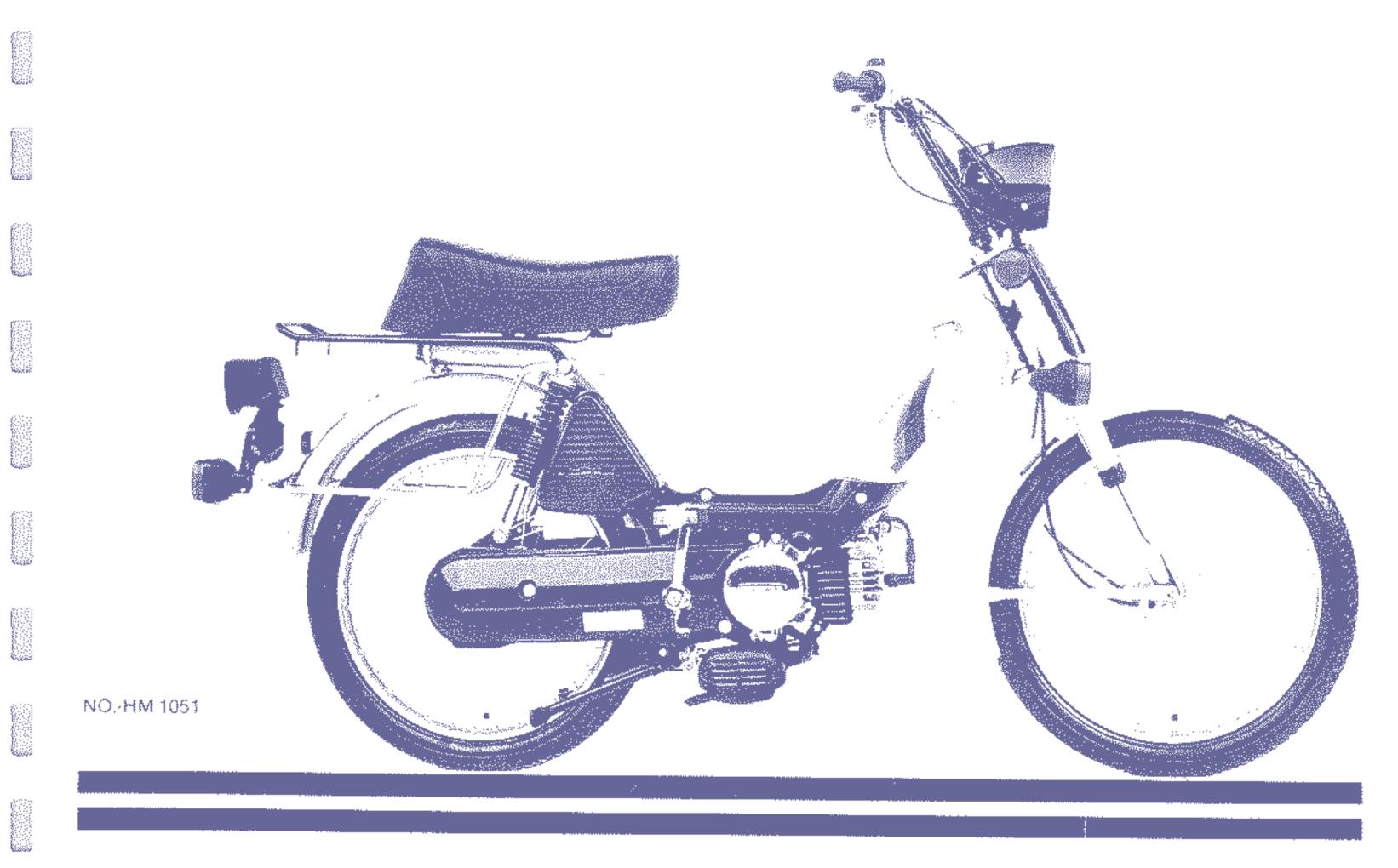


# SHOP MANUAL PA50



1983

PA50





# IMPORTANT SAFETY NOTICE

V.ARIVING

Indicates a strong possibility of severe personal injury or loss of life if instructions are not followed.

CAUTION

Indicates a possibility of personal injury or equipment damage if instructions are not followed.

NOTE: Gives helpful information.

Detailed descriptions of standard workshop procedures, safety principles and service operations are not included. It is important to note that this manual contains some warnings and cautions against some specific service methods which could cause PERSONAL INJURY to service personnel or could damage a vehicle or render it unsafe. Please understand that those warnings could not cover all conceivable ways in which service, whether or not recommended by Honda might be done or of the possible hazardous consequences of each conceivable way, nor could Honda investigate all such ways. Anyone using service procedures or tools, whether or not recommended by Honda must satisfy himself thoroughly that neither personal safety nor vehicle safety will be jeopardized by the service method or tools selected.





## **TABLE OF CONTENTS**

1.	Specifications	1 2
3	Service procedures	3
A	Inernation / Adjustment	_
4.	Inspection / Adjustment	36
EN	GINE	
5.	Engine removal/Installation	43
	Cylinder head/cylinder piston	45
	A.C. generator	52
	Drive pulley/clutch/Driven pulley	55
	Crankshaft/crankcase	63
	Carburetor/Air cleaner	67
FR/	AME	
11.	Handlebar/Front suspension/Front wheel	72
	Rear Wheel	78
13.	Final Reduction	82
	Fuel tank/Rear shock absorber	85
	Electrical	87
	Wiring	

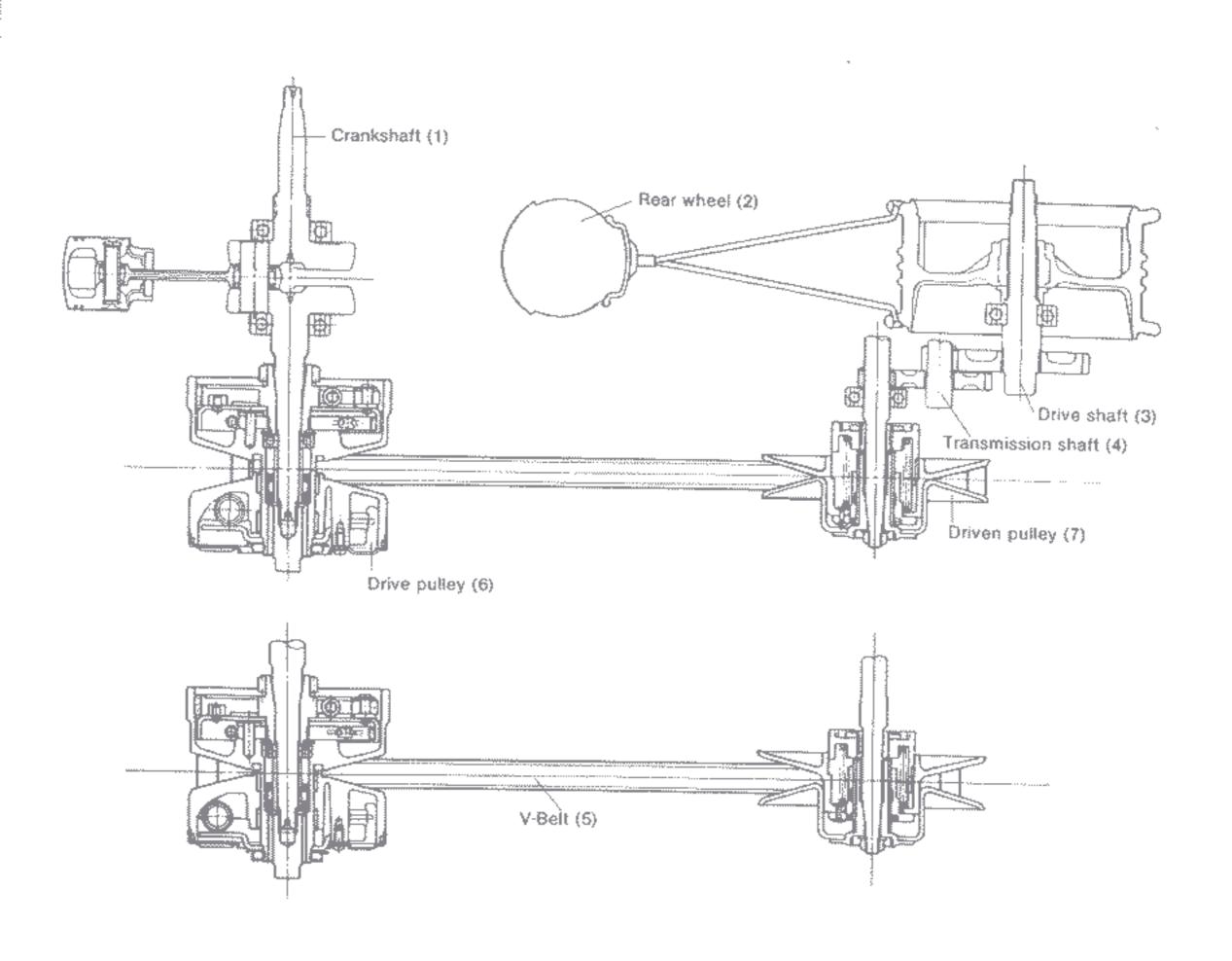
#### 1. SPECIFICATIONS

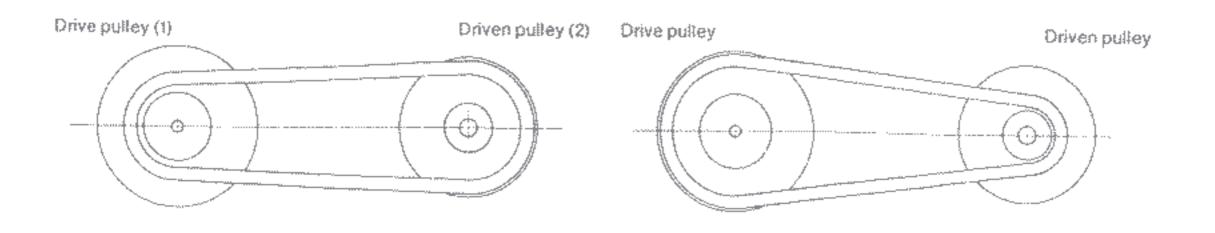
ITEM	DX (	THE COTHATE HOPEN CAMPO TURNS	Custom	St.
Overall height Overall length Overall width Wheel base Ground clearance Dry weight	1050 1650 640 1055 100 54 kg	993 1650 620 1055 100 50,8kg	1120 1650 715 1055 100 59,7 kg	985 1650 620 1055 100 49,6 kg
FRAME F. suspension travel R. suspension travel F. tire size R. tire size Fuel capacity Fuel reserve Caster angle Trail			Tele Swir 2.00 - 2.2 2.00 - 2.2	s-Bone scopic ng unit 5 - 17 - 2PR 5 - 17 - 2PR 3 I 1,6 I 9 30'
ENGINE Bore and stroke Displacement Compression ratio  Carburator Max. power  Max. torque  Fuel  Idling speed			40.0 49 6,7:1 (40 7,0:1 (Nt 7,0:1 (Nt 7,0:1 (Nt 9 1,69 Kw/5500 1,32 Kw/5000 1,10 Kw/3800 3,72 Nm/35 3,60 Nm/24 3,30 Nm/30 3,05 Nm/30 Mixed 1/25 - 40 1/50 - Ni	) (40 km/h) ) (NL - 25 km/h) 500 (45 km/h)
DRIVE TRAIN Clutch Transmission Transmission ratio			Oriv Autom, cer Variable pulley o 1.80 ~ 0.9 1.80 ~ 1.1 1.80 ~ 1.4 2.149 ~ 1.1	re belt htrif, dry type ir fixed transmission 18 (45 km/h) 12 (40 km/h) 16 (25 km/h)
ELECTRICAL Battery  Generator Tail/stop Turn signal			6 V - 6 V - 6 V - 1	magneto 0.8 AH W France 18 W UK 5 W other V/4800 4/5 W W Germany 0 W other
Tire pressure			Front: 2.00 Rear: 2.00	0-2.50 kg/cm <sup>2</sup> -2.50 kg/cm <sup>2</sup>





## 2. TECHNICAL FEATURES HONDA V-MATIC









## 3. SERVICE PROCEDURES

Service data	4
Torque specifications	- 5
Special tools	6
Lubrication	7
Wiring diagram	8-28
Trouble shooting	29-34
Maintenance schedule	35
	Service data Torque specifications Special tools Lubrication Wiring diagram Trouble shooting Maintenance schedule





### 1. Service data

(Engine)

Unit: mm

Iter	ŢTI.		Assembly	Standard	Repa	ir Limit	Page
Piston-to-piston ring clea	rence		0.025-0.055	(0.001-0.002)	0.1	(0.0039)	94
Piston skirt O.D. (4mm fr	om bottom)		39.955-39.975	(1.573-1.574)	39.85	(1.569)	94
Cylinder I.D.			40.00-40.020	(1.5748-1.5752)	40.05	(1.5767)	92
Piston ring end gap			0.15-0.35	(0.0059-0.138)	0.6	(0.024)	96
Piston pin O.D.			9.994-10.000	(0.395-0.3937)	9.97	(0.3925)	÷
Piston pin hole I.D.			10.002-10.008	(0.3938-0.3940)	10.03	(0.3949)	
Starting clutch lining thic	kness		2.9-3.1	(0.1142-1.220)	1.5	(0.0591)	
Drive clutch lining thickn	ess	~~~~	3.4-3.6	(0.1339-1.417)	2.0	(0.0787)	ļ
Starting clutch face (Driv	e face) I.D.		96.9-97.1	(3.8149-3.8228)	97.5	(3.8386)	
Clutch weight face (Drive	face) I.D.		104.0-104.1	(4.0945-4.0984)	104.5	(4.1142)	ļ
Connecting rod big end I	pearing side o	:learence	0.15-0.41	(0.0059-0.0161)	0.6	(0.0236)	
01	Left	60 mm	0.05 max.	(0.0020)	0.15	(0.0059)	····
Crankshaft runout	Right	75mm	0.05 max.	(0.0020)	0.15	(0.0059)	128

(Frame)

Item	Assemb	y Standard	Repa	ir Limit	Page
Front wheel axle bend	0.05 max	(0.002)	0.1	(0.004)	1
Front and rear wheel hub LD.	80.0-80.2	(3.150-3.157)	81.0	(3.189)	146
Front and rear brake tining thicknesses	3.5	(0.138)	2.0	(0.079)	146
Front wheel runout	1.0 max	(0.039)	2.0	(0.079)	146





## 2. Torque specifications

(Engine)

Ref.No	Tightening point	Qty Ti	Thread dia	Torque		Dona
101.110	naucuna bour		mm	kg-cm	(lbs-ft)	Page
1	Cylinder head hold-down	4	6	90-120	(5.8-8.7)	88
2	A.C. flywheel generator attaching nut	1	10	300-400	(21.7-28.9)	100
3	Drive pulley attaching nut	1 1	10	300-400	(21.7-28.9)	108
4	Driven pulley attaching nut	1 1	8	200-250	(14.5-18.1)	108
5	Intake pipe attaching nuts	4	6	80-120	(5.8-8.7	MAR.
6	Nut special 27 mm	1	27	280-350	(20.3-25.3)	844
7	Nut special 20 mm	1	20	500	(36.0)	***
8	Engine Hanger Bolt	1	10	590-650	(42.6-47.0)	82

# (Frame)

Ref.No	Tightening point	Otv	Qty Thread dia	Ohy Thread dia Torque		Dama
101.140		City	mm	kg-cm	(lbs-ft)	Page
1	Suspension bar Cap Nut	2	10	400-500	(28.9-36.1)	_
2	Steering stem nut	1	22	250-350	(18.1-25.3)	_
3	Steering top bridge bolts	2	10	300-400	(21.7-28.9)	
4	Steering holder bolts	4	6	90-120	(6.5-8.7)	_
5	Front wheel axle nuts	2	11	300-400	(21.7-28.9)	_
6	Free wheel guide	1	14	400-600	(28.9-43.4)	-
7	Rear shock absorber bolts	4	8	300-400	(21.7-28.9)	<b>-</b>

# Standard torque specifications

Type	Torque			
Туре	kg-cm	(lbs-ft)		
5 mm bolts	40- 70	(2.9-5.1)		
6mm screws	80-120	(5.8-8.7)		
6mm bolts	80-120	(5.8-8.7)		
8 mm bolts	200-250	(14.5-18.1)		
10 mm bolts	300-400	(21.7-28.9)		
14 mm nut	600-800	(43.4-57.8)		





# 3. Special tools

Nº	Tool parts no	Description
1	07902-1480000	Holder, drive pulley
2	07916-1480001	Wrench, lock nut 36 x 46
3	07925-0010001	Holder, flywheel
4	07933-1480000	Puller, drive pulley
5	07935-1480000	Puller, case
6	07965-1480001	Assembly tool, seal & case
7	07934-1480000	Cam Puller
8	07797-0010400	Case, special Tools
9	07933-1480100	Puller pulley
10	07960-1480100	Assy, driven pulley
11	07900-1480002	Tool Set

# Common tools

No	Tool parts no	Description
1	07959-3290000	Rear shock disassembly tool
2	07401-0010000	Float level gauge
3	07902-2000000	Pin spanner wrench



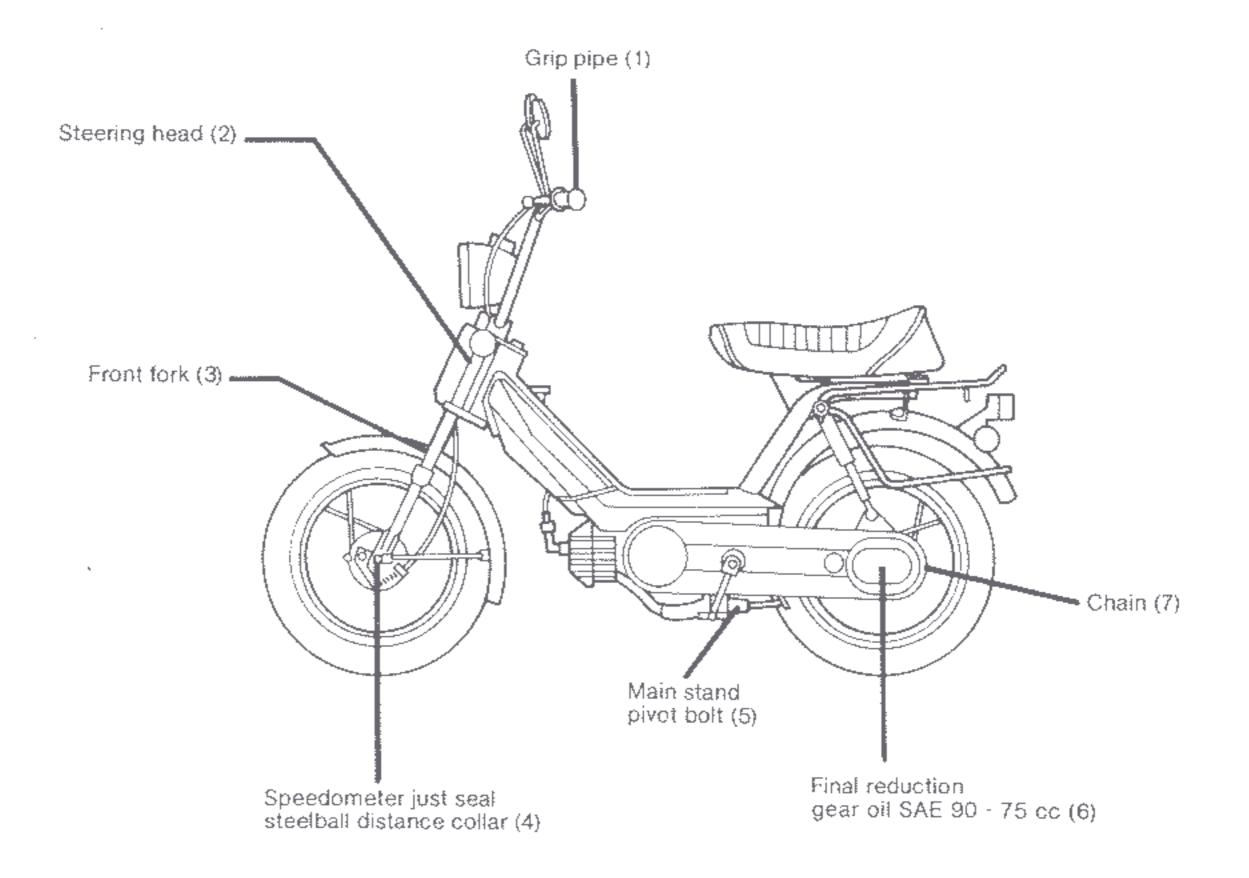


## 4. Lubrication

#### ENGINE

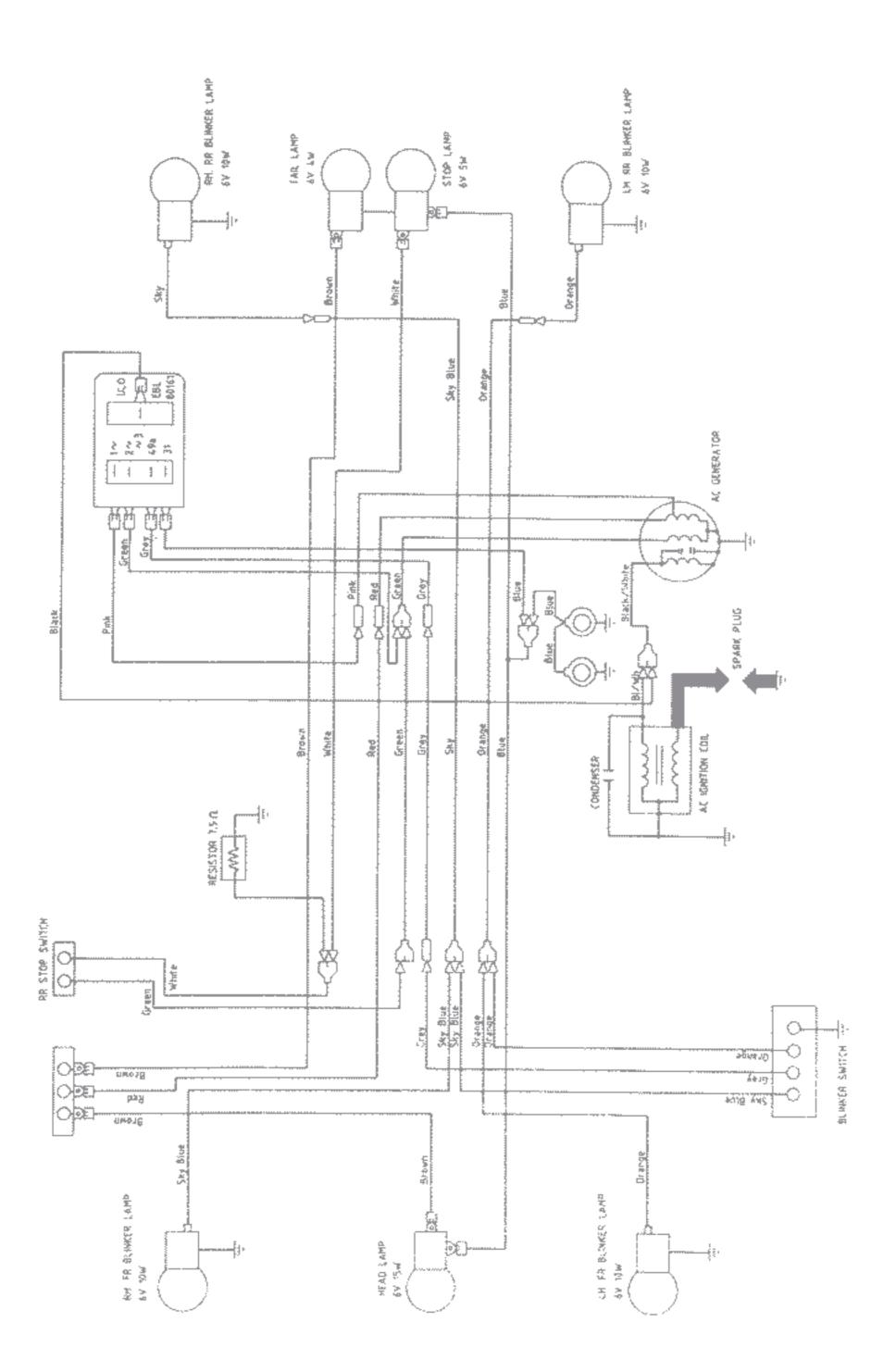
	Point of lubrication	Lubricant
1	Crankcase rotating or sliding surfaces	Use Honda oil or equivalent
2	Cylinder rotating or sliding surfaces	Use Honda oil or equivalent
3	Oil felt	Engine oil (ultra oil)
4	Weight rollers of movable drive face	Grease
5	Driven pulley spring	Grease

## FRAME





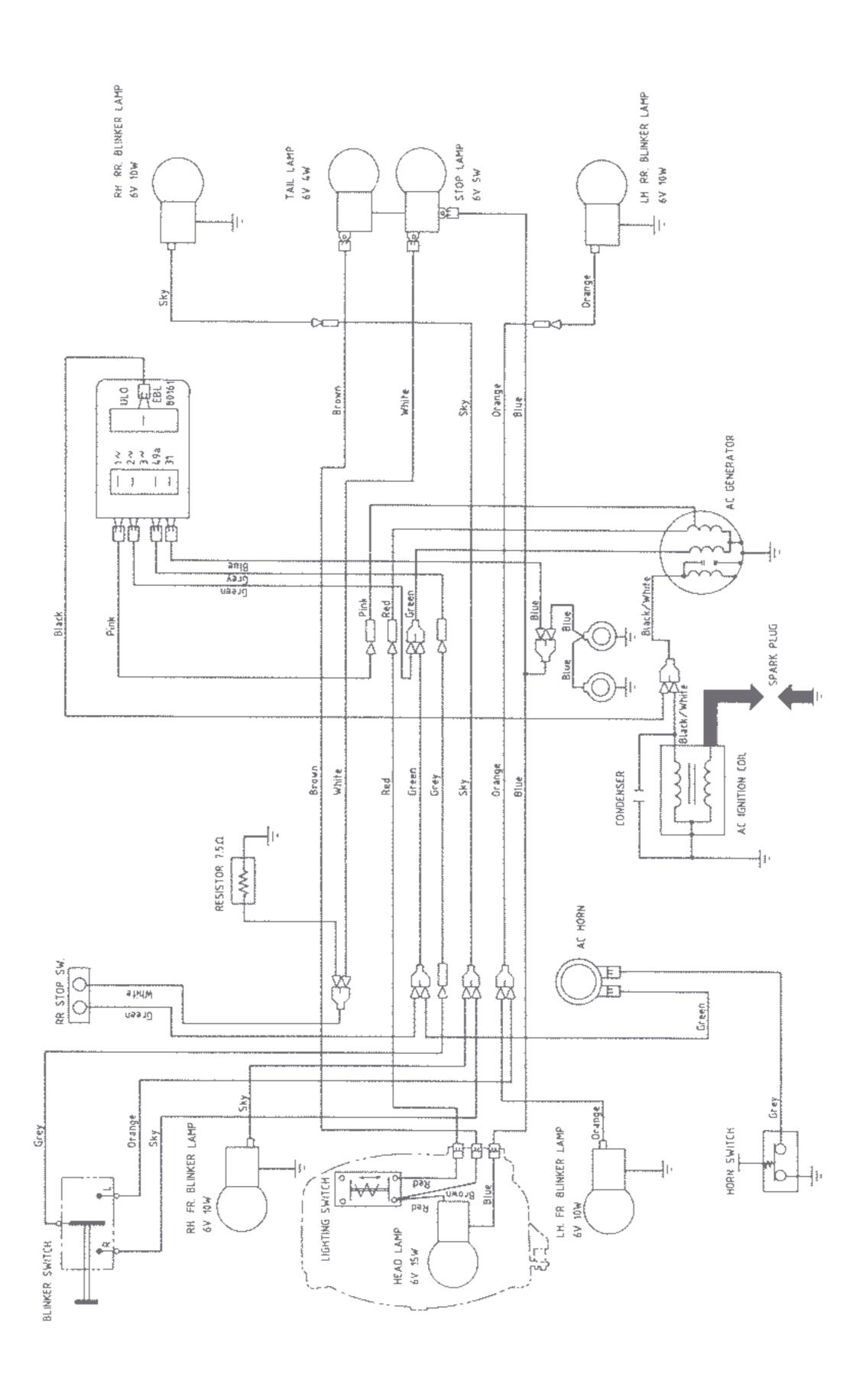




DESTINATION: MVLC VLCB

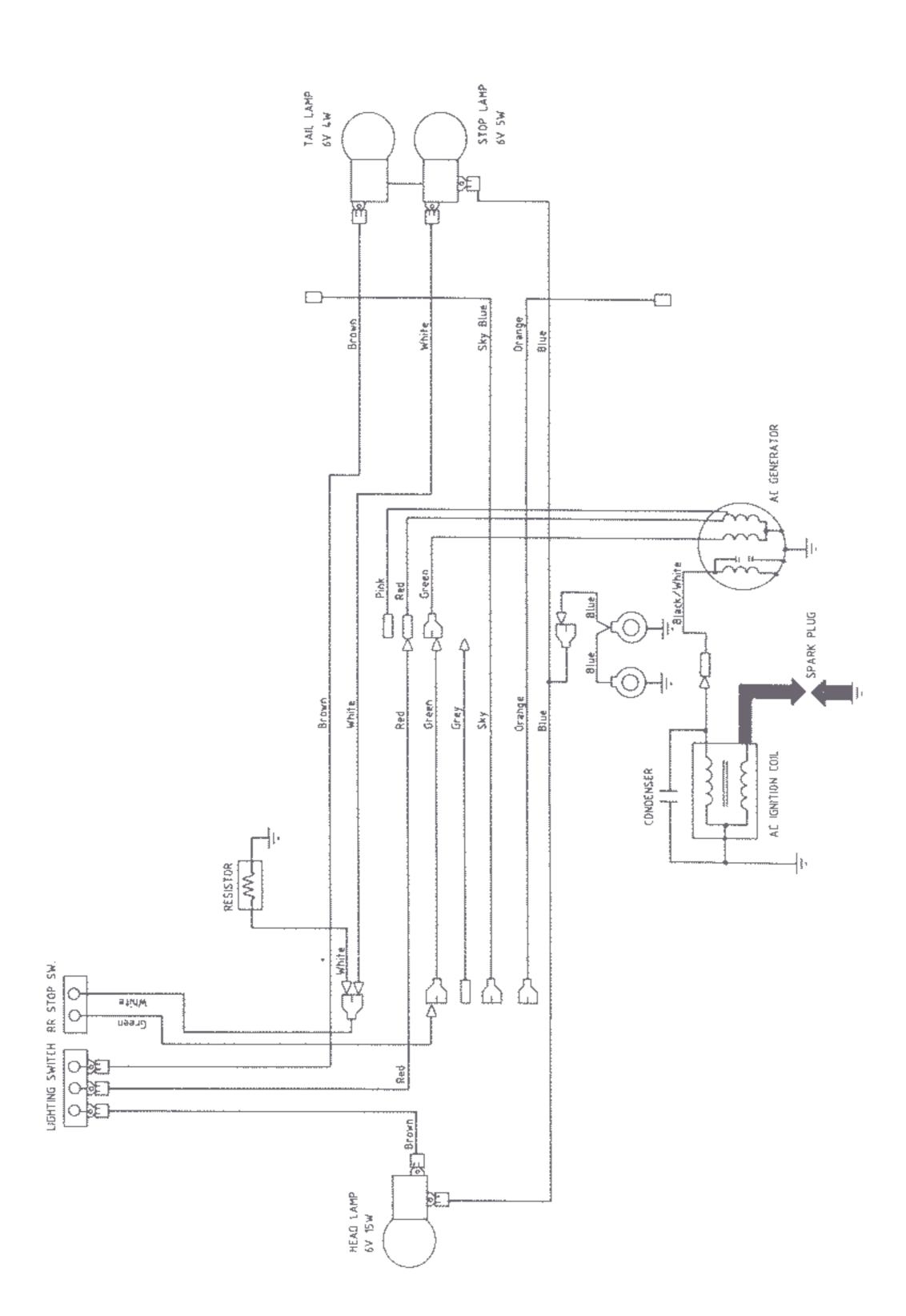


DESTINATION: C VLCS:B







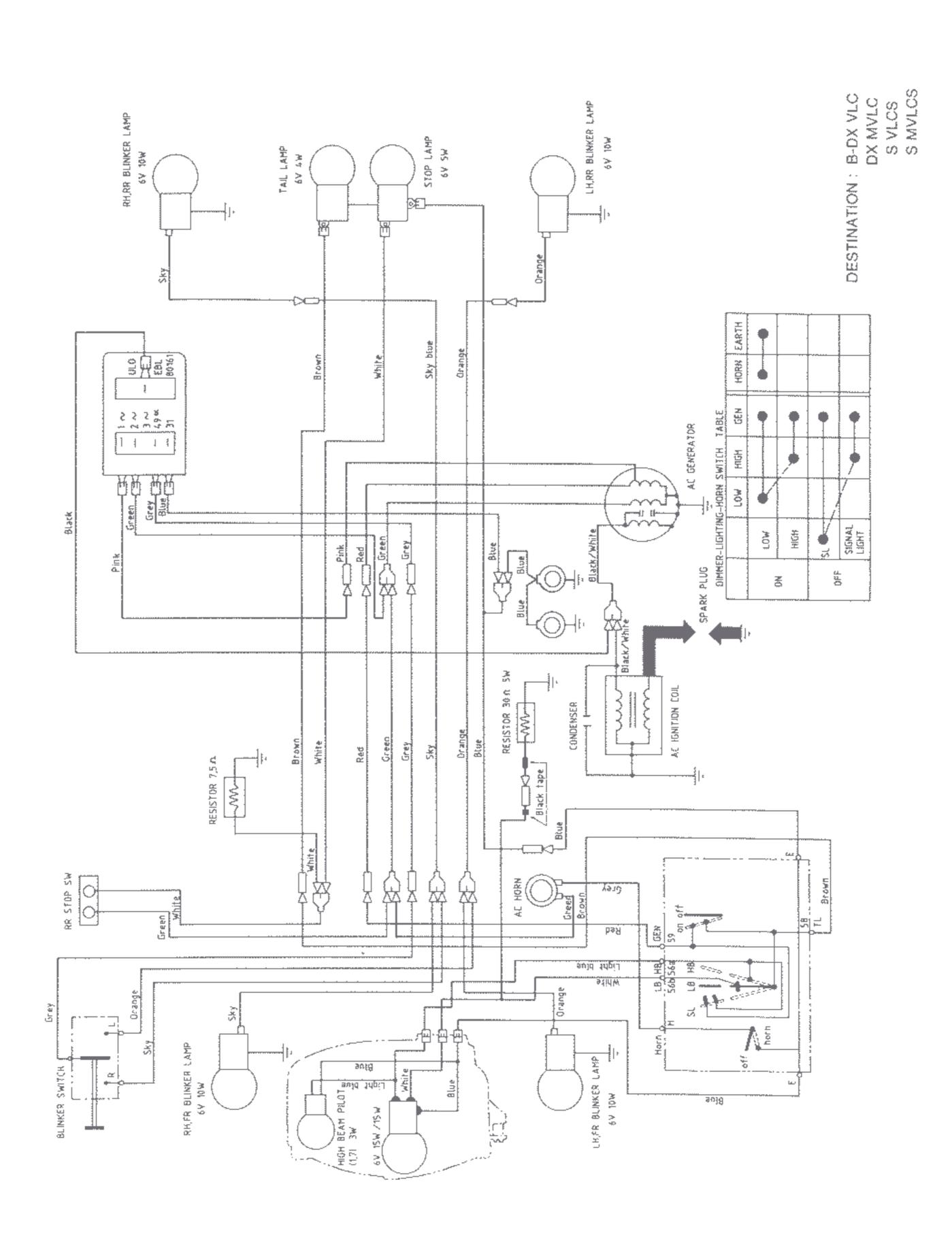


DESTINATION: B-L-VL B-ML-MVL DK-VL&S VL

AUS

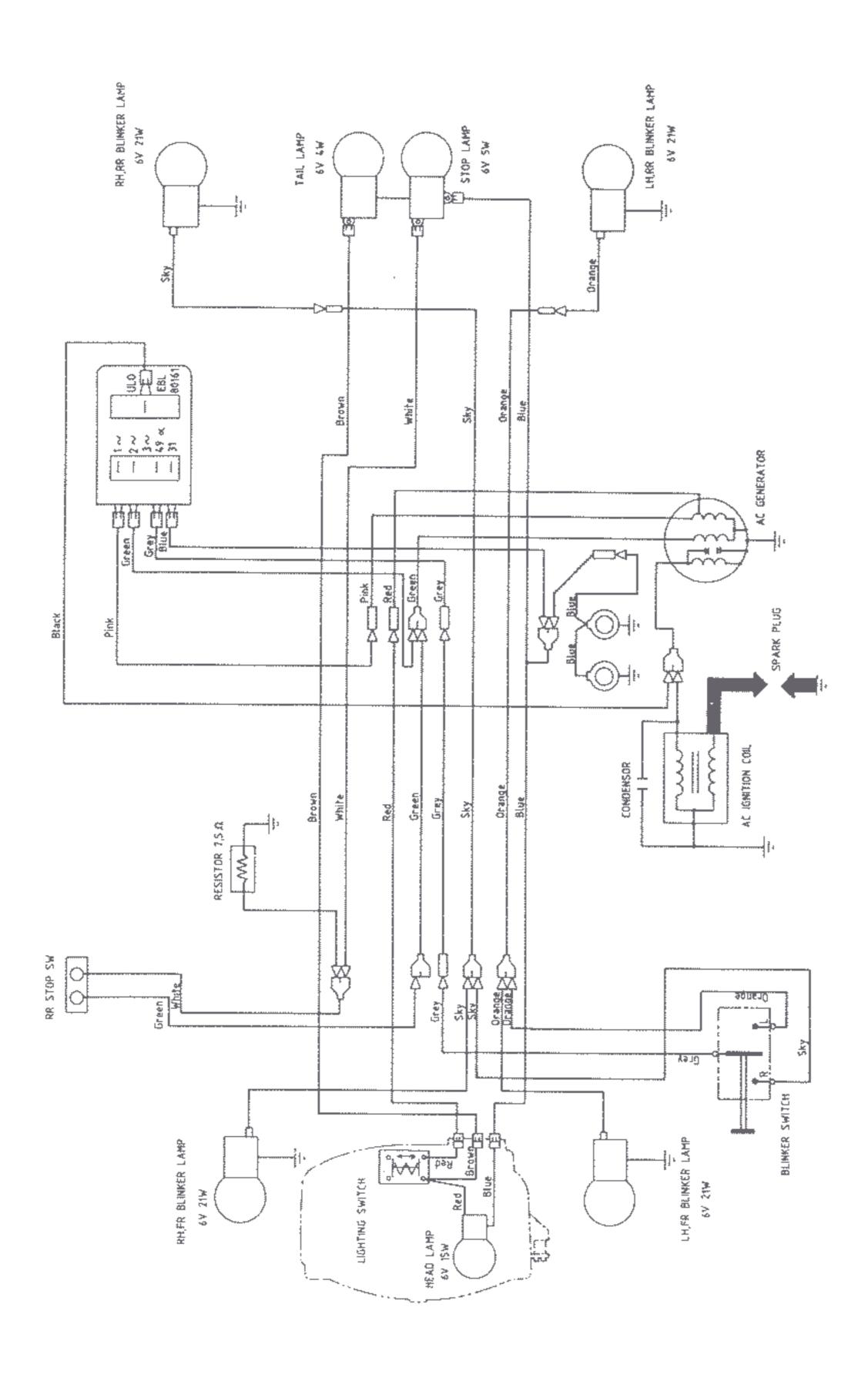






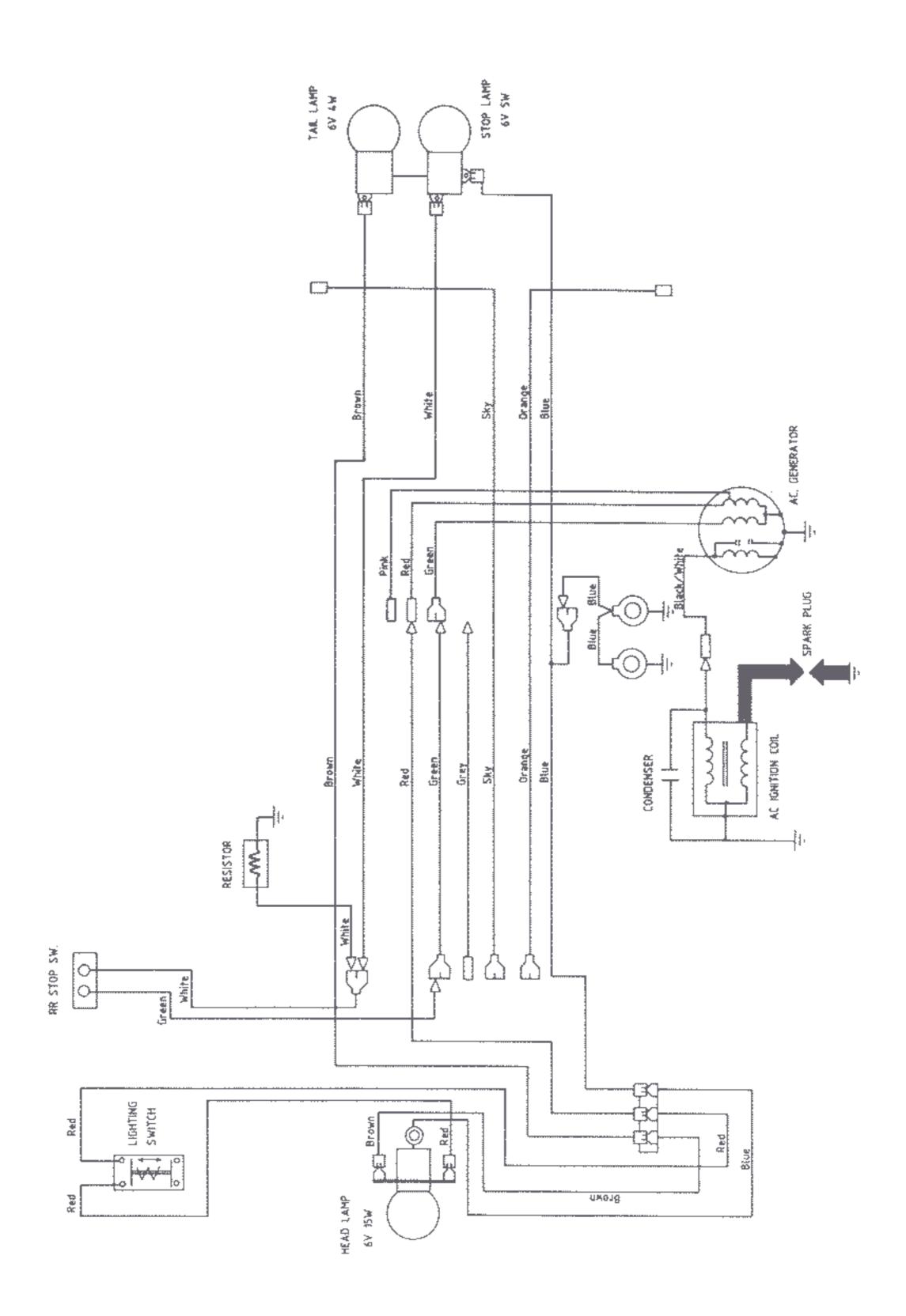








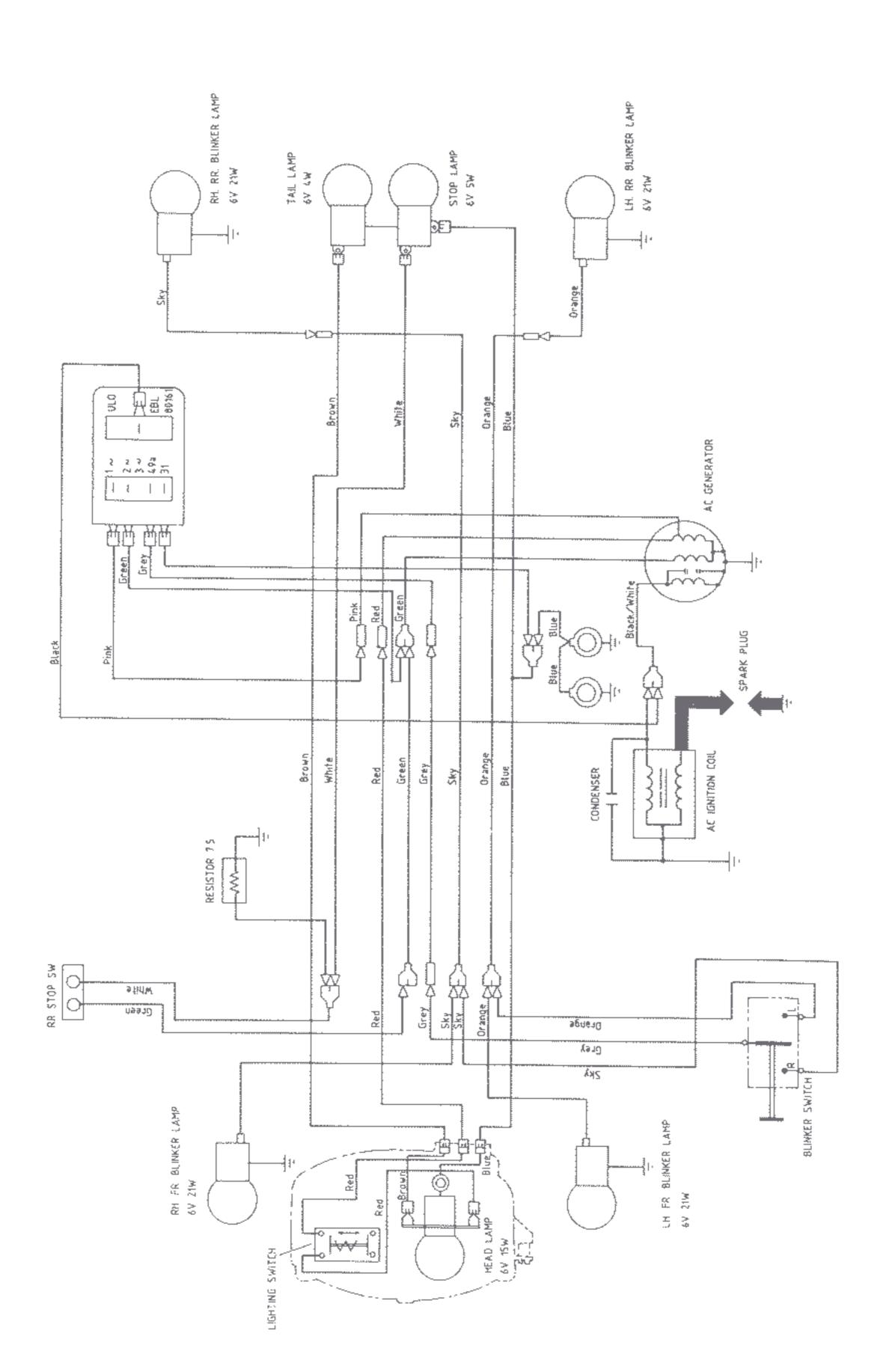




DESTINATION: DX MVLS: G S MVLS: G SVLS: A





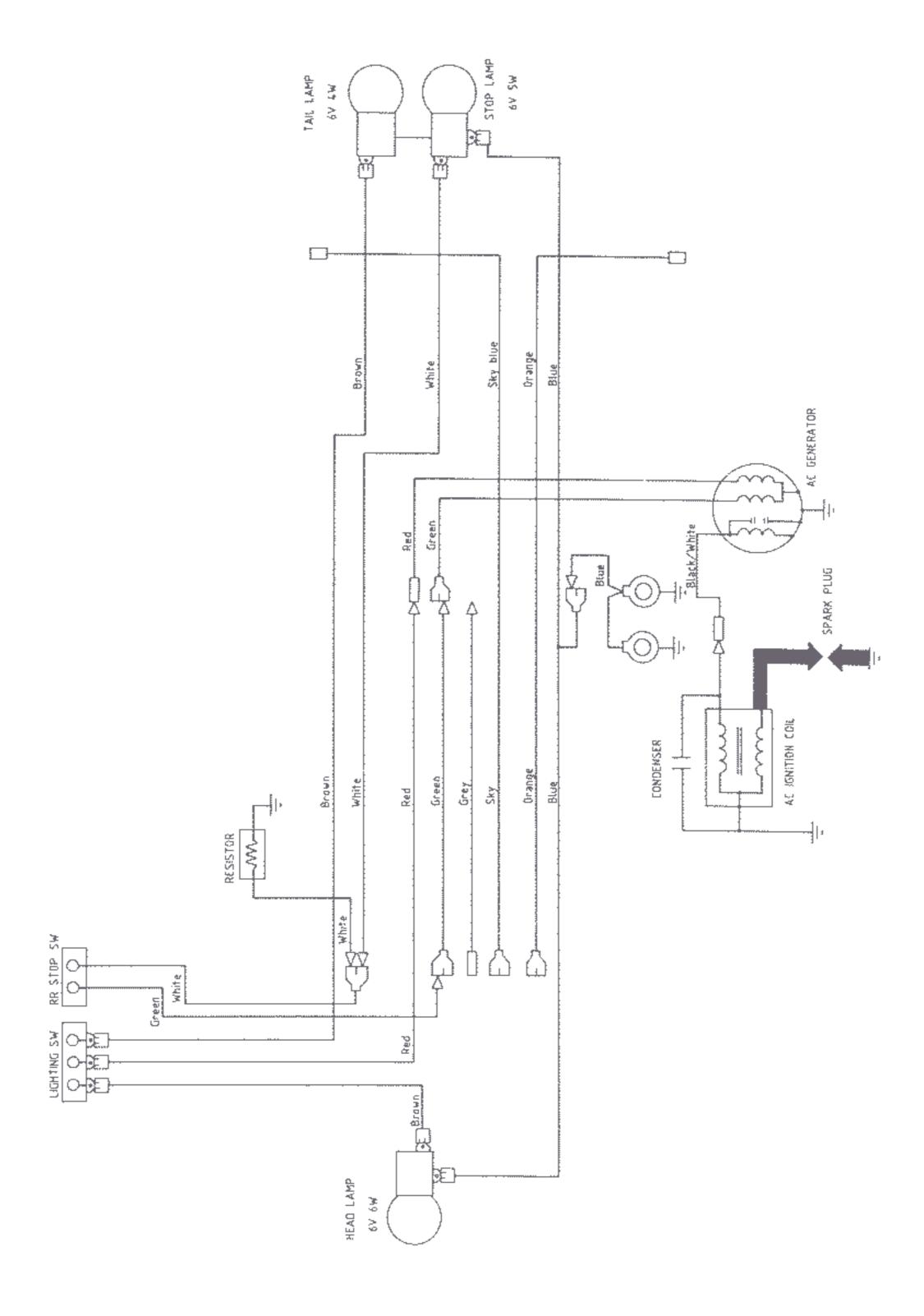


DESTINATION: GERM, MS VLCS MS LCS



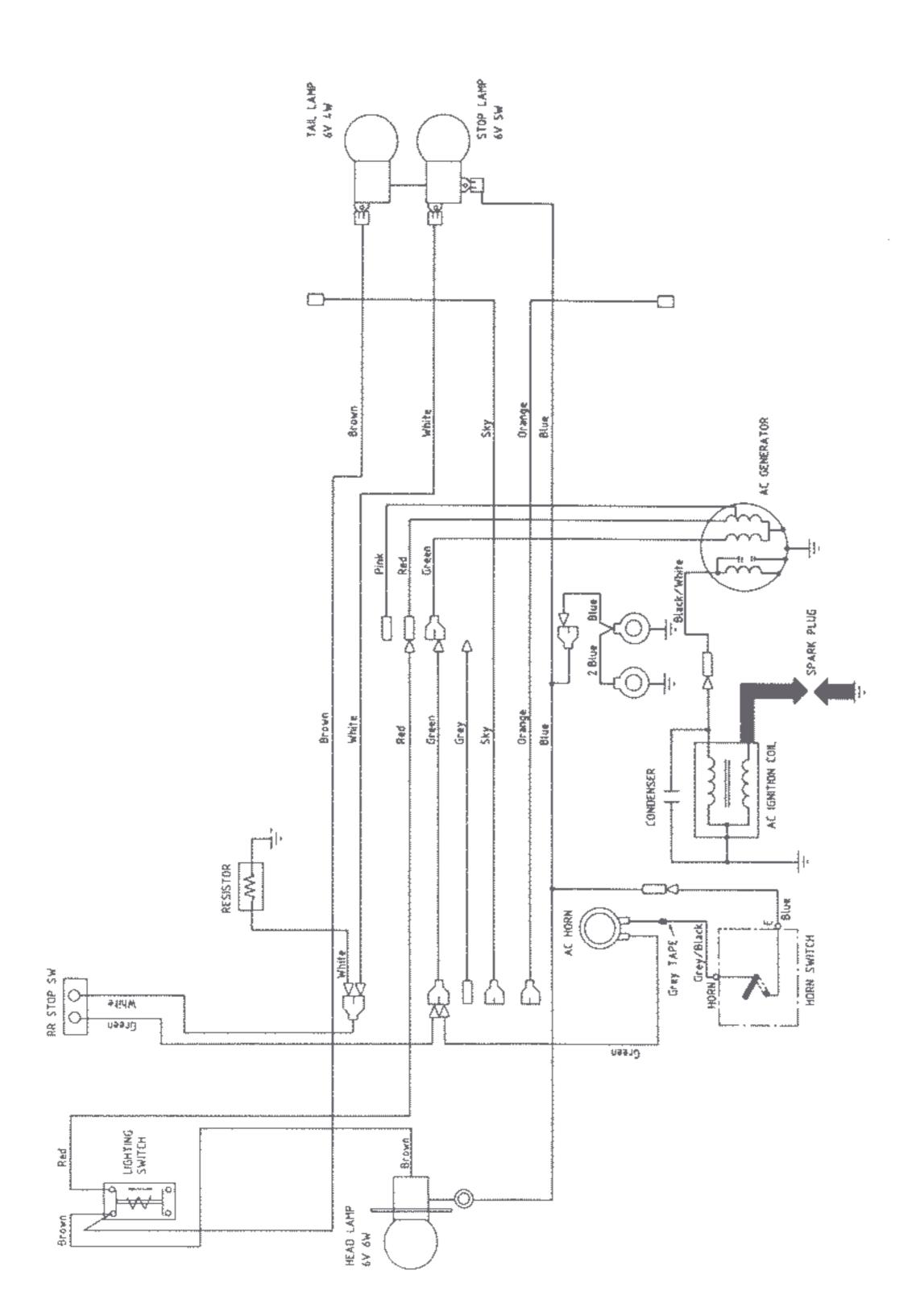








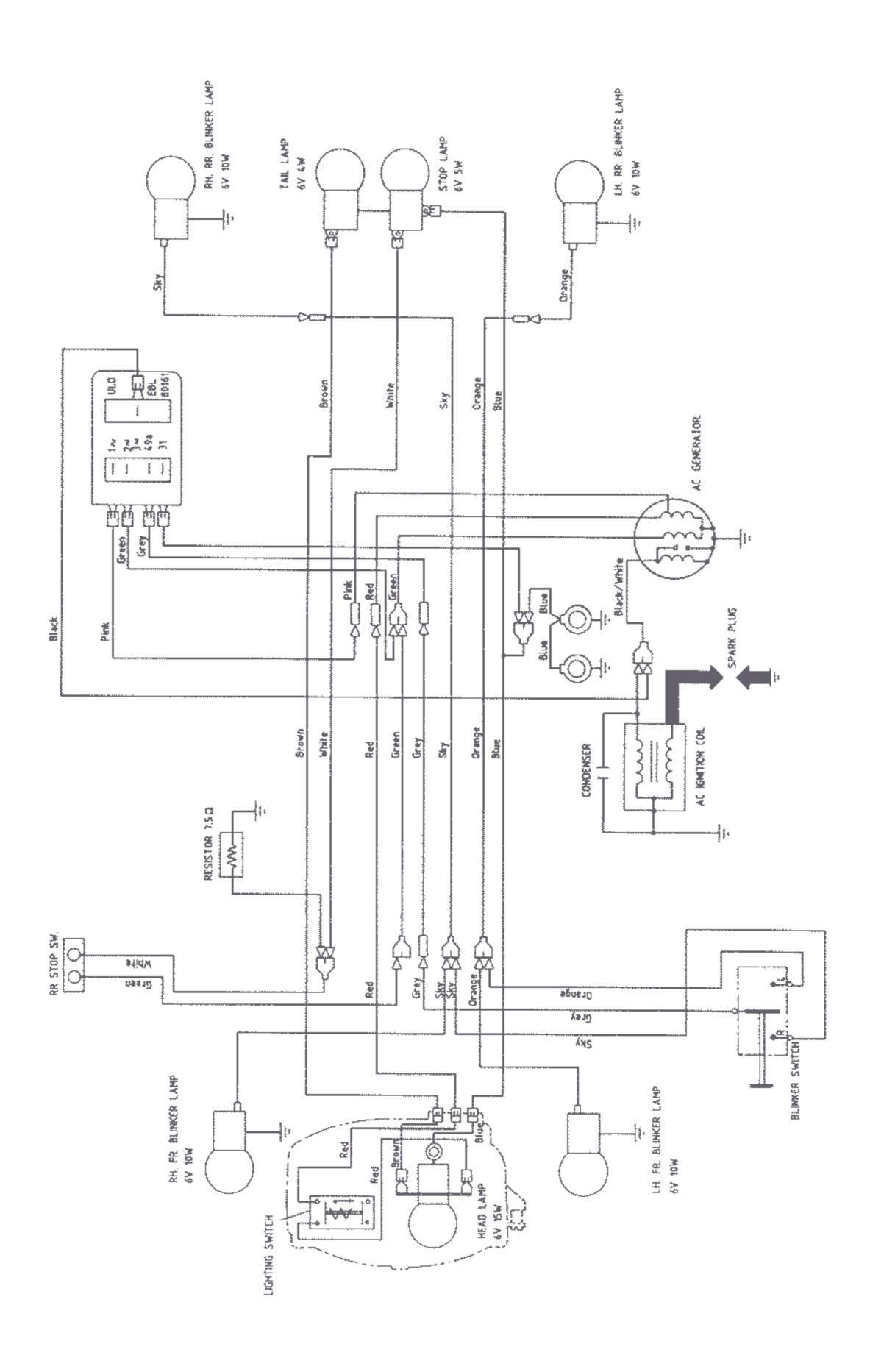




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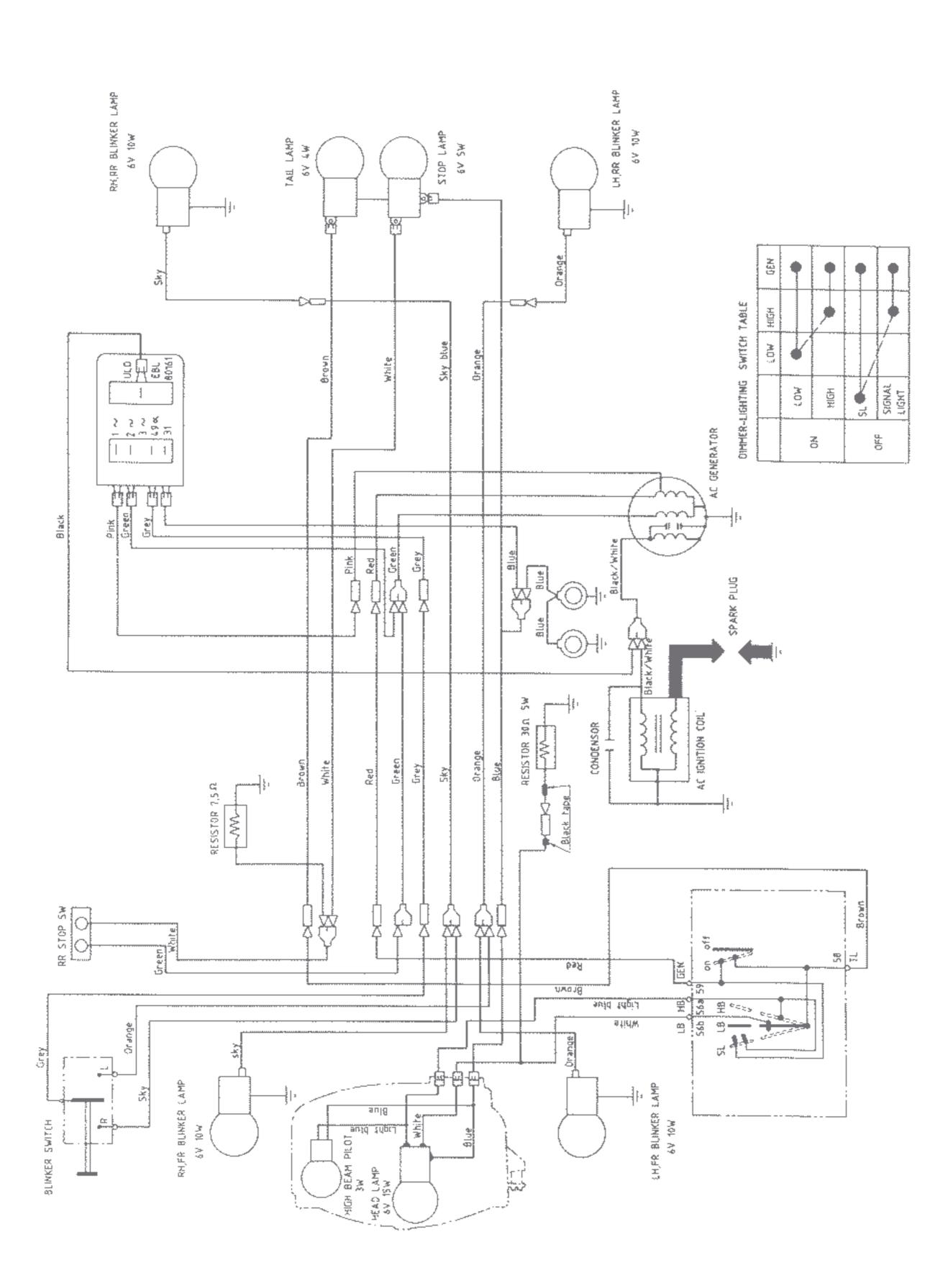






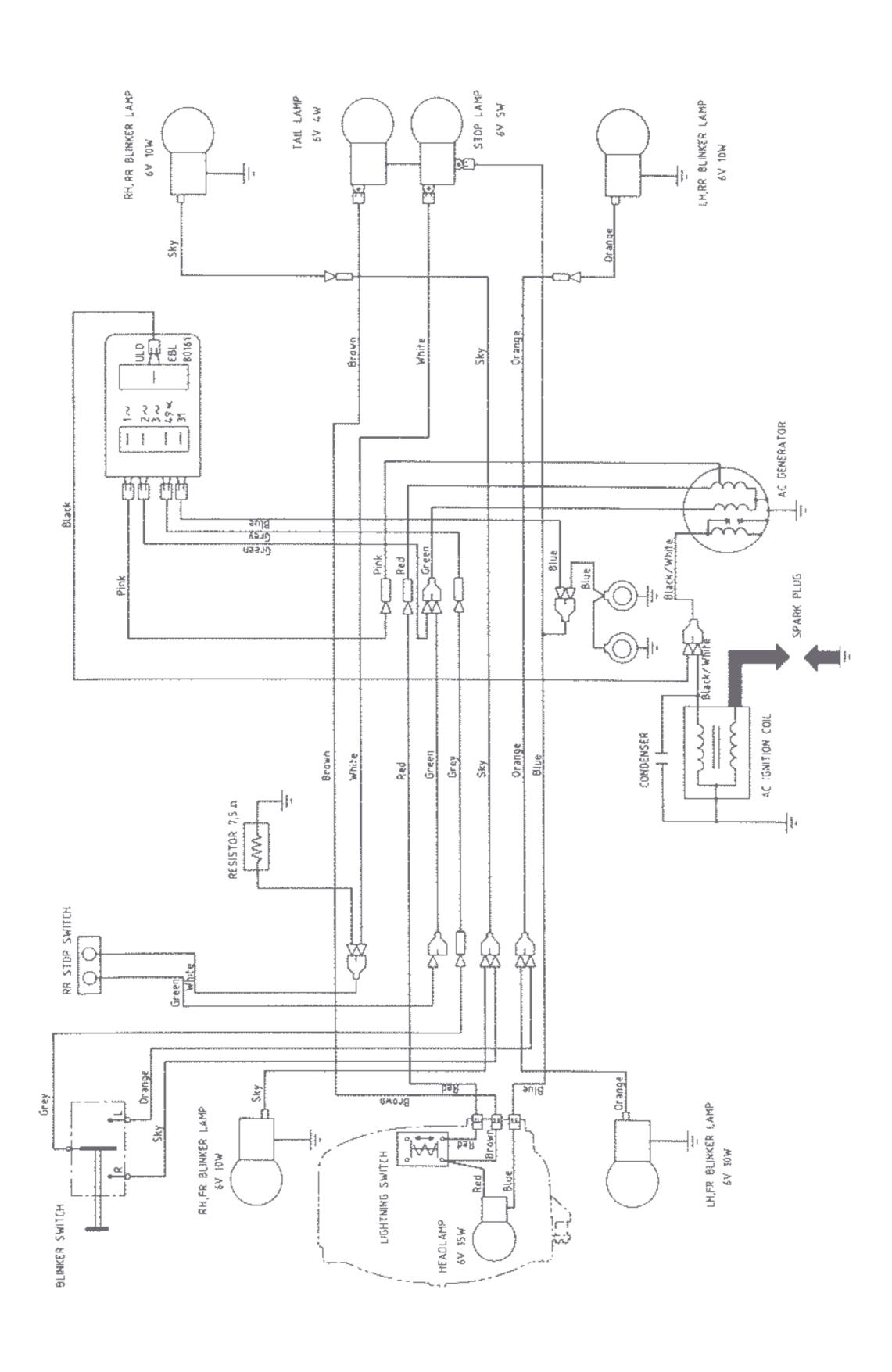






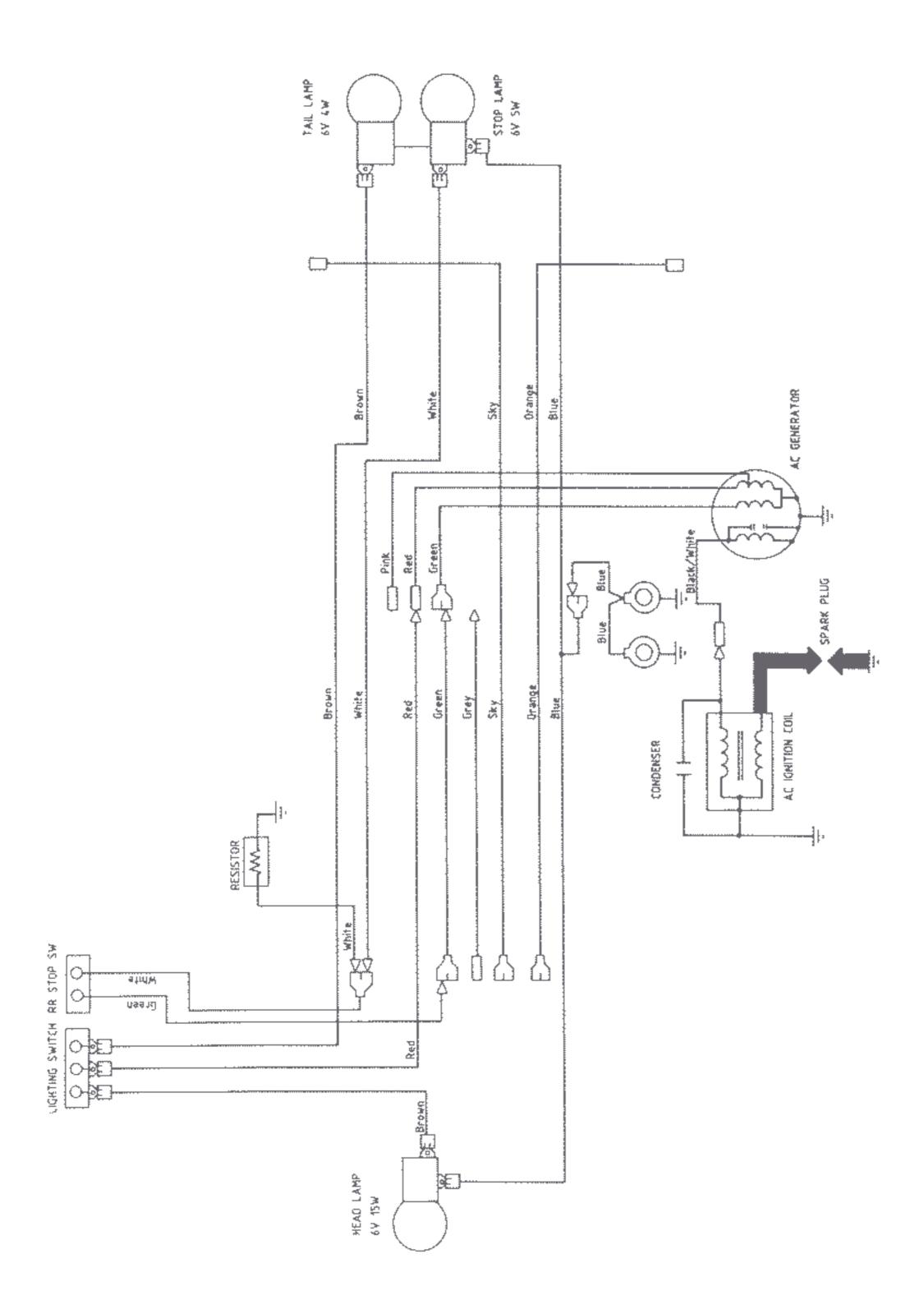








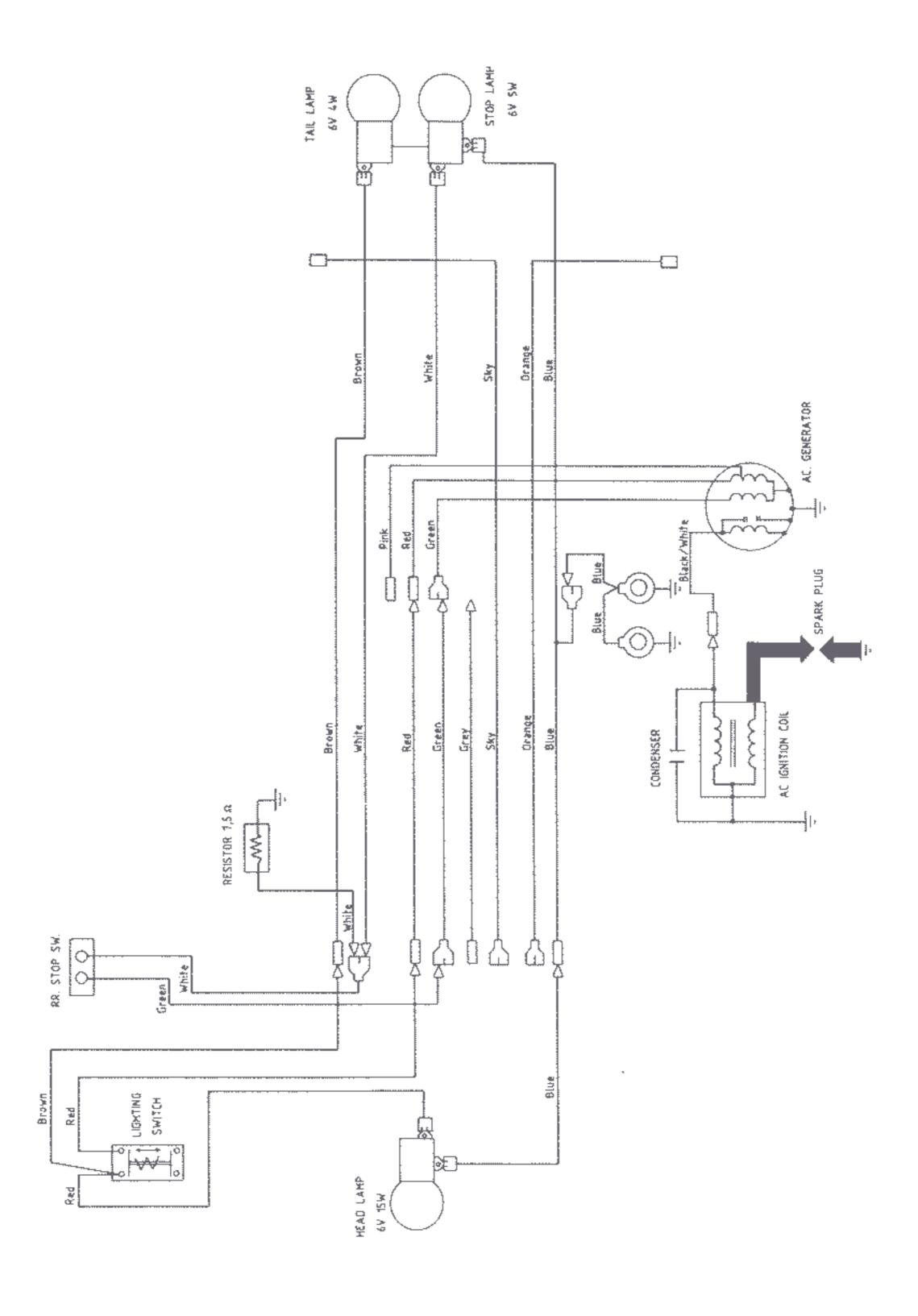




DESTINATION: ML: D



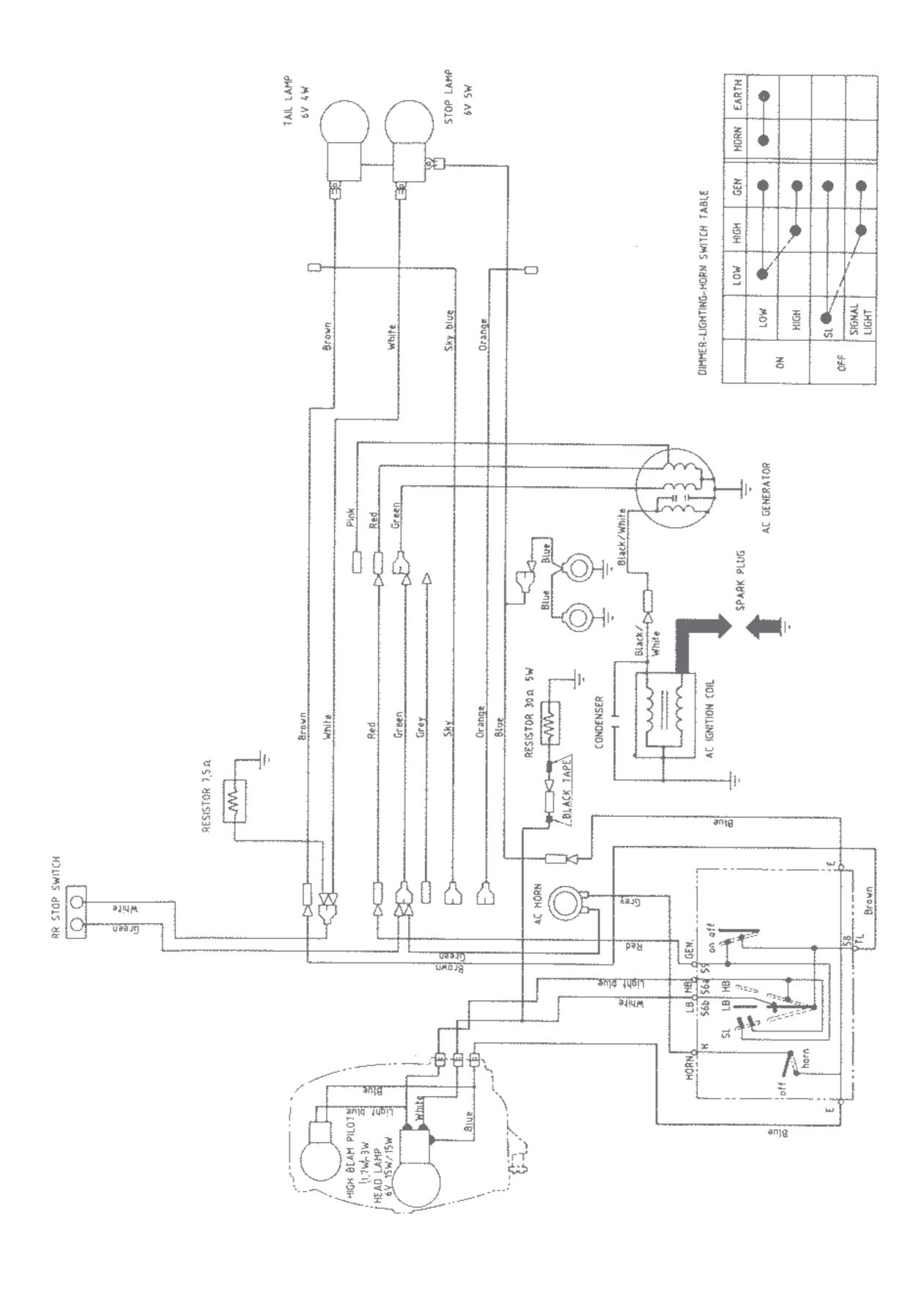




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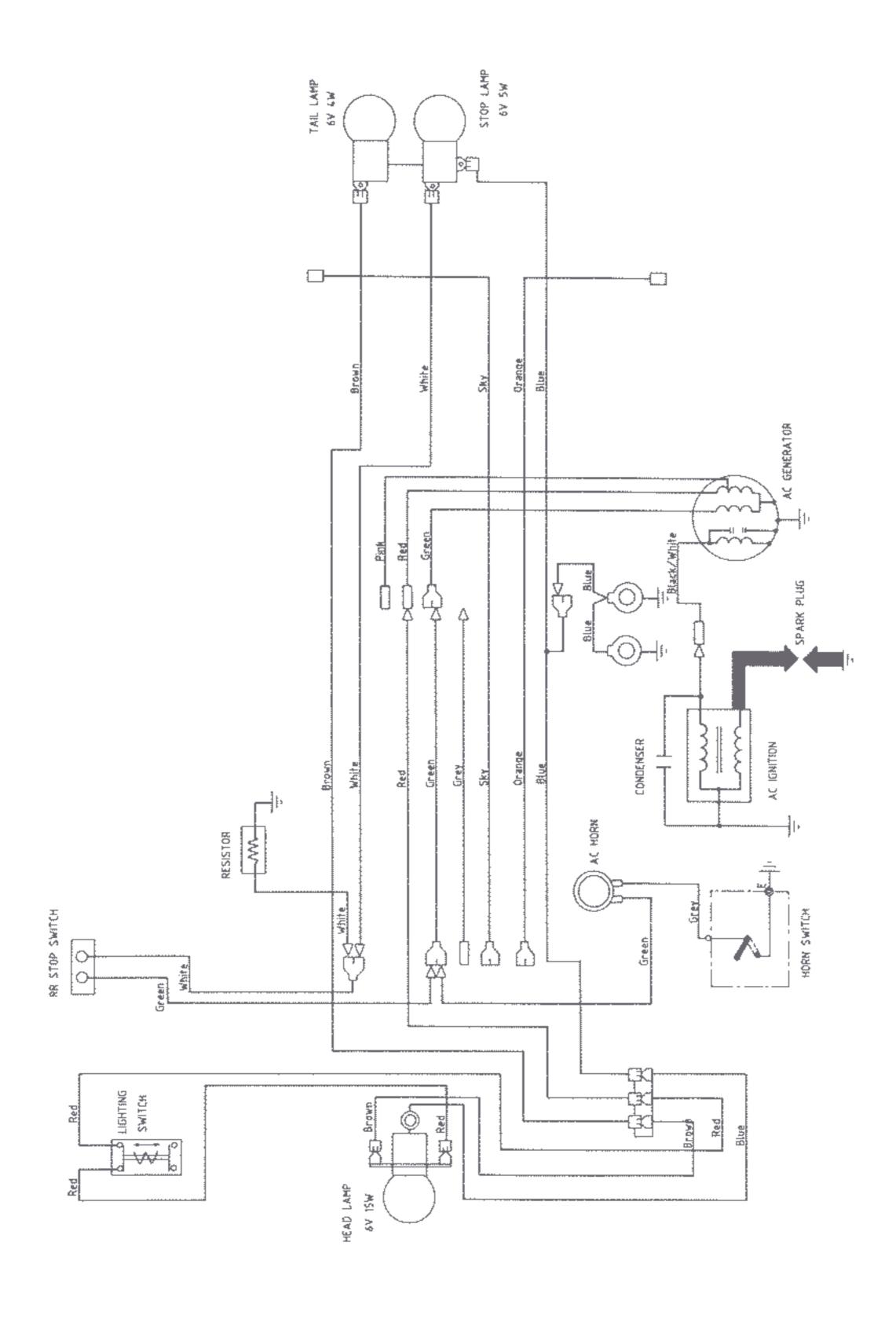








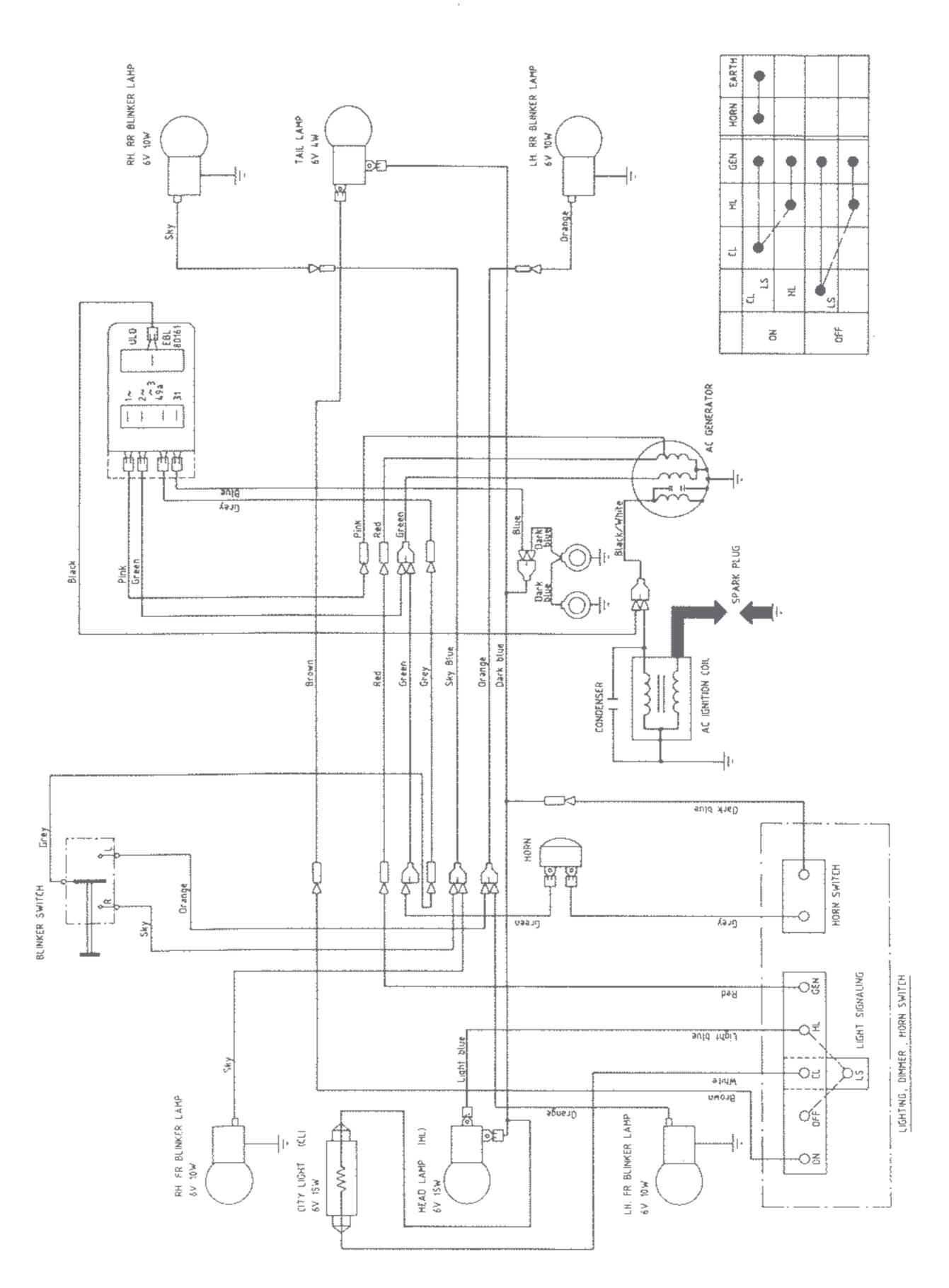




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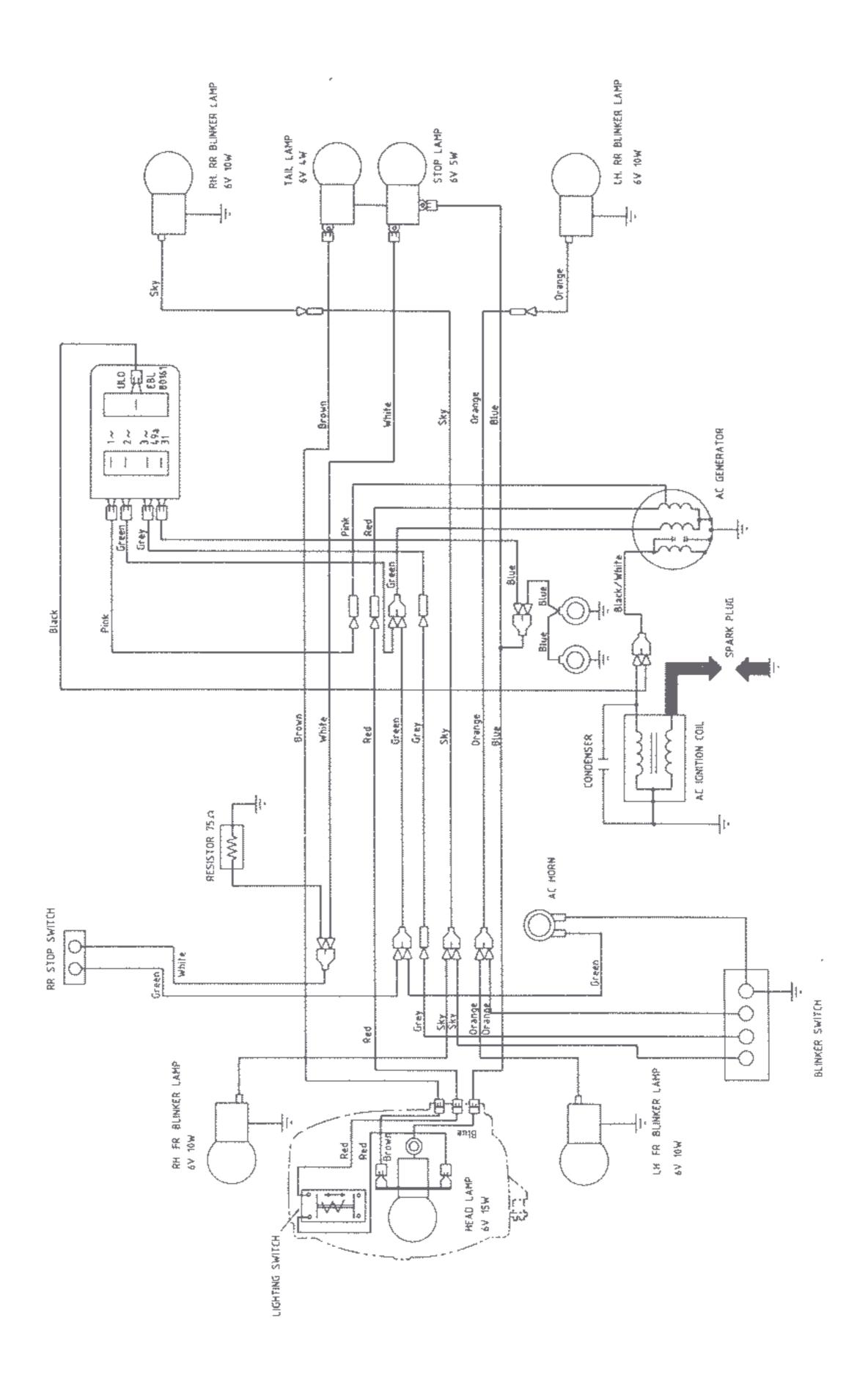






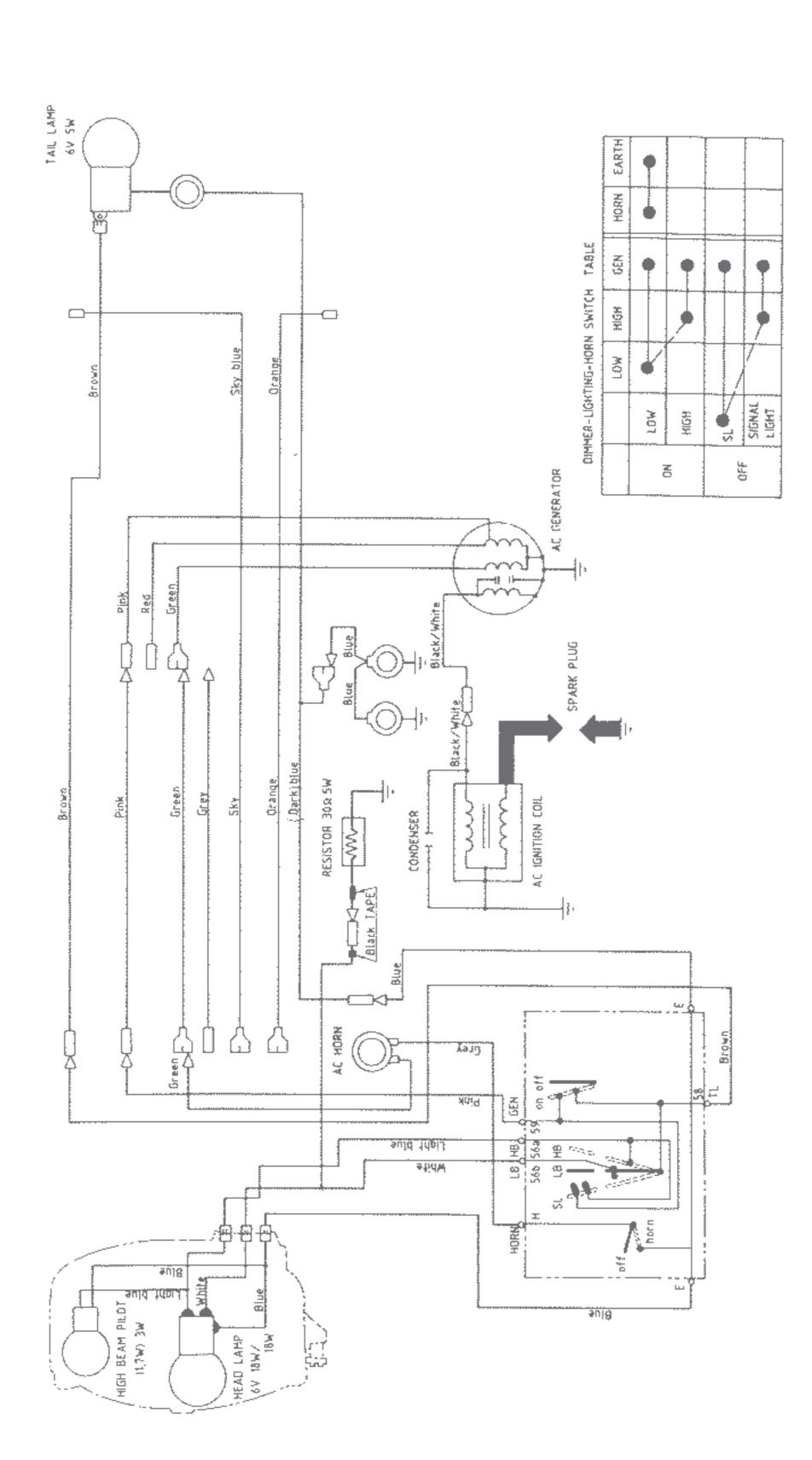












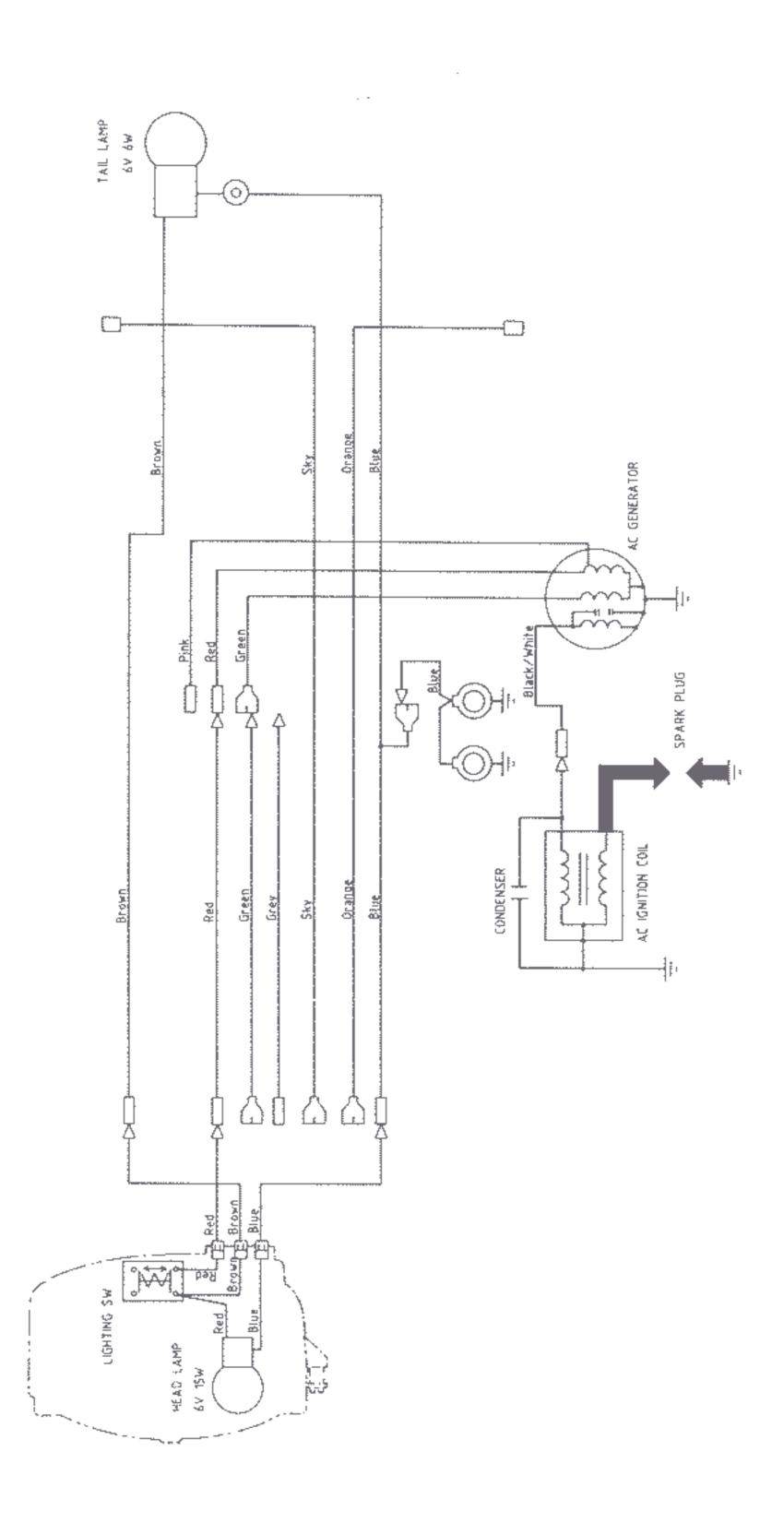
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This is trial version
If you want get full version, please register it, thank you.

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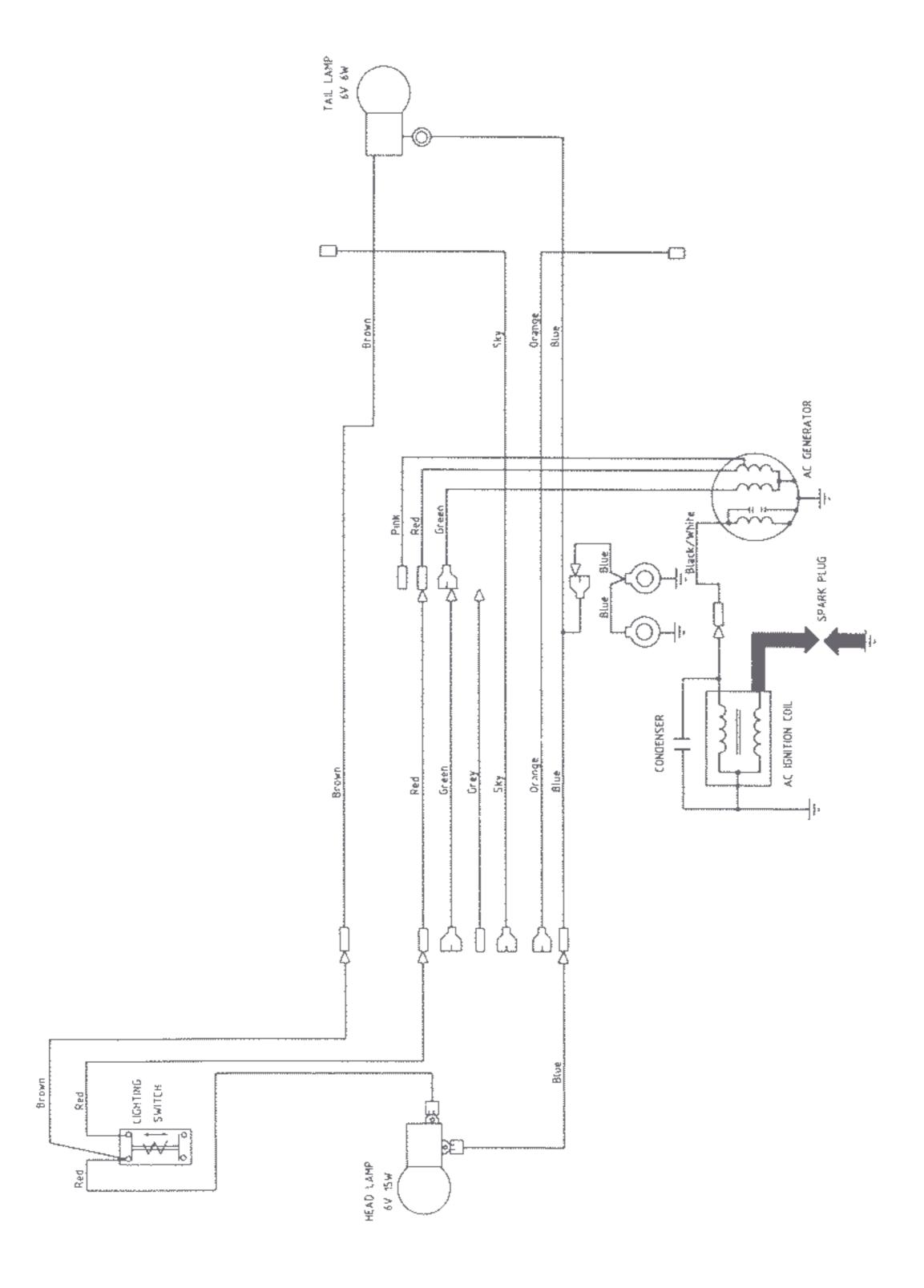




WHAT WOMEN DENCTION AREA

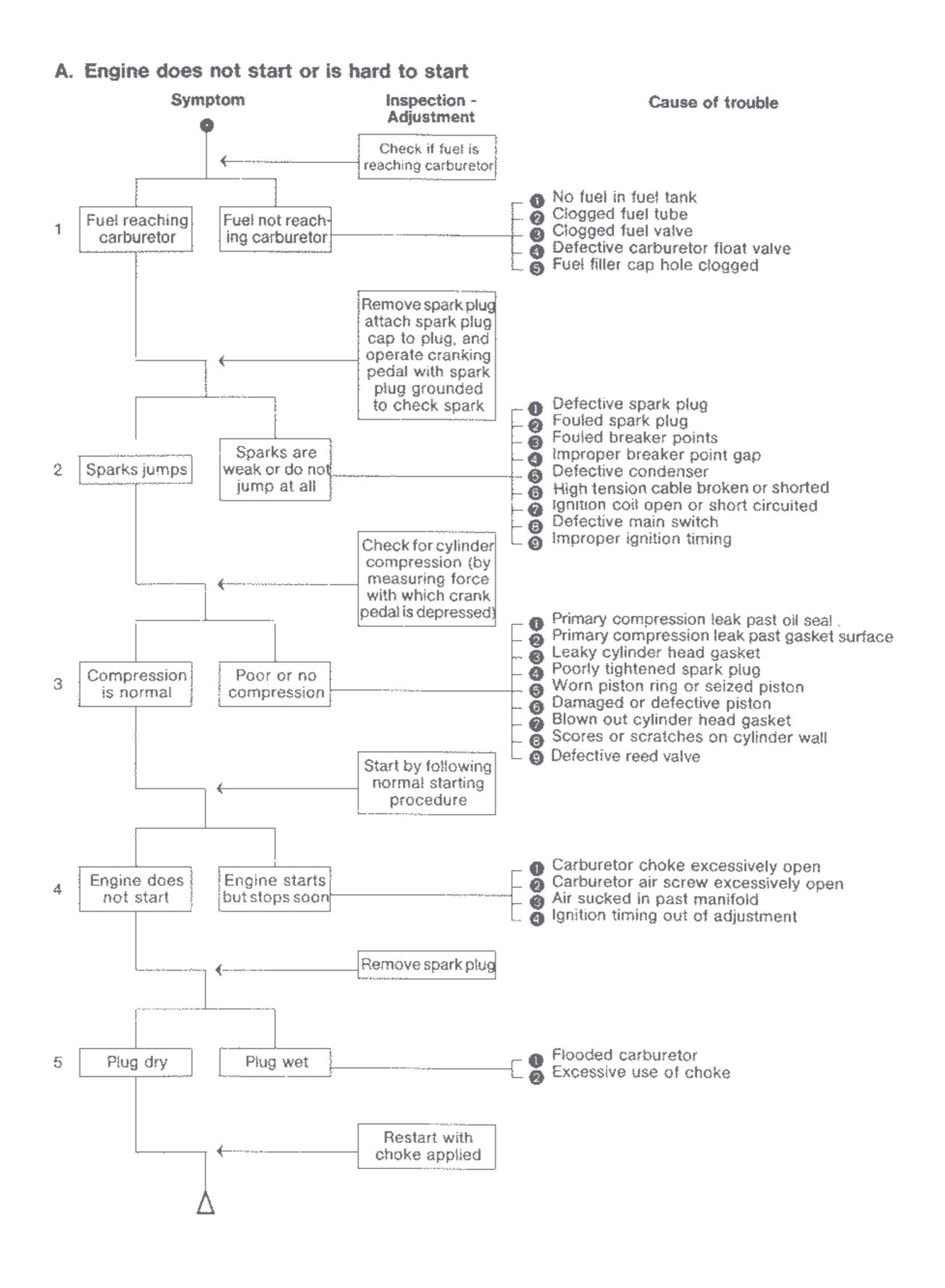






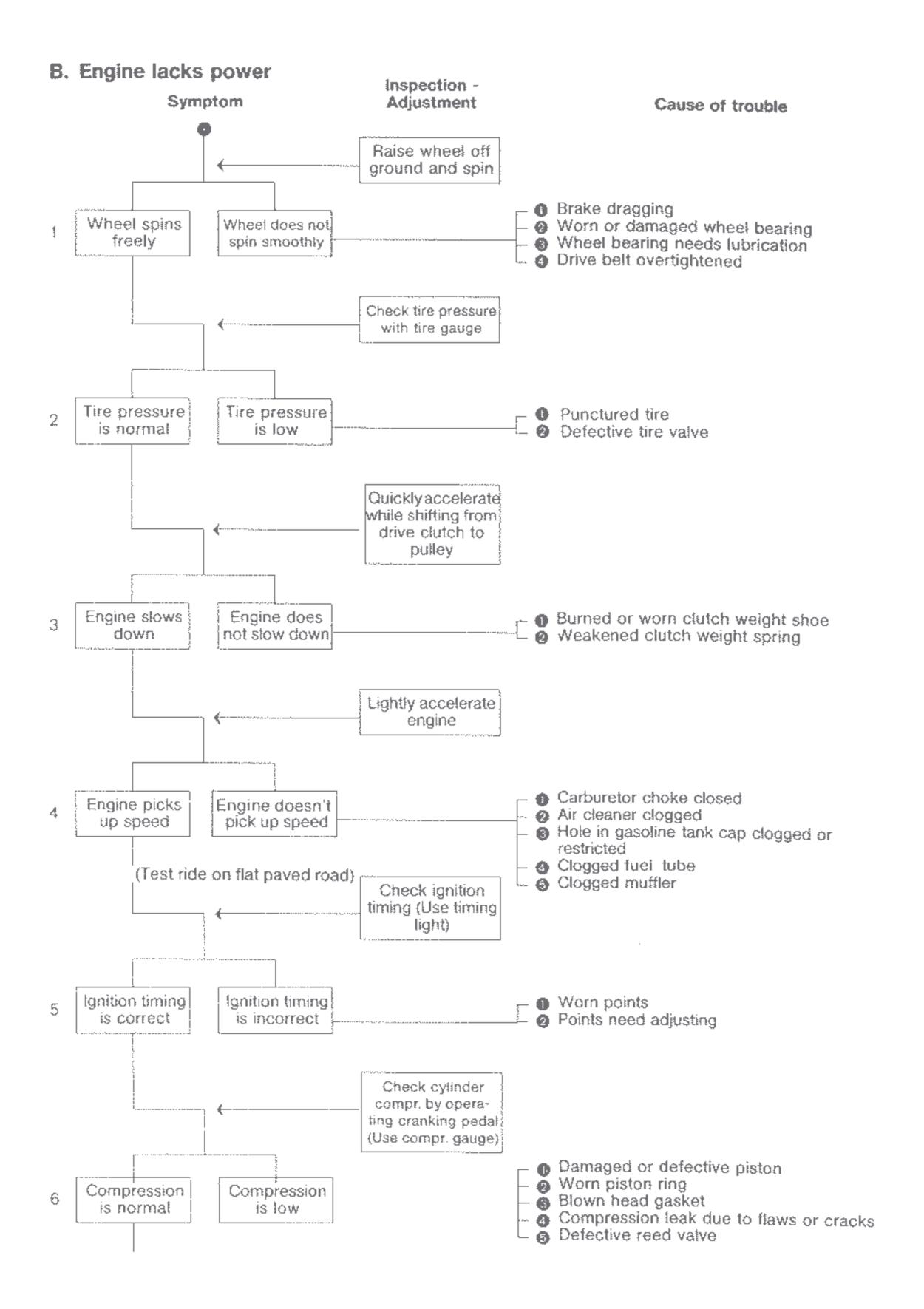






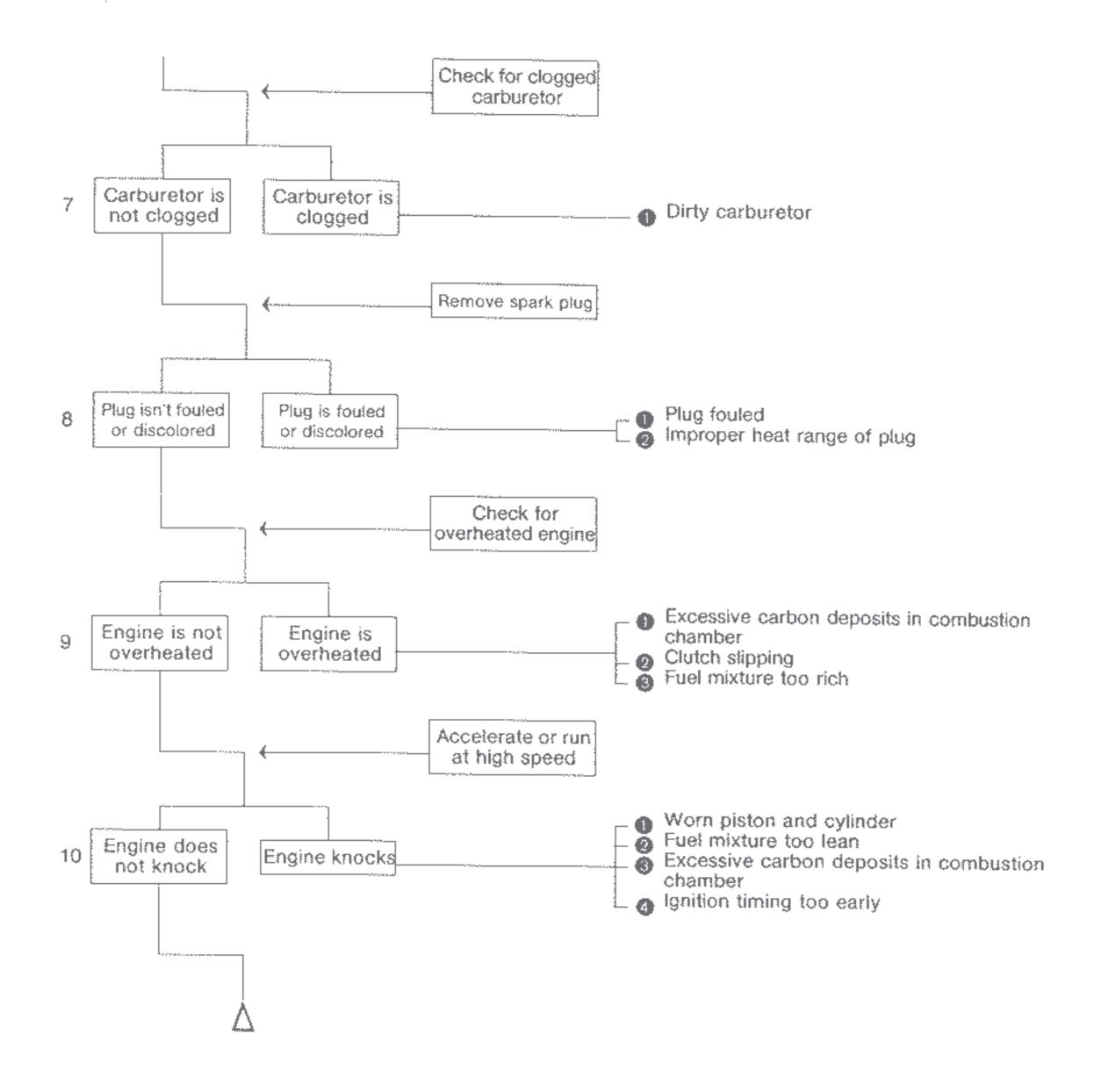






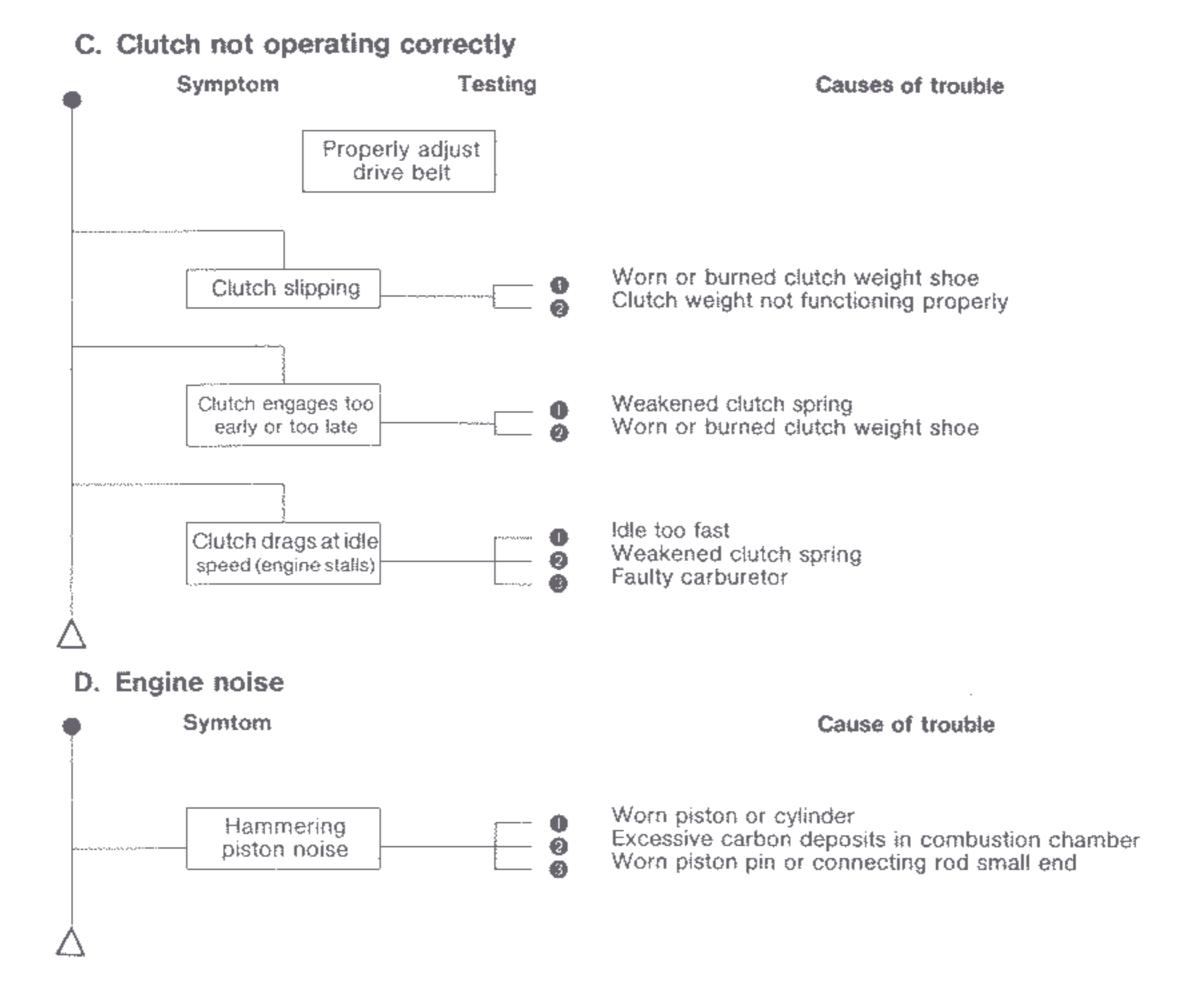












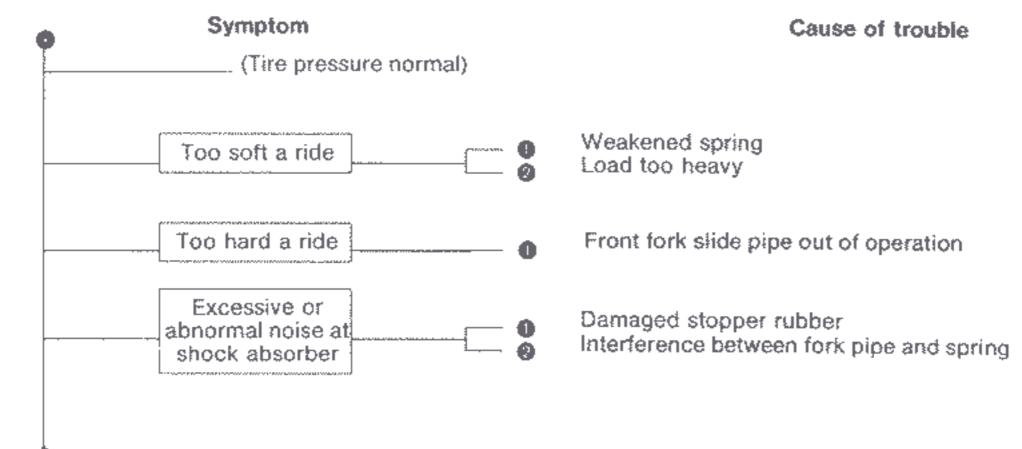




#### 6. TROUBLE SHOOTING

#### E. Motorcycle pulls to one side **Symptom** Cause of trouble (Both tire pressures normal) Steering stem cone races over-tightened Broken radial balls bearing Steering heavy Bent steering stem Excessive rattle in wheel bearing Deformed rim Front or rear wheel Loose spokes excessively wobbling Worn rear fork pivot bushing Bent frame Uneven adjustment of right and left schock absorbers (front or rear) Pulling to one side Front and rear wheels out of alignment Bent front fork Bent rear fork

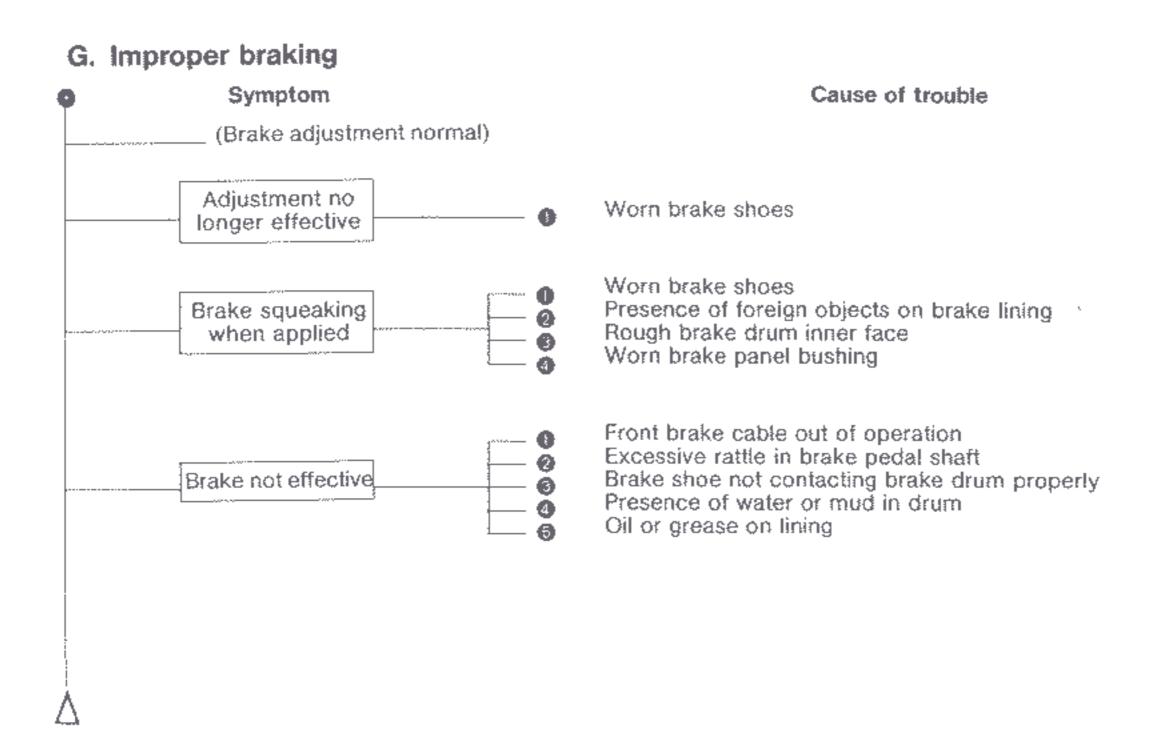
## F. Improper front/rear shock absorber







#### 6 TROUBLE SHOOTING







### 7. Maintenance schedule

MAINTENANCE SCHEDULE  This maintenance schedule is based upon average riding conditions. Machines subjected to severe use, or ridden in unusually dusty areas, require more frequent servicing.	Pre-riding inspection	Initial safety inspection	Regular service period Perform at every indica- ted month or mileage interval, whichever oc- curs first.	
		1 month 300 miles	12 months 600 miles	24 months- 2,000 miles
* Sparking plug			R	
* Contact breaker points		1	l	
* Ignition timing		l	l	
* Air filter element		(Every 6)	months) C	
* Carburetor			I	
Throttle operation	1			
* Fuel filter screen		С	¢	
Fuel level	I			
Fuel lines				
* Clutch shoes				1
* Decarbonize cylinder and muffler				С
* V-belt and pedal chain		I		
* Brake linings			[	
* Brake operation and free play	ı			
Tires and pressure				
* Wheel trueness and spokes		l		
* Front and rear suspension				L
All lights and horn	I			
* Nuts, bolts (tighten)				
* Slide pipes				£

<sup>1 -</sup> Inspect, clean, adjust or replace if necessary

- R Replace C Clean
- L Lubricate

Items marked\* should be serviced by an authorized Honda dealer, unless the owner has proper tools and is mechanically proficient. Other maintenance items may be serviced by the owner.





### 4. INSPECTION/ADJUSTEMENT

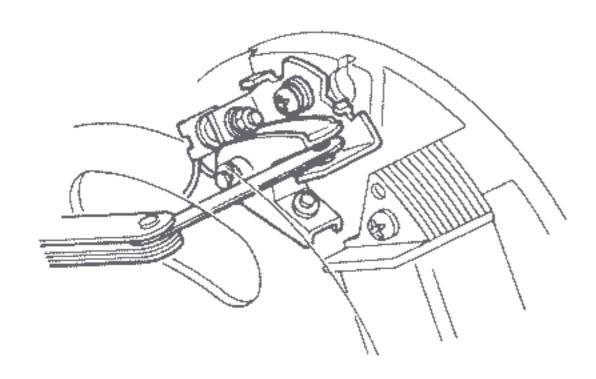
1.	Contact breaker point/Ignition timing	3
2.	Spark plug	3
3.	Air cleaner element	3
4.	Drive belt	4
5.	Drive chain	4
5.	Seat	4
7,	Brake	4





### 1. Contact breaker point gap / Ignition timing

Remove the generator cover.

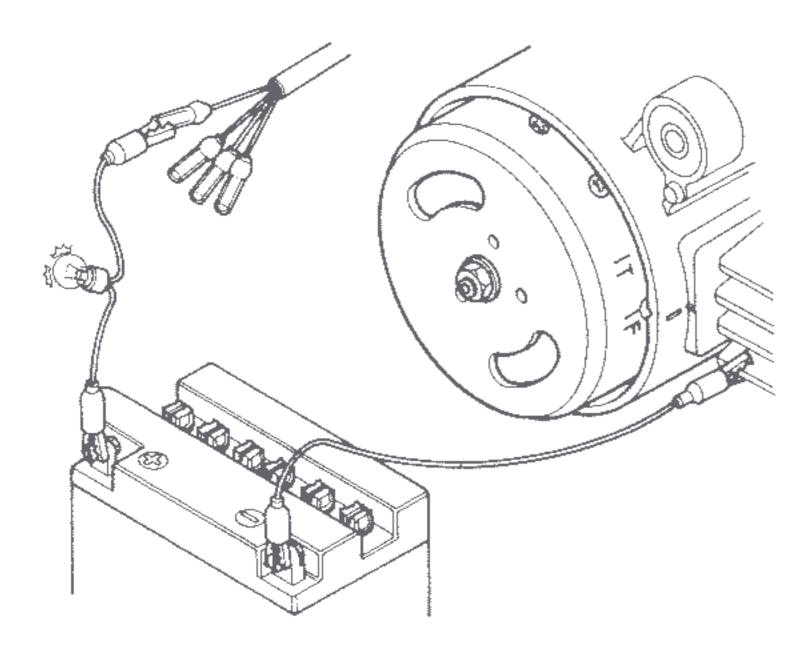


- ① Insert a thickness gauge through the rotor hole
- 2 Check point gap

point gap 0.3 - 0.4 mm

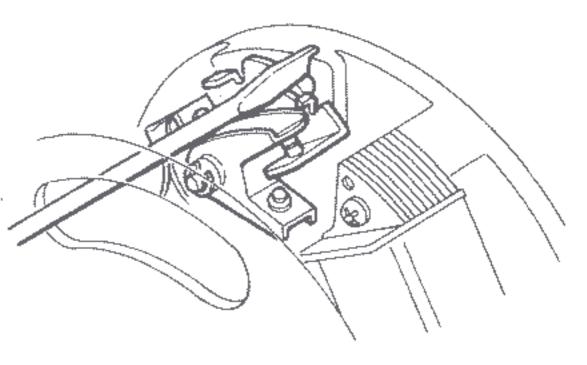
Replace if beyond specifications.

Ignition timing with a testlamp



- ① Turn the flywheel clockwise until the 'F" mark aligns with the index mark.
  - Timing is correct if the lamp dims when the marks align.

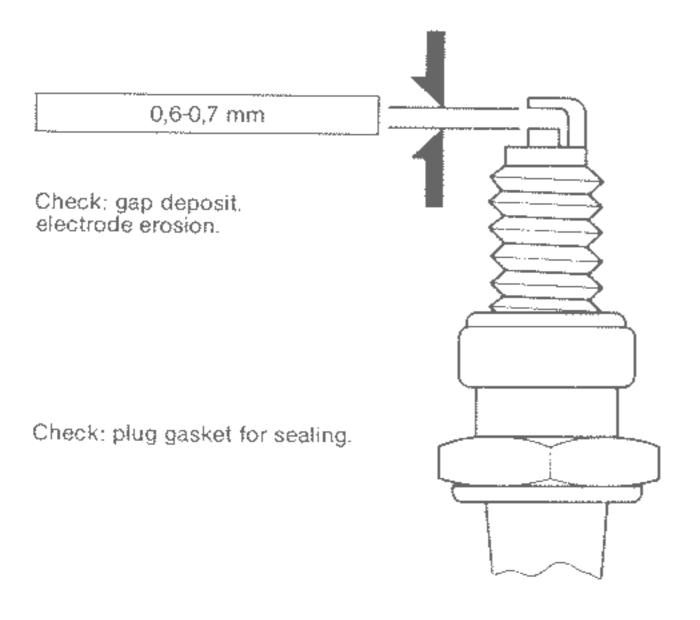
① To adjust, loosen the locking screw and move the contact braker plate to obtain the correct ignition timing when the lamp dims with the marks aligned. Recheck point gap. If the gap is more than 0,4 mm, the points should be replaced.







## 2. Spark Plug



Always use specified spark plug BPR-6HS (NGK) W 20 FPR (ND)

A spark plug with burned electrodes or a damaged gasket should be replaced.

## 3. Carburetor

Engine idle adjustment,

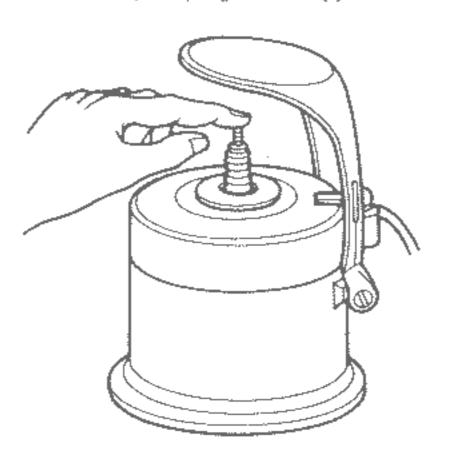
Start and warm up the engine for a few minutes

- Turn the throttle stop screw to the lowest idle speed.

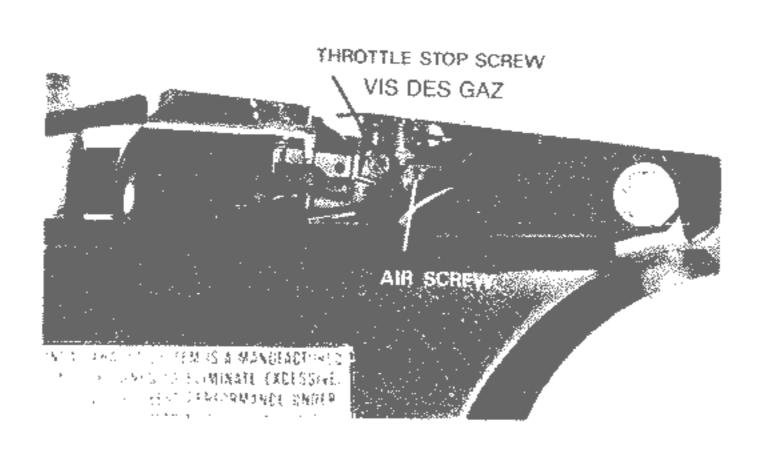
  Turn the air screw in or out to find the highest idle speed.

  Set the engine at the idle speed by turning the throttle stop screw.

Spark plug cleaner (1)



Idle speed: 1.500 RPM



700

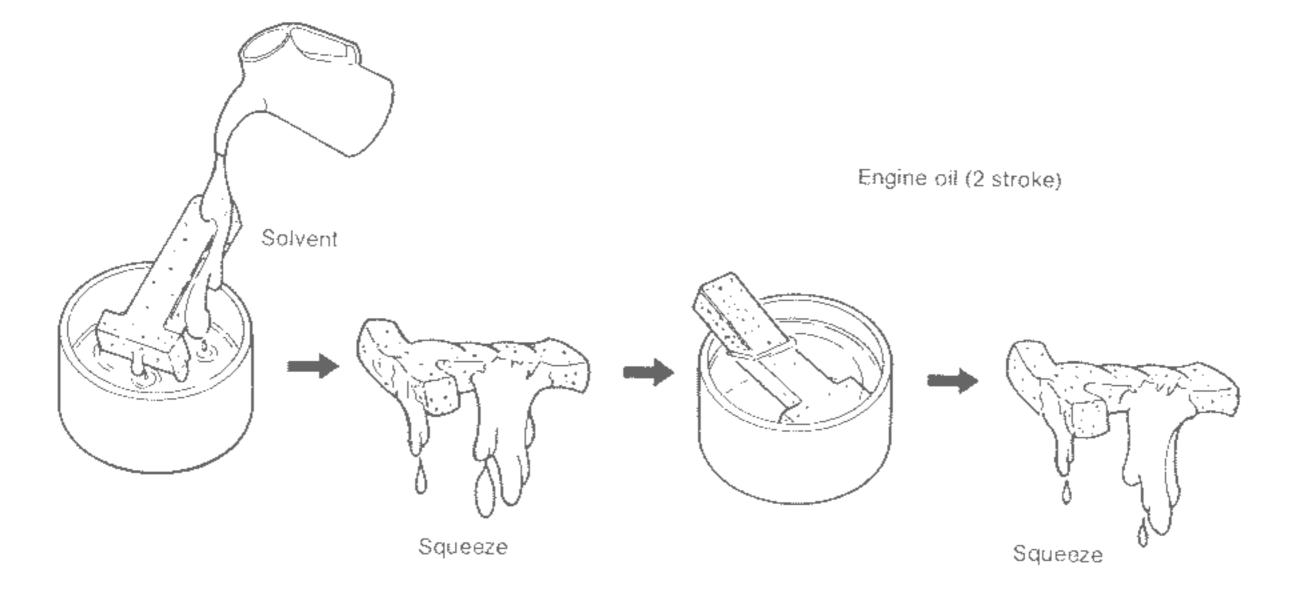




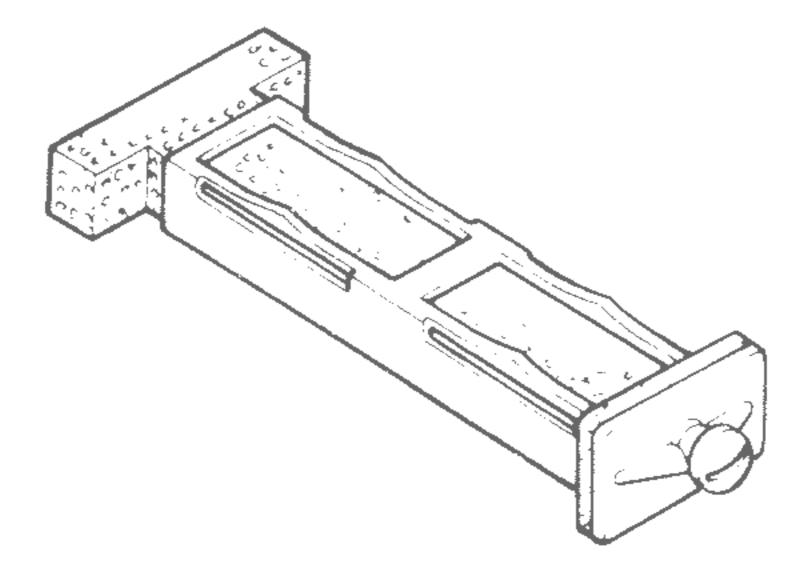
#### 3. Air cleaner element

- Remove the drive belt cover.
- 2 Release the air cleaner case retaining clip and pull the air cleaner case out.
- 3 Remove the air cleaner element from air cleaner case.
- Wash the element in solvent and allow to dry thoroughly. Soak the element in clean gear oil, until saturated, then sqeeze out excess oil.





Reinstall the aircleaner element into the case.



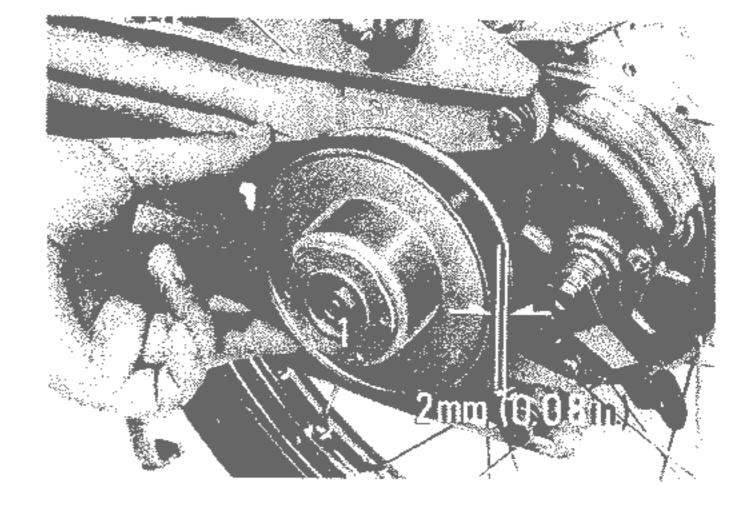




#### 4. Drive belt

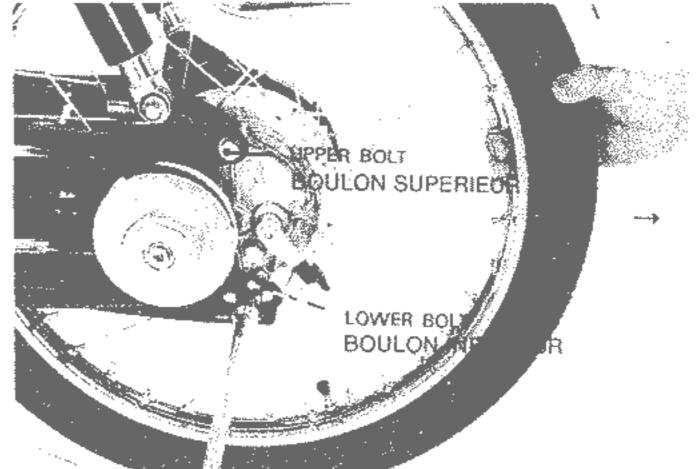
- ① Remove the drive belt cover and chain cover.
- 2 Loosen the four rear fork bolts.
- Adjust the drive belt so that the distance between the belt face and driven pulley outside diameter is 2 mm when pressure is applied widway between pulleys.

  • Move the wheel backward and tighten the bolts in the
- following order.

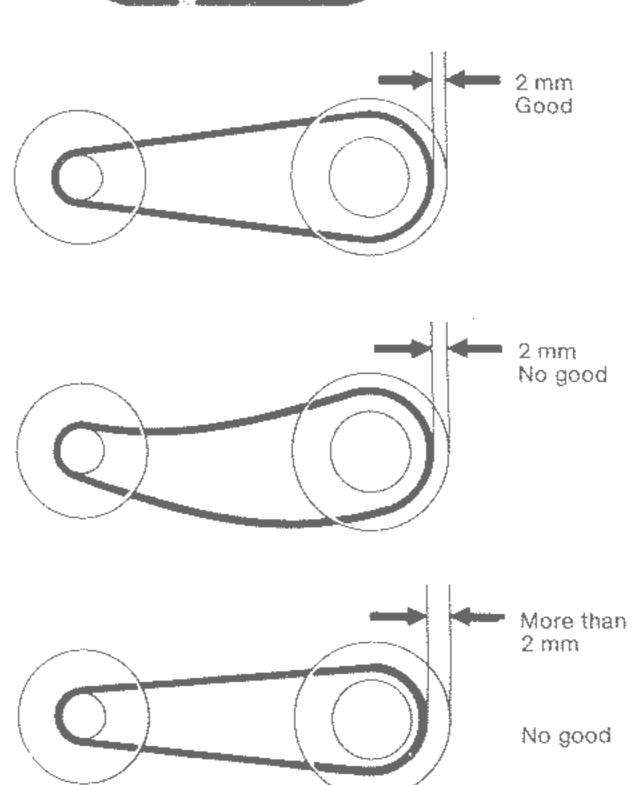


#### NOTE:

The right and left lower bolts should be aligned with the same notches in the side scales on the rear fork.



- S Operate the pedal several times and make sure that the belt is at "Low" and distance between the belt face and the driven pulley outside diameter is 2 mm.
- Start the engine and make sure that the belt does not slip on the pulleys at stall revolution.







### 5. Drive chain

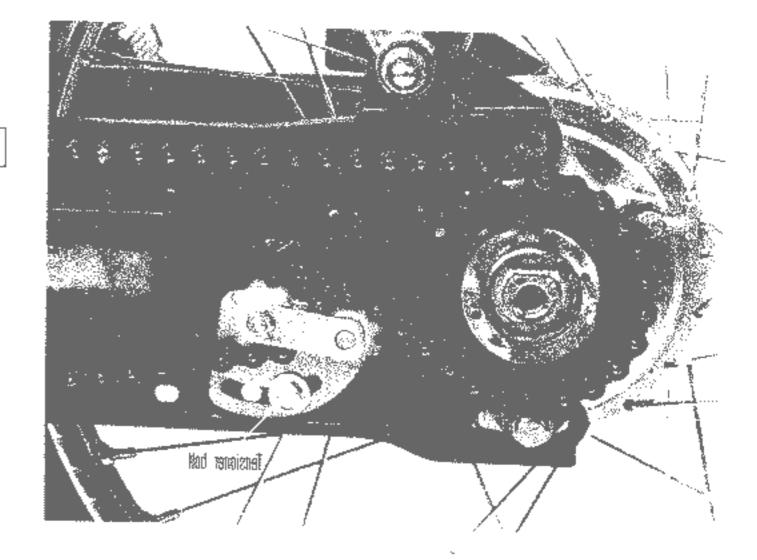
o Remove the chain cover.

2 Loosen the tensionner bolts and adjust the drive chain.

Chain slack	5-10 mm

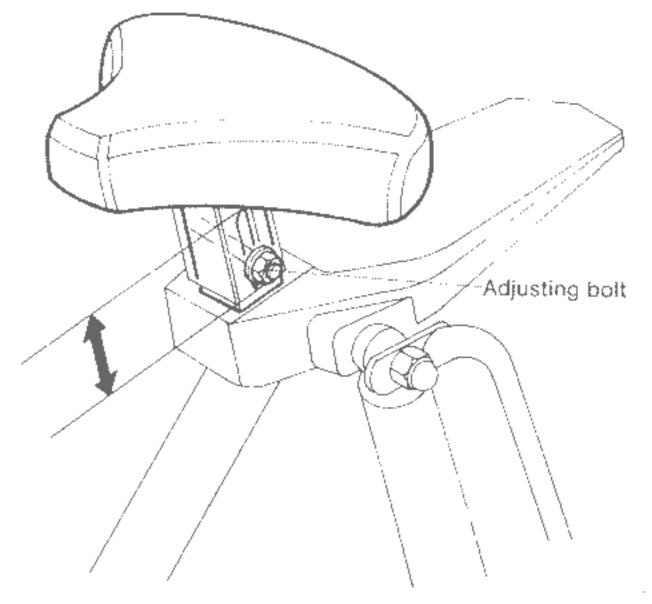
#### NOTE:

Adjust the drive chain tension after drive belt adjustment.

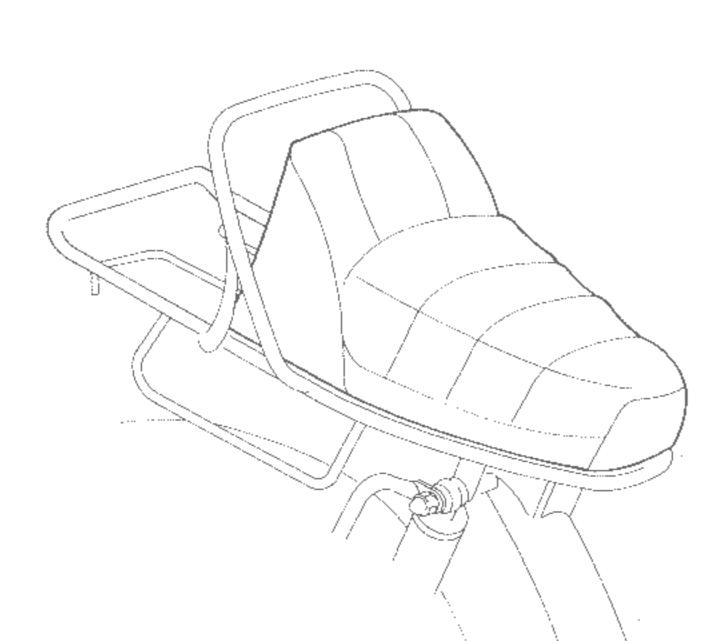


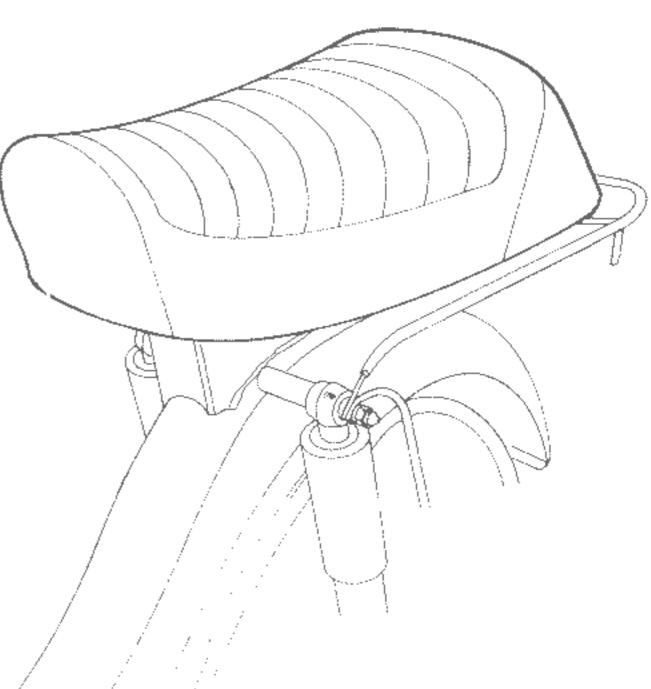
## 6. Seat

Loosen the adjusting bolt.
 Adjust the seat to a suitable leight and secure with the adjusting bolt.



No adjustment possible.





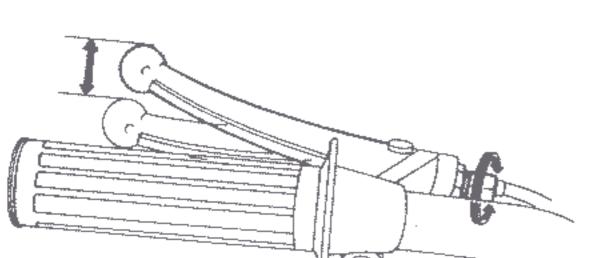




### 7. Brakes

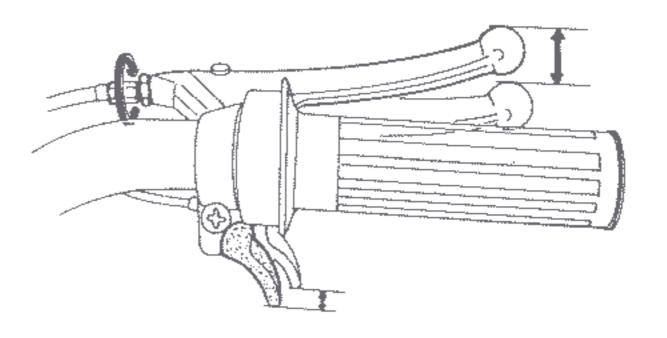
Brake lever adjustment. Check brake lever free play at lever tip. If out of specifications, adjust by turning adjusting nut.

Rear



Front brake lever play (1) 10-15 mm

Front



Rear brake lever play (2) 10-15 mm

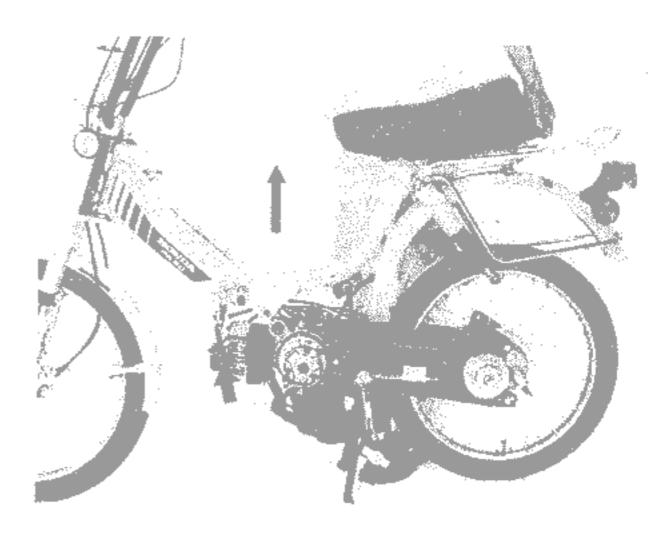


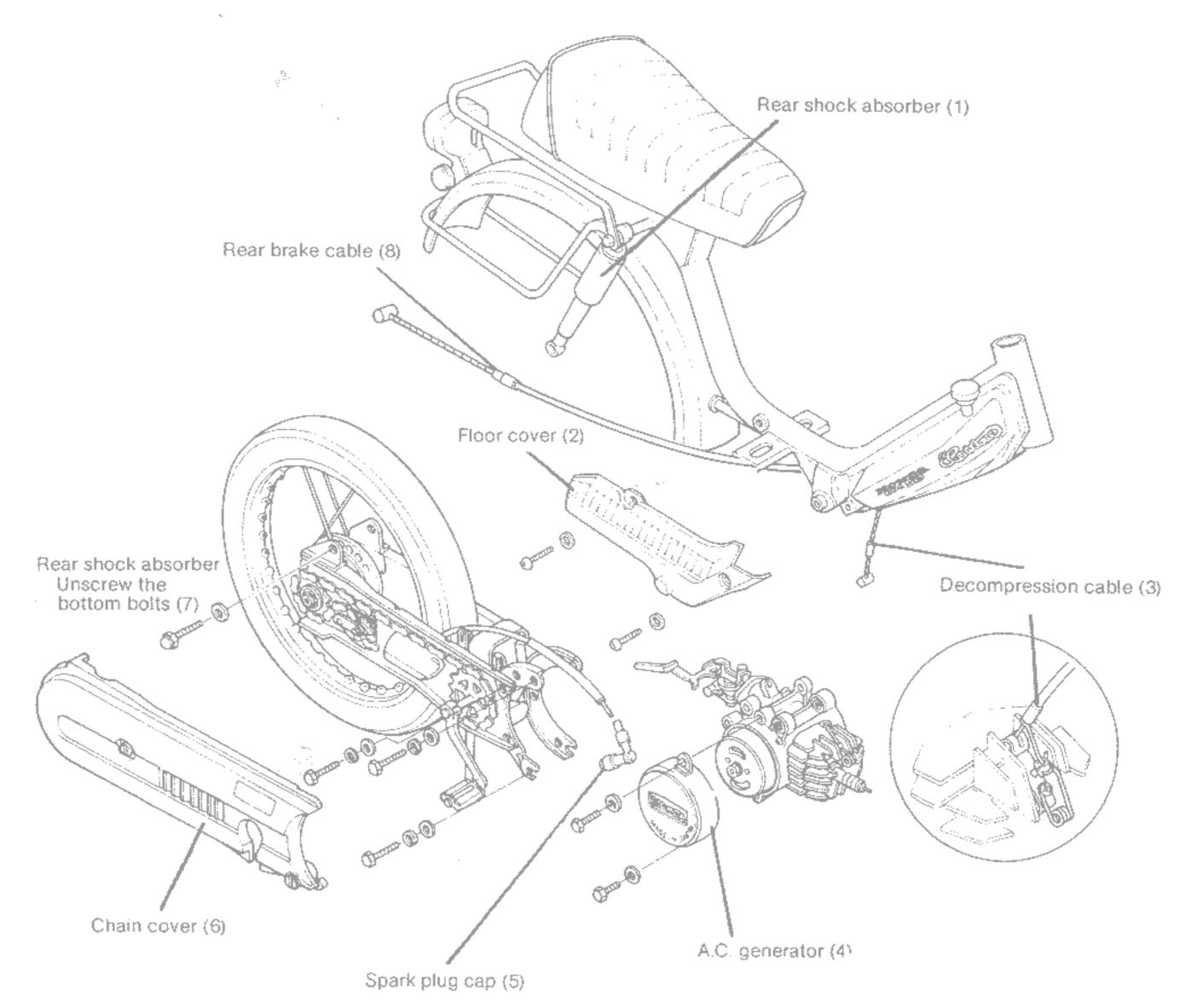


# 5. ENGINE REMOVAL / INSTALLATION

REMOVE THE FRAME BODY FROM THE ENGINE IN THE FOLLOWING ORDER.

- © Remove the floor cover (L/R)
- 2. Remove the chain and belt covers
- 3 Turn the fuel valve lever to "Off" and disconnect the fuel hose.
- Disconnect the lead connectors.
- Disconnect the decompression cable.
- Disconnect the plug cable
  Disconnect the throttle cable.
- ® Remove the rear brake cable end.
- Remove the rear shock absorber bottom bolts.
- Remove the engine hanger bolt



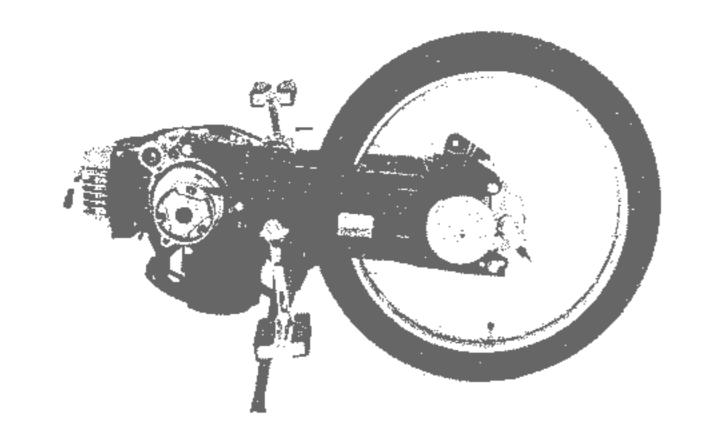


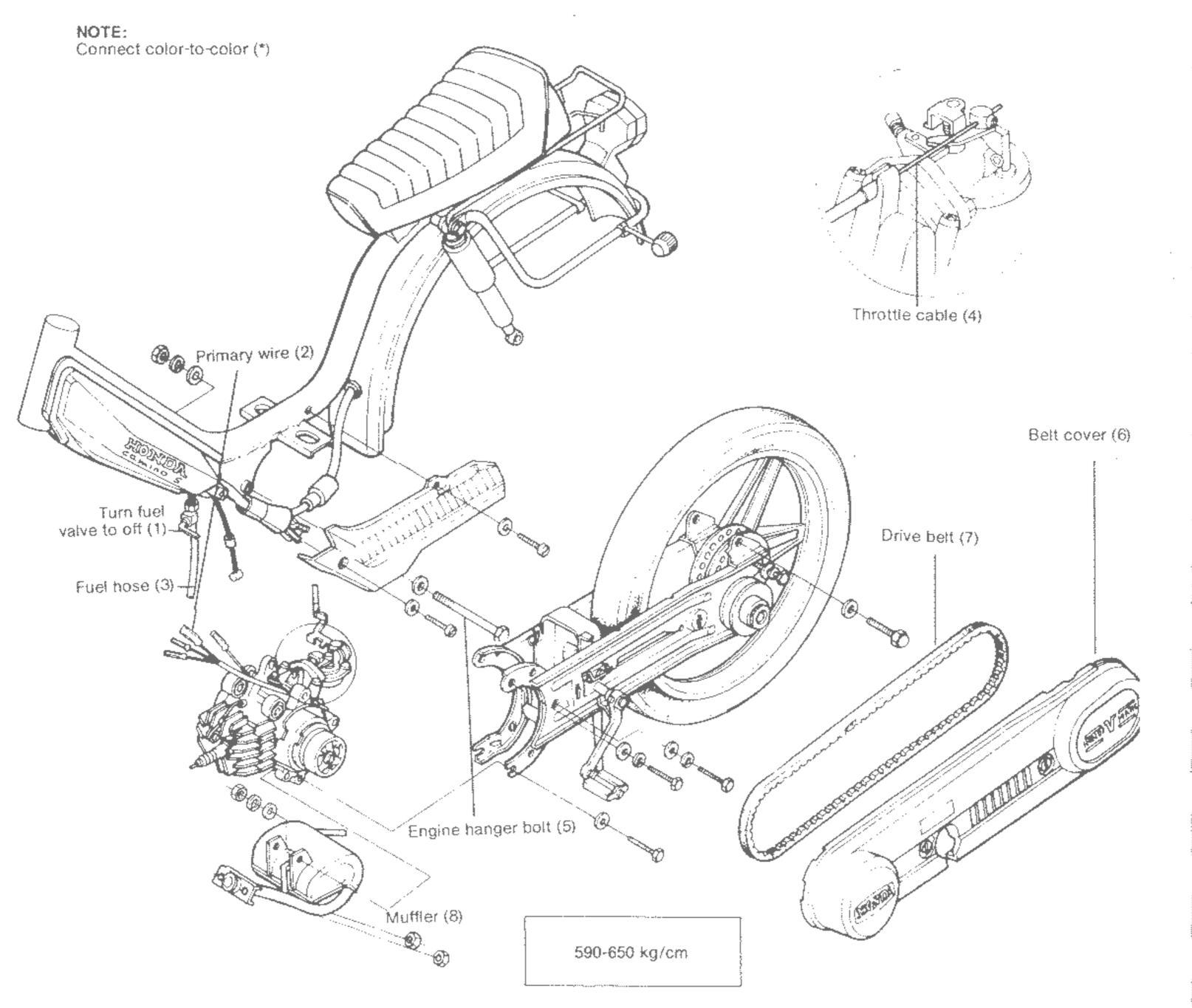




• PULL THE ENGINE FORWARD AND AWAY FROM THE REAR FORK IN THE FOLLOWING ORDER.

- Loosen the four rear fork bolts and move the rear wheel forward
- 2: Remove the drive belt
- @ Remove the muffler
- Remove the engine mounting bolts









# 6. CYLINDER HEAD / CYLINDER / PISTON

A.	Trouble shooting	45
D.	Disassembly / Assembly	47
D.	Inspection	48
₽.	Testing compression	51

# A. Trouble shooting

Symptom	Probable cause
No or loss of compression	Poorly tightened spark plug Blown cylinder head gasket Worn or seized piston rings Damaged cylinder or piston Defective reed valve Decompression valve not seating correctly
Overheating	Excessive carbon in combustion chamber Excessive carbon on piston or piston rings
Piston clearance	Worn cylinder wall Worn cylinder or piston Worn piston pin Worn connecting rod big end bearing
Excessive smoke	Worn or seized piston rings Excessive carbon in combustion chamber Worn cylinder or piston
Excessive compression	Excessive carbon in combustion chamber Excessive carbon on piston or piston rings



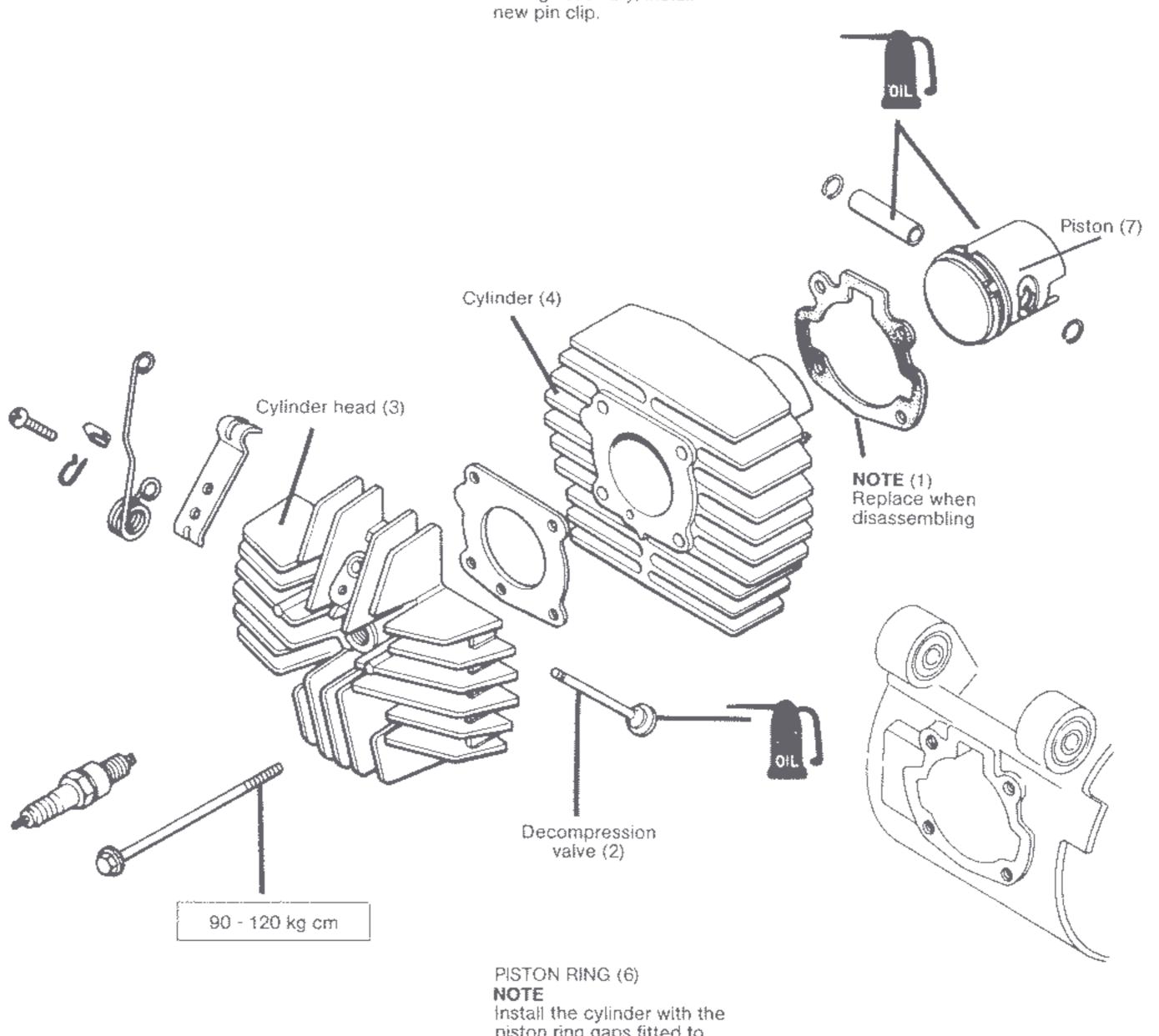


#### Removal/Installation

- Disconect the decompression cable and plug cap at the cilinder head.
  Remove the two 6 mm nuts, loosen the two lower engine mounting bolts, and remove the muffler.

NOTE: Set the shift lever to pedal driving position

PISTON PIN CLIP (5) Note During assembly, install



piston ring gaps fitted to

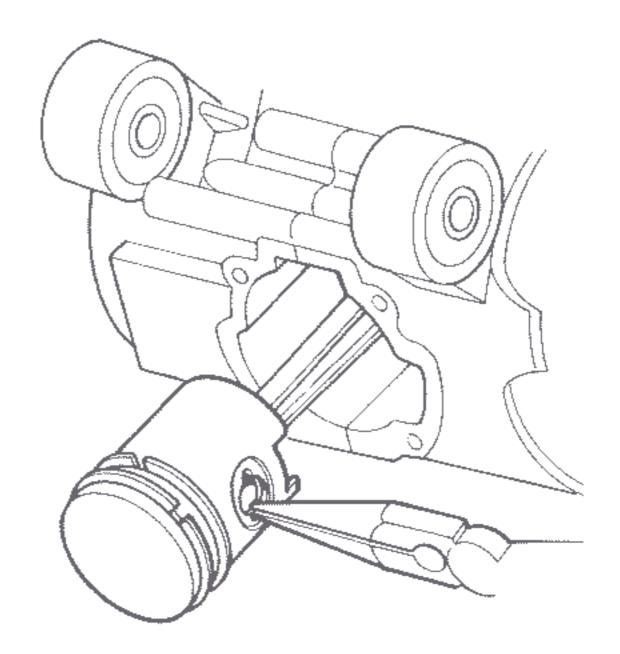
the piston ring dowels





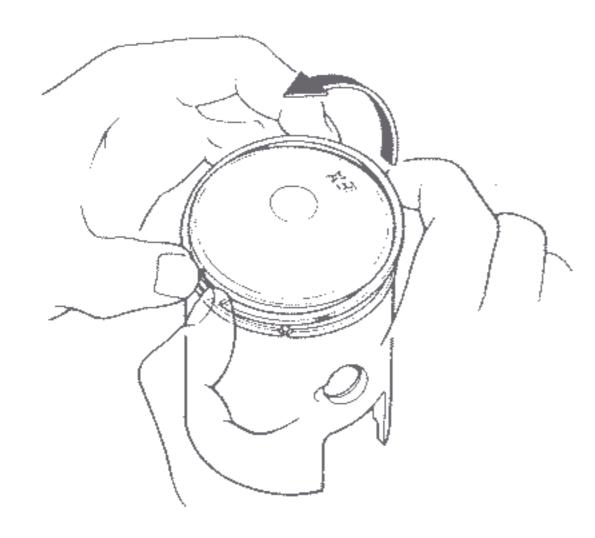
# B. Diassembly/Assembly

Install piston pin with the "EX" facing the EXHAUST PORT



NOTE: Avoid scoring or scratching the piston

### Piston Ring DISASSEMBLY/ASSEMBLY



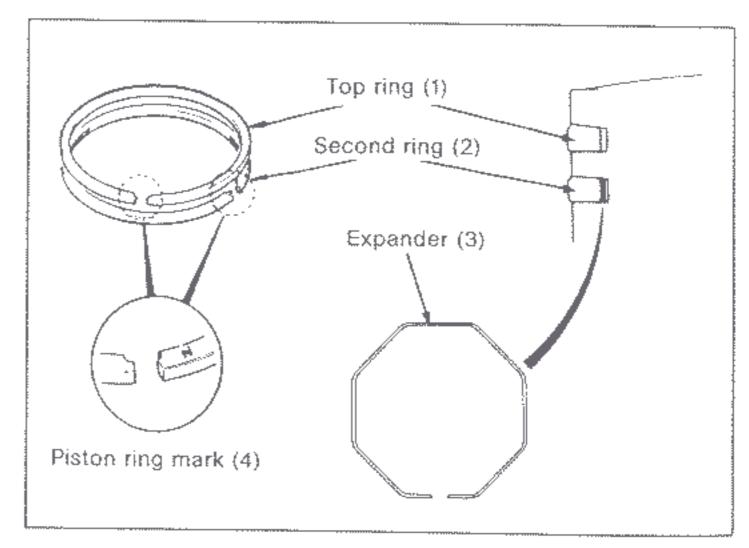
Always remove piston ring by lifting in the direction of the arrow.

Do not damage the piston rings

#### ASSEMBLY

Install the piston rings with their markings facing up. When replacing the rings, en sure that the proper rings are installed

N: Nippon T: Teikoku 1 = 1N or 1T 2 = 2N or 2T



## NOTE:

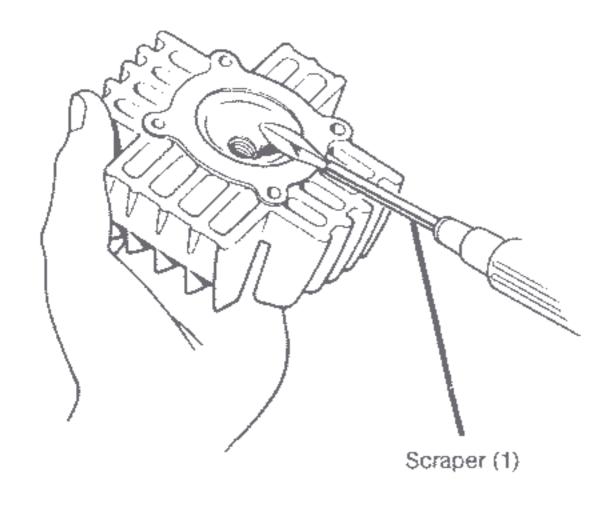
Do not mix the top and second ring. Use the piston rings of the same manufacturer in a set.



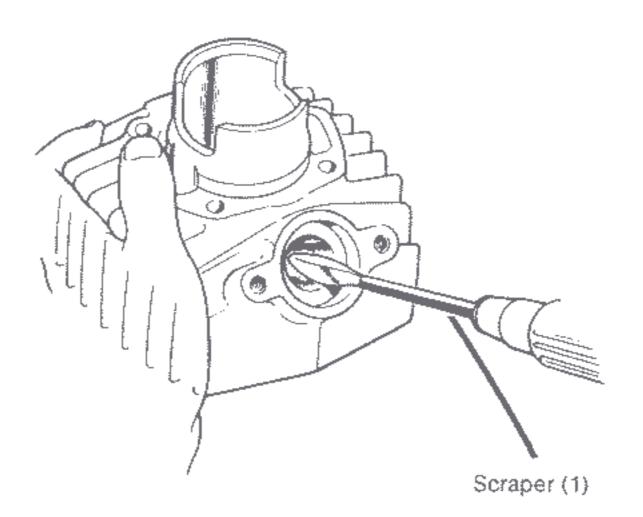


## C. Inspection

Cylinder head DECARBONIZING



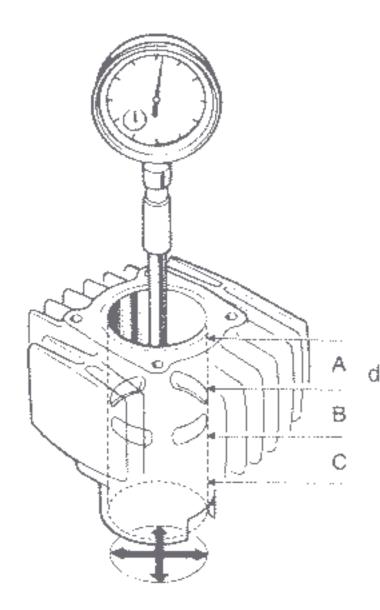
(Exhaust port, DECARBONIZING)



Avoid scratching side surface, clean after decarbonizing

Clean after decarbonizing

#### Cylinder I.D.



Take smallest diameter reading

### Measure in all three positions shown

	Standard	Service limit
Α	40.000 - 40.020	40.05 mm
В	40.000 - 40.020	40.05 mm
С	40.000 - 40.020	40.05 mm

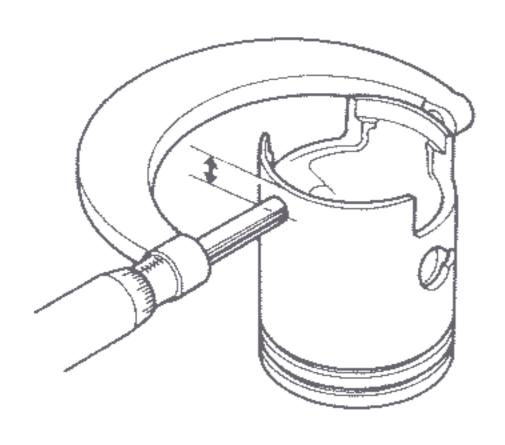
### Measure positions as below

Position	Distance from face of gasket
Α	0.35 mm
В	35 - 75 mm
С	75 - 88 mm





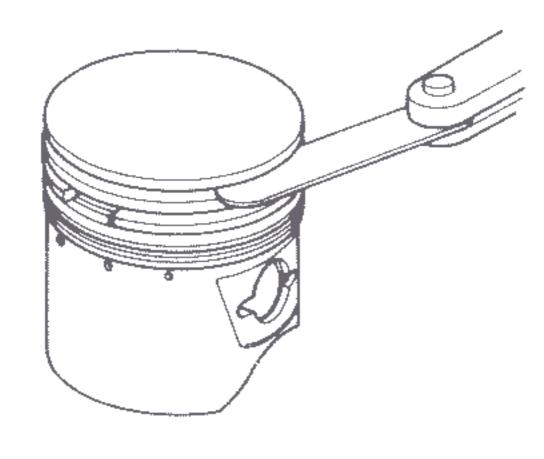
• Piston skirt Q.D.



Standard	Service Limit
39.955 - 39.975	39.85 mm

Measurement should be taken at a point 4 mm from bottom

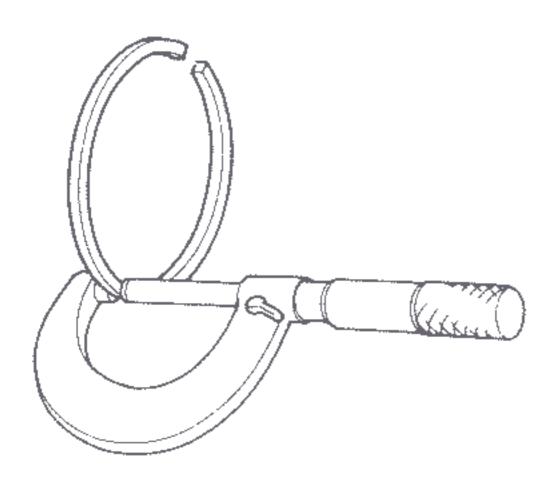
• Piston Ring side Clearance



#### 2nd Rings

Standard	Service Limit
0.025 - 0.055	0.1 mm

Piston Ring Thickness

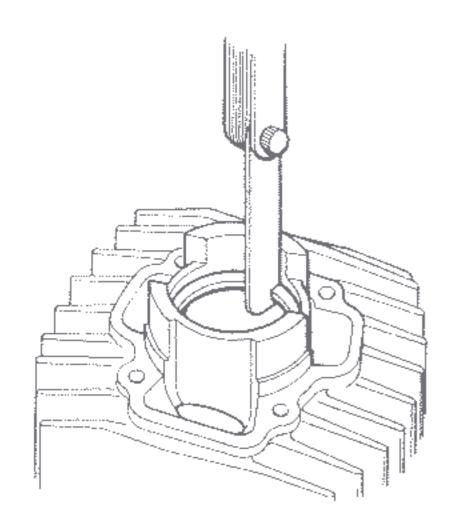


	Standard	Service Limit
2nd	1.4975 - 1.499	1.43 mm





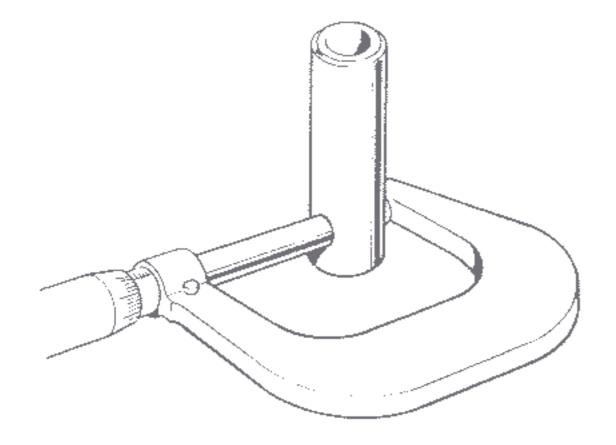
## Piston Ring end Gap



### Both Top/2nd Rings

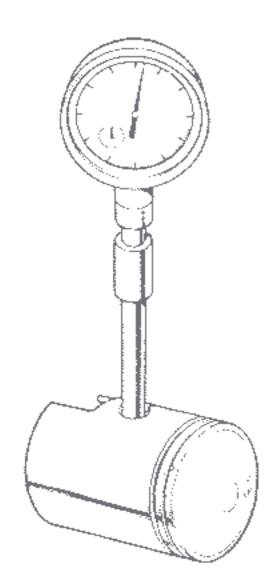
Standard	Service Limit
0.15 - 0.35	0.6 mm

#### • Piston Pin O.D.



Standard	Service Limit
9.994 - 10.000	9.97 mm

#### Piston Pin Hole I.D.



Standard	Service Limit
10.002 - 10.008	10.03 mm



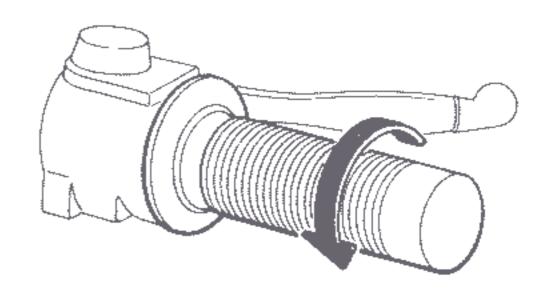


## D. Compression

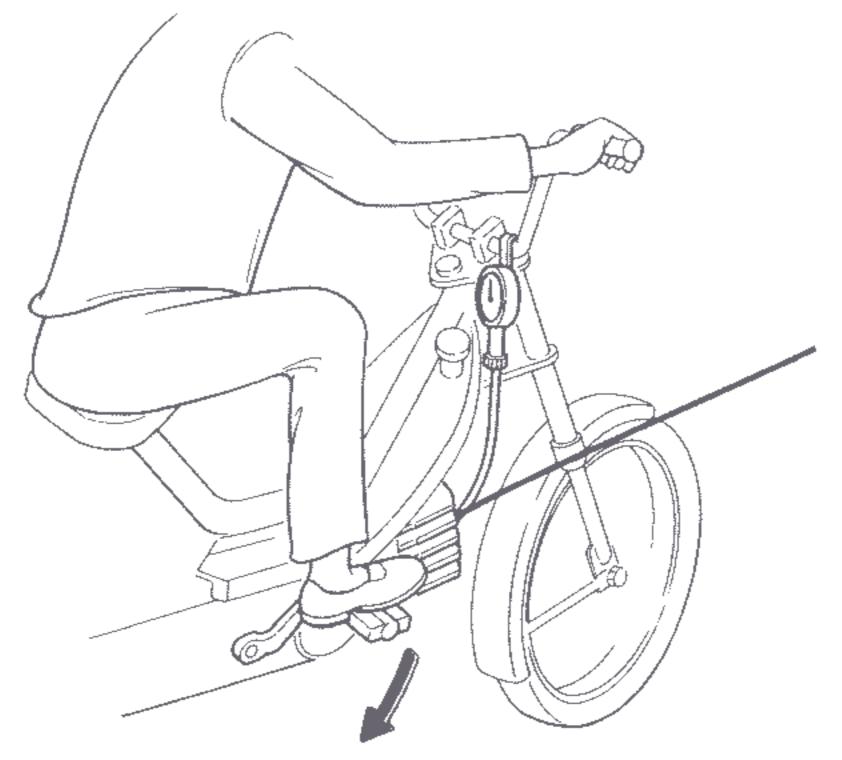
- ① Warm up the engine until normal operating temperature is reached
- 2 Remove the spark plug
- 3 Set compression gauge in the spark plug hole
- @ Turn the throttle grip fully open
- © Crank the pedals until the gauge needle reaches the highest point

 7010
Compression
 •
8 - 12 kg cm <sup>2</sup>
 -

Throttle grip (1)



Fully open (2)



## NOTE

Tighten securely to prevent leaks



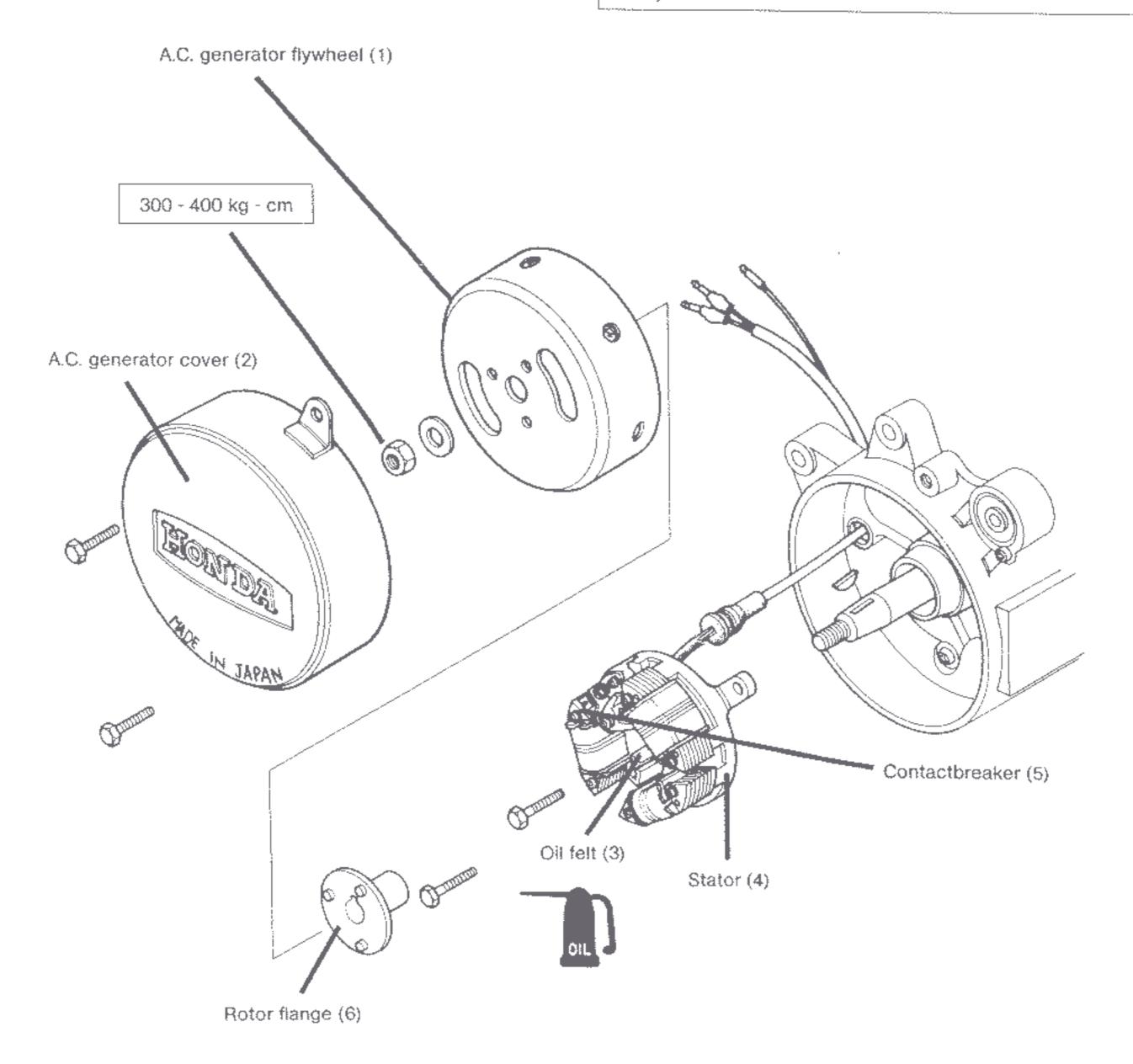


#### 7. A.C. GENERATOR

## A. Disassembly/Assembly

- 3 Remove the right floor cover
- ? Remove the chain cover

During assembly and installation, make sure that no foreign particles have adhered tot the magnet inside of the flywheel.



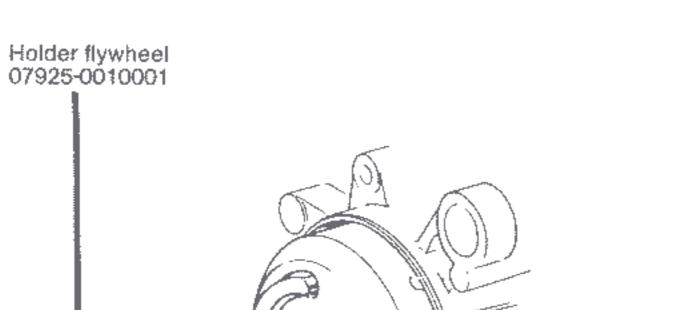
#### NOTE:

Prior to installation, route the A.C. generator cable trough the hole in the case

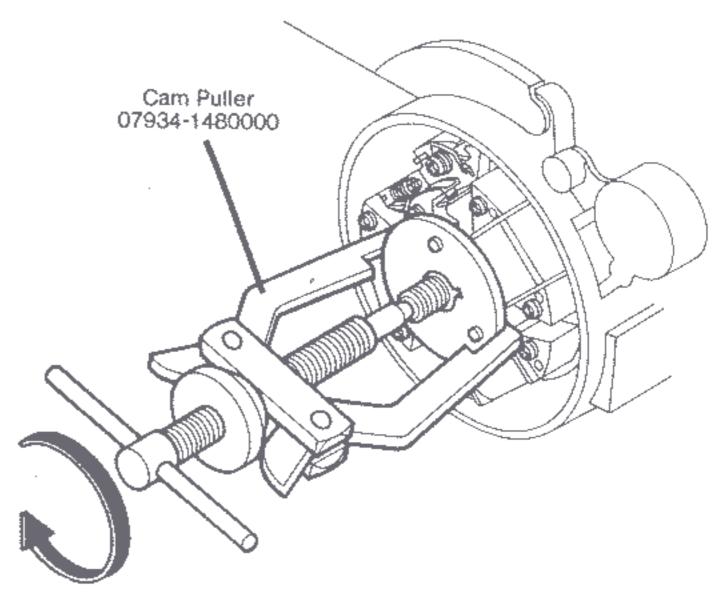




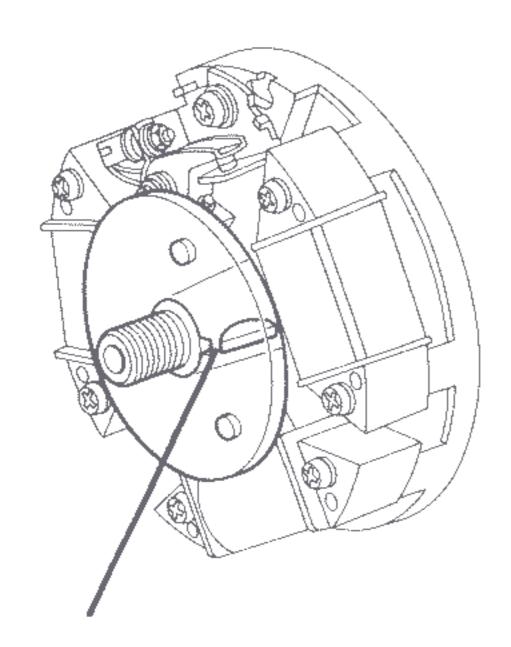
Flywheel Disassembly/Assembly



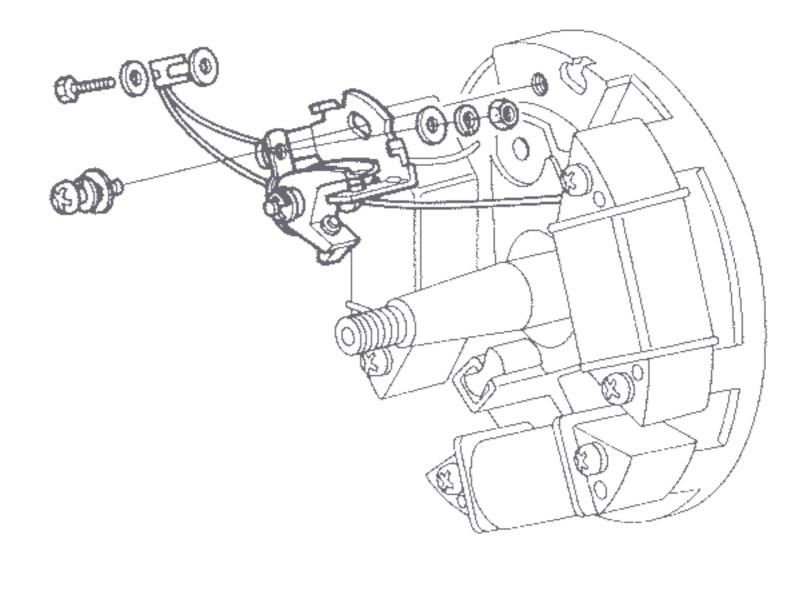
Rotor Flange Disassembly



Rotor Flange installation



Contact Breaker Disassembly



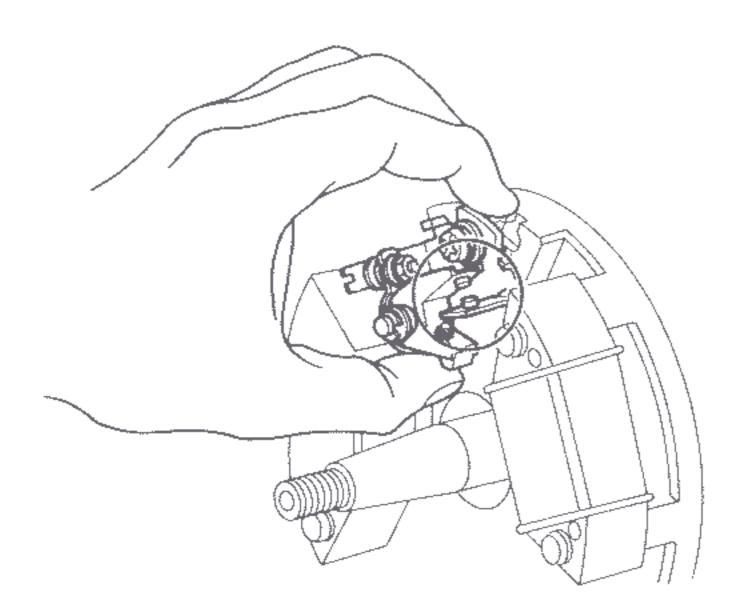
Align the key with the keyway





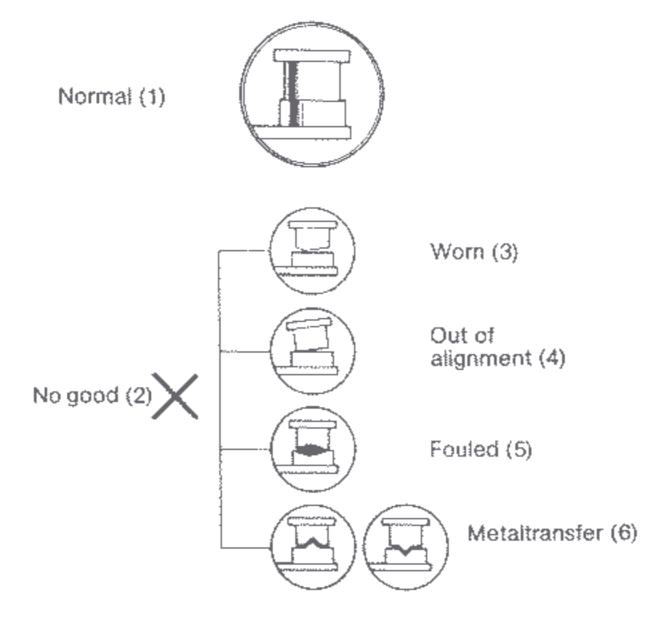
## B. Inspection

Contact breaker point



Point gap

standard; 0,3 - 0,4 mm







# 8. DRIVE PULLEY/CLUTCH/DRIVEN PULLEY

A.	Trouble shooting	55
D.	Disassembly/Assembly	56
<b>.</b>	Inspection	60

## A. Trouble shooting

Symptom	Probable cause
Power not transmitted to the rear wheel	Worn damaged drive clutch linings
Poor performances at high speed	Worn weight sleeve. Deffective movable drive face
Lack of power	Defective torque of driven pulley



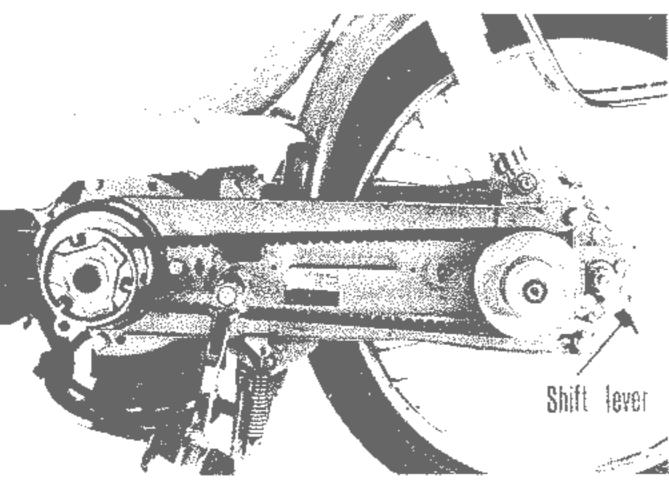


### B. Disassembly/Assembly

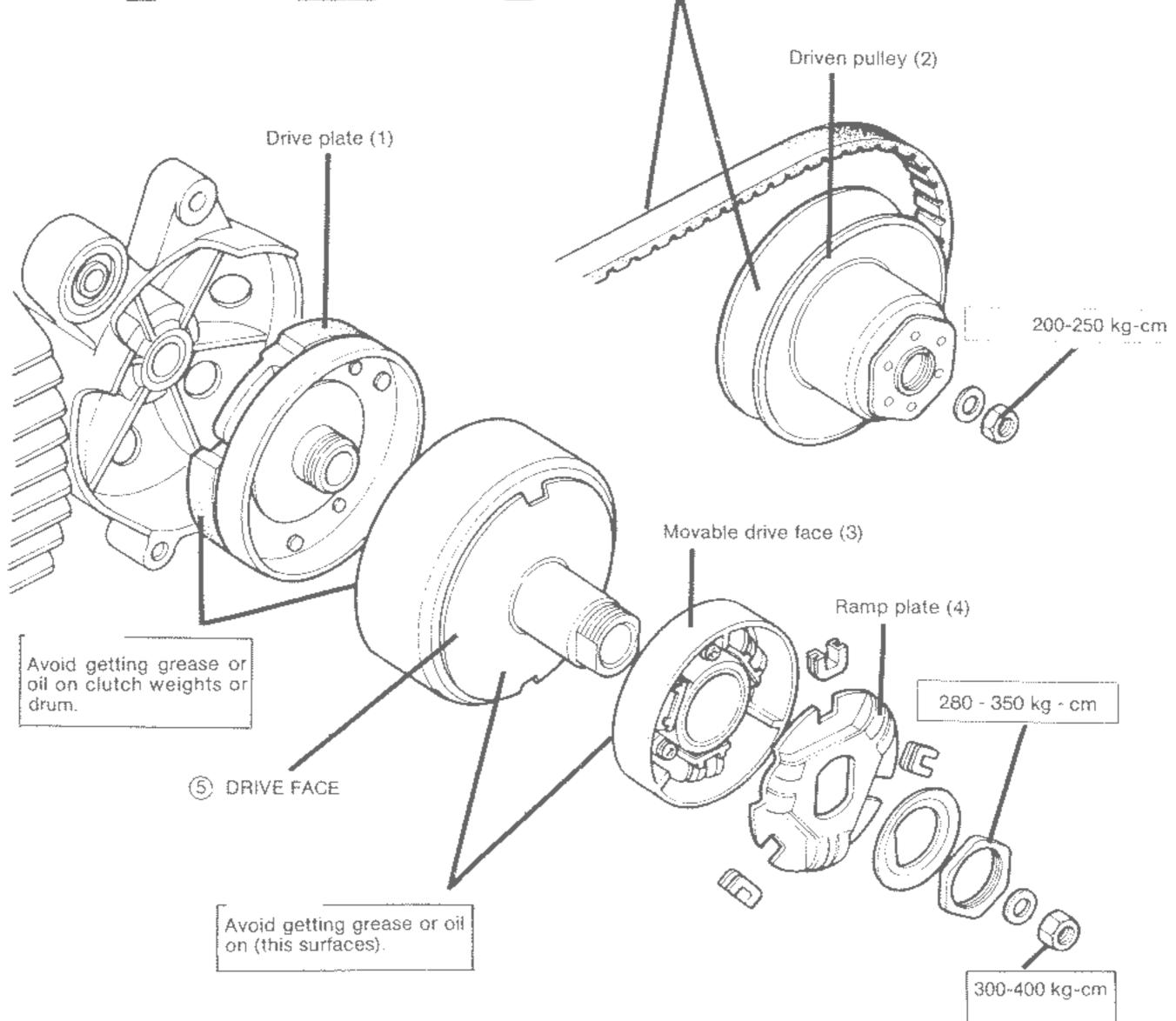
Set the shift lever at pedal drive position

- Remove the drive belt cover.
- 3 Remove the drive belt cover

Never start the engine with the drive pulley removed. The crankcase will be scratched by the centrifugal drive clutch weights



Avoid getting grease or oil on belt or pulley surfaces



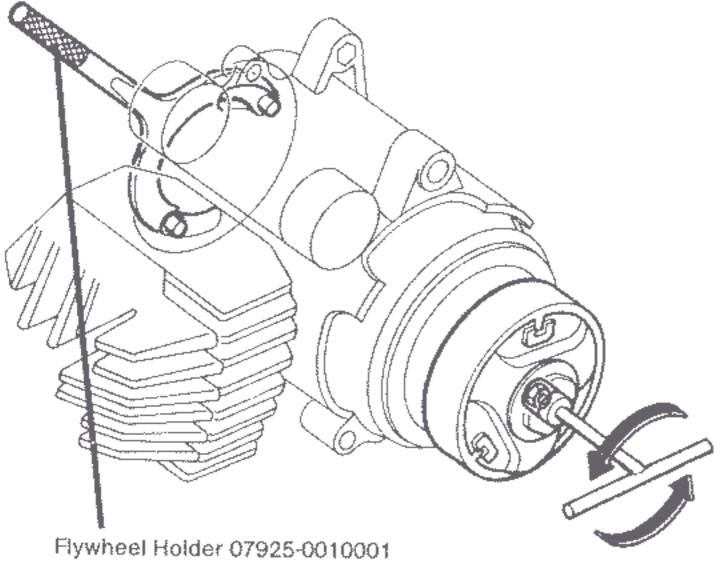


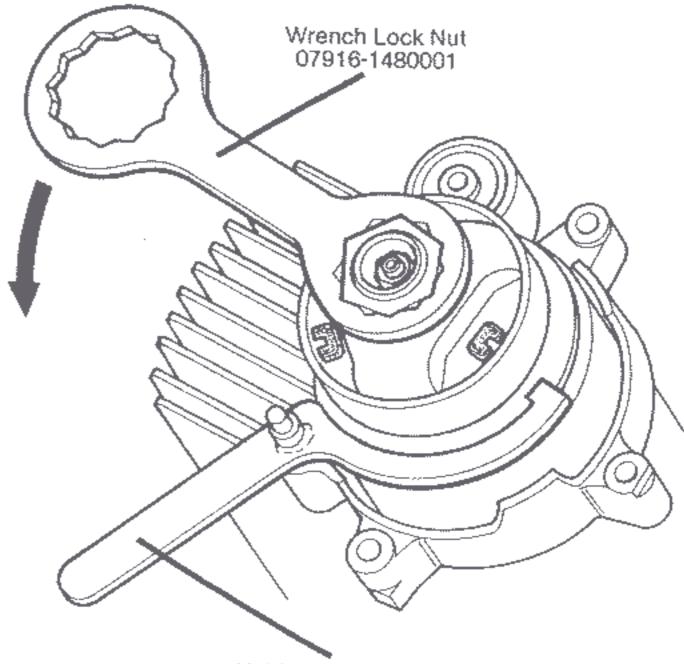


## Disassembly/Assembly

Drive pulley attaching nut

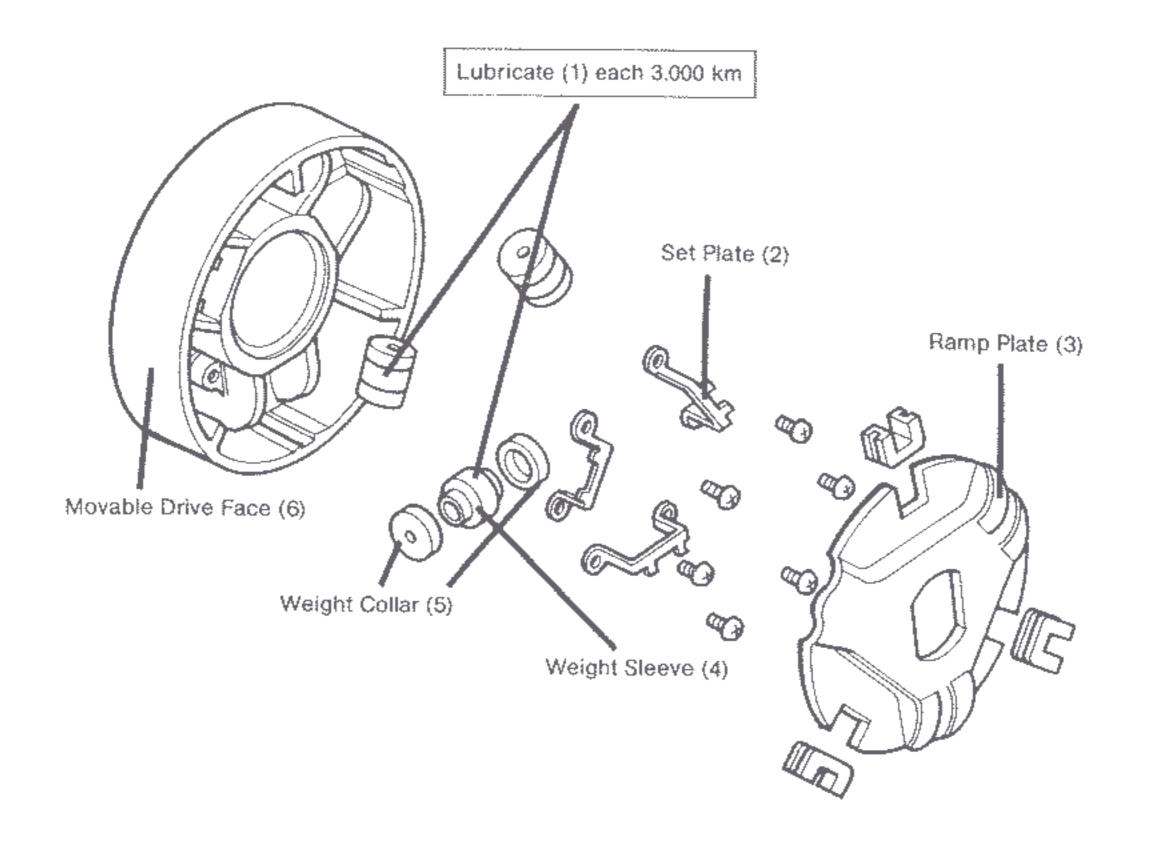
Drive face securing nut





Movable drive face/Ramp plate

Holder Drive Pully 07902-1480000

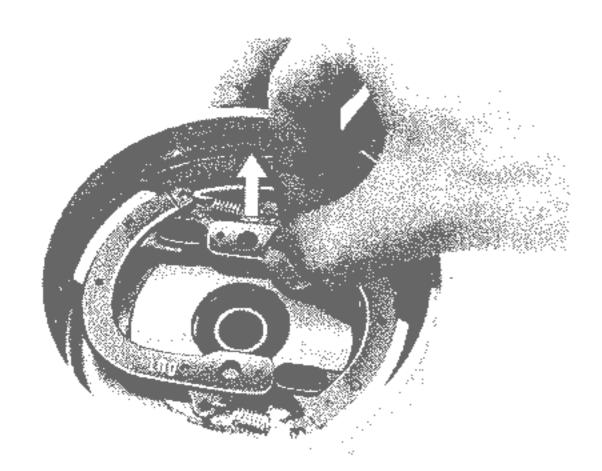


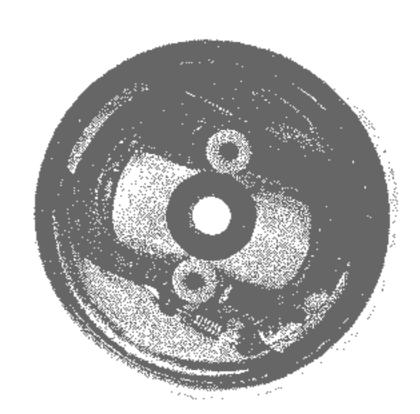




Starting clutch disassembly

Starting clutch Assembly

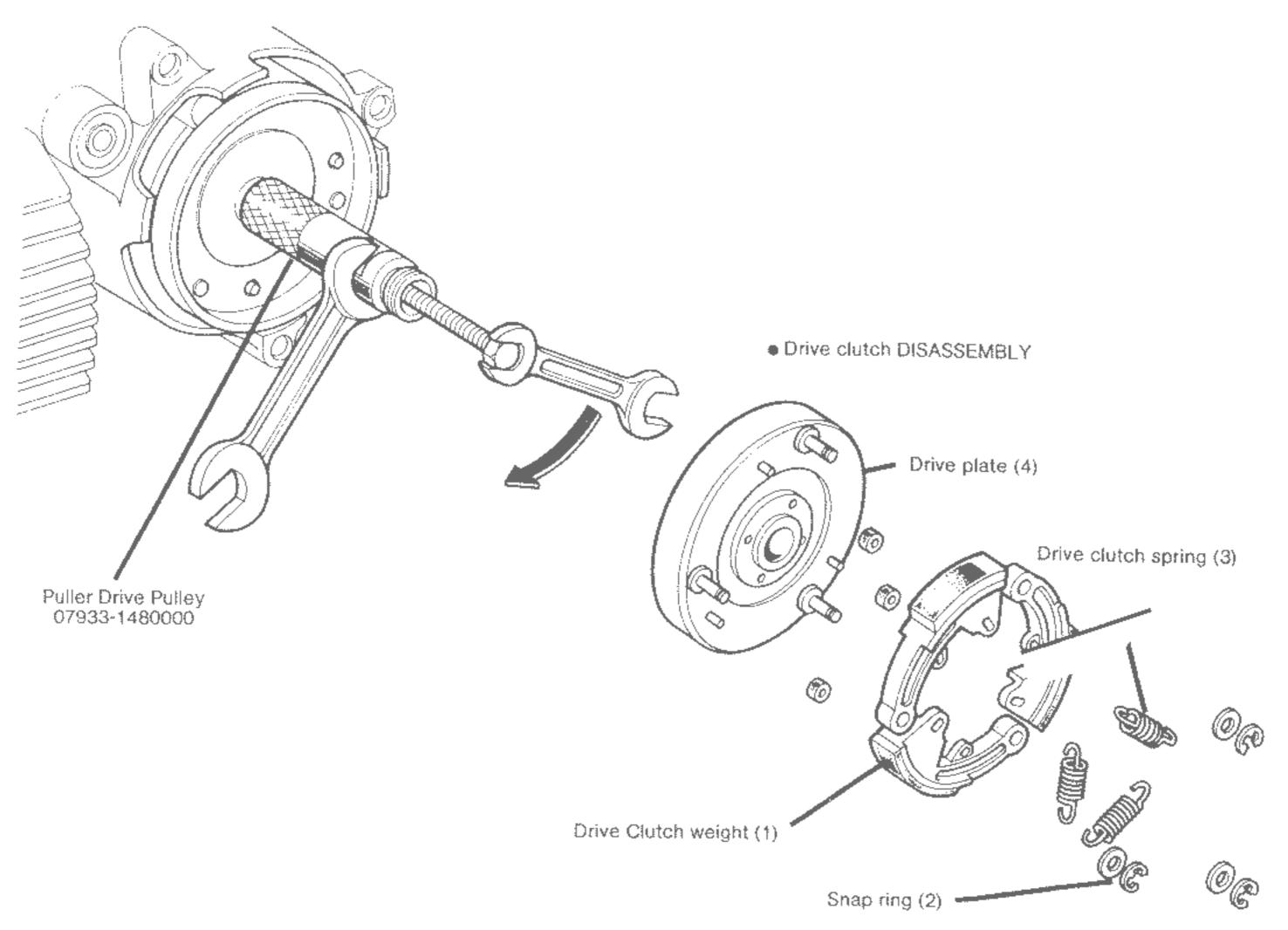




Lift up starting weight after removing the setting washers

Install the starting clutch weight with "OUT" mark facing up

Drive plate REMOVAL



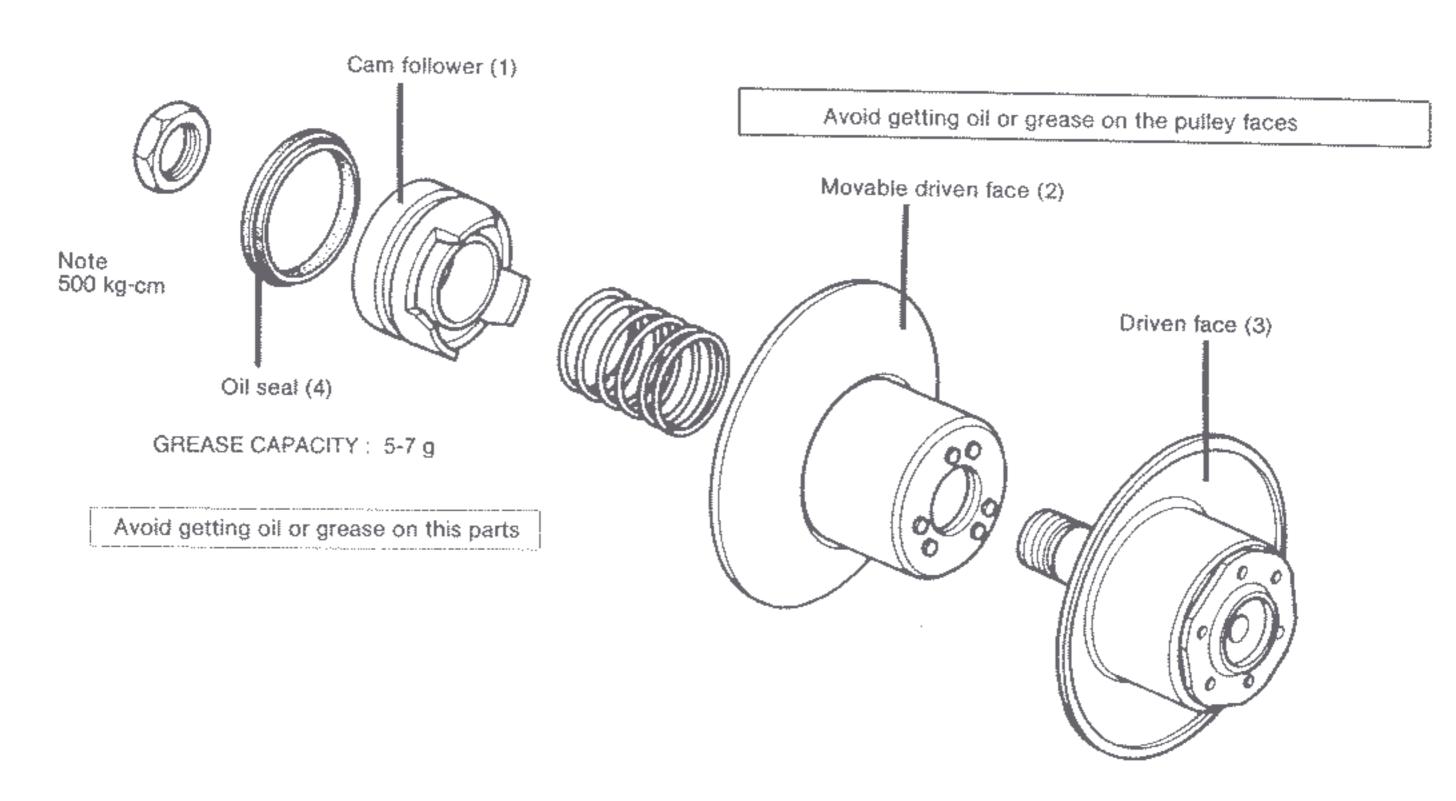
Avoid getting grease or oil on the parts





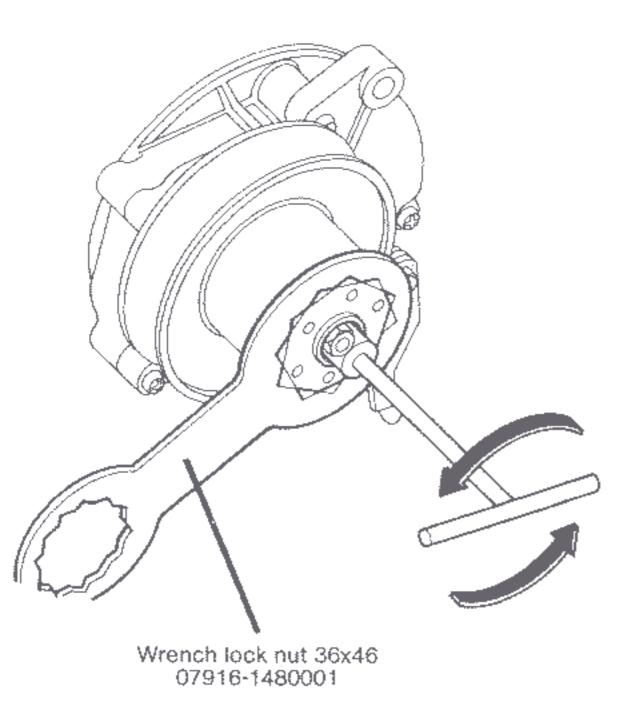
## **Driven Pulley**

Disassemble the driven pulley



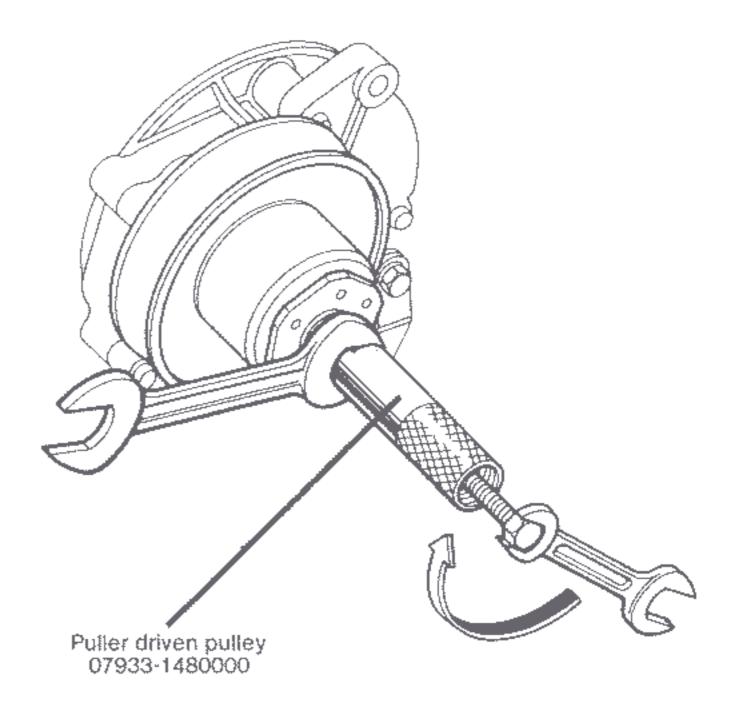
### **B.** Disassebly

Remove the driven pulley attaching nut



Use a 46 mm box end wrench

Remove the driven pulley

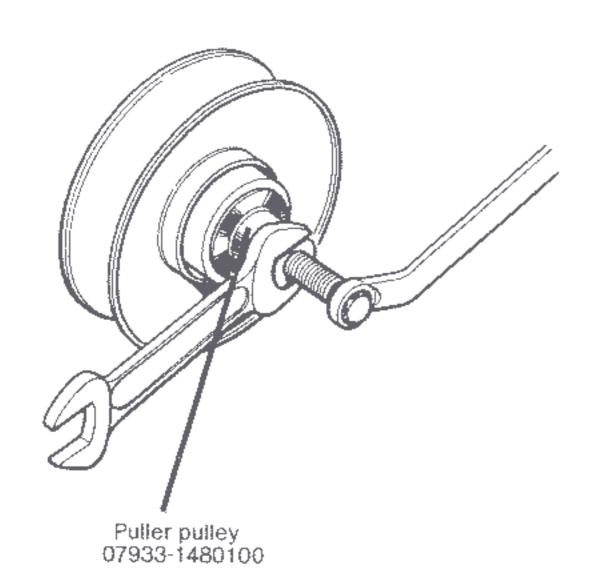


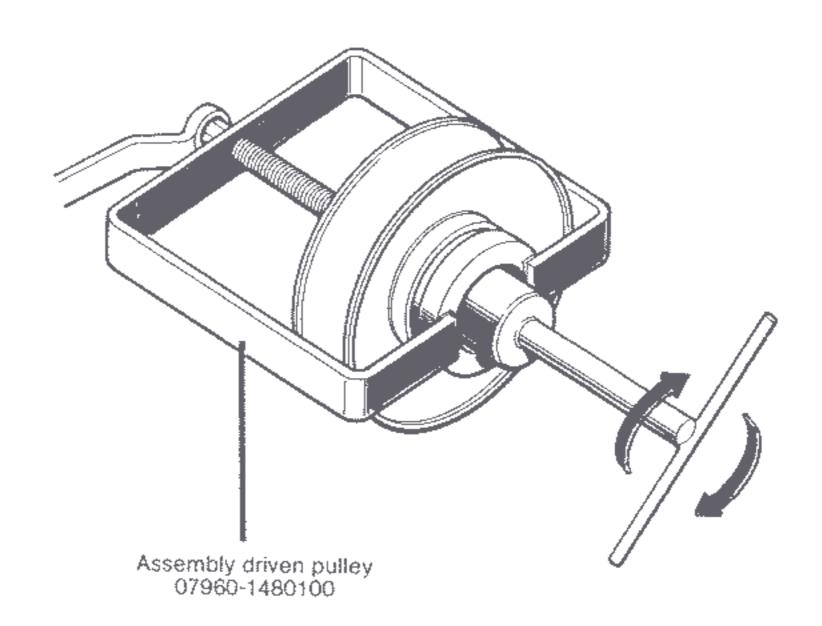




Disassembly driven pulley



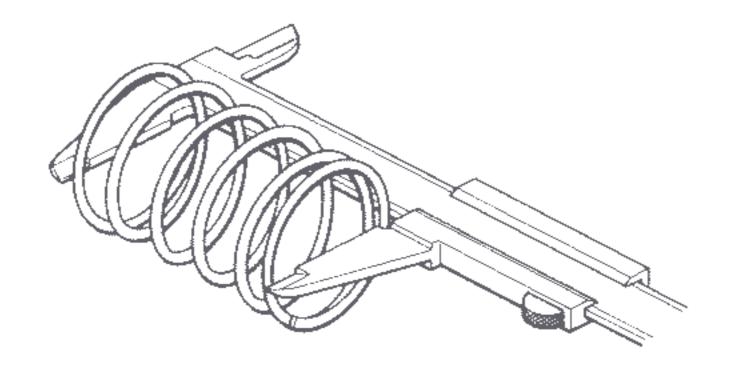




Tighten the special nut and caulk after. Setting the driven pulley with the driven pulley assembly tool.

## C. Inspection

Free length of driven face spring



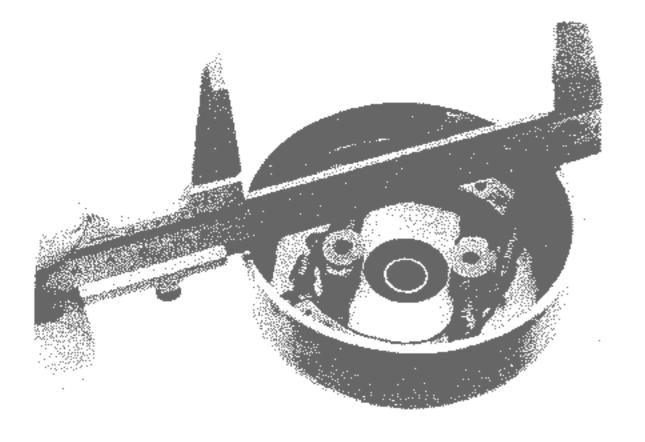
Standard	Service Limit
72,3 mm	65,1 mm



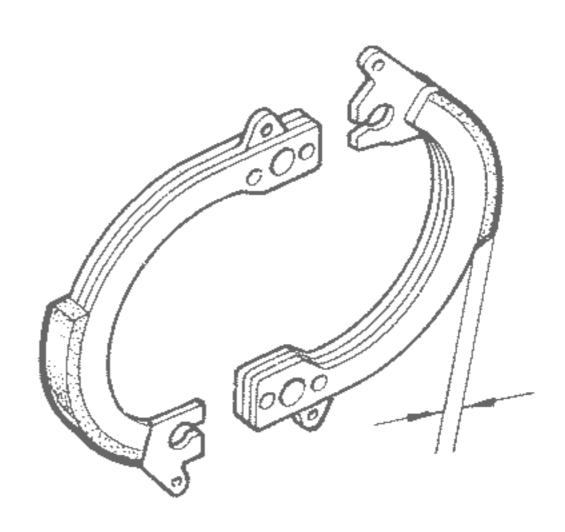


## Inspection

Starting clutch face (Drive Face) I.D.



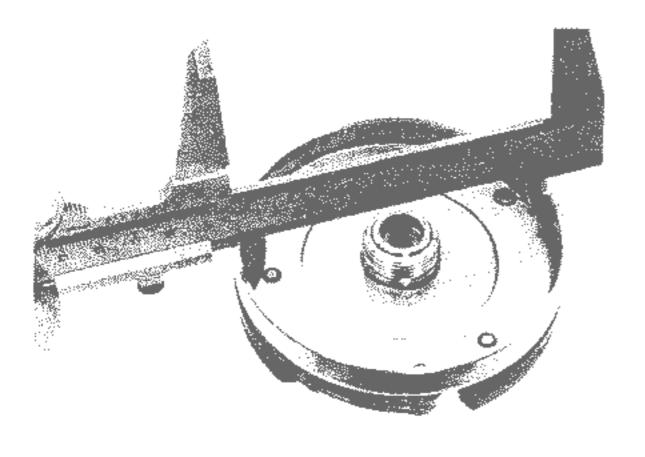
Starting	clutch	Thickness
----------	--------	-----------



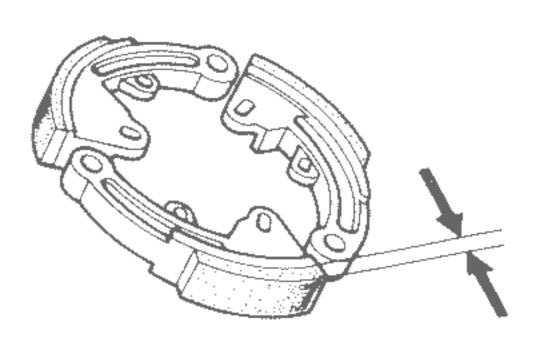
Standard	Service Limit
96.9 - 97.1 mm	97.5 mm

Standard	Service Limit
2.9 - 3.1 mm	1.5 mm

Clutch Weight Face (Drive Face)



Clutch Weight Thickness



Standard	Service Limit
104.0 - 104.1 mm	104.5 mm

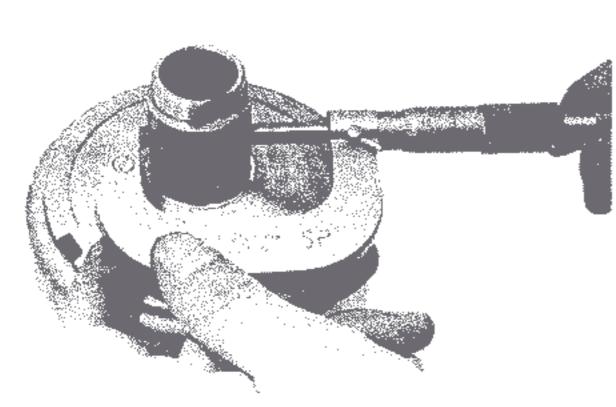
Standard	Service Limit
3.4 - 3.6 mm	2.0 mm





Drive pulley base O.D.





29.9 mm



29.979 - 30.000 mm



Standard	Service Limit
30.005 - 30,011	30.1 mm





## 9. CRANKSHAFT/CRANKCASE

A.	Trouble Shooting	63
В.	Disassembly/Assembly	64
C.	Inspection	66

## A. Trouble Shooting

Symptom	Probable cause
No or loss of compression	Compression leak past oil seal Compression leak past cranckase mating faces Deffective reed valve Defection decompression valve
Poor performance at high speed	Compression leak past oil seal Compression leak past cranckase mating faces Defective reed valve
Engine stalls	Compression leak past oil seal Compression leak past cranckase mating faces Defective reed valve





## B. Disassembly/Assembly

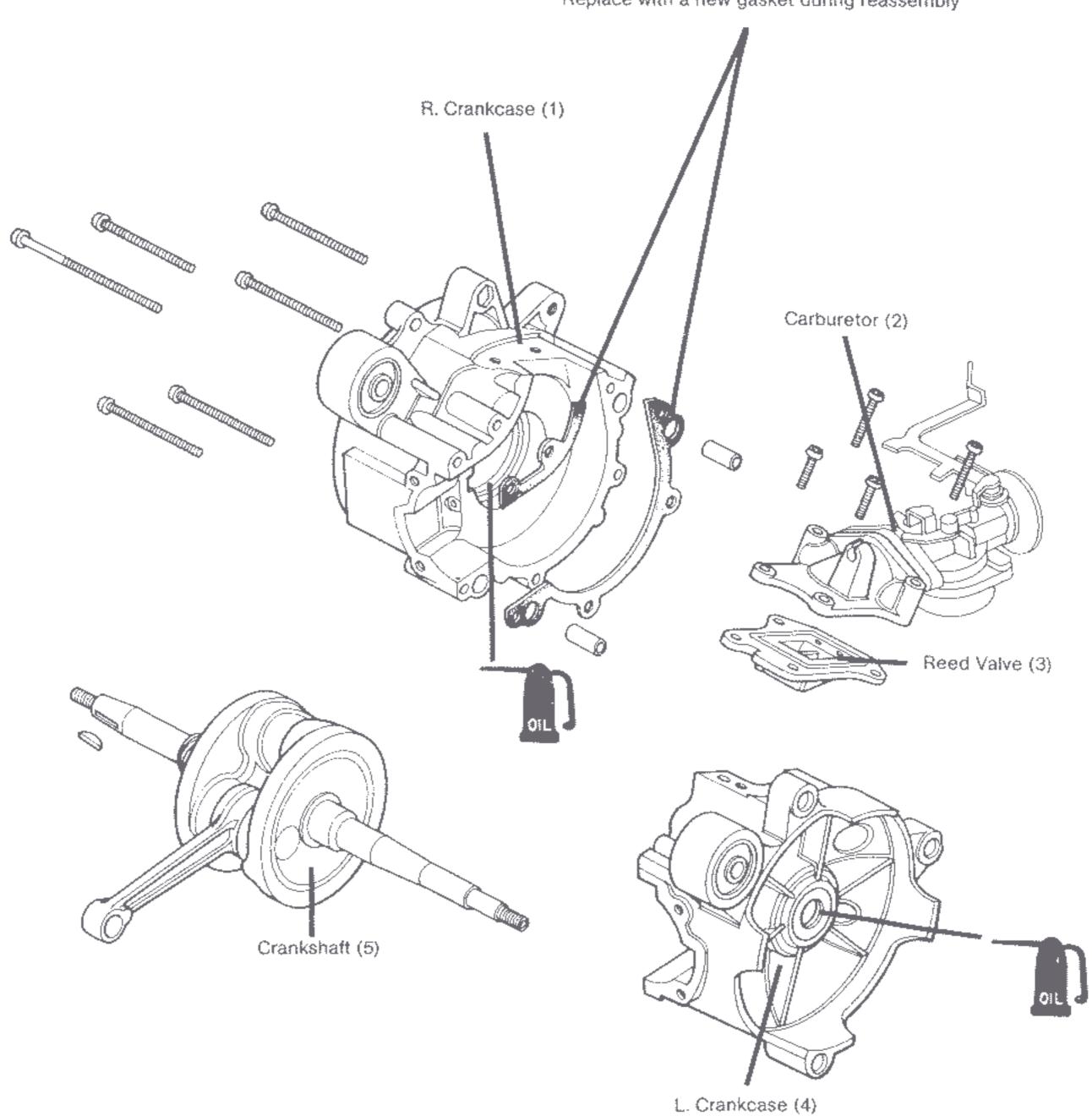
- To Remove the engine
- 2 Remove the cylinder head and piston
- Remove the drive pulley
- Remove the A.C. generator

#### NOTE:

Do not score or scratch parts
The crankcase must be tighten correctly

### NOTE:

Replace with a new gasket during reassembly



#### NOTE:

Replace the ball bearing oil seal when disassembling



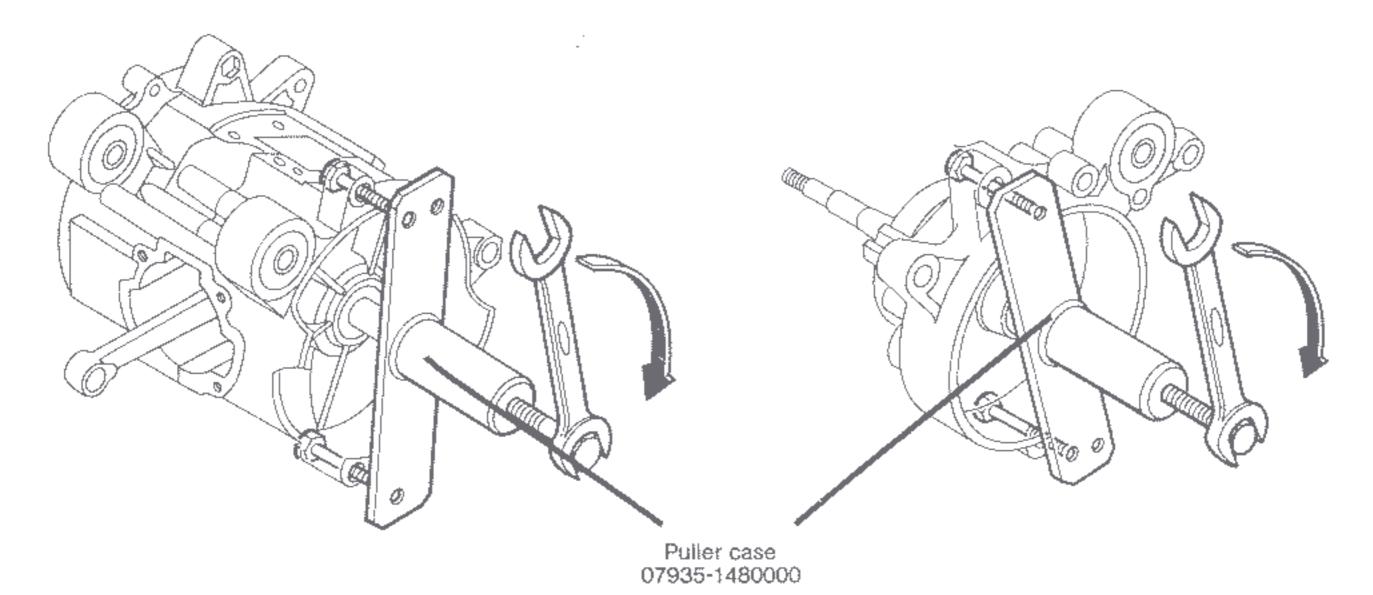


Crankshaft/Crankcase DISASSEMBLY

Unscrew the crankcase setting screws

• L. Crankcase

R. Crankcase



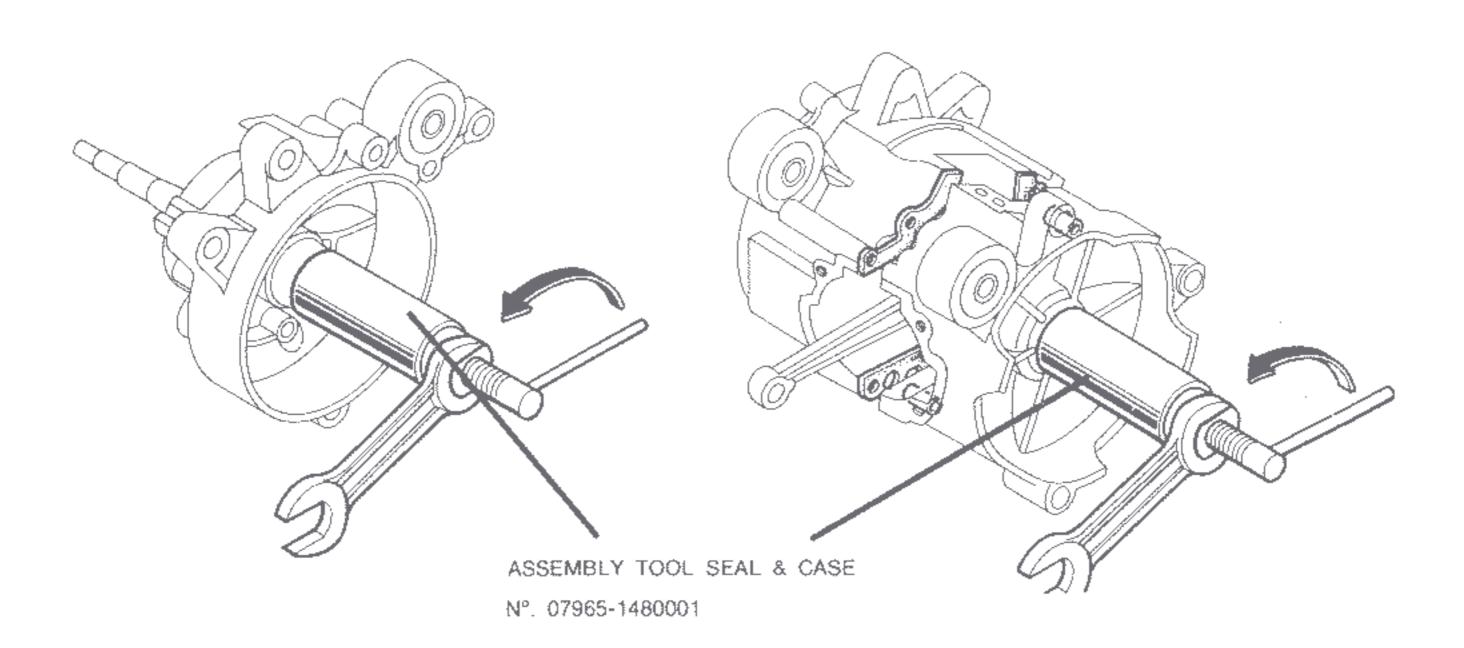
#### NOTE:

Tighten bolts securely when installing puller Hold the crankshaft so that it cannot be removed by hand

Crankshaft/Crankcase Assembly

• R. Crankcase

• L. Crankcase



Slide the tool collar over the end of the crankshaft and turn in the handle of the tool bolt until the shaft fits into the bearing in the crankcase

A NATI HOMOL OCNOLOGY AND

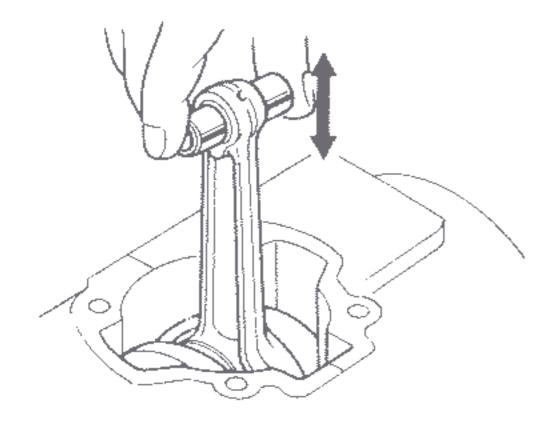
This is trial version
If you want get full version, please register it, thank you.
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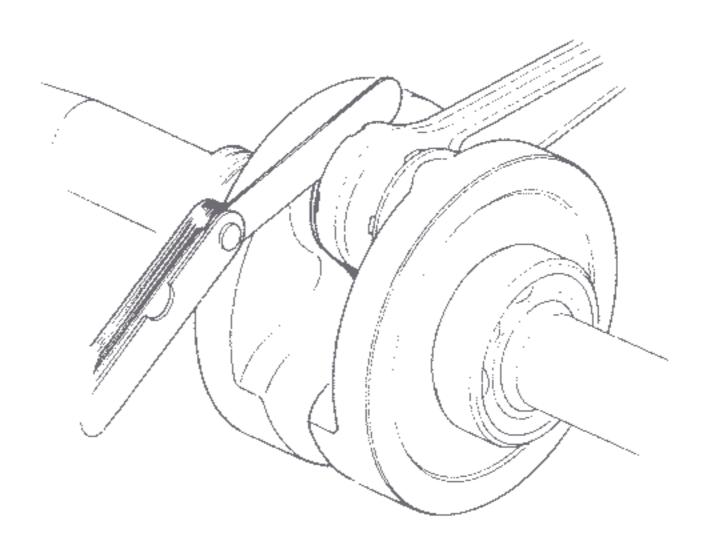
## C. Inspection

Check connecting rod small end bearing play



Be sure that the pin rotates smoothly without rattling

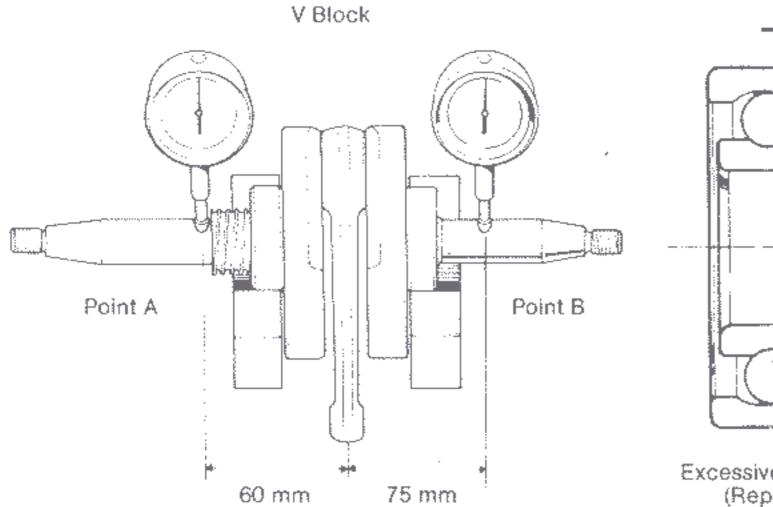


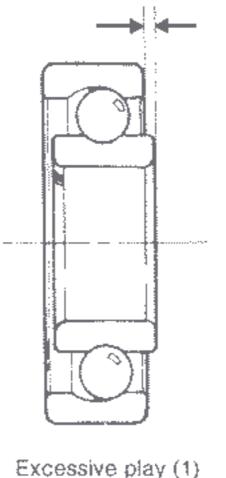


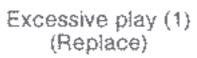
Standard	Service Limit
0.15-0.41 mm	0.6 mm

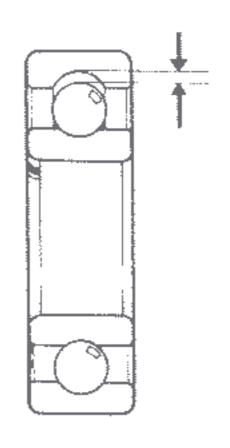
Measure Crankshaft Runout

Check bearing play









Excessive play (Replace)

Measure at both ends A & B

Standard	Service Limit
0.05 mm	0.15 mm





# 10. CARBURETOR/AIR CLEANER

A.	Trouble shooting .	67
D. C.	Disassembly/Assembly	- 68 - 70
Ď.	Cleaning	71

# A. Trouble Shooting

Symptom	Probable cause
Hard starting	Clogged Float Valve Mixture screw out of adjustment Clogget carburetor jet
Lack of power	Clogged float valve Pilot screw out of alignment Clogged carburetor jet
Poor performance at low speed	Clogged float valve Clogged carburetor Loose carburetor jet
Poor performance at high speed	Clogged float valve Clogged carburetor Clogged Main jet

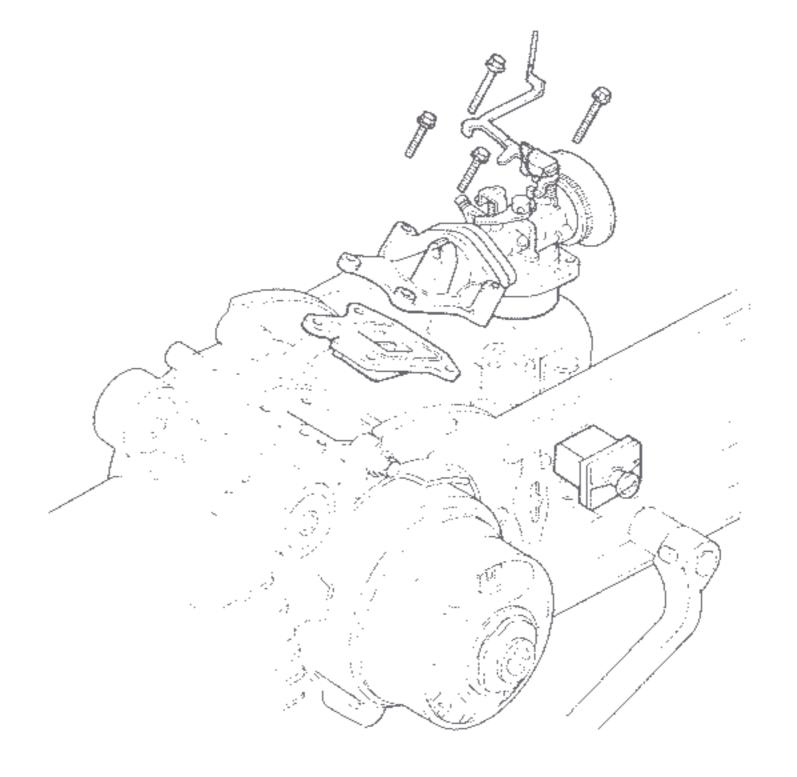
A REVENUENCE OF NOTICE BY 1999.





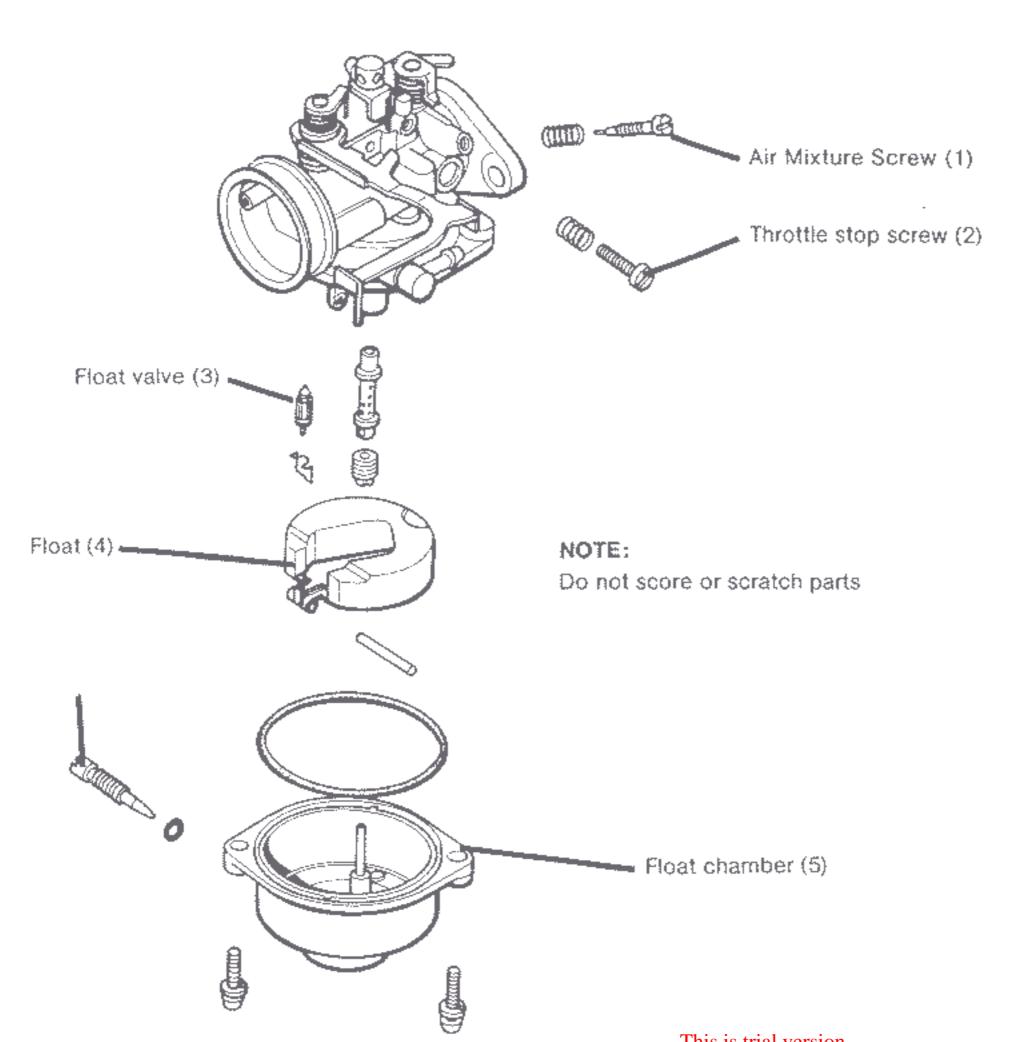
## B. Carburetor Disassembly/Assembly

- Lift the frame away from the engine
- ① Unscrew four carburetor setting screws



#### NOTE:

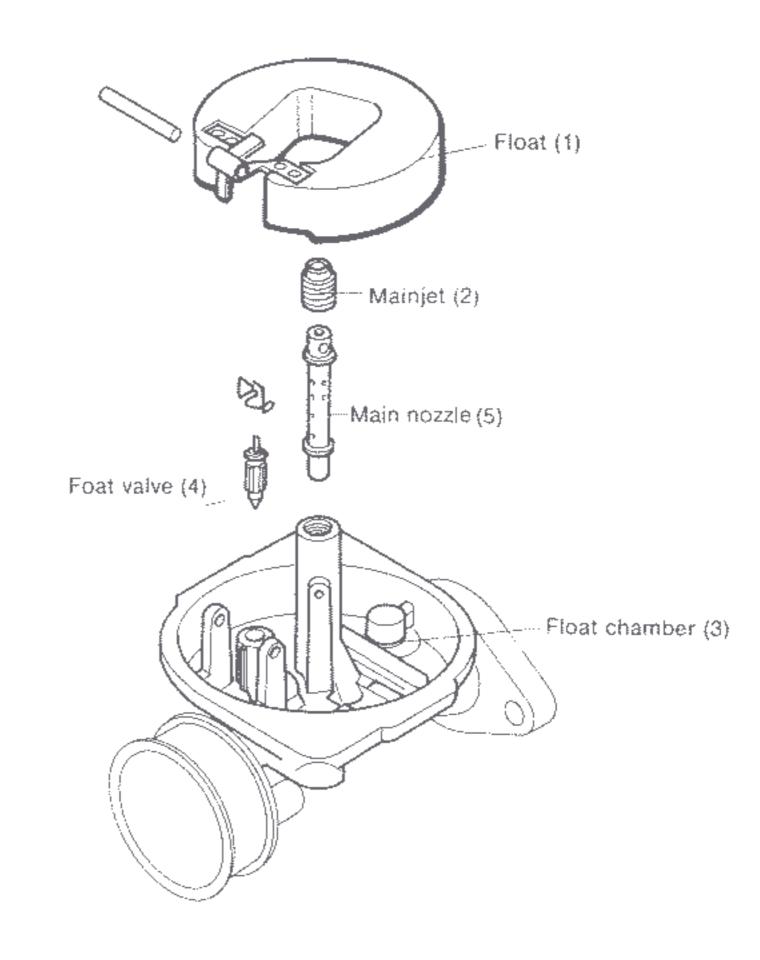
To prevent dust from entering the cylinder, do not remove the reed valve.



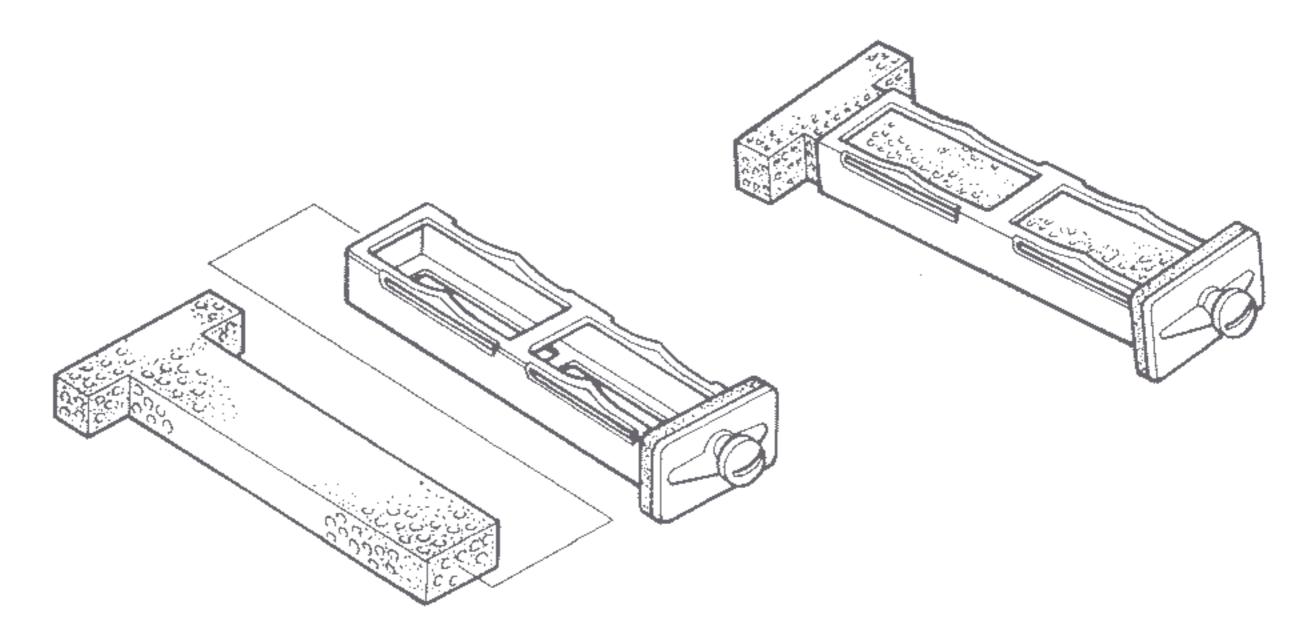




Float valve/Main Jet DISASSEMBLY/ASSEMBLY



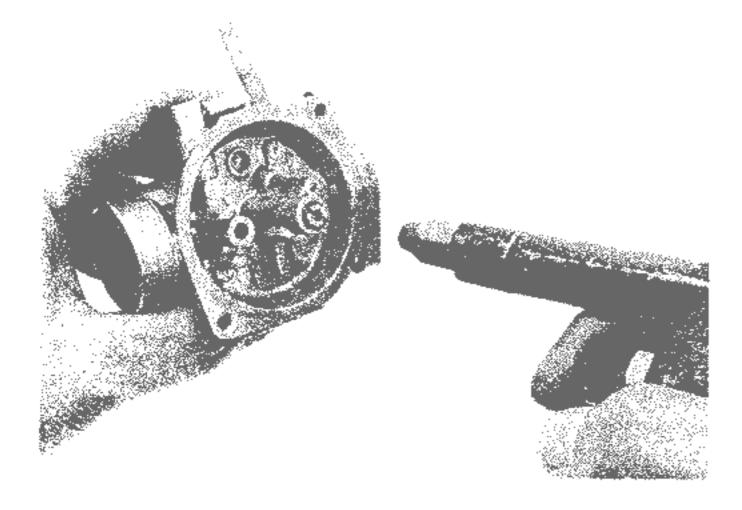
- Air cleaner DISASSEMBLY/ASSEMBLY
- D Remove the drive belt cover
- 2 Release the air cleaner case retaining clip
- 3 Pull the air cleaner case out from the rear fork





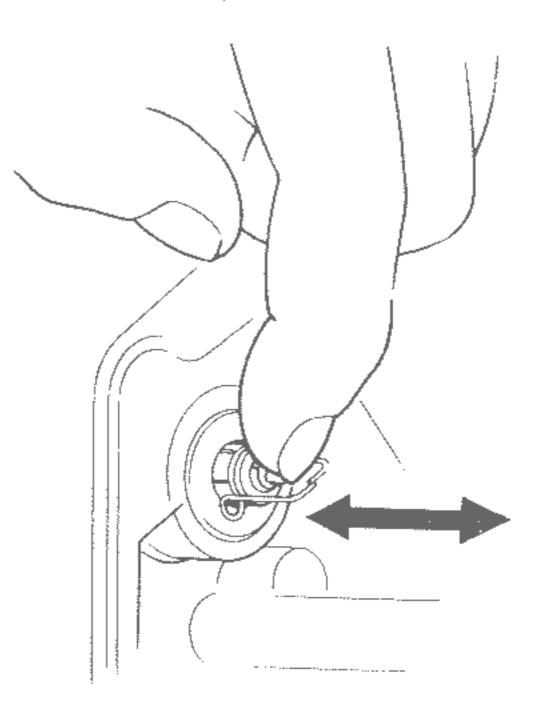


## C. Inspection



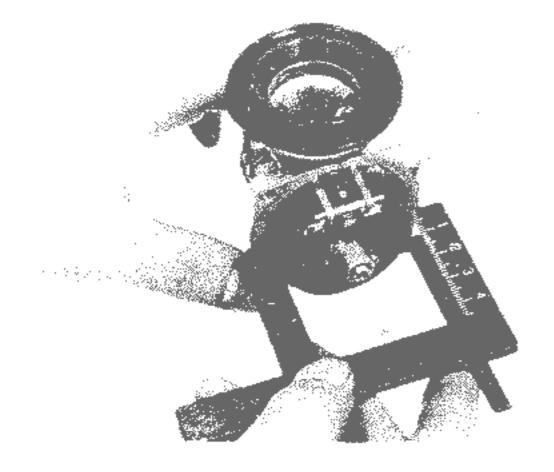
Remove carburetor jets, pilot screw and float. With compressed air, blow out all passages in the carburetor body

Float valve inspection



Replace valve if it does not return smoothly

#### Measure Float Height



Standard Float level - 10 mm

Float level gauge 07401-0010000

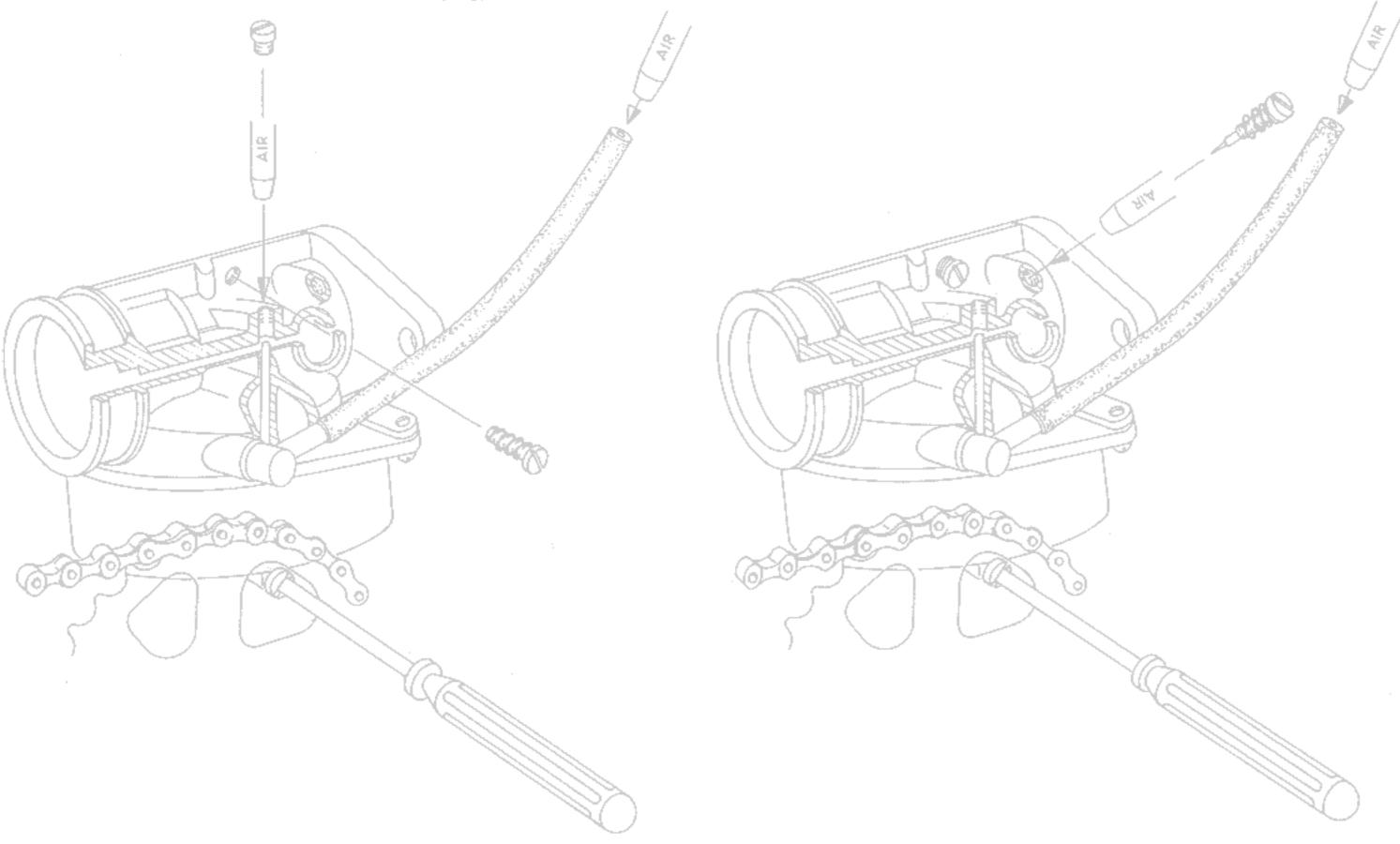




## D. Cleaning

Carburator on the frame

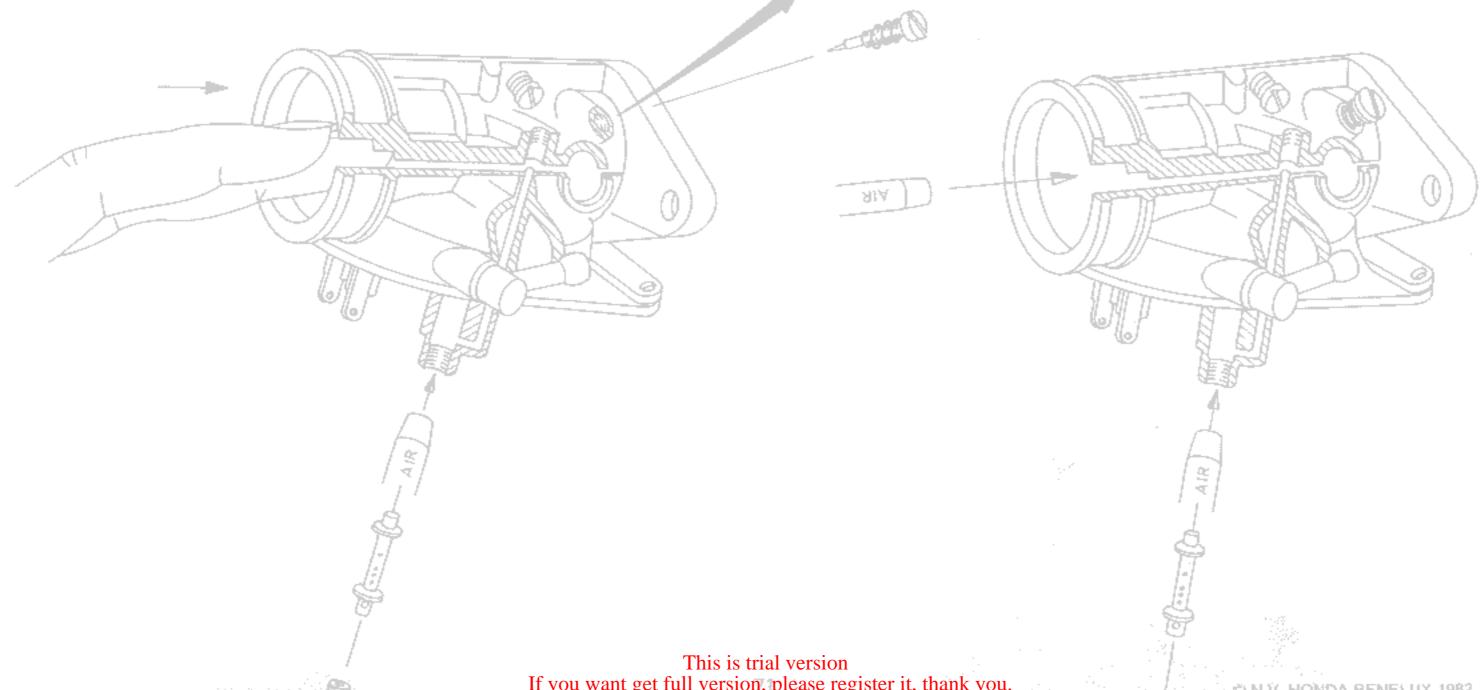
- 1. Turn the fuel cock "OFF".
- Drain the carburetor (screw A).
   Clean the carburetor with compressed air.
- 4. Reinstall the carburetor on the frame.



Remark: Turn the mixture screw fully in, and after, 1 turn out. Start the engine and adjust the carburetor.

Carburetor removed from the frame.

- 1. Remove the carburetor from the frame and blow compressed air as shown on the figure.
- 2. Reinstall the carburetor, start the engine and adjust the carburetor as shown above.







#### 11. HANDLEBAR/FRONT SUSPENSION/FRONT WHEEL

A.	Trouble Shooting	72
8,	Disassembly/Assembly	73
C.	Inspection	76

## A. Trouble Shooting

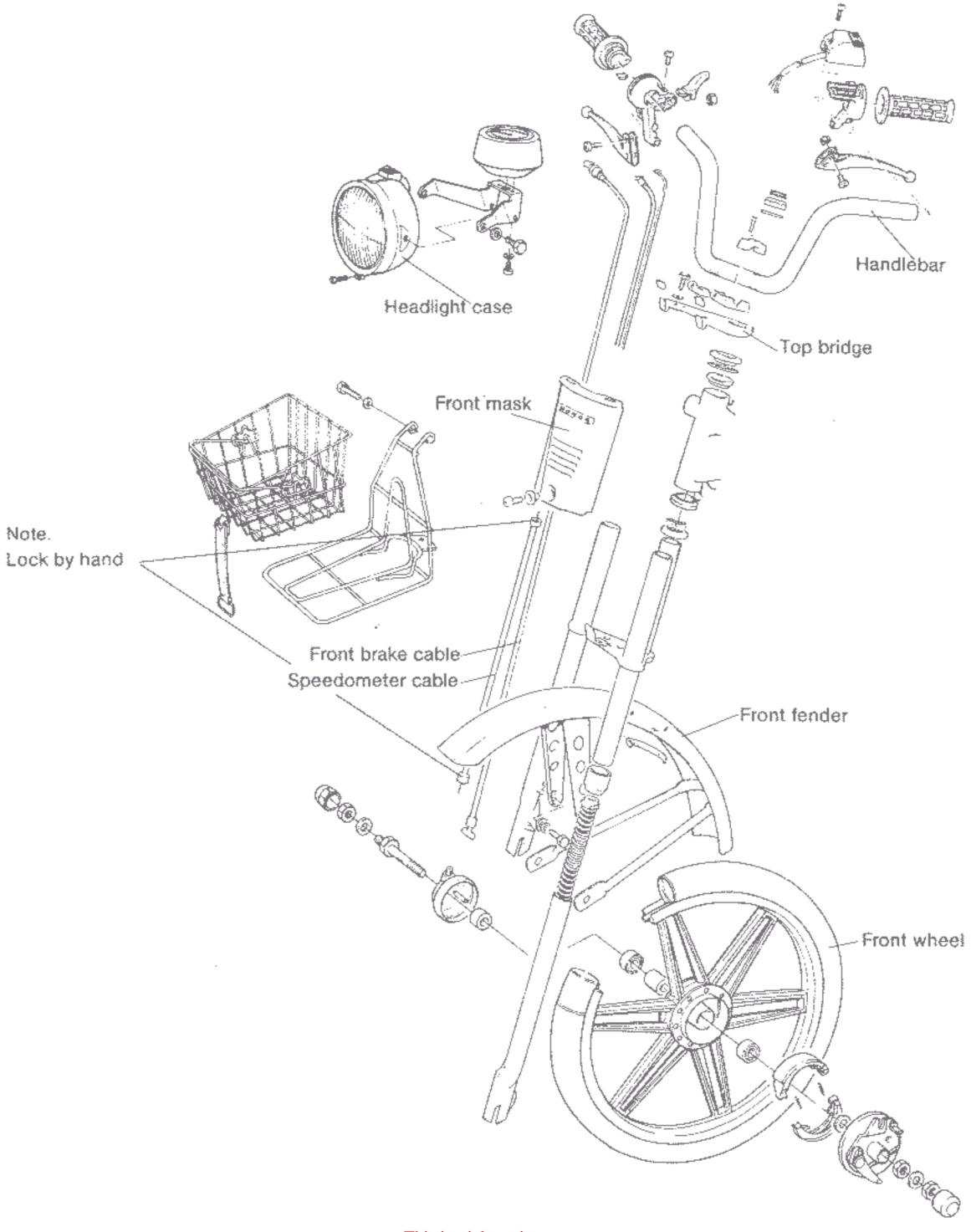
Symptom	Probable cause
Hard steering	Damaged or broken radiall ball bearings in steering stem Excessively tightened head top thread Low tire pressure
Front wheel wobble	Distorted wheel rim
Pulls to one side	Bent front fork Unbalanced schock absorbers
Poor brake performance	Worn brake shoe/drum Oil or grease on brake shoe or drum Worn brake cam
Too soft a ride	Weak shock absorber spring
Front suspension noise	Interference between shock absorber case and frame interference beween shock absorber case and spring. Damaged stopper rubber.





## B. Disassembly/Assembly

Install handlebar on the lower holders with the punch marks in line with the top of the holders

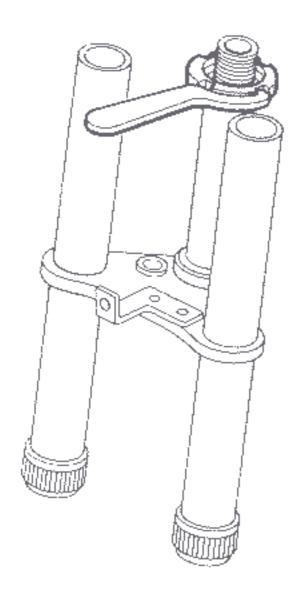




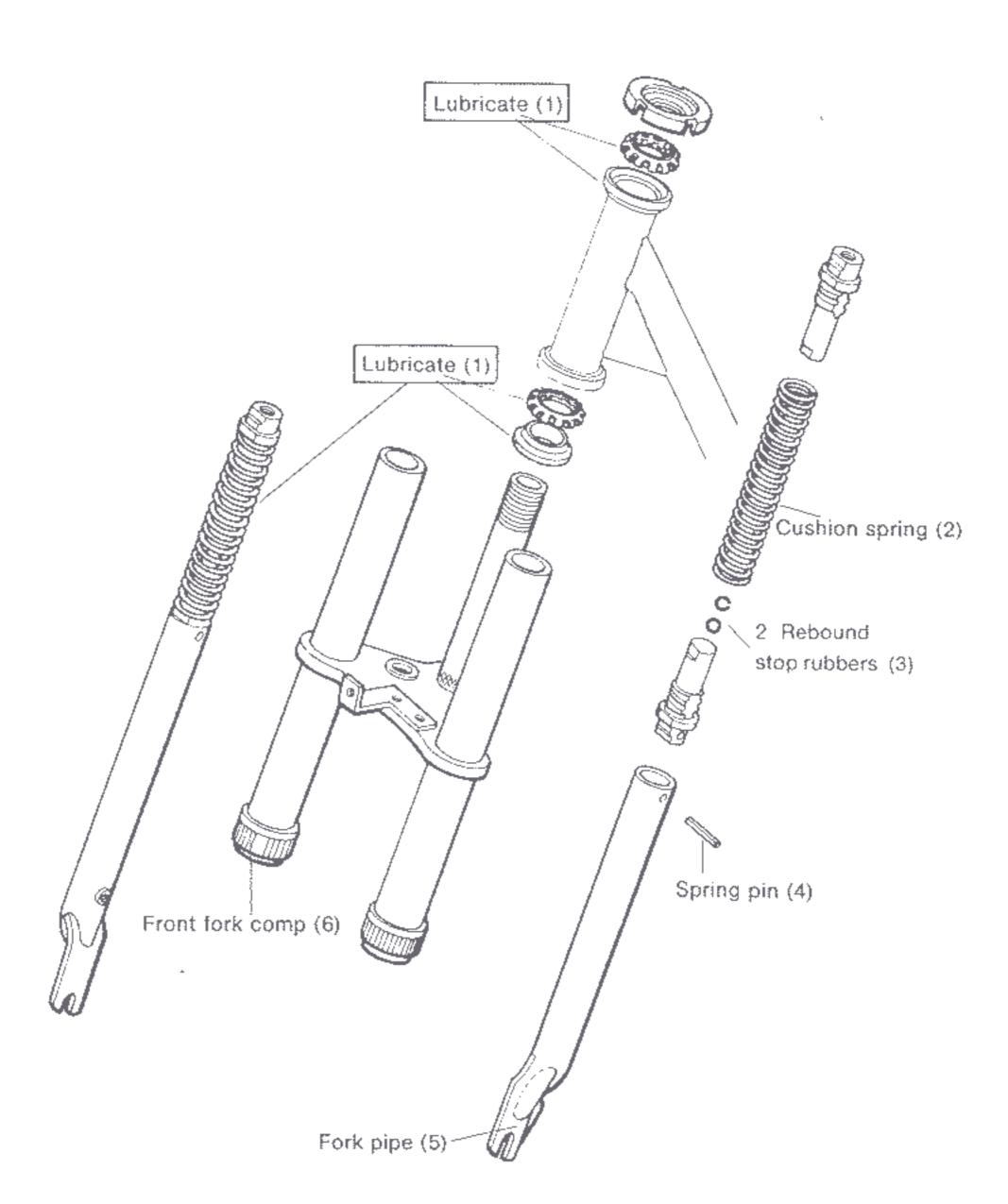


Front Fork Disassembly/Assembly

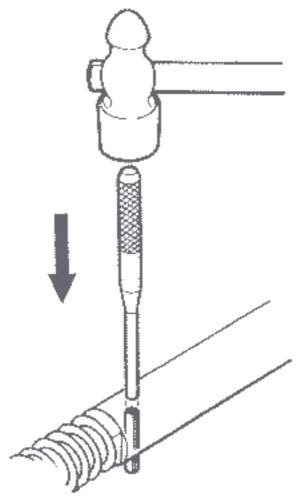




Tighten against steering stem, then back off 1/8 turn



Spring Pin Driver 3.5 mm



This is trial version
If you want get full version, please register it, thank you.

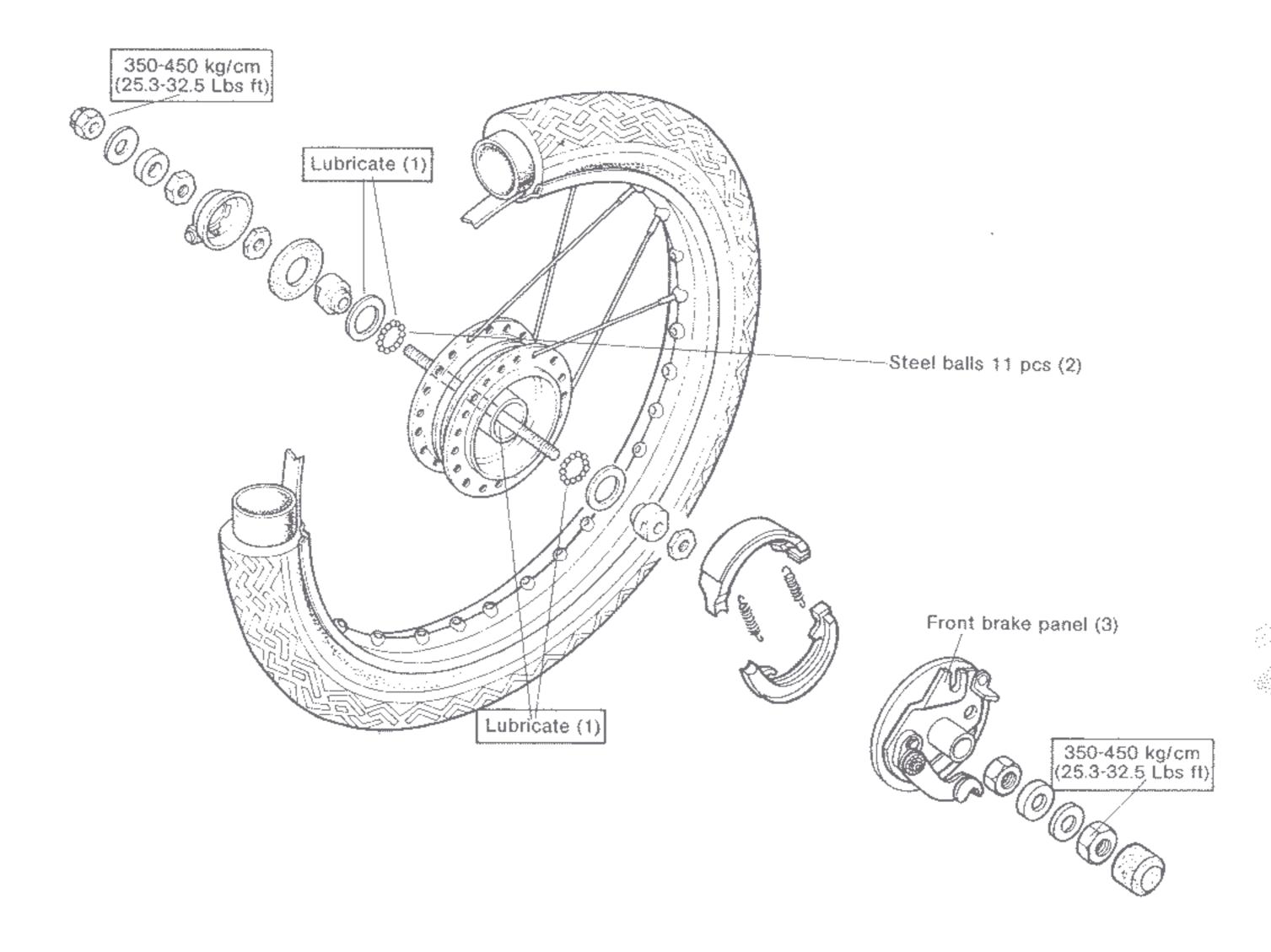
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Front Wheel Disassembly/Assembly

Avoid getting oil or grease on the linings and brake drum

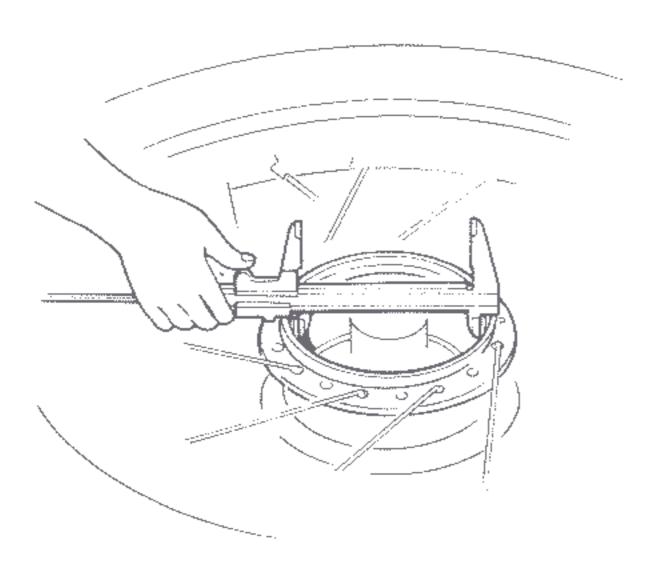




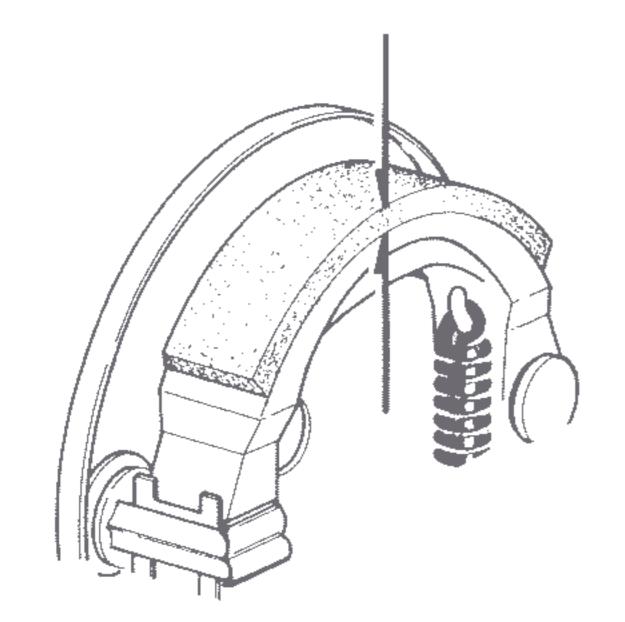


## C. Inspection

Wheel hub I.D.



<ul> <li>Brake lining thickness</li> </ul>	• Brake	e lining	thickness
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Front Wheel runout	

Standard	Service Limit
80.0 - 80.2 mm	81.0 mm

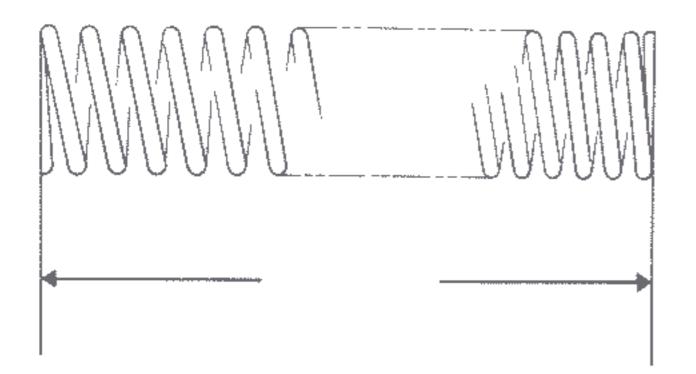
Standard	Service Limit	
3.5 mm	2.0 mm	

1	Standard	Stervice Limit
	1.0 mm	2.0 mm





• Front Fork spring free length



Standard	Service Limit
190,5-196,5 mm	173 mm

CANAL MARKA DESIGNATION SOOT





#### 12. REAR WHEEL

A.	Trouble Shooting	78
	Disassembly/Assembly	80
C.	Inspection	81

## A. Trouble Shooting

Symptom	Probable cause
Poor brake performance	Worn brake shoe/drum Oil or grease on brake shoe or drum Worn brake cam
Wheel wobble	Distorted wheel rim

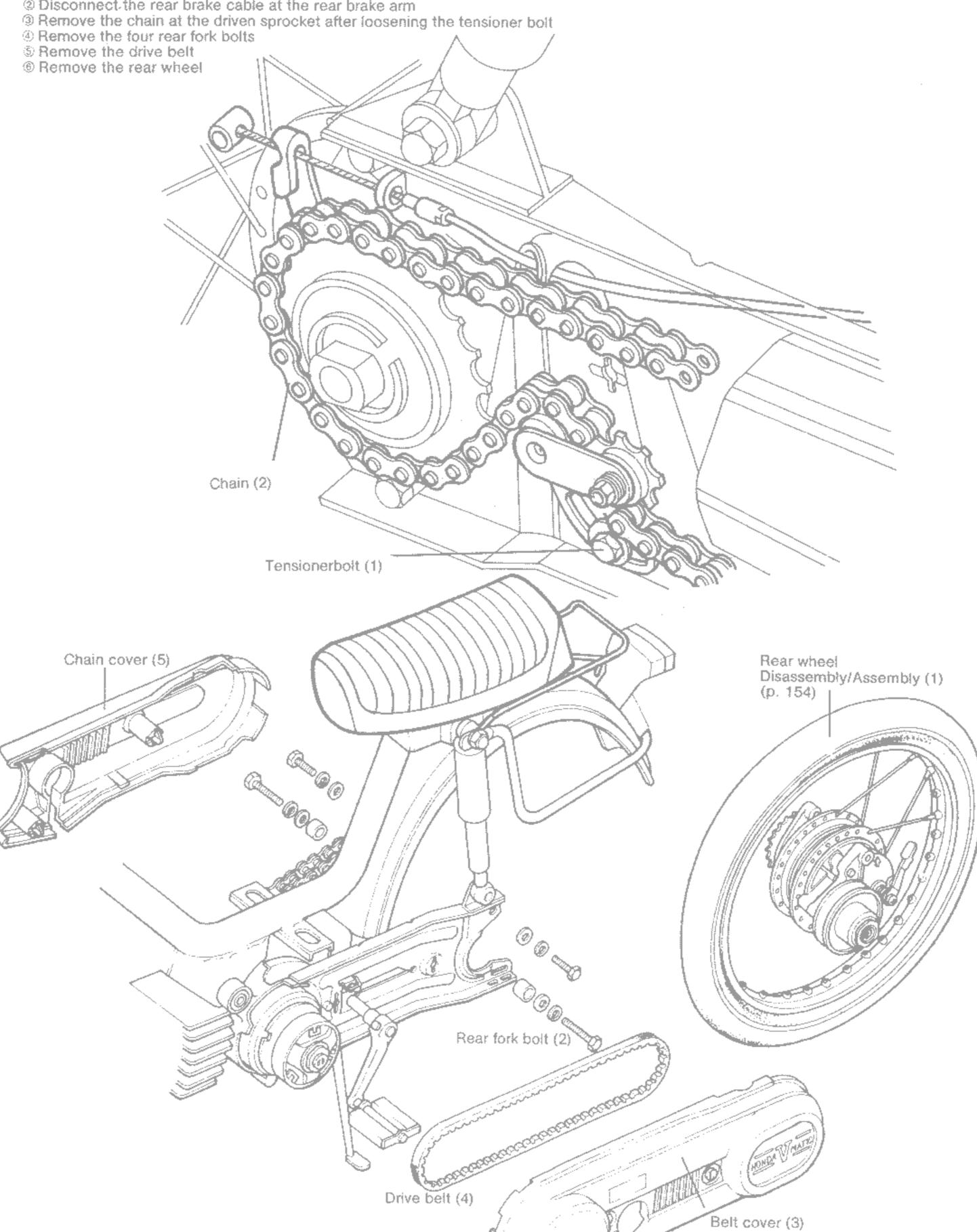
WIND MONDA RENEEDY 1982





#### Rear Wheel Removal

- ① Remove the belt cover and chain
- @ Disconnect the rear brake cable at the rear brake arm



This is trial version
If you want get full version, please register it, thank you.

www.verypdf.com

www.camino-tuning.be

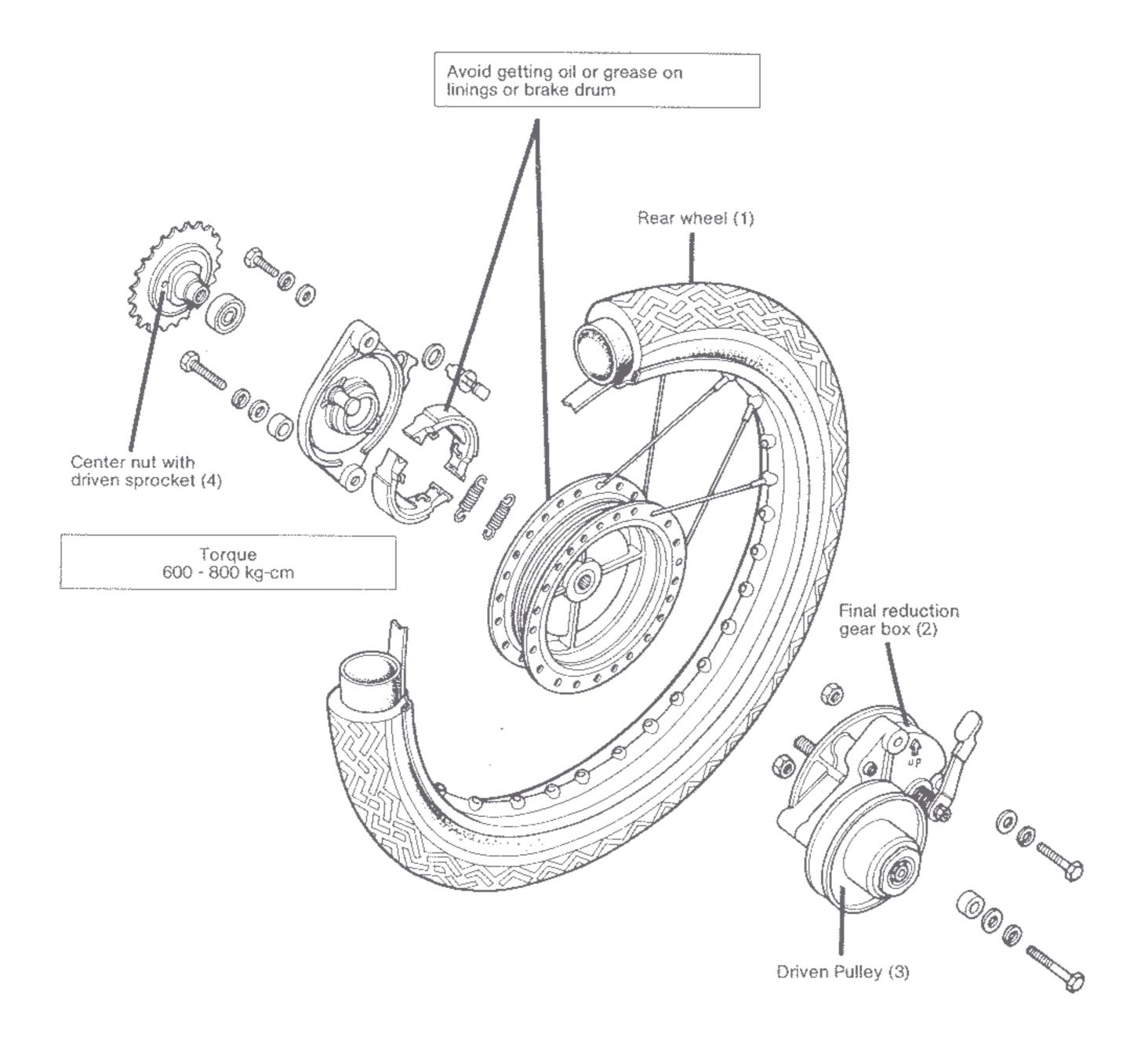
4 N.V. HONDA BENELUX 1982





## B. Rear Wheel Disassembly/Assembly

- Turn the center nut with driven sprocket counterclockwise
  Remove the rear brake
- 3 Remove the reduction gear box

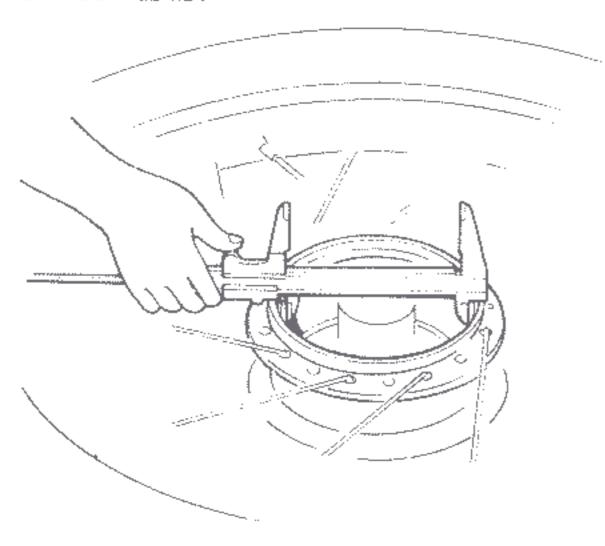






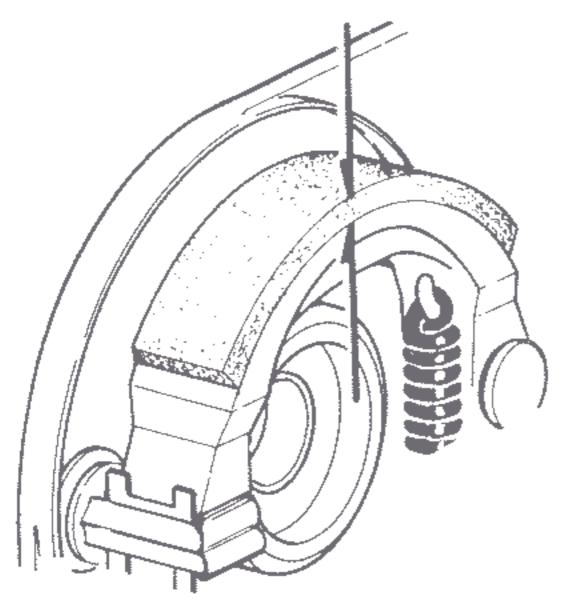
## C. Inspection

Wheel Hub I.D.

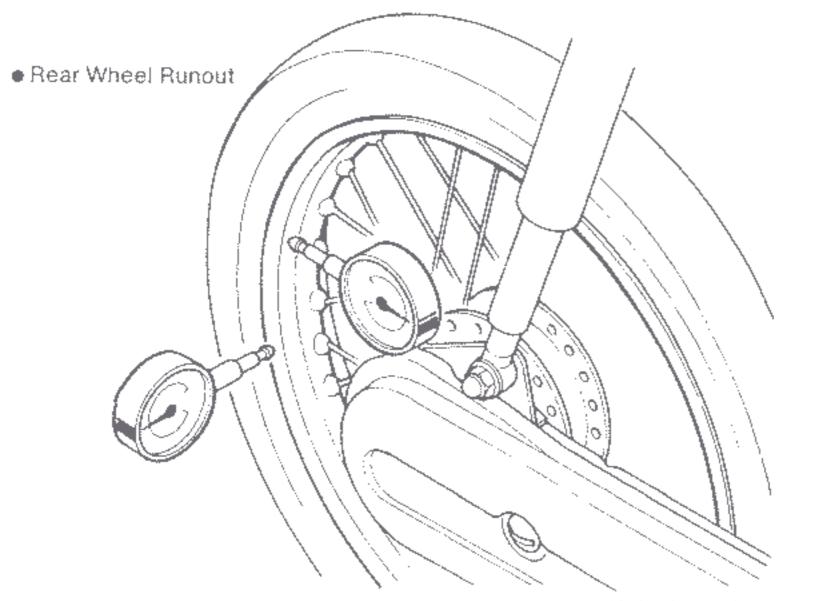


Standard	Service Limit
80.0 - 80.2 mm	81.0 mm

Brake lining thickness



Standard	Service Limit
3.5 mm	2.0 mm



Standard	Service Limit
1.0 mm	2.0 mm





#### 13. FINAL REDUCTION

A.	Trouble shooting	82
8.	Disassembly/Assembly	83
C.	Inspection	84

## A. Trouble shooting

Symptom	Probable cause
Noise	Worn or seized gear Excessive rattle in ball bearing
Oil leaks	Excessive oil in case Defective oil seal



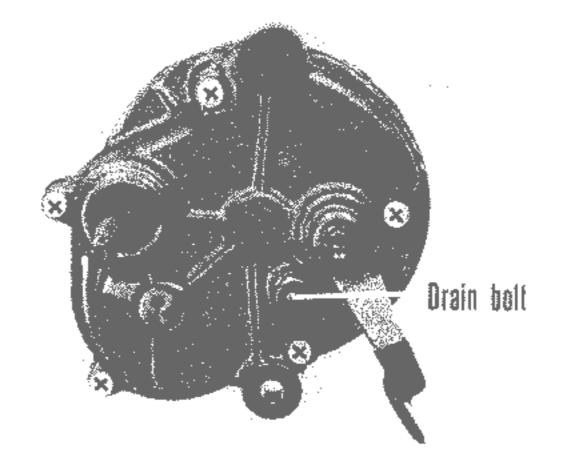


## B. DISASSEMBLY / ASSEMBLY

- Remove the reduction gear box from the rear wheel.
  Remove the drain bolt and drain the gear oil.
  Remove the five screws from the reduction cover.

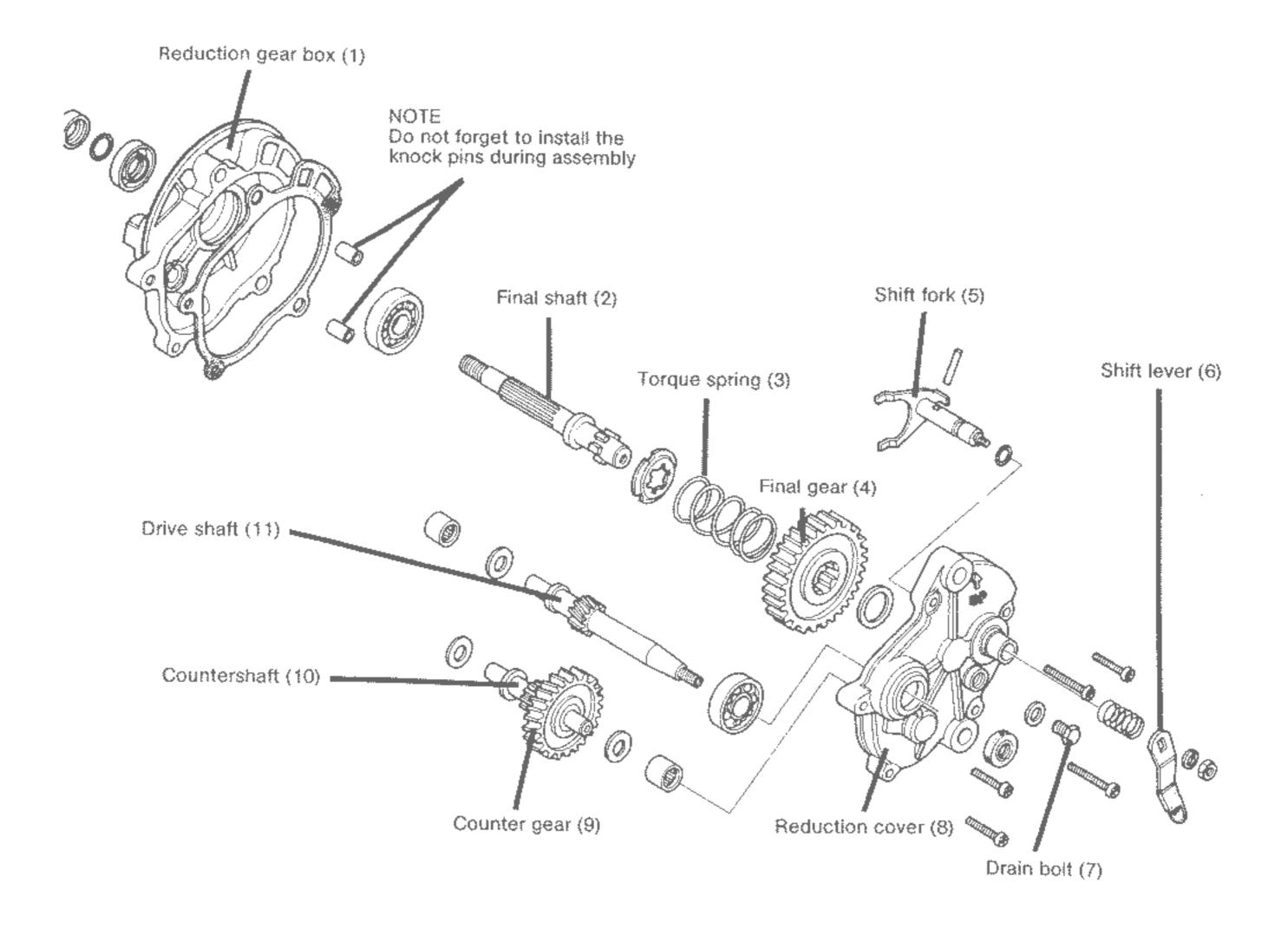
#### NOTE:

Set the shift lever at the pedal driving position.



Gear oil SAE 90 Capacity 75 cc.

HIND MONION OFFICE HIV YOUR



Assembly

Do not damage the oil seal when installing the drive and final shaft.





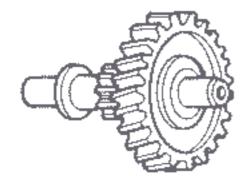
## C. Inspection

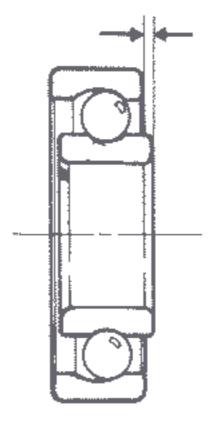
Check for damage and wear.

Check bearing play.

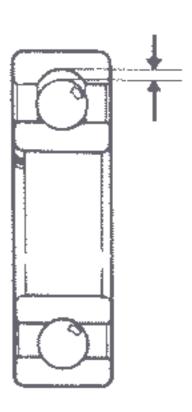








Excessive play (1) (replace)



Excessive play (replace)

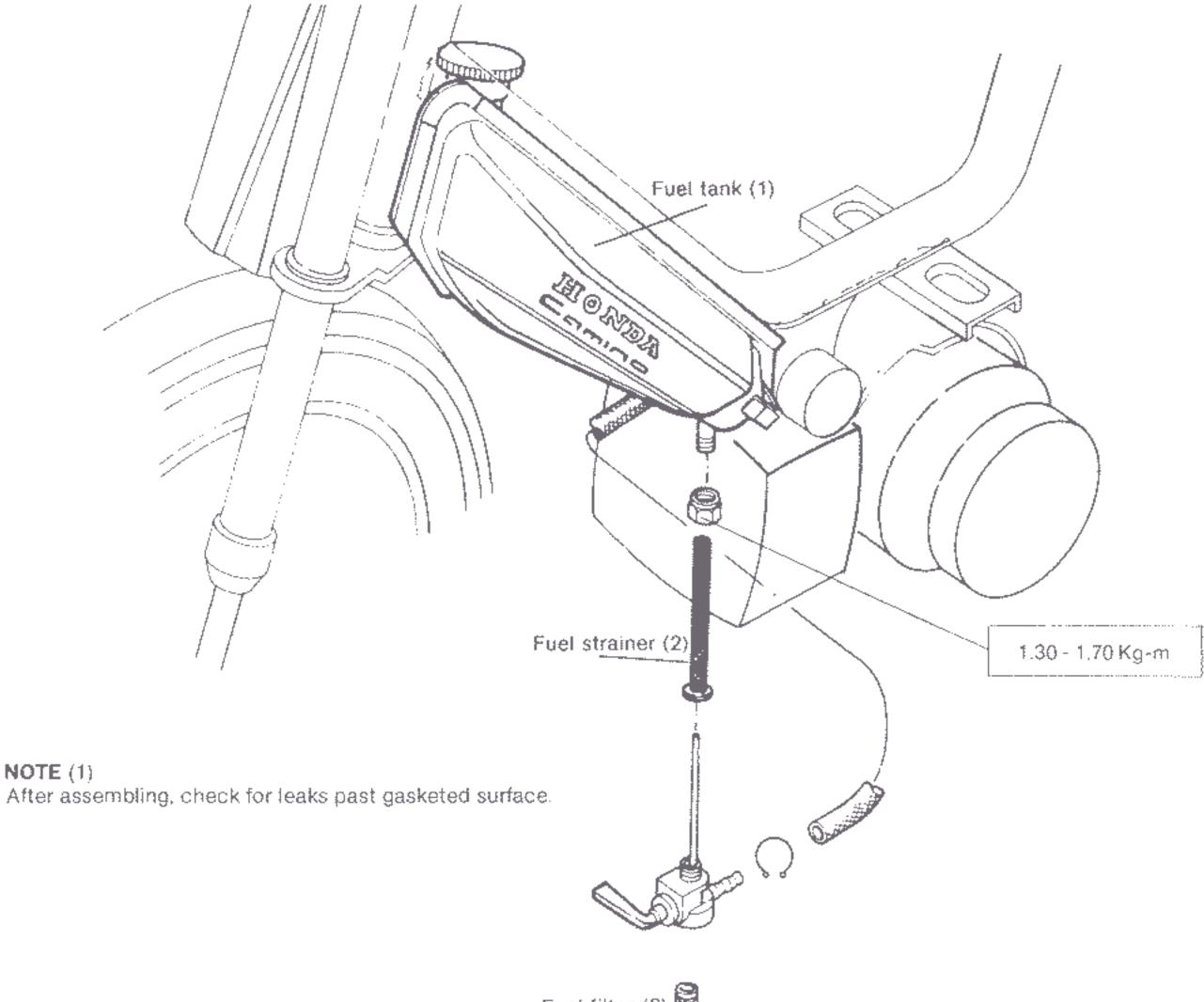




#### 14. FUEL TANK / REAR SHOCK ABSORBER

- Fuel filter removal.
- Turn the fuel valve lever to "Off".
- 2 Remove the fuel valve cap.
- 3 Pull the fuel filter out.

- Fuel strainer removal.
- Prove the fuel tube band at carburetor and drain gasoline. Loosen the fuel valve setting nut, and remove the fuel valve.



Fuel filter (3) Fuel lock cap (4)

**NOTE** (2) Clean filter and strainer in solvent.

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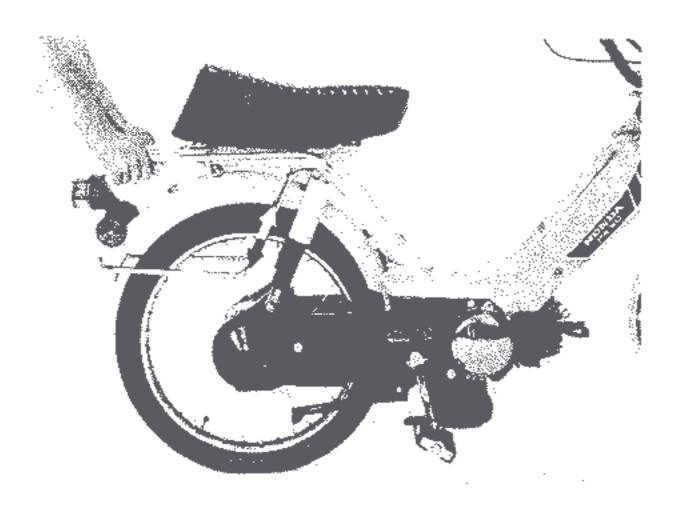


## Inspection

Rear cushion spring Freelenght

Standard	Service limit
226.9 mm	194.2 mm

After installing check operation.

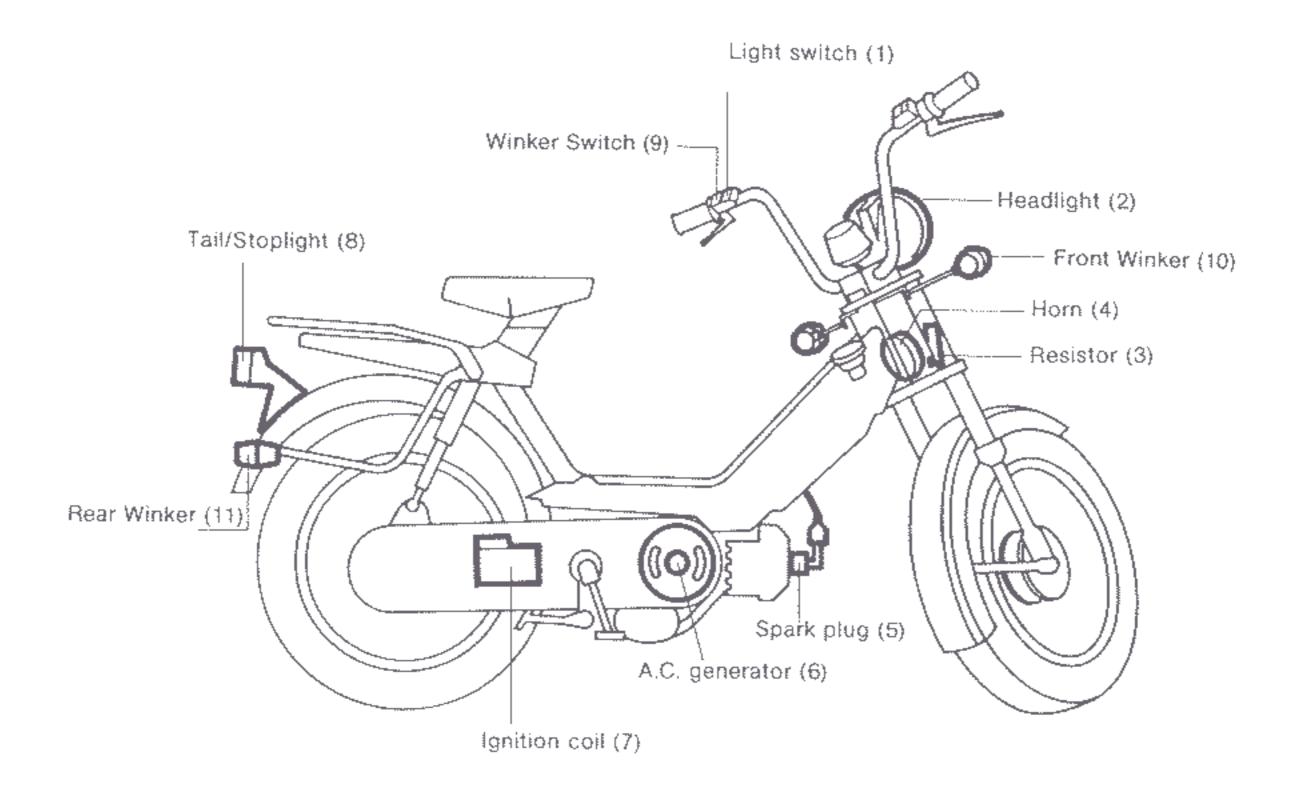






#### 15. ELECTRICAL

• Electrical Inspection.



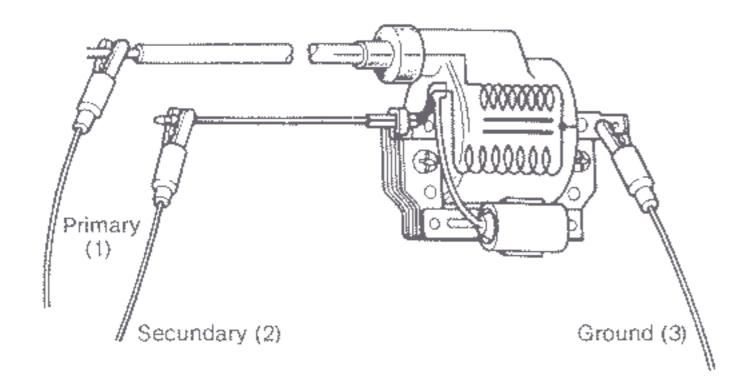
Note: To load the battery for the first time, ride 20 minutes without using the winkers.



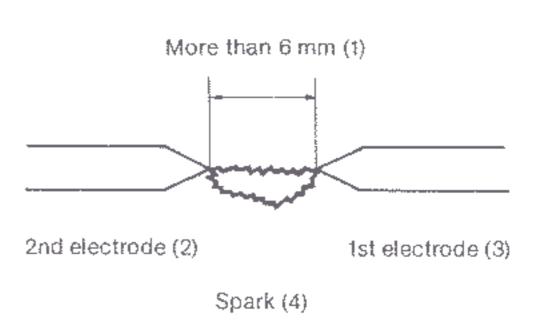


### Inspection

- Ignition coil
- 3. Point spark test



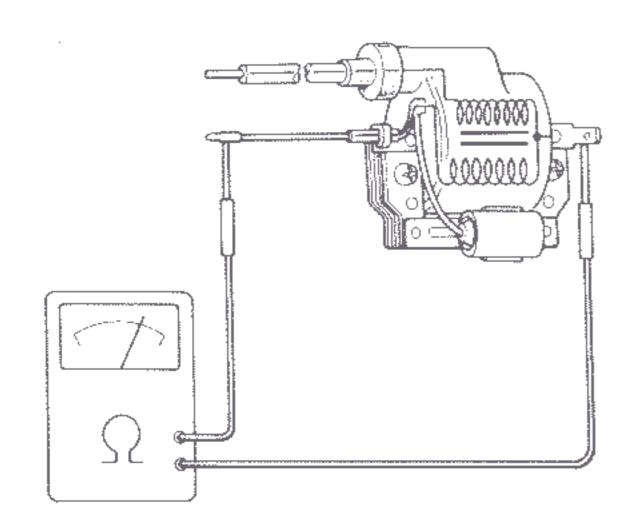
Connect according to service tester instructions.



Coil is normal if spark jumps 6 mm electrode gap on tester.

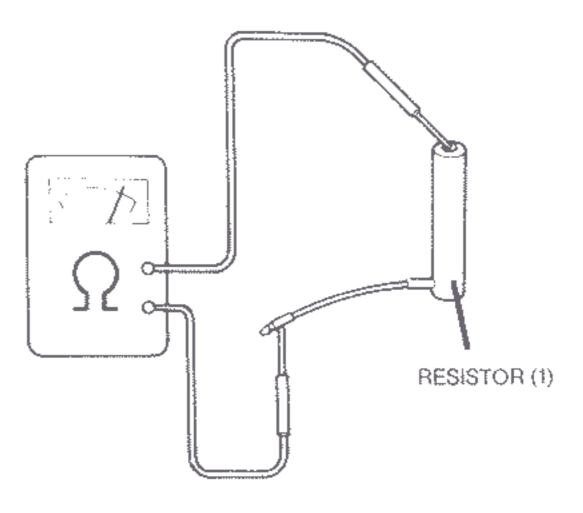
Continuity test

Check for continuity



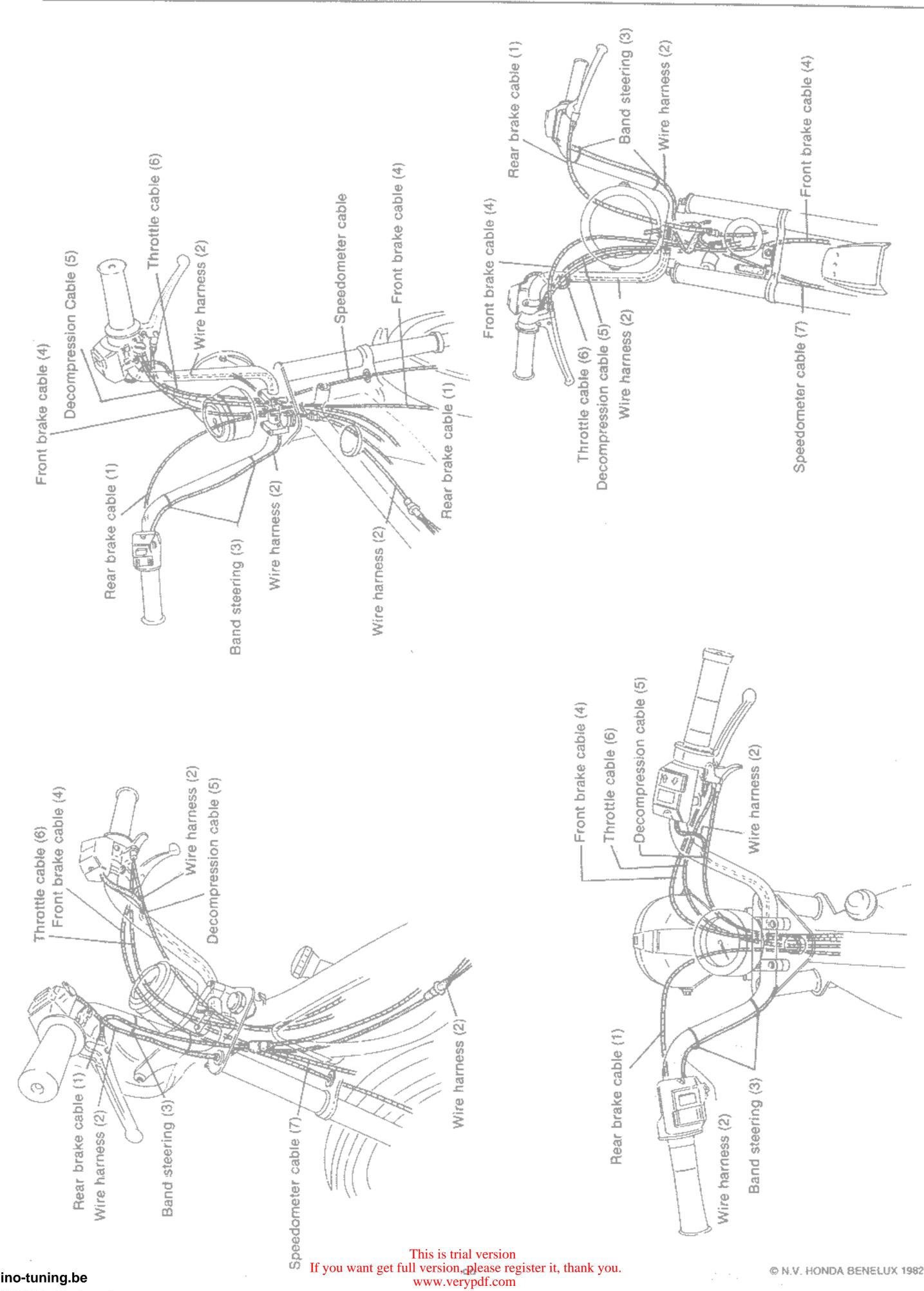
Resistor

Continuity test



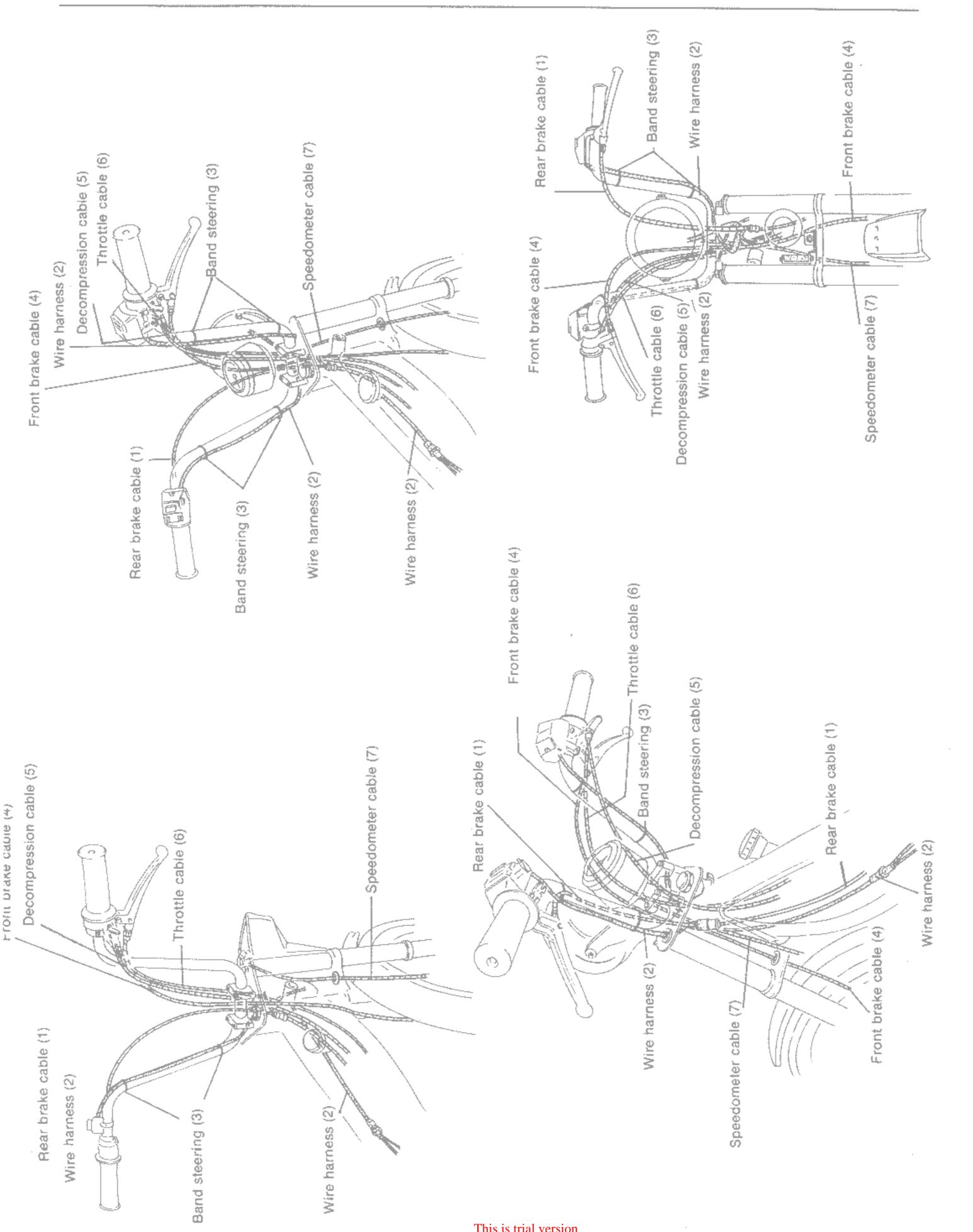






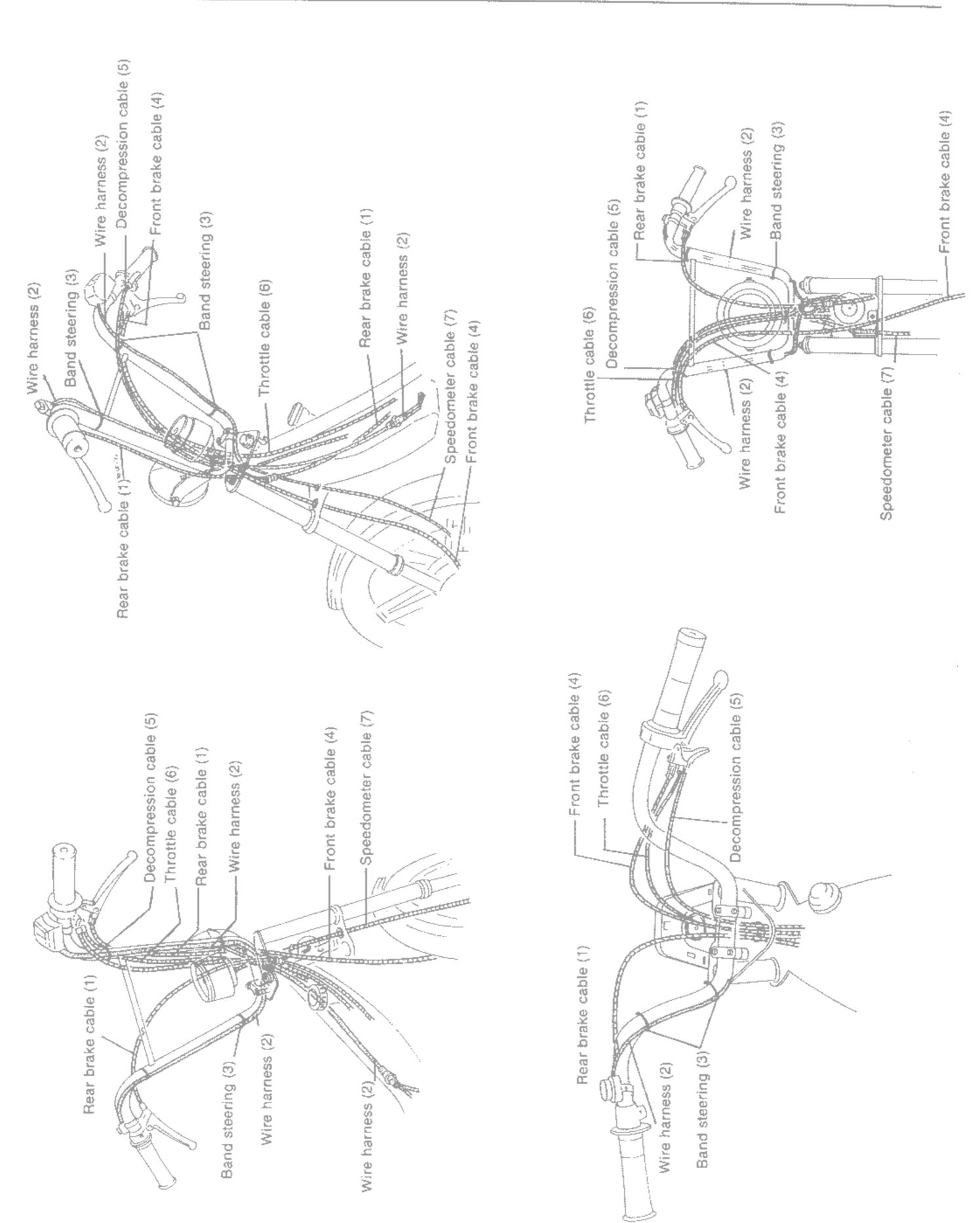








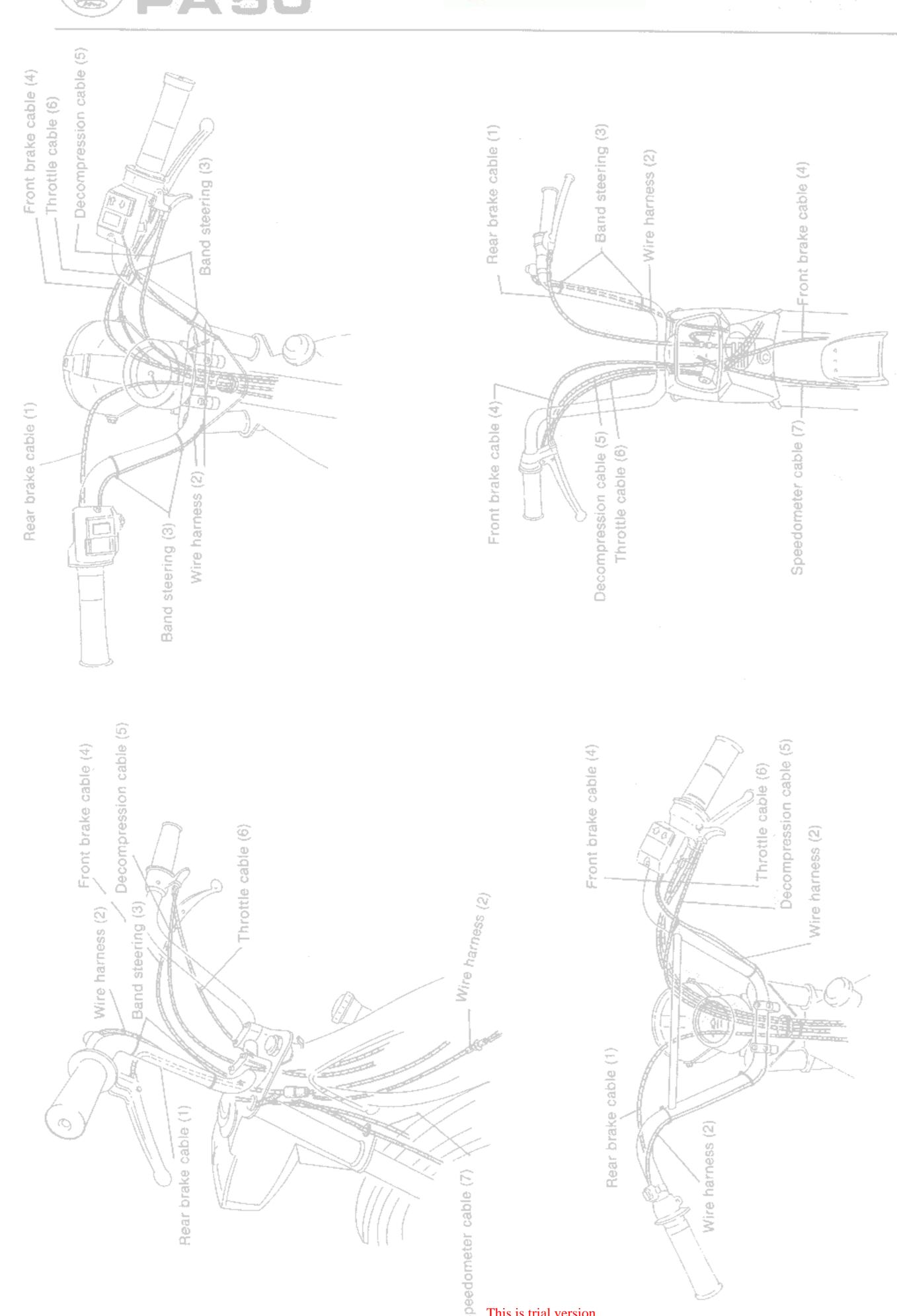




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