTERVALS [PERIODIC MAINTENANCE]

Check point	Every			When necessary	Seasonally
	20 hrs. or 400 km (250 mi)	40 hrs. or 800 km (500 mi)	80 hrs or 1600 km (1000 mi)		
ENGINE:					
Tightness of bolts and nuts	○				○
Bends, cracks and wear	○				○
Abnormal noise	○				○
Loose connection and breaks of fuel and pulse pipes	○				○
Loose connection and breaks of oil pipes	○				○
Loose connection and breaks of oil delivery pipe	○				○
Manual rope starter system		○			○
Carburetor					
● Operation of starter jet		○			○
● Mixing adjuster (pilot screw)				○	○
● Idling speed adjustment				○	○
Operation and adjustment of oil pump		○			○
Ignition timing					○
Cylinder compressions			○		○
Cylinder head/exhaust pipe decarbonize					○
Spark plug condition, gap and cleaning	○				○
Tightening of the cylinder head**					○
DRIVE:					
Tightness of bolts and nuts	○				○
Wear on slide runners	○				○
Primary drive system		○			○
V-belt	○				○
Secondary drive system		○			○
Sheave distance		○			○
Sheave offset		○			○
Brake pad wear		○			○
Brake operation and adjustment		○			○
Guide wheel rubber		○			○
Wear of drive track wheel sprocket		○			○
Drive track adjustment		○			○
Breaks in drive track		○			○
Bends in front and rear axles		○			○
Checking of lock washers		○			○
Drive chain adjustment		○			○
Drive chain oil level		○			○
BODY:					
Tightness of bolts and nuts	○				○
Bends and cracks	○				○
Welded riveted, joints	○				○
Ski adjustment		○			○
Ski runner wear	○				○
Breaks in fuel tank		○			○
Cleaning of fuel tank					○
Fuel filter					○
Loose connection and breaks in fuel pipe		○			○
Breaks in oil tank		○			○
Oil filter					○

Check point	Every			When necessary	Seasonally
	20 hrs. or 400 km (250 mi)	40 hrs. or 800 km (500 mi)	80 hrs or 1600 km (1000 mi)		
ELECTRICAL:					
Wear, breakage of wire covering		○			○
Breaks in high-tension cord	○				○
Voltage regulator working voltage					○
Operation of engine stop switch		○			○
Operation of tether switch		○			○
Headlight		○			○
Taillight		○			○
Brake light		○			○

** Retighten every 10 hours from the first use.

[LUBRICATION INTERVALS]

Lubrication point	Every			When necessary	Seasonally	Oil/Grease Brand name
	20 hrs. or 400 km (250 mi)	40 hrs. or 800 km (500 mi)	80 hrs or 1600 km (1000 mi)			
ENGINE:						
Starter case					○	Aeroshell grease #7A or Esso Beacon 325 grease
Oil pump control box			○		○	
Pump drive cover			○		○	
Oil in the oil tank				○		YAMALUBE 2-cycle oil
DRIVE:						
Primary sheave weight and roller pins		○			○	Molybdenum disulfide snowmobile grease
Secondary shaft and sliding sheave		○			○	Molybdenum disulfide snowmobile grease
Front axle housing		○			○	Light all-purpose grease
Shaft 1 and shaft 2 (Slide rail)			○		○	
Drive chain oil replacement		○			○	Gear oil API "GL-3" SAE #75 or #80
BODY:						
Steering column lower bearing		○			○	Light all-purpose grease
Steering column upper bearing		○			○	Motor oil
Steering links		○			○	Light all-purpose grease
Ski column		○			○	
Ski wear plate		○			○	
Ski retaining pin		○			○	Esso Beacon 325 grease
Brake wire end stopper and brake lever		○			○	

B. SPECIFICATIONS

NOTE: * New specification
(Compared with 1979 ET340)

General

Model	ET340T('80)
Model: Model (I.B.M. No.) Frame I.D. & starting number Engine I.D. & starting number	* ET340T ('80) (8L1) * 8L1-051101 * E338-051101
Dimension: Overall length Overall width (std) Overall height (w/windshield)	* 2,895 mm * 990 mm * 1,075 mm

Engine

Description: Engine type Engine model Displacement Bore X Stroke Effective compression ratio Starting system Ignition system Lubrication system	Fan cooled two-stroke 5-port, twin cylinders E338 337 cm ³ 60 X 59.6 mm 6.1 : 1 Recoil hand starter C.D.I. "Autolube" oil inspection
Cylinder head: Combustion chamber volume (with spark plug) Compression chamber type Head gasket thickness	21.3 cm ³ Dome + Squish 1.0 mm
Cylinder: Material Bore size Taper limit Out of round limit	Cast iron sleeves aluminum 60 mm 0.05 mm 0.01 mm
Piston: Piston skirt clearance (Measuring point) Piston oversize Piston pin outside diameter X length	0.040 ~ 0.045 mm (10 mm from piston skirt end) 1st 60.25 mm 2nd 60.50 mm 3rd 60.75 mm 4th 61.00 mm φ16 X 47 mm
Piston ring: Piston ring design (Top) Piston ring design (2nd) Ring end gap (installed) (Top) Ring end gap (installed) (2nd)	Keystone Keystone 0.35 ~ 0.55 mm 0.35 ~ 0.55 mm
Small end bearing: Type	Needle bearing
Big end bearing: Type	Needle bearing
Crankshaft: Crankshaft assembly width (A)	160 ± 0.1 mm

<p>Crankshaft assembly width (F)</p> <p>Crankshaft deflection (D)</p> <p>Connecting rod large end side clearance (C)</p> <p>Connecting rod small end deflection (P)</p>	<p>52 $\begin{smallmatrix} +0 \\ -0.05 \end{smallmatrix}$ mm</p> <p>0.03 mm (D-1) 0.04 mm (D-2)</p> <p>0.04 mm (D-3) 0.03 mm (D-4)</p> <p>0.25 ~ 0.75 mm</p> <p>2.0 mm (0.079 in)</p>																																																		
<p>Crank pin outside diameter × length</p> <p>Crank pin type</p> <p>Crank bearing type (Left) × q'ty</p> <p>Crank bearing type (Center) × q'ty</p> <p>Crank bearing type (Right) × q'ty</p> <p>Crank oil seal type (Left) × q'ty</p> <p>Crank oil seal type (Center) × q'ty</p> <p>Crank oil seal type (Right) × q'ty</p>	<p>φ22 × 51 mm (φ0.866 × 2.008 in)</p> <p>Solid shaft assembly type with serration</p> <p>#6306 special × 1 pc.</p> <p>#6206 special × 2 pcs.</p> <p>#6305 special × 1 pc.</p> <p>FPJ-30 72 8 2TS × 1 pc.</p> <p>Labyrinth seal × 1 pc.</p> <p>FPJ-25 48 8TS × 1 pc.</p>																																																		
<p>Carburetor:</p> <p>Type & manufacturer/quantity</p> <p>I.D. Mark</p> <p>Main jet (M.J.)</p> <p>Pilot jet (P.J.)</p> <p>Pilot screw (P.S.)</p> <p>Throttle valve (Th.V.)</p> <p>Valve seat (V.S.)</p> <p>Float height</p> <p>Idling engine speed</p>	<p>B38-34 MIKUNI × 1 pc.</p> <p>* 8J600</p> <p>#240</p> <p>#75</p> <p>1.0 turns out</p> <p>#190</p> <p>φ1.5 mm (0.059 in)</p> <p>25 ± 1 mm (0.98 ± 0.04 in)</p> <p>1700 r/min</p>																																																		
<p>Main jet setting chart</p>																																																			
<table border="1"> <thead> <tr> <th colspan="2" rowspan="2">Temperature</th> <th>-30°C</th> <th>-20°C</th> <th>-10°C</th> <th>0°C</th> <th>10°C</th> <th>20°C</th> </tr> <tr> <th>(-22°F)</th> <th>(-4°F)</th> <th>(14°F)</th> <th>(32°F)</th> <th>(50°F)</th> <th>(68°F)</th> </tr> </thead> <tbody> <tr> <td rowspan="5">Altitude</td> <td>Sea level</td> <td>#250</td> <td>#240 (Std)</td> <td>#240 (Std)</td> <td>#220</td> <td>#220</td> <td>#220</td> </tr> <tr> <td>~ 700m</td> <td>#240 (Std)</td> <td>#240 (Std)</td> <td>#240 (Std)</td> <td>#220</td> <td>#220</td> <td>#220</td> </tr> <tr> <td>~ 1400m</td> <td>#240</td> <td>#240</td> <td>#220</td> <td>#220</td> <td>#210*</td> <td>#210*</td> </tr> <tr> <td>~ 2000m or more</td> <td>#220</td> <td>#220</td> <td>#210*</td> <td>#210*</td> <td>#210*</td> <td>#200*</td> </tr> <tr> <td></td> <td>#220</td> <td>#220</td> <td>#210*</td> <td>#210*</td> <td>#210*</td> <td>#200*</td> </tr> </tbody> </table>		Temperature		-30°C	-20°C	-10°C	0°C	10°C	20°C	(-22°F)	(-4°F)	(14°F)	(32°F)	(50°F)	(68°F)	Altitude	Sea level	#250	#240 (Std)	#240 (Std)	#220	#220	#220	~ 700m	#240 (Std)	#240 (Std)	#240 (Std)	#220	#220	#220	~ 1400m	#240	#240	#220	#220	#210*	#210*	~ 2000m or more	#220	#220	#210*	#210*	#210*	#200*		#220	#220	#210*	#210*	#210*	#200*
Temperature				-30°C	-20°C	-10°C	0°C	10°C	20°C																																										
		(-22°F)	(-4°F)	(14°F)	(32°F)	(50°F)	(68°F)																																												
Altitude	Sea level	#250	#240 (Std)	#240 (Std)	#220	#220	#220																																												
	~ 700m	#240 (Std)	#240 (Std)	#240 (Std)	#220	#220	#220																																												
	~ 1400m	#240	#240	#220	#220	#210*	#210*																																												
	~ 2000m or more	#220	#220	#210*	#210*	#210*	#200*																																												
		#220	#220	#210*	#210*	#210*	#200*																																												

Lubrication:	
Autolube pump — Color code	White
Autolube pump — Minimum stroke	0.20 ~ 0.25 mm
Autolube pump — Maximum stroke	1.65 ~ 1.87 mm
Autolube pump — Reduction ratio	1/32
Autolube pump — Output Min./200 strokes	0.50 ~ 0.63 cm ³
Autolube pump — Output Max./200 strokes	4.15 ~ 4.70 cm ³
Autolube pump wire free play	25 ± 1 mm at idle
Oil tank capacity	2.4 liter
Oil grade	YAMALUBE 2-cycle

Drive and track suspension

Transmission:	
Type	V-belt automatic centrifugal engagement
Drive ratio	3.5 : 1 ~ 1 : 1
Engagement rpm	3000 r/min
Primary spring:	
Part No.	90501-50500
Color code	Red
Secondary spring:	
Part No.	90508-40080
Color code	No painted
Secondary spring pre-load (twist)	160°
Sheave distance	266 ± 2 mm
Sheave off-set	11 ± 1 mm
V-belt width and outer line length	31.6 × 1,099 mm
V-belt wear limit	26 mm
Track suspension:	
Type	Slide rail suspension
Damper type	Oil and gas damper
Spring color code (Front)	Red
Spring color code (Rear)	No painted
Slide runner wear limit	10 mm
Track width	380 mm
Trade deflection	* 40 ~ 50 mm/10 kg
Length on ground	* 1110 mm
Wheel sprocket material and number of teeth	* Polyethylene 11T
Stopper band length	* 102 mm (2nd hole from the bottom)
Secondary drive:	
Type	Chain (#40K-2)
Reduction ratio	23/12 (1.917)
Chain pitch × Number of links	12.7 mm × 60L
Free play	10 $\begin{smallmatrix} +5 \\ -2 \end{smallmatrix}$ mm
Chain housing oil quantity	400 cm ³
Chain housing oil grade	Gear oil API "GL3" (SAE #75 or 85)
Brake:	
Type	Disc brake
Brake pad thickness	7.3 mm
Brake pad wear limit	1.0 mm
Gap between pad and disc	0.2 ~ 1.0 mm

Chassis

Frame: Material	Aluminum + Steel
Steering system: Caster (ski column) Camber Ski length × width × thickness Ski stance Ski toe-out Steering linkage type Lock to lock angle (Ski) Lock to lock angle (Steering column)	25° 0° * 1000 × 136 × 2.6 mm * 800 mm 0 ~ 6 mm (0 ~ 0.23 mm) Tie-rod Right ski, L: 27.6° R: 24.8° Left ski, L: 24.8° R: 27.6° Right: 54.3° Left: 56.3°
Front suspension: Type Damper type	Leaf spring Oil damper
Fuel tank: Capacity Fuel grade	22.7 liter Regular gasoline

Electrical

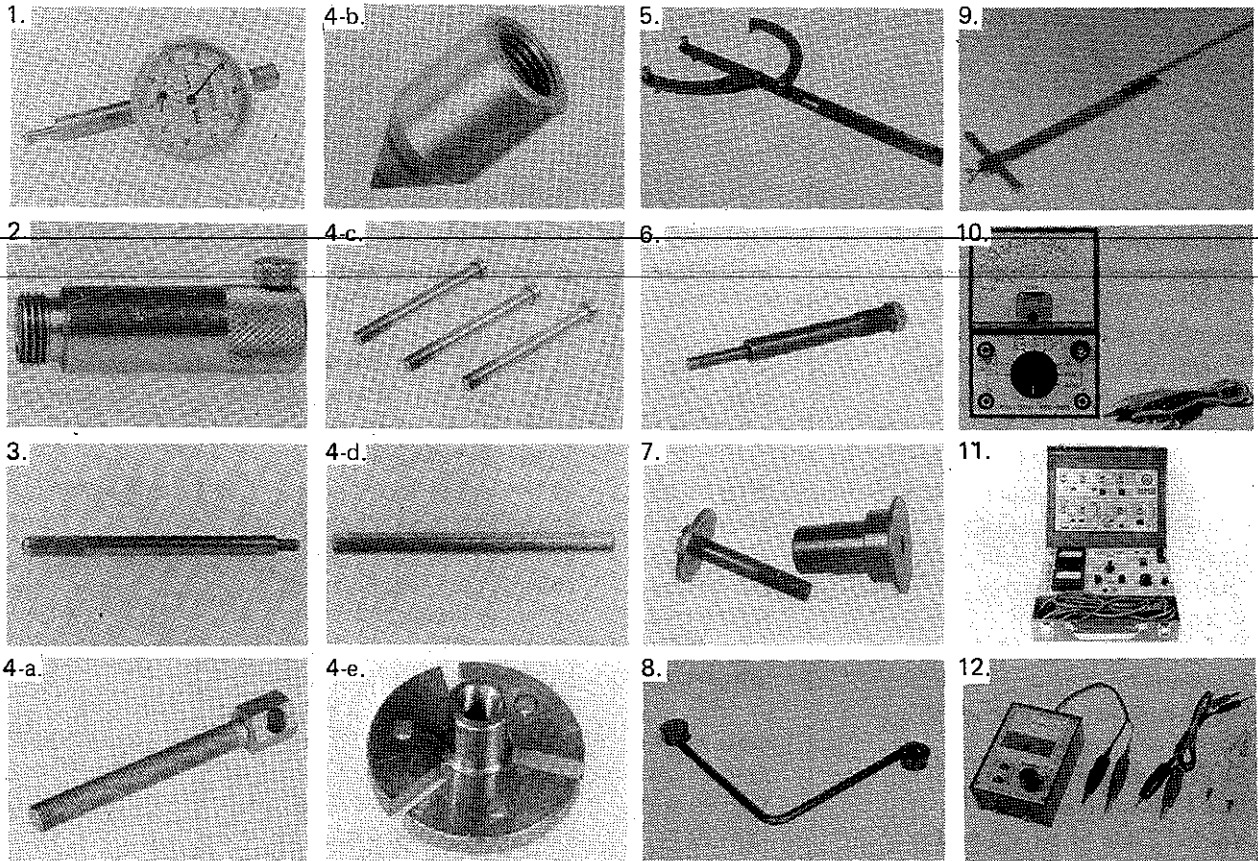
Ignition system: Type—flywheel magneto (C.D.I. Type) Model/manufacture Voltage Pulser coil resistance Charging coil resistance Charging coil resistance	F3T352/MITSUBISHI 12V 9.0Ω at 20°C (68°F) (White/Red—Black) 350Ω at 20°C (68°F) (Brown—Black) 15.0Ω at 20°C (68°F) (Blue—Black)
Ignition timing: B.T.D.C.	1.6 ± 0.1 mm
Ignition coil: Model/Manufacturer Spark gap Primary winding resistance Secondary winding resistance Diode (Yes or No)	CM62-20/HITACHI 9 mm/300 r/min 11 mm/3,000 r/min 0.15Ω at 20°C (68°F) 3.6kΩ at 20°C (68°F) No
Spark plug: Type & quantity Spark plug gap	* NGK BR-9ES x 2 pcs. 0.7~0.8 mm
Spark plug cap: Type Noise suppressor resistance	Rubber type with noise suppressor 5kΩ at 20°C (68°F)
C.D.I. unit: Model/Manufacturer	8H4-20/MITSUBISHI
Lighting system: Lighting output Lighting coil resistance Head light type Bulb wattage/q'ty Tail/brake light wattage	12V-100W 0.19Ω at 20°C (68°F) (Yellow—Black) Semi shield 12V-45/40W × 1 pc. 12V-8W/23W
A.C. regulator: Model/Manufacturer Voltage	TRIZ-24B/HITACHI or S8516B/TOSHIBA 13.8 ± 0.5V

Tightening torque

Part to be tightened	Thread size	Tightening torque	Remarks
[Engine] Spark plug Cylinder head Flywheel magneto Crankcase upper and lower Tightening sequence	M14 P1.25 M8 P1.25 M16 P1.0 M8 P1.25	28 Nm (2.8 m-kg, 20-ft-lb) 25 Nm (2.5 m-kg, 18 ft-lb) 73 Nm (7.3 m-kg, 53 ft-lb) First: 10 Nm (1.0 m-kg, 7.5 ft-lb) Final: 20 Nm (2.0 m-kg, 15 ft-lb)	
<p>The diagram shows a cross-section of a crankcase with 10 numbered bolt locations. Bolt 9 is at the top, bolt 10 at the bottom, and bolts 1-8 are arranged in two rows across the main body. Bolt 6 is on the left, bolt 7 on the right, and bolts 3, 2, 1, 4, 5, 8 are in the middle row.</p>			
Starter pulley	M8 P1.25	16 Nm (1.6 m-kg, 11.5 ft-lb)	
Crankcase and engine bracket	M10 P1.25	30 Nm (3.0 m-kg, 21.5 ft-lb)	
[Drive and track suspension] Primary sliding sheave and cap Installation of primary sheave Installation of drive chain sprocket Installation of driven chain sprocket Chain housing and frame Chain housing cap Chain tensioner lock nut Installation of front axle R.H. Front axle housing and frame Wheel sprocket and front axle Shaft 1 and frame Shaft 2 and rear bracket Rear bracket and frame Bracket 2 and frame sliding 1 Installation of suspension wheel Installation of rear guide wheel Installation of runner sliding 1 Installation of runner sliding 2 Pivot arm 1 and bracket 2 Bracket 5 & 6 and frame sliding 1 Frame sliding 1 and 2 & 3 Installation of stopper 1	M6 P1.0 UNF 1/2" M12 P1.25 M10 P1.25 M8 P1.25 M8 P1.25 M10 P1.25 M20 P1.0 M8 P1.25 M10 P1.25 M10 P1.25 M8 P1.25 M6 P1.0 M6 P1.0 M12 P1.25 M6 P1.0 M6 P1.0 M6 P1.0 M6 P1.0 M6 P1.0 M8 P1.25 M6 P1.0	11 Nm (1.1 m-kg, 8 ft-lb) Initial: 120 Nm (12 m-kg, 88 ft-lb) Loosen once and retighten: 60 Nm (6.0 m-kg, 43.5 ft-lb) 40 Nm (4.0 m-kg, 29 ft-lb) 35 Nm (3.5 m-kg, 25 ft-lb) 22 Nm (2.2 m-kg, 16 ft-lb) 16 Nm (1.6 m-kg, 11.5 ft-lb) 33 Nm (3.3 m-kg, 24 ft-lb) 90 Nm (9.0 m-kg, 65 ft-lb) 25 Nm (2.5 m-kg, 18 ft-lb) 5 Nm (0.5 m-kg, 3.5 ft-lb) 55 Nm (5.5 m-kg, 40 ft-lb) 55 Nm (5.5 m-kg, 40 ft-lb) 25 Nm (2.5 m-kg, 18 ft-lb) 12 Nm (1.2 m-kg, 9 ft-lb) 11 Nm (1.1 m-kg, 8 ft-lb) 73 Nm (7.3 m-kg, 53 ft-lb) 2.5 Nm (0.25 m-kg, 2 ft-lb) 6 Nm (0.6 m-kg, 4 ft-lb) 50 Nm (5.0 m-kg, 36 ft-lb) 13 Nm (1.3 m-kg, 9.5 ft-lb) 25 Nm (2.5 m-kg, 18 ft-lb) 3.5 Nm (0.35 m-kg, 2.5 ft-lb)	Use motor oil Use cotter pin Use LOCK-TITE Use LOCK-TITE Use LOCK-TITE Use LOCK-TITE Use LOCK-TITE Use LOCK-TITE Use LOCK-TITE Use LOCK-TITE
[Chassis] Engine mounting bolt Ski runner	M10 P1.25 M8 P1.25	30 Nm (3.0 m-kg, 22 ft-lb) 14 Nm (1.4 m-kg, 10 ft-lb)	Use plain washer

Steering column and gate	M8 P1.25	20 Nm (2.0 m-kg, 14.5 ft-lb)	Use lock washer
Steering relay rod adjusting nut	M10 P1.25	25 Nm (2.5 m-kg, 18 ft-lb)	Use lock washer and wave washer
Out side arm and ski column	M10 P1.25	30 Nm (3.0 m-kg, 22 ft-lb)	
Steering lower bracket	M8 P1.25	20 Nm (2.0 m-kg, 14.5 ft-lb)	Use lock washer
Installation of steering column 1, 2	M8 P1.25	14.5 Nm (1.45 m-kg, 10.5 ft-lb)	Use lock washer
Steering relay ass'y	M10 P1.25	30 Nm (3.0 m-kg, 22 ft-lb)	Use cotter pin
Universal joint	M10 P1.25	25 Nm (2.5 m-kg, 18 ft-lb)	
Steering gate	M8 P1.25	14 Nm (1.4 m-kg, 10 ft-lb)	

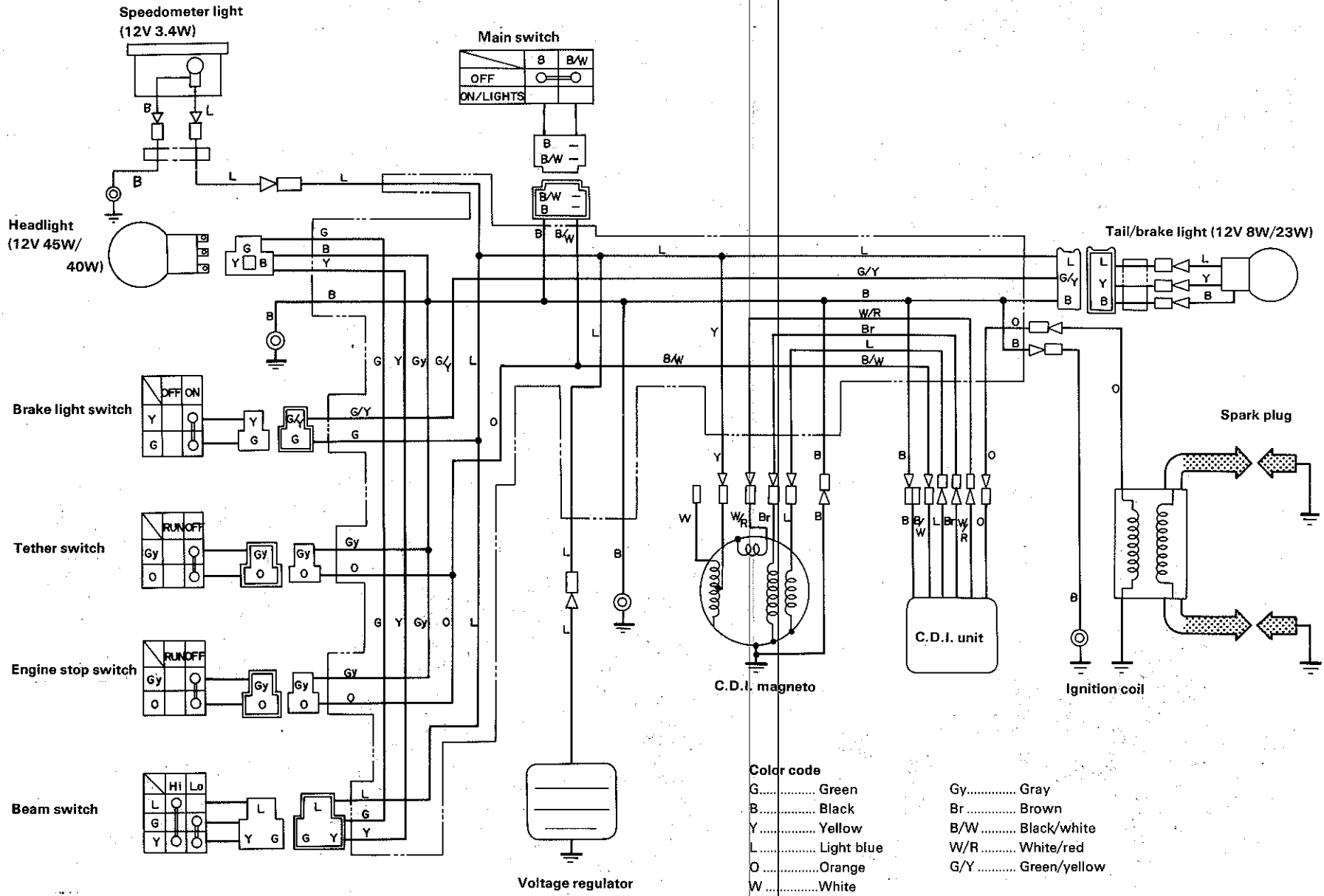
C. SPECIAL TOOLS



No.	Description	Tool No.
1	Dial gauge	90890-03097
2	Dial gauge stand No. 2	90890-01195
3	Dial gauge needle (56 mm)	90890-03098
4-a	Flywheel puller bolt	90890-01803
4-b	Flywheel puller attachment	90890-01804
4-c	Flywheel puller screw	90890-01806
4-d	Drive handle	90890-01817
4-e	Flywheel puller body	90890-01848
5	Rotor holding tool	90890-01235

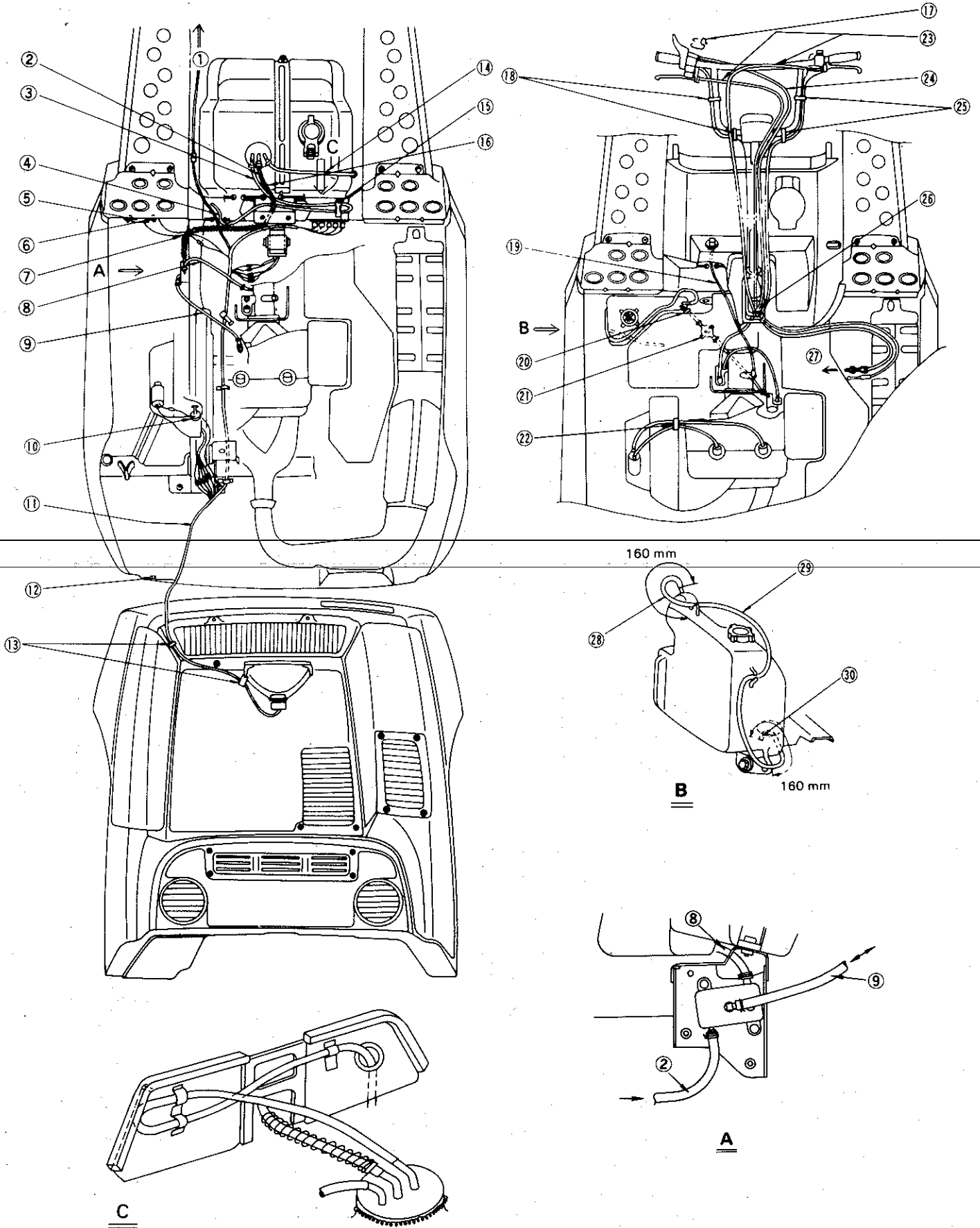
6	Primary fixed sheave puller	90890-01859
7	Sheave sub-assembly tool	90890-01858
8	Bushing tool	90890-01877
9	Sheave gauge	90890-01875
10	Pocket tester	90890-03104
11	Electro tester	90890-03021
12	A.C. Regulator checker	90890-03090

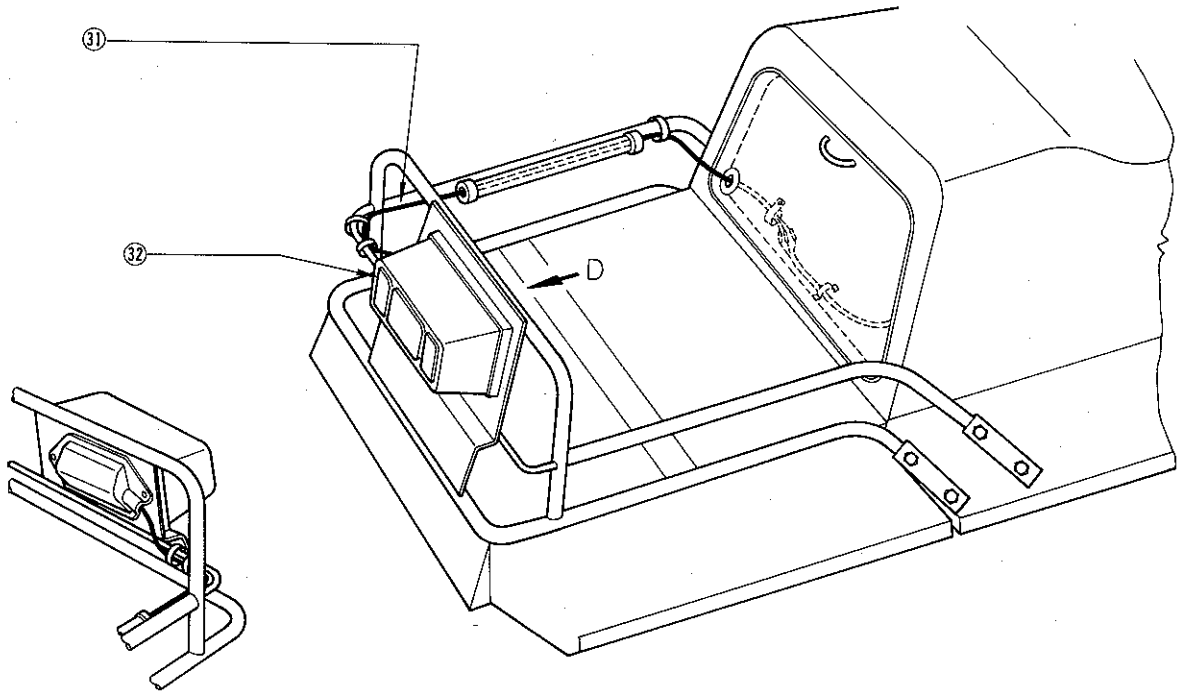
D. WIRING DIAGRAM



- Color code**
- G..... Green
 - B..... Black
 - Y..... Yellow
 - L..... Light blue
 - O..... Orange
 - W..... White
 - Gy..... Gray
 - Br..... Brown
 - B/W..... Black/white
 - W/R..... White/red
 - G/Y..... Green/yellow

E. WIRE AND PIPE ROUTING DIAGRAM





D

- | | |
|---|---|
| 1. To taillight | 19. Starter wire |
| 2. Fuel pipe | 20. Oil pipe |
| 3. Fuel tank breather pipe | 21. Oil filter |
| 4. Through pipe inside the steering gate | 22. Clamp |
| 5. Voltage regulator | 23. Brake wire |
| 6. Ground to body | 24. Throttle wire |
| 7. Clamp voltage regulator ground wire | 25. Band (Clamp the beam switch and
brake light switch lead wire) |
| 8. Fuel delivery pipe | 26. Grommet |
| 9. Pulse pipe | 27. To brake caliper |
| 10. Band | 28. When installing breather pipe, route it inside the
instrument panel. |
| 11. Wire harness assembly | 29. Oil tank breather pipe |
| 12. Ground to body | 30. Through the breather pipe end into the fuel pump
bracket hole. |
| 13. Clamp | 31. Taillight lead wire |
| 14. Fuel level pipe | 32. Taillight |
| 15. Clamp | |
| 16. Pipe protector (Coil spring) | |
| 17. Clip | |
| 18. Band (Clamp the engine stop switch lead wire) | |

