



YAMAHA

SNOWMOBILE

EX440D

SUPPLEMENTARY SERVICE MANUAL



[Frame serial number: 8J7-036101 ~ 8J7-049999
Engine serial number: SS433-036101 ~ SS433-049999]

CONTENTS

1. NEW SERVICE PROCEDURE	2
2. MAINTENANCE INTERVALS	3
3. SPECIFICATIONS	5
4. SPECIAL TOOLS	11
5. WIRING DIAGRAM	12
6. WIRE AND PIPE ROUTING DIAGRAM	13

1. NEW SERVICE PROCEDURE

(New service procedure applied to the 1980 EX440D)

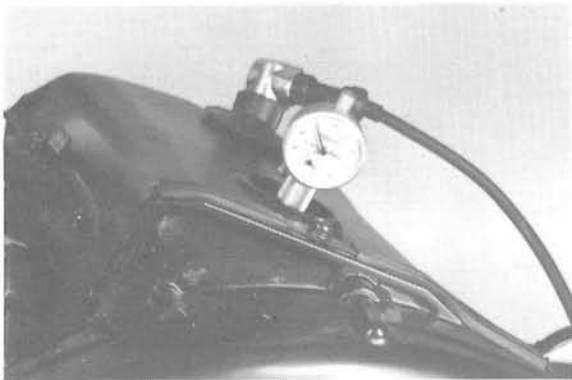
A. Ignition timing

1. Remove the recoil starter assembly.
2. Remove the right side spark plug and screw dial gauge stand into spark plug hole.

Tool name	Tool No.
Dial gauge stand	90890-01195

2. Insert dial gage with needle into stand.

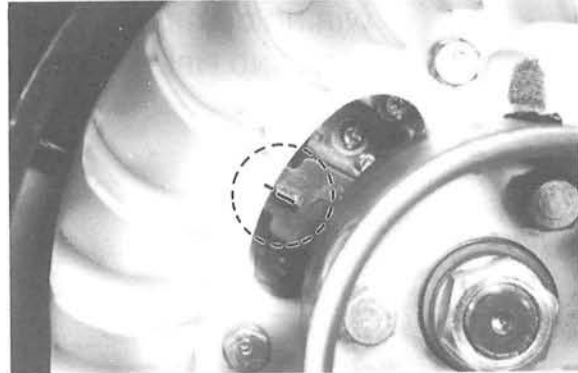
Tool name	Tool No.
Dial gauge	90890-01252
Dial gauge needle	90890-03098



4. Rotate magneto flywheel until piston is at top-dead-center (T.D.C.)
Set the zero on dial gauge face to line up exactly with a dial gauge needle. Tighten set screw on dial gauge stand to secure dial gauge assembly. Rotate flywheel back and forth to be sure that indicator needle does not go past zero.
5. Starting at T.D.C., rotate flywheel counterclockwise until dial gauge reads approximately 3-1/2 needle revolutions before-top-dead-center (B.T.D.C.).
6. Slowly turn flywheel clockwise until dial gauge reads specified ignition timing.

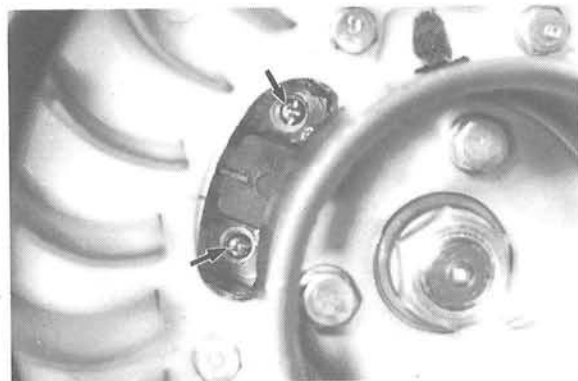
<p>Ignition timing (B.T.D.C.) $1.6 \pm 0.1 \text{ mm}$ ($0.060 \pm 0.004 \text{ in}$)</p>
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7. Check the marks on flywheel and pulser for alignment.



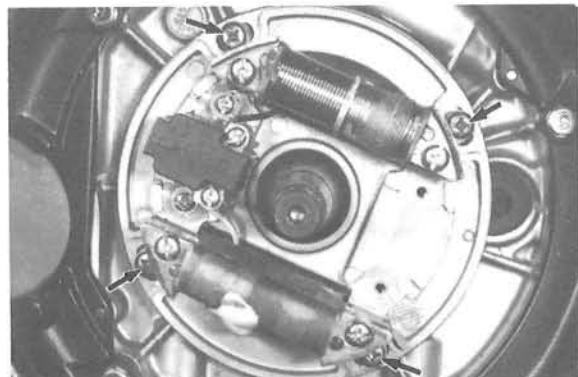
If not aligned, adjust ignition timing as follows:

- a. Loosen the pulser set screws and turn the pulser until mark alignment is achieved.



NOTE:

If the marks can not be aligned by this adjustment, remove the flywheel rotor and turn the base (stator) assembly.



- b. Tighten the pulser set screws.
8. Remove the dial gauge and stand. Replace the spark plug and recoil starter.

Tightening torque
Spark plug: 2.8 m-kG (20 ft-lb)
Starter assembly: 0.7 m-kG (5 ft-lb)

NOTE: _____
 The timing light should be used to check if the marks on the rotor and base are aligned when both are replaced with new ones. The marks should align at any specified timing.

2. MAINTENANCE INTERVAL

[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 1,600 km (1,000 mi)		
ENGINE:					
Tightness of bolts and nuts	<input type="radio"/>				<input type="radio"/>
Bends, cracks and wear	<input type="radio"/>				<input type="radio"/>
Abnormal noise	<input type="radio"/>				<input type="radio"/>
Loose connection and breaks of fuel and pulse pipes	<input type="radio"/>				<input type="radio"/>
Loose connection and breaks of oil pipes	<input type="radio"/>				<input type="radio"/>
Loose connection and breaks of oil delivery pipe	<input type="radio"/>				<input type="radio"/>
Manual rope starter system		<input type="radio"/>			<input type="radio"/>
Carburetor					
● Operation of starter jet		<input type="radio"/>			<input type="radio"/>
● Mixing adjuster (pilot screw)				<input type="radio"/>	<input type="radio"/>
● Idling speed adjustment				<input type="radio"/>	<input type="radio"/>
Operation and adjustment of oil pump		<input type="radio"/>			<input type="radio"/>
Ignition timing					<input type="radio"/>
Cylinder compressions			<input type="radio"/>		<input type="radio"/>
Muffler joints	<input type="radio"/>				<input type="radio"/>
Cylinder head/exhaust pipe decarbonize					<input type="radio"/>
Spark plug condition, gap and cleaning	<input type="radio"/>				<input type="radio"/>
Tightening of the cylinder head**					<input type="radio"/>
DRIVE:					
Tightness of bolts and nuts	<input type="radio"/>				<input type="radio"/>
Wear on slide runners	<input type="radio"/>				<input type="radio"/>
Primary drive system		<input type="radio"/>			<input type="radio"/>
V-belt	<input type="radio"/>				<input type="radio"/>
Secondary drive system		<input type="radio"/>			<input type="radio"/>
Sheave distance		<input type="radio"/>			<input type="radio"/>
Sheave offset		<input type="radio"/>			<input type="radio"/>
Brake pad wear		<input type="radio"/>			<input type="radio"/>
Brake operation and adjustment		<input type="radio"/>			<input type="radio"/>
Guide wheel rubber		<input type="radio"/>			<input type="radio"/>
Wear of drive track wheel sprocket		<input type="radio"/>			<input type="radio"/>
Drive track adjustment		<input type="radio"/>			<input type="radio"/>
Breaks in drive track		<input type="radio"/>			<input type="radio"/>
Bends in front and rear axles		<input type="radio"/>			<input type="radio"/>
Checking of lock washers		<input type="radio"/>			<input type="radio"/>
Drive chain adjustment		<input type="radio"/>			<input type="radio"/>
Drive chain oil level		<input type="radio"/>			<input type="radio"/>

Check point	Every			When necessary	Seasonally
	20 hrs. or 400 km (250 mi)	40 hrs. or 800 km (500 mi)	80 hrs. or 1,600 km (1,000 mi)		
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					○
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 1,600 km (1,000 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		○			○	
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		○			○	
Brake wire and stopper and brake lever		○			○	Esso Beacon 325 grease

3. SPECIFICATIONS

NOTE: * New specification
(Compared with 1979 EX440C)

General

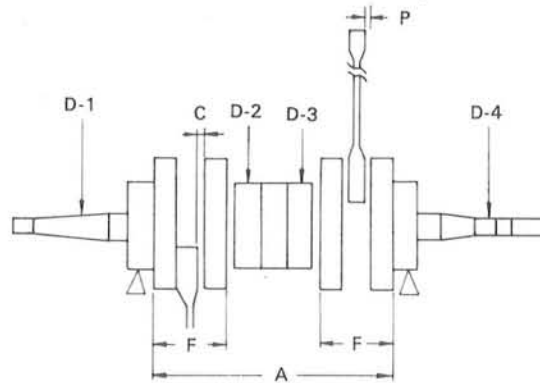
Model:	
Model (I.B.M. No.)	* EX440D (8J7)
Frame I.D. & starting number	* 8J7-036101
Engine I.D. & starting number	* SS433-036101
Dimension:	
Overall length	2,520 mm (99.2 in)
Overall width (std)	980 mm (38.6 in)
Overall height (w/windshield)	995 mm (39.2 in)

Engine

Description:	
Engine type	Fan cooled two-stroke 7-port torque induction, twin cylinders
Engine model	SS433
Displacement	433 cc (26.42 cu.in)
Bore × Stroke	68 × 59.6 mm (2.68 × 2.35 in)
Effective compression ratio	7.0 : 1
Starting system	Recoil hand starter
Ignition system	C.D.I.
Lubrication system	"Autolube" oil injection
Cylinder head:	
Combustion chamber volume (with spark plug)	24.6 cc (1.50 cu.in)
Compression chamber type	Dome + Squish
Head gasket thickness	0.5 mm (0.02 in)
Cylinder:	
Material	Cast iron sleeves aluminum
Bore size	68 mm (2.677 in)
Taper limit	0.05 mm (0.0020 in)
Out of round limit	0.01 mm (0.0004 in)
Piston:	
Piston skirt clearance (Measuring point)	0.045 ~ 0.050 mm (0.0018 ~ 0.0020 in) (20 mm from piston skirt end)
Piston oversize	1st 68.25 mm (2.687 in) 2nd 68.50 mm (2.697 in) 3rd 68.75 mm (2.707 in) 4th 69.00 mm (2.717 in)
Piston pin outside diameter × length	φ18 × 55 mm (φ0.709 × 2.17 in)
Piston ring:	
Piston ring design (Top)	Keystone
(2nd)	Keystone
Ring end gap (installed) (Top)	0.35 ~ 0.55 mm (0.014 ~ 0.022 in)
(installed) (2nd)	0.35 ~ 0.55 mm (0.014 ~ 0.022 in)
Small end bearing:	
Type	Needle bearing
Big end bearing:	
Type	Needle bearing
Crankshaft:	
Crankshaft assembly width (A)	174 ± 0.1 mm (6.85 ± 0.004 in)
(F)	56 $\begin{smallmatrix} +0 \\ -0.05 \end{smallmatrix}$ mm (2.205 $\begin{smallmatrix} +0 \\ -0.002 \end{smallmatrix}$ in)
Crankshaft deflection (D)	0.03 mm (D-1) 0.04 mm (D-2) 0.04 mm (D-3) 0.05 mm (D-4)

Connecting rod large end side clearance (C)
 Connecting rod small end deflection (P)

0.25 ~ 0.75 mm (0.010 ~ 0.030 in)
 2.0 mm (0.079 in)



Crank pin outside diameter × length
 Crank pin type
 Crank bearing type (Left) × q'ty
 (Center) × q'ty
 (Right) × q'ty
 Crank oil seal type (Left) × q'ty
 (Center) × q'ty
 (Right) × q'ty

24 × 55 mm (0.945 × 2.165 in)
 Solid shaft assembly type with serration
 #6306 special × 2 pcs.
 #6206 special × 2 pcs.
 #6206 special × 1 pc.
 FWJ-32 78 9.5 × 1 pc.
 Labyrinth seal × 1 pc.
 FWJ-32 48 10 × 1 pc.

Carburetor:

Type & manufacturer/quantity
 I.D. Mark
 Main jet (M.J.)
 Main air jet (M.A.J.)
 Power jet (Pw.J.)
 Power air jet (Pw.A.J.)
 Slow jet (S.J.)
 Slow air jet (S.A.J.)
 Pilot screw (P.S.)
 Starter jet (St.J.)
 Float height
 Idling engine speed

BD44 × 38 KEIHIN × 1 pc.
 8H600
 #145
 #180
 #150
 #200
 #90
 #100
 1-5/8
 #160
 15 ⁺²/₋₃ mm (0.59 ^{+0.08}/_{-0.12} in)
 1,500 r/min

Main jet setting chart:

Altitude	Temperature					
	-30°C (-22°F)	-20°C (-4°F)	-10°C (14°F)	0°C (32°F)	10°C (50°F)	20°C (68°F)
Sea level						
~ 600m (2000 ft)		#145			#140	
~ 1200m (4000 ft)		#145			#140	
~ 1800m (6000 ft)		#140			#135	
~ 2400m (8000 ft)		#135			#130	
~ 3000m (10000 ft) or more		#130			#125*	
		#125*			#120*	

* Change the starter jet to #95 or #100.

Intake reed valve: Type Bending limit Valve lift Tightening torque	V type 0.3 mm (0.012 in) 10.4 mm (0.409 in) 8.0 cm-kg (6.9 in-lb)
Lubrication: Autolube pump — Color code — Minimum stroke — Maximum stroke — Reduction ratio — Output Min./200 strokes — Output Max./200 strokes Autolube pump wire free play Oil tank capacity Oil grade	Dark blue 0.20 ~ 0.25 mm (0.0079 ~ 0.0098 in) 1.65 ~ 1.87 mm (0.0650 ~ 0.0736 in) 1/44 0.95 ~ 1.19 cc (0.0321 ~ 0.0402 oz) 7.84 ~ 8.89 cc (0.2651 ~ 0.3006 oz) 25 ± 1 mm (0.98 ± 0.04 in) at idle 2.8 Liter (3 US.qt) YAMALUBE 2-cycle

Drive and track suspension

Transmission: Type Drive ratio Engagement rpm Primary spring: Part No. Color code Secondary spring: Part No. Color code Secondary spring pre-load (twist) Sheave distance Sheave off-set V-belt width and outer line length V-belt wear limit	V-belt automatic centrifugal engagement 3.5 : 1 ~ 1 : 1 2,900 ~ 3,300 r/min 90501-45534 Blue/Green 90508-45286 Yellow 150° (Hole No. 1) 270 $\begin{smallmatrix} +0 \\ -3 \end{smallmatrix}$ mm (10.6 $\begin{smallmatrix} +0 \\ -0.12 \end{smallmatrix}$ in) 5.5 ± 0.5 mm (0.22 ± 0.02 in) 31.6 x 1,099 mm (1.24 x 43.3 in) 26 mm (1.02 in)
Track suspension: Type Damper type Spring color code Slide runner wear limit Track width Track deflection Length on ground Wheel sprocket material and number of teeth Stopper band length	Slide rail suspension Oil and gas damper No. painted 10 mm (0.4 in) 380 mm (15 in) 25 ~ 30 mm/10 kg (0.984 ~ 1.18 in/22 lb) 850 mm (33.5 in) Polyethylene 8T 214 mm (8.4 in) (3rd hole from the bottom)
Secondary drive: Type Reduction ratio Chain pitch × Number of links Free play Chain housing oil quantity Chain housing oil grade	Chain (#35-3) 29/17 (1.706) 9.525 mm (0.375 in) × 68L 10 $\begin{smallmatrix} +5 \\ -2 \end{smallmatrix}$ mm (0.4 $\begin{smallmatrix} +0.2 \\ -0.08 \end{smallmatrix}$ in) 320 cc (10.82 oz) Gear oil API "GL3" (SAE #75 or 80)
Brake: Type Brake pad thickness Brake pad wear limit Gap between pad and disc	Floating pad type disc brake 13.5 mm (0.53 in) 9.5 mm (0.37 in) 0.15 mm (0.006 in)

Chassis

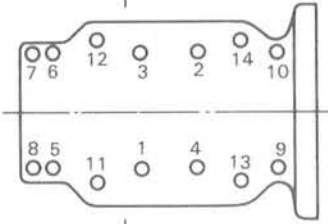
Frame: Frame design & material	Aluminum + Steel
Steering system: Caster (ski column) Camber Ski length × width × thickness Ski stance Ski Toe-out Steering linkage type Lock to lock angle (ski) Lock to lock angle (steering column)	25° 0° 980 × 140 × 2.6 mm (38.6 × 5.5 × 0.10 in) 800 mm (31.5 in) 0 ~ 6 mm (0 ~ 0.23 in) Tie-rod Right ski, L: 20.2° R: 27.6° Left ski, L: 27.6° R: 20.2° Right: 46.5° Left: 46.5°
Front suspension: Type damper type	Leaf spring Oil damper
Fuel tank: Capacity Fuel grade	30 Liter (9.0 US.gal) Regular gasoline

Electrical

Ignition system: Type — flywheel magneto (C.D.I. Type) Model/manufacturer Voltage Pulser coil resistance Charging coil resistance	* F280-78/HITACHI 12V * 78Ω at 20°C (68°F) (White/Red — Black) * 113Ω at 20°C (68°F) (Brown — Black) * 29Ω at 20°C (68°F) (Blue — Black)
Ignition timing: B.T.D.C.	1.6 ± 0.1 mm (0.060 ± 0.004 in)
Ignition: Model/Manufacturer Spark gap Primary winding resistance Secondary winding resistance Diode (Yes or No)	CM62-20/HITACHI 9 mm (0.35 in)/300 r/min 11 mm (0.43 in)/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 B-9ES × 2 pcs. * 0.7 ~ 0.8 mm (0.028 ~ 0.031 in)
Spark plug cap: Type Noise suppressor resistance	Rubber type with noise suppressor 5kΩ at 20°C (68°F)
C.D.I. unit: Model/Manufacturer	* TIA01-30/HITACHI
Lighting system: Lighting output Lighting coil resistance Headlight type Bulb wattage/q'ty Tail/brake light wattage Meter light wattage	12V/100W * 0.22Ω at 20°C (68°F) (Yellow — Black) Semi shield 12V 60/60W × 1 pc. 12V 8W/23W 12V 3.4W

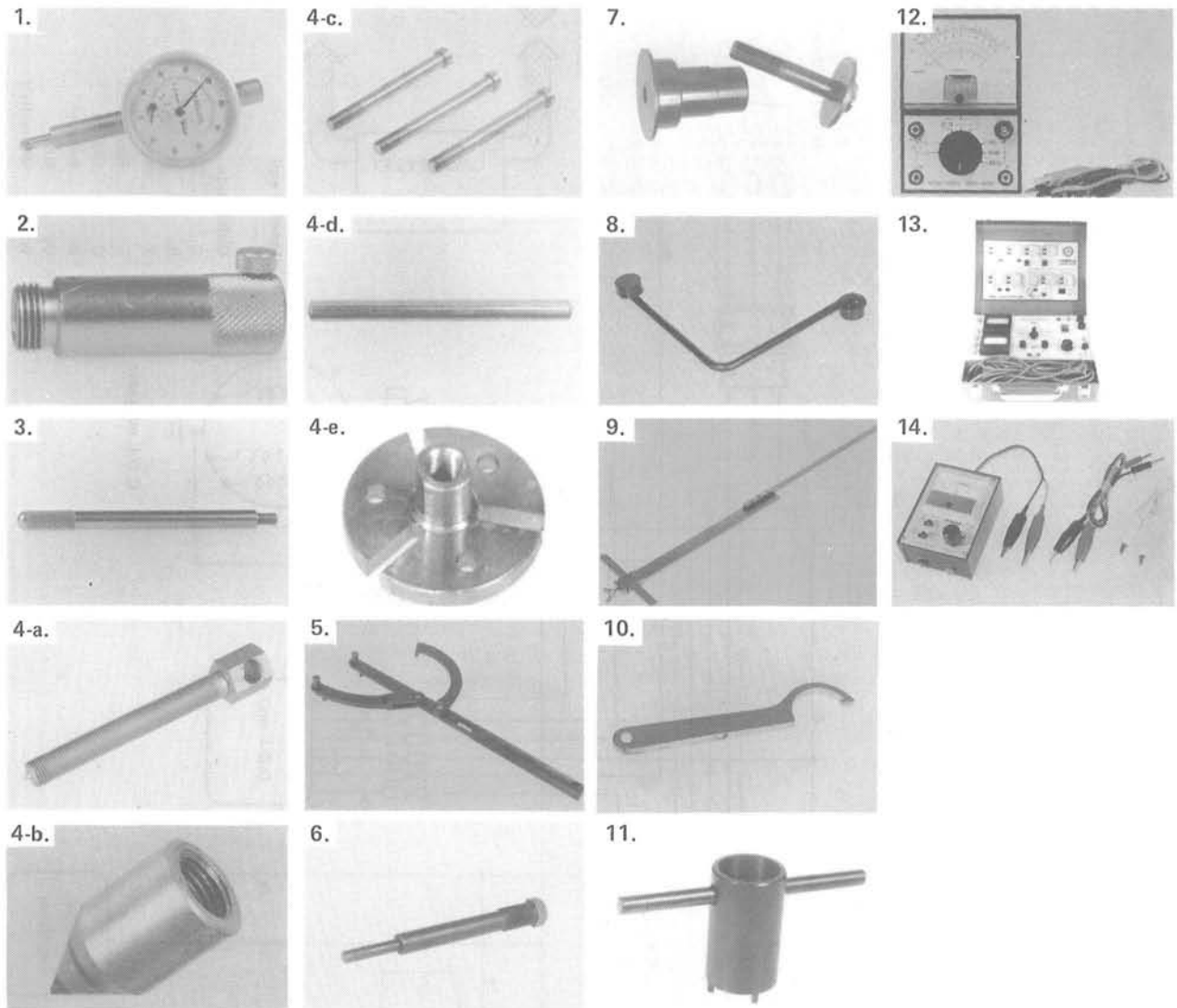
A.C. regulator: Model/Manufacturer Voltage	TRIZ-24B/HITACHI or S8516B/TOSHIBA 13.8 ± 0.5V
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Tightening Torque

Part to be tightened	Thread size	Tightening torque	Remarks
<p>Engine:</p> <p>Spark plug</p> <p>Cylinder head</p> <p>Cylinder head</p> <p>Flywheel magneto</p> <p>Crankcase upper and lower</p> <p>Tightening sequence</p> 	<p>M14 P1.25</p> <p>M8 P1.25</p> <p>M8 P1.25</p> <p>M16 P1.0</p> <p>M8 P1.25</p>	<p>2.8 m-kg (20 ft-lb)</p> <p>2.5 m-kg (18 ft-lb)</p> <p>2.5 m-kg (18 ft-lb)</p> <p>7.3 m-kg (53 ft-lb)</p> <p>First: 1.0 m-kg (7.5 ft-lb) Final: 2.0 m-kg (15 ft-lb)</p>	<p>Special nut—Stud bolt</p> <p>Nut—Stud bolt</p>
<p>Starter pulley</p> <p>Crankcase and engine bracket</p> <p>Cylinder and exhaust pipe</p>	<p>M8 P1.25</p> <p>M10 P1.25</p> <p>M8 P1.25</p>	<p>1.1 m-kg (8 ft-lb)</p> <p>4.0 m-kg (29 ft-lb)</p> <p>2.0 m-kg (15 ft-lb)</p>	<p>Special nut—Stud bolt</p>
<p>Drive and track suspension:</p> <p>Primary sliding sheave and cap</p> <p>Installation of primary sheave</p> <p>Installation of secondary sheave</p> <p>Bearing housing</p> <p>Secondary shaft and Bearing collar</p> <p>Brake caliper and Housing chain</p> <p>Installation of drive chain sprocket</p> <p>Installation of driven chain sprocket</p> <p>Chain housing and Frame</p> <p>Installation of front axle L.H.</p> <p>Front axle housing and Frame</p> <p>Shaft 1 and Frame</p> <p>Shaft 2 and Rear bracket</p> <p>Rear bracket and Frame</p> <p>Installation of suspension wheel</p> <p>Installation of rear guide wheel</p> <p>Installation of runner sliding 1</p> <p>Installation of runner sliding 2</p> <p>Pivot arm and Frame sliding 1</p> <p>Bracket 5 & 6 and Frame sliding 1</p> <p>Frame sliding 1 and 2 & 3</p> <p>Installation of stopper 1</p>	<p>M6 P1.0</p> <p>UNF 1/2"</p> <p>M10 P1.25</p> <p>M10 P1.25</p> <p>Socket screw</p> <p>M10 P1.25</p> <p>M14 P1.5</p> <p>M10 P1.25</p> <p>M8 P1.25</p> <p>M22 P1.0</p> <p>M8 P1.25</p> <p>M10 P1.25</p> <p>M10 P1.25</p> <p>M8 P1.25</p> <p>M6 P1.0</p> <p>M8 P1.25</p> <p>M6 P1.0</p> <p>M6 P1.0</p> <p>M6 P1.0</p> <p>M6 P1.0</p> <p>M6 P1.0</p> <p>M8 P1.25</p> <p>M6 P1.0</p>	<p>1.1 m-kg (8 ft-lb)</p> <p>Initial: 12 m-kg (87 ft-lb)</p> <p>Loosen once and retighten: 6.0 m-kg (43.5 ft-lb)</p> <p>5.0 m-kg (36 ft-lb)</p> <p>6.5 m-kg (47 ft-lb)</p> <p>0.6 m-kg (4 ft-lb)</p> <p>5.0 m-kg (36 ft-lb)</p> <p>6.0 m-kg (43.5 ft-lb)</p> <p>5.0 m-kg (36 ft-lb)</p> <p>2.5 m-kg (18 ft-lb)</p> <p>8.5 m-kg (61.5 ft-lb)</p> <p>2.5 m-kg (18 ft-lb)</p> <p>6.5 m-kg (47 ft-lb)</p> <p>6.5 m-kg (47 ft-lb)</p> <p>3.0 m-kg (21.5 ft-lb)</p> <p>1.0 m-kg (7 ft-lb)</p> <p>2.5 m-kg (18 ft-lb)</p> <p>0.3 m-kg (2 ft-lb)</p> <p>1.0 m-kg (7 ft-lb)</p> <p>1.3 m-kg (10 ft-lb)</p> <p>1.3 m-kg (10 ft-lb)</p> <p>2.5 m-kg (18 ft-lb)</p> <p>0.4 m-kg (3 ft-lb)</p>	<p>Use motor oil</p> <p>Nut Bolt</p> <p>Use LOCK-TITE</p> <p>Use LOCK-TITE</p> <p>Use LOCK-TITE</p> <p>Use LOCK-TITE</p> <p>Use LOCK-TITE</p> <p>Use LOCK-TITE</p> <p>Use LOCK-TITE</p>

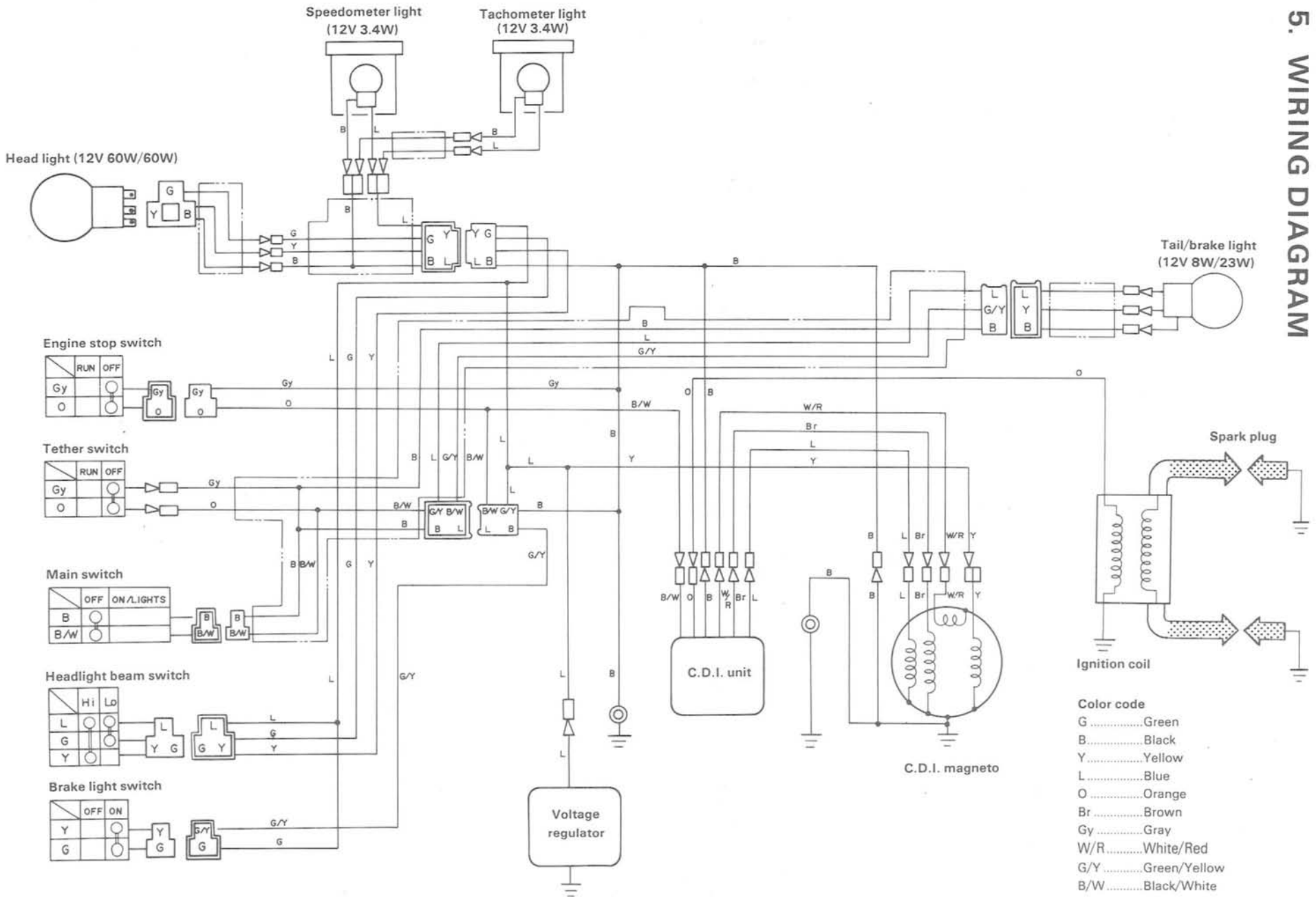
Part to be tightened	Thread size	Tightening torque	Remarks
Chassis:			
Engine mounting bolt	M10 P1.25	3.8 m-kg (27.5 ft-lb)	Nylon nut Use plain washer and LOCK-TITE
Ski runner	M8 P1.25	1.45 m-kg(10 ft-lb)	
Steering column and Gate	M6 P1.0	0.9 m-kg (6.5 ft-lb)	
Steering relay rod adjusting nut	M10 P1.25	2.5 m-kg (18 ft-lb)	Use lock washer and wave washer
Outside arm and Ski column	M10 P1.25	4.0 m-kg (29 ft-lb)	
Steering lower bracket	M8 P1.25	1.5 m-kg (11 ft-lb)	Use lock washer and LOCK-TITE
Installation of steering column 1, 2	M6 P1.0	0.9 m-kg (6.5 ft-lb)	Use lock washer Use cotter pin
Steering relay ass'y	M10 P1.25	3.0 m-kg (22 ft-lb)	
Level gauge securing bolt	M6 P1.0	0.25 m-kg(1.8 ft-lb)	
Screw to install the front of seat	M6 P1.0	0.5 m-kg (3.5 ft-lb)	
Nut to install the rear of seat	M8 P1.25	0.9 m-kg (6.5 ft-lb)	
Brake level holder	M5 P0.8	0.4 m-kg (3.0 ft-lb)	
Throttle lever	M6 P1.0	0.35 m-kg(2.5 ft-lb)	

4. 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	Eccentric bearing installer	90890-01851
11	Main switch ring nut tool	90890-01857
12	Pocket tester	90890-03104
13	Electro tester	90890-03021
14	A.C. Regulator checker	90890-03090

5. WIRING DIAGRAM



6. WIRE AND PIPE ROUTING DIAGRAM

1. Main switch
2. Tether switch
3. Wire harness 2
4. Fuel tank breather pipe
5. Fuel pipe
6. Clip
7. Hose
8. C.D.I. unit
9. Wire harness 1
10. To tail light
11. Starter wire
12. Fuel level pipe
13. Oil level pipe
14. Oil tank breather pipe
15. Voltage regulator
16. Speedometer cable
17. Tachometer cable
18. Oil pipe
19. To carburetor
20. To engine crankcase
21. To oil pump
22. To tachometer gear unit
23. To carburetor
24. Clamp
25. Clamp
26. Head light lead wire
27. Speedometer cable (Gray)
28. Tachometer cable (Black)
29. Spring
30. Shroud stopper
31. Starter wire
32. Brake wire
33. Throttle wire
34. Pump wire
35. Clamp
36. To tachometer gear unit
37. To speedometer
38. To tachometer

