

## ILLUSTRATED SYMBOLS

### (Refer to the illustration)

Illustrated symbols ① to ⑨ are designed as thumb tabs to indicate the chapter's number and content.

- (1) General information
- (2) Periodic inspection and adjustment
- ③ Chassis
- (4) Power train
- (5) Cooling system
- 6 Engine
- ⑦ Carburetion
- 8 Electrical
- (9) Appendices

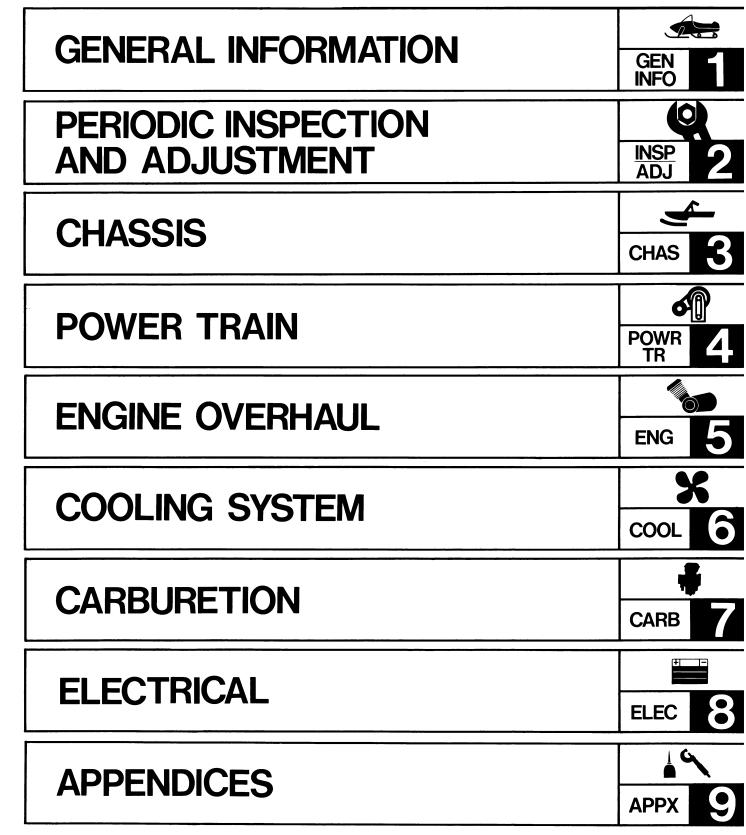
Illustrated symbols 0 to 5 are used to identify the specifications which appear.

- 1 Filling fluid
- (1) Lubricant
- (12) Tightening
- (1) Wear limit, clearance
- (14) Engine speed
- (15) Ω, V, A

Illustrated symbols (16) to (22) in the exploded diagram indicate grade of lubricant and location of lubrication point.

- (f) Apply locking agent (LOCTITE\*)
- (1) Apply engine oil
- (18) Apply gear oil
- (19) Apply molybdenum disulfide oil
- (2) Apply wheel bearing grease
- (2) Apply low-temperature lithium-soap base grease
- 2 Apply molybdenum disulfide grease

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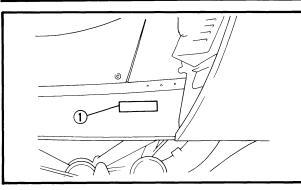
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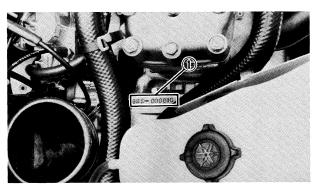
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EX570R WIRING DIAGRAM

EX570ER WIRING DIAGRAM







### GENERAL INFORMATION

### MACHINE IDENTIFICATION FRAME SERIAL NUMBER

The frame serial number (1) is located on the right-hand side of the frame (just below the front of the seat).

#### **ENGINE SERIAL NUMBER**

The engine serial number (1) is located on the right-hand side of the crankcase.

#### NOTE: \_\_\_\_

The first three digits of these numbers are for model identification; the remaining digits are the unit production number.

#### Starting Serial Number

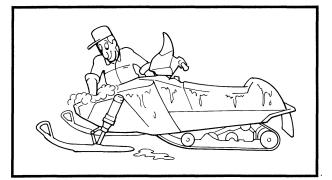
EX570R .....88R-000101 EX570ER .....88S-000101

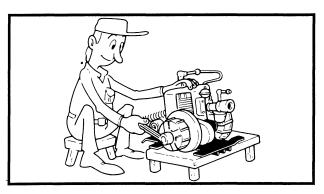
#### NOTE: \_\_\_\_\_

Designs and specifications are subject to change without notice.









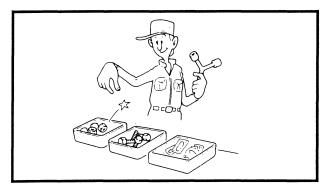


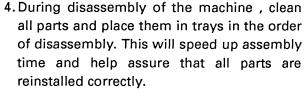
### IMPORTANT INFORMATION

### PREPARATION FOR REMOVAL AND DIS-ASSEMBLY

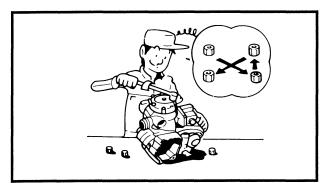
- Remove all dirt, mud, dust, and foreign material before removal and disassembly.
   While cleaning, take care to protect the electrical parts, such as relays, switches, motor, resistors, controllers, etc., from high pressure water splashes.
- 2. Use proper tools and cleaning equipment. Refer to "SPECIAL TOOLS".

3. When disassembling the machine, keep mated parts together. This includes gears, cylinders, pistons, and other parts that have been "mated" through normal wear. Mated parts must be reused as an assembly or replaced.





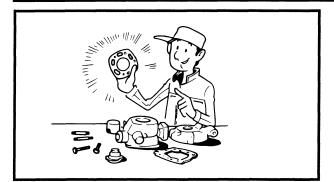
5. Keep away from fire.



6. Be sure to keep to tightening torque specifications. When tightening bolts, nuts, and screws, start with larger-diameter pieces, and proceed from an inner-positioned one to an outer-positioned one in a criss-cross pattern.



IMPORTANT INFORMATION



#### ALL REPLACEMENT PARTS

1. We recommend to use Yamaha genuine parts for all replacements. Use oil and/or grease recommended by Yamaha for assembly and adjustment.

### GASKETS, OIL SEALS, AND O-RINGS

- 1. All gaskets, seals, and O-rings should be replaced when an engine is overhauled. All gasket surfaces, oil seal lips, and O-rings must be cleaned.
- 2. Properly oil all mating parts and bearings during reassembly. Apply grease to the oil seal lips.

## LOCK WASHERS/PLATES AND COTTER PINS

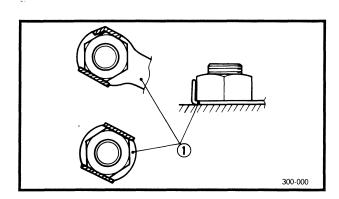
 All lock washers/plates ① and cotter pins must be replaced when they are removed. Lock tab(s) should be bent along the bolt or nut flat(s) after the bolt or nut has been properly tightened.

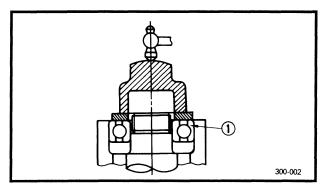
### **BEARINGS AND OIL SEALS**

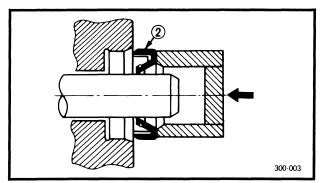
1. Install the bearing(s) ① and oil seal(s) ② with their manufacturer's marks or numbers facing outward. (In other words, the stamped letters must be on the side exposed to view.) When installing oil seal(s), apply a light coating of light-weight lithium base grease to the seal lip(s). Oil the bearings liberally when installing.

### CAUTION:

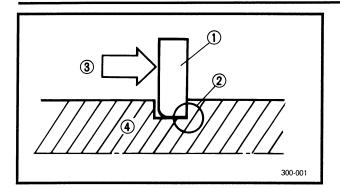
Do not use compressed air to spin the bearings dry. This causes damage to the surface of the bearings.







SPECIAL TOOLS



#### CIRCLIPS

- All circlips should be inspected carefully before reassembly. Always replace piston pin clips after one use. Replace misshapen circlips. When installing a circlip ①, make sure that the sharp edged corner ② is positioned opposite to the thrust ③ it receives. See the sectional view.
- (4) Shaft

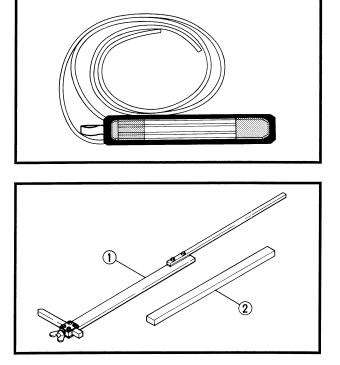
### SPECIAL TOOLS

The some special tools are necessary for complete accurate tune-up and assembly. Using the correct special tool will help prevent damage thet can be caused by the use of improper tools or improvised techniques.

#### NOTE: \_\_

Be sure to use the correct part number when ordering the tool, since the part number differs according to the area as shown below. The first part number is for Europe, and the last part is for the U.S.A. and Canada.

e.g. 90890 - \*\*\*\*\*, YU- \*\*\*\*\*



### FOR TUNE UP

1. Vacuum Gauge P/N —, YS-33275

This gauge is used for carburetor synchronization.

2. Sheave Gauge P/N — , YS-91047 ① P/N — , YS-33274 ②

This gauge is used to measure sheave distance and for offset adjustment.



3. Fuel Level Gauge P/N 90890-01312, YM-01312-A

This gauge is used to measure the fuel level in the float chamber.

### FOR ENGINE SERVICE

1. Universal Clutch Holder P/N 90890-04086, YM-91042

This tool is used to hold the starter pulley.

2. Piston Pin Puller P/N 90890-01304, YU-01304

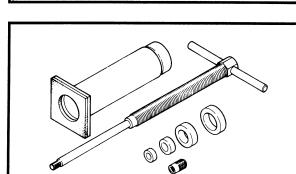
This tool is used to remove the piston pin.

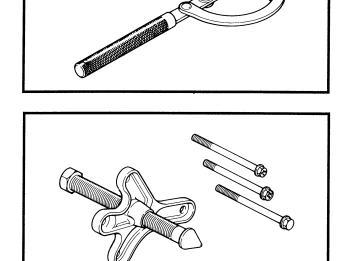
3. Universal Rotor Holder P/N 90890-01235, YU-01235

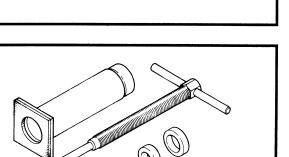
This tool is used to hold the CDI magneto.

4. Rotor Puller P/N 90890-01362, YU-33270

This tool is used to remove the magneto rotor.









5. Clutch Separator Adapter P/N --- , YS-34480

This tool is used when disassembling and assembling the primary sheave.

6. Track Clip Installer 

This tool is used for installing the track clip.

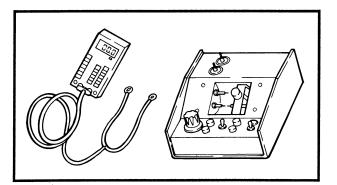
#### FOR ELECTRICAL SERVICE

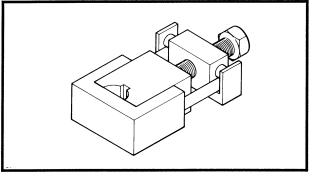
1. Pocket Tester P/N 90890-03112, YU-03112

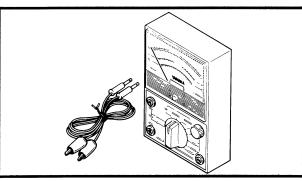
This instrument is necessary for checking the electrical components.

2. Electro Tester P/N 90890-03021, YU-33260

This instrument is invaluable for checking the electrical system.







### PERIODIC INSPECTIONS AND ADJUSTMENTS

### INTRODUCTION

This chapter includes all information necessary to perform recommended inspections and adjustments. These preventive maintenance procedures, if followed, will ensure more reliable machine operation and a longer service life. In addition, the need for costly overhaul work will be greatly reduced. This information applies to machines already in service as well as new machines that are being prepared for sale. All service technicians should be familiar with this entire chapter.

### PERIODIC MAINTENANCE TABLE

			Initial	Every
14 m m	Demodus	Pre-operation	1 Month or	Seasonally or
ltem	Remarks	check (Daily)	800 km (500 Mi) (40 hr)	3,200 km (2,000 Mi) (160 hr)
Spark Plug:	Check condition adjust the gap and clean. Replace if necessary.			٠
Engine Oil:	Check oil level.	•		
	* Air bleed the oil pump if necessary.			•
*Oil Filter:	Check condition. Replace if necessary.			٠
Fuel:	Check fuel level.	•		
*Fuel Filter:	Check condition. Replace if necessary.			٠
*Fuel Line:	Check fuel hose for cracks or damage. Replace if necessary.			٠
*Oil Line:	Check oil hose for cracks or damage. Replace if necessary.			•
Engine Coolent	Check coolant level.	•		
Engine Coolant	* Air bleed the cooling system if necessary.			•
	Check throttle lever operation.	•		
Carburetor	* Adjust the jets.,	Whenever operating condition (elevation/temperature) is changed.		
*Water Pump Belt	Check wear and damage. Replace if necessary.			•
*Water Fump Deit	Adjust water pump belt if necessary.			•
Manual Starter:	Check operation and rope damage. * Replace if necessary.	•		-
Engine Stop Switch:	Check operation * Repair if necessary.	•		
Throttle Override System:	Check operation. * Repair if necessary.	•		
Throttle Lever:	Check operation. <b>*</b> Repair if necessary.	•		
*Exhaust System:	Check for leakage. Retighten or replace gasket if necessary.			٠
*Decarbonization:	More frequently if necessary.			•
Drive V-belt Guard:	Check cracks, bends or damage. * Replace if necessary.	•		
Drive V-belt:	Check wear and damage. Replace if necessary.	•		
Drive Track/Idler Wheels:	Check deflection, wear and damage. * Adjust/replace if necessary.		** •	•
Slide Runner	Check wear and damage.	•		
	* Replace if necessary.			•

\*: It is recommended that these items be serviced by a Yamaha dealer or other qualified mechanic.

\*\*: Perform after 1 Month or 50 km (31 Mi) (2hr) and every 1 Month or 400 km (250 Mi)(20 hr).

### PERIODIC MAINTENANCE TABLE

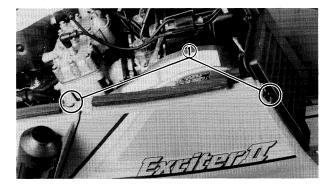


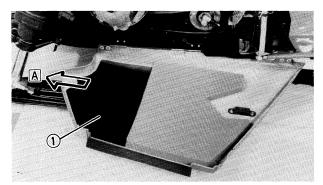
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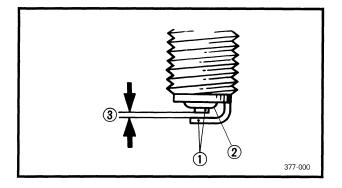
		Pre-operation	Initial 1 Month	Every Seasonally
ltem	Remarks	check (Daily)	or 800 km (500 Mi) (40 hr)	or 3,200 km (2,000 Mi) (160 hr)
	Check operation.	•		
Brake/ Parking Brake	<ul> <li>Adjust free play and/or replace pads if neces- sary.</li> </ul>			٠
	Check oil level.		•	
*Drive Chain Oil	Replace.			•
*Drive Chain:	Check deflection. Adjust if necessary.		**●	
Ski/	Check wear and damage.	•		
Ski Runner	* Replace if necessary.			٠
Oto anian Quatan	Check operation.	•		
Steering System	* Adjust toe-out if necessary.			٠
Lights:	Check operation. Replace bulbs if necessary.	•		
	Check fluid level.	•		
Battery	<ul> <li>Check specific gravity and breather pipe operation.</li> <li>Charge/Correct if necessary.</li> </ul>			•
	Check engagement and shift speed.			•
	Adjust if necessary.	Whenever operating elevation is changed.		
*Primary Sheave	Check wear and damage. Replace if necessary.			•
	Lubricate with specified grease.			•
	Lubricate with specified grease.			•
*Secondary Sheave	Adjust if necessary.	Whenever operating elevation is changed.		changed.
*Steering Column Bearing:	Lubricate with specified grease.			•
*Ski and Front Suspension:	Lubricate with specified grease.			•
*Suspention Component:	Lubricate with specified grease.			•
* Brake Cable End and	Lubricate with specified grease.			•
Lever End/ Throttle Cable End	Check cable damage. Replace if necessary.			•
Shroud Latches:	Make sure the shroud latches are hooked.	•		
Fittings/Fasteners:	Check tightness. * Repair if necessary.	•		
Service Tools/Spare Parts:	Check proper placement.	•		

\*: It is recommended that these items be serviced by a Yamaha dealer or other qualified mechanic. \*\*: Perform after 1 Month or 50 km (31 Mi) (2hr) and every 1 Month or 400 km (250 Mi)(20 hr).

### SIDE COWLING/SPARK PLUG







### SIDE COWLING

#### Removal

- 1. Open the shroud.
- 2. Remove:
  - Screws ①
- 3. Remove:
  - Side cowlings (left and right) ① Pull it forward A.

#### Installation

Reverse the "Removal" procedure.

#### ENGINE

#### SPARK PLUG

1. Remove:

- Spark plug
- 2. Inspect:
  - Electrode ① Wear/Damage→Replace.
  - Insulator color (2)
- 3. Measure:
  - Plug gap ③
     Out of specification→Regap.
     Use Wire Thickness Gauge.



Spark Plug Gap: 0.7 ~0.8 mm (0.028 ~ 0.032 in)



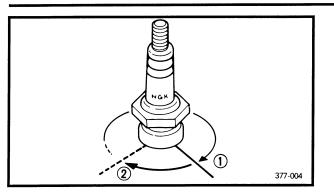
Clean the plug with a spark plug cleaner if necessary.

Standard spark plug: BR9ES (NGK)

Before installing a spark plug, clean the gasket surface and plug surface.







## 4. Tighten:Spark plug



Spark Plug: 28 Nm (2.8 m·kg, 20 ft·lb)

#### NOTE:\_

Finger-tighten (1) the spark plug before torquing (2) to specification.

### OIL PUMP

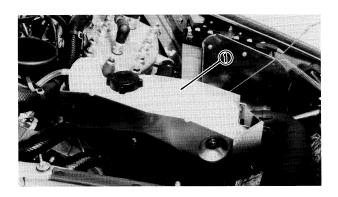
#### Air Bleeding

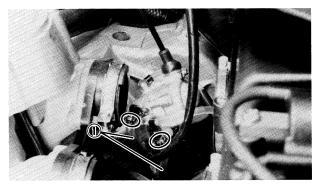
### CAUTION:

- The oil pump and delivery line must be bled on the following occasions:
- When any portion of the oil system has been disconnected.
- When the machine has been turned on its side.
- Whenever the oil tank has been run empty.
- During predelivery.

#### 1. Remove:

- Drive V-belt guard (See page 2-16)
- Carburetors (See page 7-2)



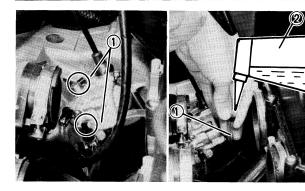


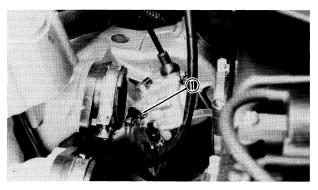
- 2.Fill:
  - Oil tank (1)

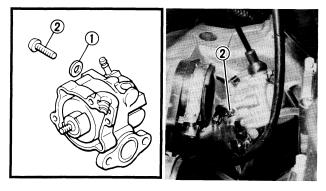
Oil tank capacity 3.0 L (2.6 Imp qt, 3.2 US qt) Recommended oil: Yamalube 2-cycle oil

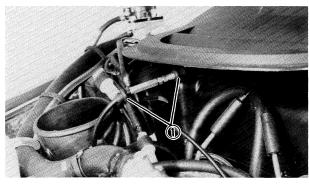
- 3. Place a rag under the oil pump assembly to catch oil.
- 4. Disconnect:
  - Oil hoses ①
- 5. Keep the oil running out until air bubbles disappear from the oil hoses ①
- 6. Connect:
  - Oil hoses ①

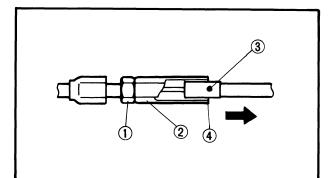












- 7. Disconnect:
- Oil delivery hoses ①
- 8. Feed the "Yamalube 2-cycle oil" into the oil delivery hoses () using a oil can(2) for complete air bleeding.
- 9. Connect:
  - Oil delivery hoses ①
- 10. Remove:
  - Bleed screw (1)
  - Gasket (bleed screw)
- 11. Keep the oil running out until air bubbles disappear from bleed hole.
- 12. Inspect:
  - Gasket (bleed screw) ①
     Wear/Damage → Replace.
- 13. Install:
  - Gasket (bleed screw)
  - Bleed screw 2
- **Cable Adjustment**

#### NOTE: \_

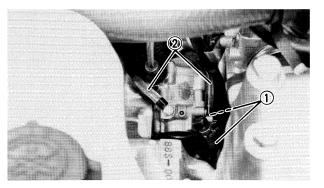
Before adjusting the oil pump cable, the throttle cable free play should be adjusted.

- 1. Pull back the adjuster cover ① .
- 2. Adjust:
  - Oil pump cable

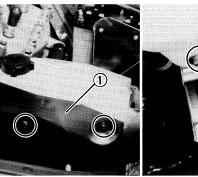
#### Adjusting steps:

- ullet Loosen the locknut ildot .
- Hold the throttle lever at full-throttle position.
- Turn the adjuster (2) in or out until the adjustment mark (3) is aligned with the end (4) of the adjuster.
- Tighten the locknut and install the rubber caps from both sides.

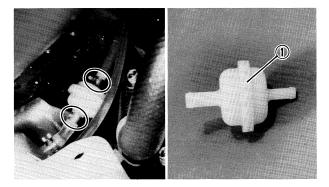




## 2







### ENGINE OIL LINE INSPECTION

- 1. Inspect:
  - Oil hoses ①
  - Oil delivery hoses ② Crack/Damage→Replace.

### **OIL FILTER INSPECTION**

- 1. Remove:
  - Cover (oil tank-right) ①
  - Oil tank stay 2

- 2. Disconnect:
  - Oil hoses

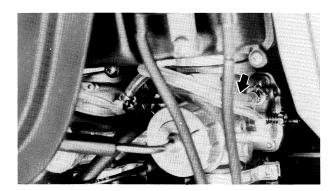
#### NOTE: \_

Plug the oil hoses so that the oil will not run out of the oil tank and oil pump.

- 3. Inspect:
  - Oil filter ①
     Contamination→Replace.

Recommended replacement interval: Every season

4. Reverse the removal procedure.



### FUEL LINE INSPECTION

- 1. Inspect:
  - Fuel hoses
  - Fuel delivery hoses Crack/Damage→Replace.

## FUEL FILTER INSPECTION/

### FUEL FILTER INSPECTION

- 1. Remove:
  - Seat ①

- 2. Disconnect:
  - Tail/brake light coupler (1)

3. Remove:

- Spring bands (1)
- Cap (2)
- Fuel filter ③

- 4. Inspect:
  - Fuel filter ①
     Contamination→Replace.

Recommended replacement interval: Every season

5. Reverse the removal procedure.

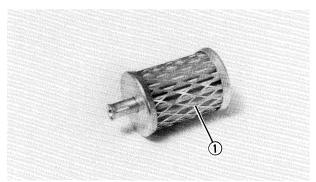
### COOLING SYSTEM Coolant Replacement

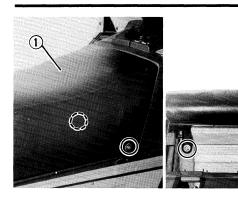
### NOTE:

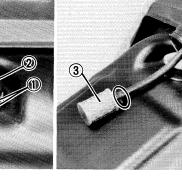
The coolant should be changed at least seasonally.

- 1. Place the machine on a level surface.
- 2. Remove:
  - Side cowling (right) (See page 2-3)
  - Seat









# IG SYSTEM ADJ



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