

Ninja ZX-25R

Motorcycle

OWNER'S MANUAL

 Read this manual carefully. It contains safety information.

Quick Reference Guide

This Quick Reference Guide will assist you in finding the information you're looking for.

SAFETY INFORMATION

GENERAL INFORMATION

HOW TO RIDE THE MOTORCYCLE

MAINTENANCE AND ADJUSTMENT

APPENDIX

MAINTENANCE RECORD

A Table of Contents is included after the Foreword.

Whenever you see the symbols shown below, heed their instructions! Always follow safe operating and maintenance practices.

 DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

 WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

NOTICE

NOTICE is used to address practices not related to personal injury.

NOTE

- *NOTE* indicates information that may help or guide you in the operation or service of the vehicle.

NOTICE

**THIS PRODUCT HAS BEEN
MANUFACTURED FOR USE IN A
REASONABLE AND PRUDENT
MANNER BY A QUALIFIED OP-
ERATOR AND AS A VEHICLE
ONLY.**

Foreword

Congratulations on your purchase of a new Kawasaki motorcycle. Your new motorcycle is the product of Kawasaki's advanced engineering, exhaustive testing, and continuous striving for superior reliability, safety and performance.

Please read this Owner's Manual carefully before riding so that you will be thoroughly familiar with the proper operation of your motorcycle's controls, its features, capabilities, and limitations. This manual offers many safe riding tips, but its purpose is not to provide instruction in all the techniques and skills required to ride a motorcycle safely. Kawasaki strongly recommends that all operators of this vehicle enroll in a motorcycle rider training program to attain awareness of the mental and physical requirements necessary for safe motorcycle operation.

To ensure a long, trouble-free life for your motorcycle, give it the proper care and maintenance described in this manual. For those who would like more detailed information on their Kawasaki Motorcycle, a Service Manual is available for purchase from any authorized Kawasaki motorcycle dealer. The Service Manual contains detailed disassembly and maintenance information. Those who plan to do their own work should, of course, be competent mechanics and possess the special tools described in the Service Manual.

Keep this Owner's Manual aboard your motorcycle at all times so that you can refer to it whenever you need information.

This manual should be considered a permanent part of the motorcycle and should remain with the motorcycle when it is sold.

All rights reserved. No part of this publication may be reproduced without our prior written permission.

This publication includes the latest information available at the time of printing. However, there may be minor differences between the actual product and illustrations and text in this manual.

All products are subject to change without prior notice or obligation.

KAWASAKI HEAVY INDUSTRIES, LTD.
Motorcycle & Engine Company

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SAFETY INFORMATION

Read Owner's Manual

Read this Owner's Manual carefully before riding so that you will be thoroughly familiar with the proper operation of your motorcycle's controls, its features, capabilities, and limitations. This manual offers many safe riding tips, but its purpose is not to provide instruction in all of the techniques and skills required to ride a motorcycle safely.

Training

Kawasaki strongly recommends that all operators of this vehicle complete a suitable motorcycle rider training program to learn the proper skills and techniques necessary for safe motorcycle operation.

Daily Checks and Periodic Maintenance

It is important to keep your motorcycle properly maintained and in safe riding condition. Inspect your motorcycle before every ride and carry out all periodic maintenance. See the Daily Checks section and the Periodic Maintenance section in the MAINTENANCE AND ADJUSTMENT chapter for more information.

WARNING

Failure to perform these checks or to correct a problem before operation may result in serious damage or an accident. Always perform daily checks before operation.

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To ensure your motorcycle is serviced using the latest servicing information, it is recommended that an authorized Kawasaki Dealer performs the periodic maintenance as directed in the Owner's Manual.

If you notice any irregular operating condition, have your motorcycle thoroughly checked at an authorized Kawasaki dealer as soon as possible.

Loading and Accessories Information



WARNING

Incorrect loading, improper installation or use of accessories or modification of your motorcycle may result in an unsafe riding condition. Before you ride the motorcycle, make sure it is not overloaded and that you have followed these instructions.

Maximum Load

Weight of rider, passenger, baggage, and accessories must not exceed 180 kg (397 lb).

With the exception of genuine Kawasaki Parts and Accessories, Kawasaki has no control over the design or application of accessories. In some cases, improper installation

or use of accessories, or motorcycle modification, will void the motorcycle warranty; can negatively affect performance, stability and safety; and can even be illegal.

In selecting and using accessories, and in loading the motorcycle, you are personally responsible for your own safety and the safety of other persons involved.

NOTE

○ *Kawasaki Parts and Accessories have been specially designed for use on Kawasaki motorcycles. We strongly recommend that all parts and accessories you add to your motorcycle be genuine Kawasaki components.*

Because a motorcycle is sensitive to changes in weight and aerodynamic forces, you must take extreme care in carrying cargo, passengers and/or in

fitting additional accessories. The following general guidelines have been prepared to assist you in making your determinations.

Passenger

1. Never carry more than one passenger.
2. The passenger should only sit on the pillion.
3. Any passenger should be thoroughly familiar with motorcycle operation. The passenger can affect control of the motorcycle by improper positioning during cornering and sudden movements. It is important that the passenger sits still while the motorcycle is in motion and not interfere with the operation of the motorcycle. Do not carry animals on your motorcycle.

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4. Do not carry passengers unless passenger footpegs are installed. Instruct any passenger before riding to keep his or her feet on the passenger footpegs and hold on to the operator or seat strap. Do not carry a passenger unless he or she is tall enough to reach the footpegs with their feet.

Baggage and Luggage

1. All baggage should be carried as low as possible to reduce the effect on the motorcycle's center of gravity. Baggage weight should also be distributed equally on both sides of the motorcycle. Avoid carrying baggage that extends beyond the rear of the motorcycle.
2. Baggage should be securely attached. Make sure that the baggage

will not move around while you are riding. Recheck baggage security as often as possible (not while the motorcycle is in motion) and adjust as necessary.

3. Do not carry heavy or bulky items on a luggage rack. It is designed for light items, and overloading can affect handling due to changes in weight distribution and aerodynamic forces.

Accessories

1. Do not install accessories or carry baggage that impairs the performance of the motorcycle. Make sure that you have not adversely affected any lighting components, road clearance, banking capability (i.e., lean angle), control operation, wheel travel, front fork movement,

or any other aspects of the motorcycle's operation.

2. Weight attached to the handlebar or front fork will increase the mass of the steering assembly and can result in an unsafe riding condition.
3. Fairings, windshields, backrests, and other large items have the capability of adversely affecting stability and handling of the motorcycle, not only due to their weight, but also due to the aerodynamic force acting on these surfaces while the motorcycle is in operation. Poorly designed or installed items can result in an unsafe riding condition. Lugs are provided on the swingarm to attach accessory rear stand adapters. Always remove the rear stand adapters before riding or sitting on the machine to prevent possible damage to the muffler or swingarm.

Other Load

1. This motorcycle is not intended to be equipped with a sidecar or to be used to tow any trailers or other vehicles. Kawasaki does not manufacture sidecars or trailers for motorcycles and cannot predict the effects of such accessories on handling or stability, but can only warn that the effects can be adverse and that Kawasaki cannot assume responsibility for the results of such unintended use of the motorcycle.
2. Furthermore, any adverse effects on motorcycle components caused by the use of such accessories will not be remedied under warranty.

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If You are Involved in an Accident

Make sure of your own safety first. Determine the severity of any injuries and call for emergency assistance if needed. Always follow applicable laws and regulations if any other person, vehicle or property is involved.

Do not attempt to continue riding without first evaluating your motorcycle's condition. Inspect for fluid leaks, check critical nuts and bolts, and check the handlebars, control levers, brakes, and wheels for damage and proper function. Ride slowly and cautiously - your motorcycle may have suffered damage that is not immediately apparent. Have your motorcycle thoroughly checked at a Kawasaki dealer as soon as possible.

Safe Operation

The following should be carefully observed for safe and effective vehicle operation.

Carbon Monoxide Hazard

DANGER

Exhaust gas contains carbon monoxide, a colorless, odorless poisonous gas. Inhaling carbon monoxide can cause serious brain injury or death. DO NOT run the engine in enclosed areas. Operate only in a well-ventilated area.

Fueling

 WARNING

Gasoline is extremely flammable and can be explosive under certain conditions.

To avoid a possible fire or explosion, turn the ignition switch off. Do not smoke. Make sure the area is well ventilated and free from any source of flame or sparks; this includes any appliance with a pilot light.

Never Ride with Drugs or Alcohol

Alcohol and drugs impair your judgment and reaction time. Never consume alcohol or drugs before or while riding motorcycles.

Protective Gear and Clothing

Helmet

Kawasaki strongly recommends both the operator and passenger wear a helmet even if this is not a legal requirement.

- Make sure that your helmet fits correctly and is properly fastened.
- Choose a motorcycle helmet that meets the safety standards applicable to your country. Ask your motorcycle dealer to advise you if necessary.

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Eye Protection

Always use eye protection. If your helmet does not have a visor installed, wear goggles.

Gloves

Wear gloves which have suitable protection for your hands, especially against abrasion.

Clothing

Wear the riding wear which have protectors for each parts of the body (chest, shoulders, back, elbows and knees, etc.) as much as possible, or wear protectors for them.

- Always wear a long-sleeved jacket and long trousers which are abrasion resistant and keep you warm.
- Wear clothing that allows freedom of movement.
- Avoid wearing clothes which have loose cuffs or other fastenings which

could interfere with the controls of your motorcycle.

- Wear bright, highly visible clothing.

Boots

Wear proper protective boots that fit properly and do not interfere with gear shifting or braking.

Safe Riding Techniques

Keep Hands on Handlebars

When riding always keep both hands on the handlebars and both feet on the footpegs. Removing your hands from the handlebars or feet from the footpegs while riding can be hazardous. If you remove even one hand or foot, you reduce your ability to control the motorcycle.

Look Over Your Shoulder

Before changing lanes, look over your shoulder to make sure the way is clear. Do not rely solely on the rear view mirror; you may misjudge a vehicle's distance and speed, or you may not see it at all.

Accelerate and Brake Smoothly

In general your actions should be smooth as sudden acceleration, braking or turning may cause loss of control, especially when riding in wet conditions or on loose road surfaces, when the ability to maneuver will be reduced.

Select Correct Gear Speeds

When going up steep slopes, shift to a lower gear so that there is power to spare rather than overloading the engine.

Use Both Front and Rear Brakes

When applying the brakes, use both the front and rear brakes. Applying only one brake for sudden braking may cause the motorcycle to skid and lose control.

Use Engine Brake

When going down long slopes, help control vehicle speed by closing the throttle so that the engine can act as an auxiliary brake. Use the front and rear brakes for primary braking.

Riding in Wet Conditions

Rely more on the throttle to control vehicle speed and less on the front and rear brakes. The throttle should also be used judiciously to avoid skidding the rear wheel from too rapid acceleration or deceleration.

Braking performance is also reduced in wet conditions. Carefully ride at a

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slow speed and apply the brakes several times to help dry and restores them to normal operating performance.

Lubricate the drive chain after wet-weather riding to prevent rust and corrosion.

Ride Prudently

Riding at the proper speed and avoiding unnecessarily fast acceleration are important not only for safety and low fuel consumption but also for long vehicle life and quieter operation.

Riding on Rough Roads

Exercise caution, slow down, and grip the fuel tank with the knees for better stability.

Acceleration

When quick acceleration is necessary to pass another vehicle, shift to a lower gear to obtain the necessary power.

Downshifting

To avoid engine damage and rear-wheel lock-up do not downshift at high rpm.

Avoid Unnecessary Weaving

Unnecessary weaving jeopardizes the safety of both the rider and other motorists.

Additional Considerations for High Speed Operation

 WARNING

Handling characteristics of a motorcycle at high speeds may vary from those you are familiar with at legal highway speeds. Do not attempt high speed operation unless you have received sufficient training and have the required skills. Do not operate at high speeds on public roads.

Brakes

The importance of the brakes, especially during high speed operation, cannot be overemphasized. Check to

see that they are correctly adjusted and functioning properly.

Steering

Looseness in the steering can cause loss of control. Check to see that the handlebar turns freely but has no play.

Tires

High speed operation is hard on tires, and good tires are crucial for safe riding. Examine their overall condition, inflate them to the proper pressure, and check the wheel balance.

Fuel

Have sufficient fuel for the high fuel consumption during high speed operation.

Engine Oil

To avoid engine seizure and resulting loss of control, make sure that the oil level is at the upper level line.

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Coolant

To avoid overheating, check that the coolant level is at the upper level line.

Electrical Equipment

Make sure that the headlight, brake/tail light, turn signals, horn, etc., all work properly.

Miscellaneous

Make sure that all nuts and bolts are tight and that all safety related parts are in good condition.

GENERAL INFORMATION

Specifications

PERFORMANCE

Maximum Horsepower	32.5 kW (44 PS) @15 500 r/min (rpm) (ID) 36.8 kW (50 PS) @15 500 r/min (rpm)
Maximum Torque	21.2 N·m (2.2 kgf·m, 16 ft·lb) @13 000 r/min (rpm) (ID) 22.9 N·m (2.3 kgf·m, 17 ft·lb) @14 500 r/min (rpm)
Minimum Turning Radius	2.6 m (8.5 ft)

DIMENSIONS

Overall Length	1 980 mm (77.95 in.)
Overall Width	750 mm (29.5 in.)
Overall Height	1 110 mm (43.70 in.)
Wheelbase	1 380 mm (54.33 in.)
Road Clearance	125 mm (4.92 in.)

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Curb Mass	ZX250E	183 kg (404 lb)
	ZX250F	180 kg (397 lb)
	ZX250G	184 kg (406 lb)
		(ID) 182 kg (401 lb)

ENGINE

Type	DOHC, 4-cylinder, 4-stroke, liquid-cooled
Displacement	250 cm ³ (15.26 cu in.)
	(ID) 249.8 cm ³ (15.24 cu in.)
Bore × Stroke	50.0 × 31.8 mm (1.97 × 1.25 in.)
Compression Ratio	11.5:1
Starting System	Electric starter
Cylinder Numbering Method	Left to right, 1-2-3-4
Firing Order	1-2-4-3
Fuel System	FI (Fuel Injection)
Ignition System	Battery and coil (transistorized ignition)

Ignition Timing (Electronically advanced)		10.0° BTDC @1 500 r/min (rpm) ~ 47.0° BTDC @9 500 r/min (rpm) (ID) 10.0° BTDC @1 500 r/min (rpm) ~ 43.0° BTDC @16 000 r/min (rpm)
Spark Plug:	Type	NGK LMAR9G
	Gap	0.7 ~ 0.8 mm (0.028 ~ 0.031 in.)
Lubrication System		Forced lubrication (wet sump)
Engine Oil:	Type	API SG, SH, SJ, SL, or SM with JASO MA, MA1 or MA2
	Viscosity	SAE 10W-40
	Capacity	2.9 L (3.1 US qt)
Coolant Capacity		1.9 L (2.0 US qt)

TRANSMISSION

Transmission Type	6-speed, constant mesh, return shift
Clutch Type	Wet, multi disc
Driving System	Chain drive
Primary Reduction Ratio	2.900 (87/30)

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Final Reduction Ratio		3.571 (50/14)
		(ID, PH) 3.429 (48/14)
Overall Drive Ratio		10.741 (Top gear)
		(ID, PH) 10.311 (Top gear)
Gear Ratio:	1st	2.929 (41/14)
	2nd	2.056 (37/18)
	3rd	1.619 (34/21)
	4th	1.333 (32/24)
	5th	1.154 (30/26)
	6th	1.037 (28/27)

FRAME

Caster		24.2°
Trail		99 mm (3.9 in.)
Tire Size:	Front	110/70R17 M/C 54H
	Rear	150/60R17 M/C 66H
Rim Size:	Front	17M/C × MT3.50
	Rear	17M/C × MT4.50

Fuel Tank Capacity 15 L (4.0 US gal)

Brake Fluid: Front DOT4

Rear DOT4

ELECTRICAL EQUIPMENT

Battery 12 V 6 Ah (10 HR)

Headlight: High Beam LED

Low Beam LED

City Light LED

Brake/Tail Light LED

Turn Signal Light: Front 12 V 10 W (RY10W)

Rear 12 V 10 W (WY10W)

License Plate Light LED

ID: Indonesia model

PH: Philippines model

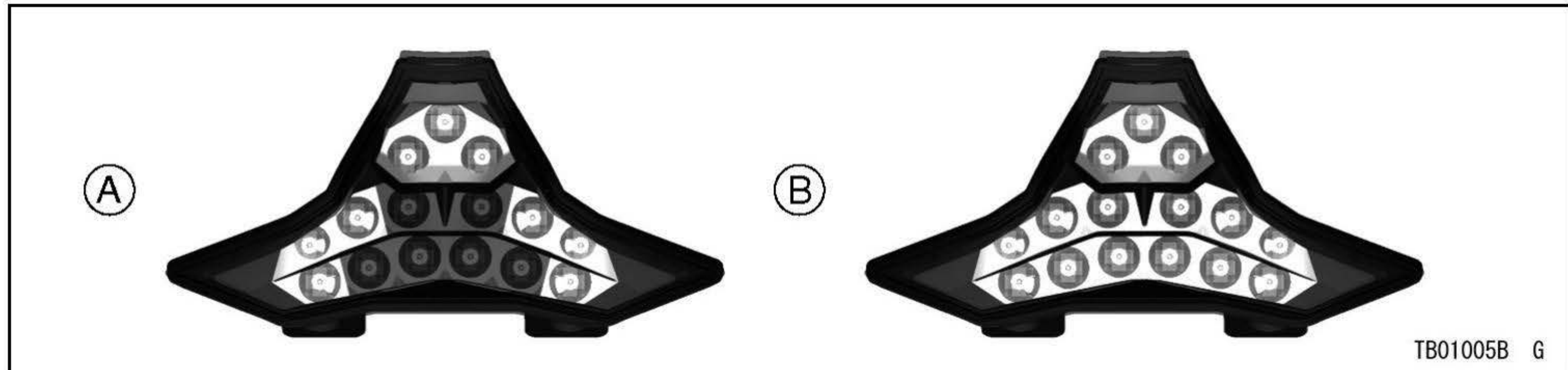
Even if any one element of LED (Light Emitting Diode) light does not go on, consult with an authorized Kawasaki dealer.

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Brake/Tail Light

(Except Indonesia model)

The brake/tail light goes on as below.



A. When the ignition switch is turned on.

B. When the brakes are applied.

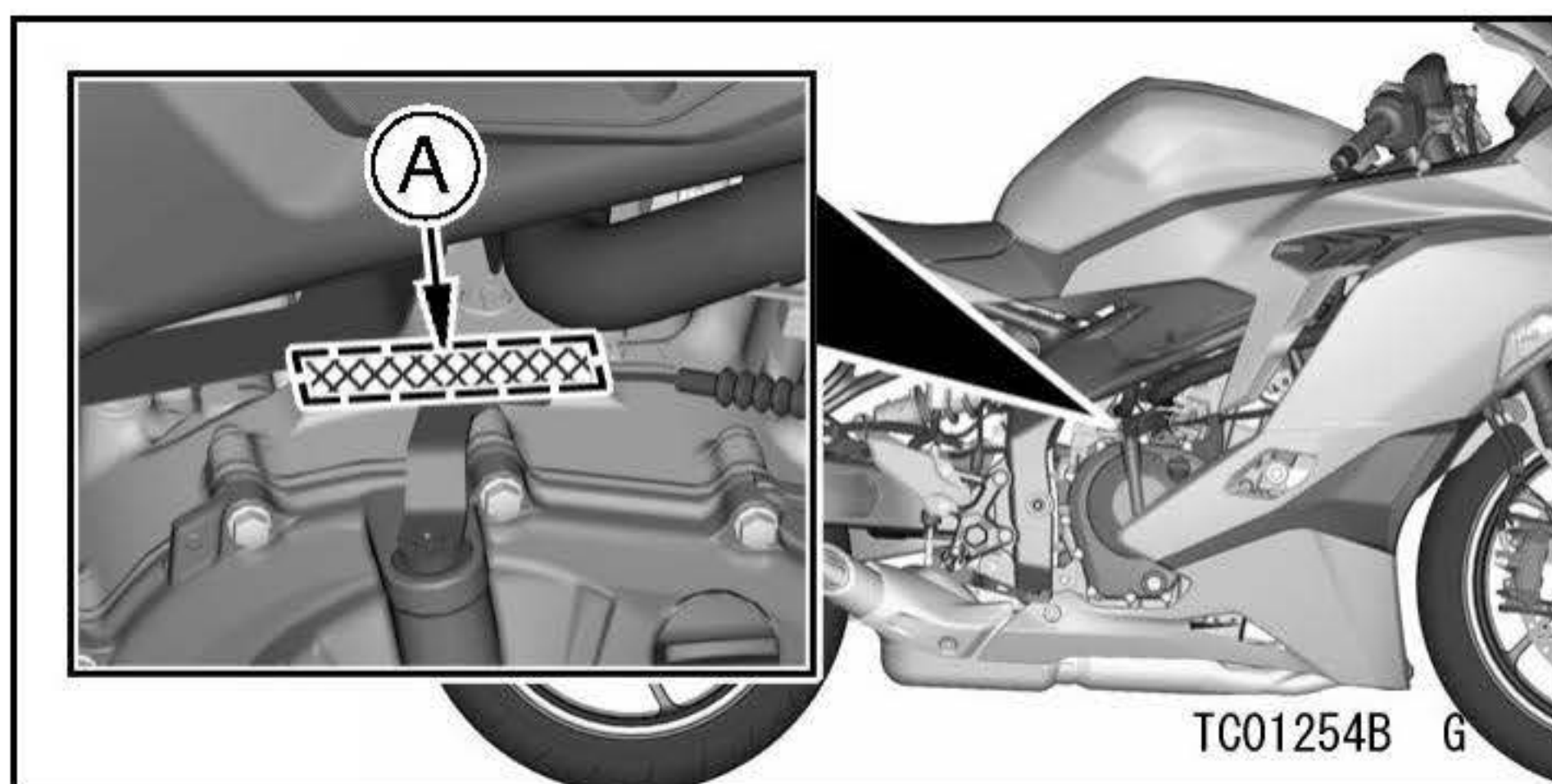
When the ignition switch is turned on, some LED does not go on, however, it is normal.

Specifications are subject to change without notice, and may not apply to every country.

Serial Number Locations

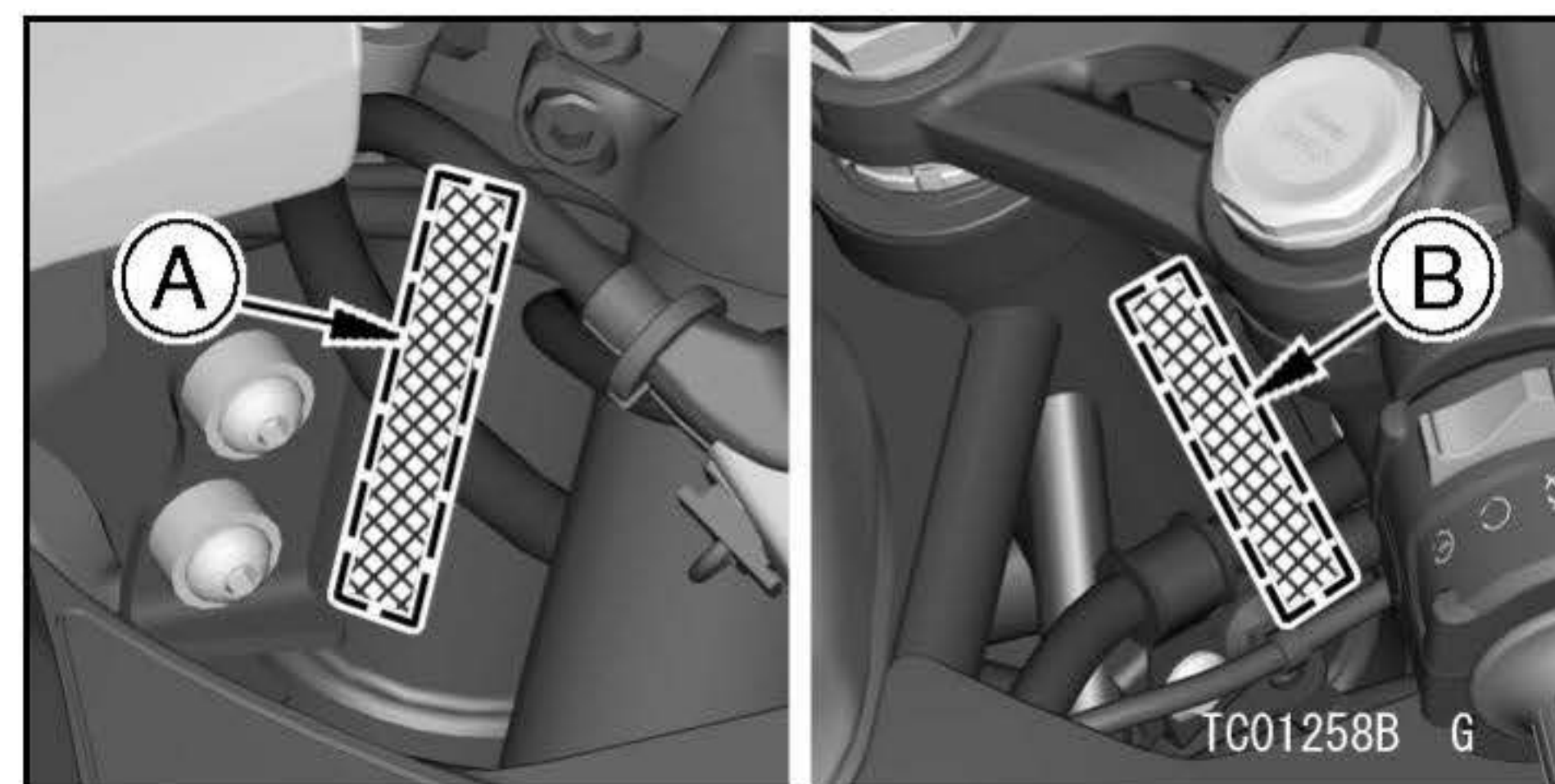
The engine and frame serial numbers are used to register the motorcycle. They are the only means of identifying your particular machine from others of the same model type. These serial numbers may be needed by your dealer when ordering parts. In the event of theft, the investigating authorities will require both numbers as well as the model type and any peculiar features of your machine that can help them identify it.

Engine No.



A. Engine Number

Frame No.



**A. Frame Number (Indonesia Model)
B. Frame Number (Except for Indonesia Model)**

Location of Labels

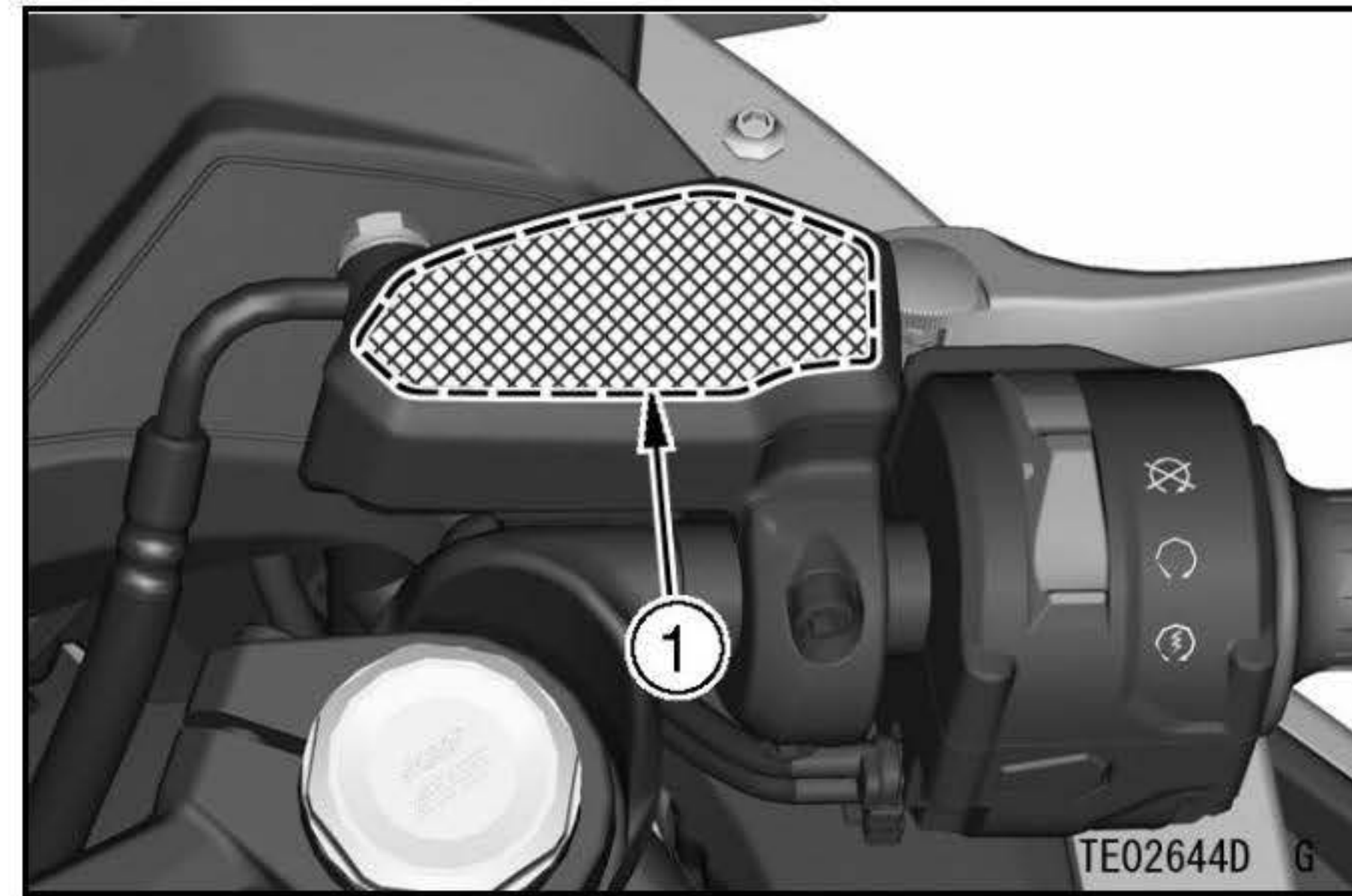
All warning labels which are on your vehicle are repeated here. Read labels on your vehicle and understand them thoroughly. They contain information which is important for your safety and the safety of anyone else who may operate your vehicle. Therefore, it is very important that all warning labels be on your vehicle in the locations shown. If any label is missing, damaged, or worn, get a replacement from your Kawasaki dealer and install it in the correct position.

NOTE

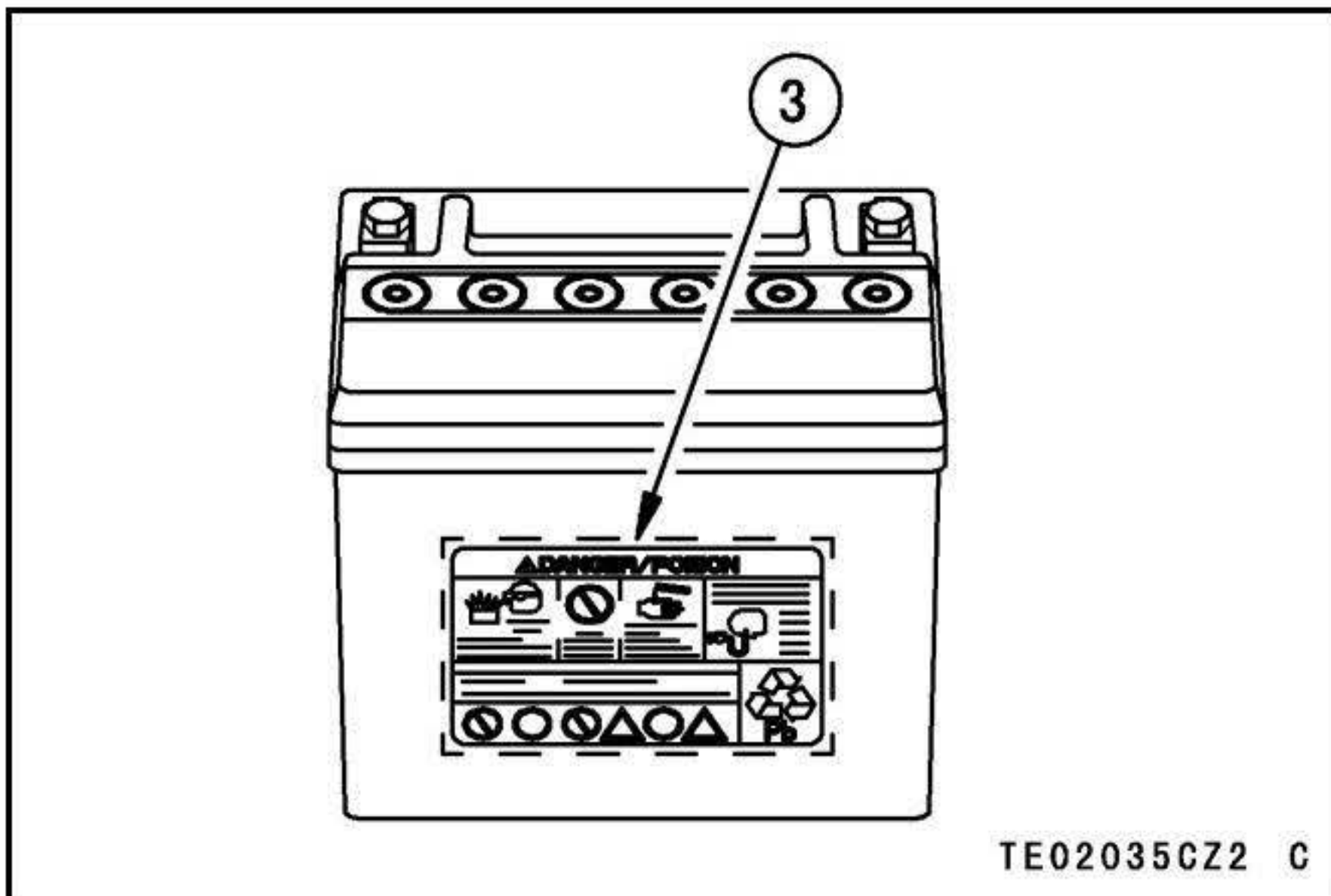
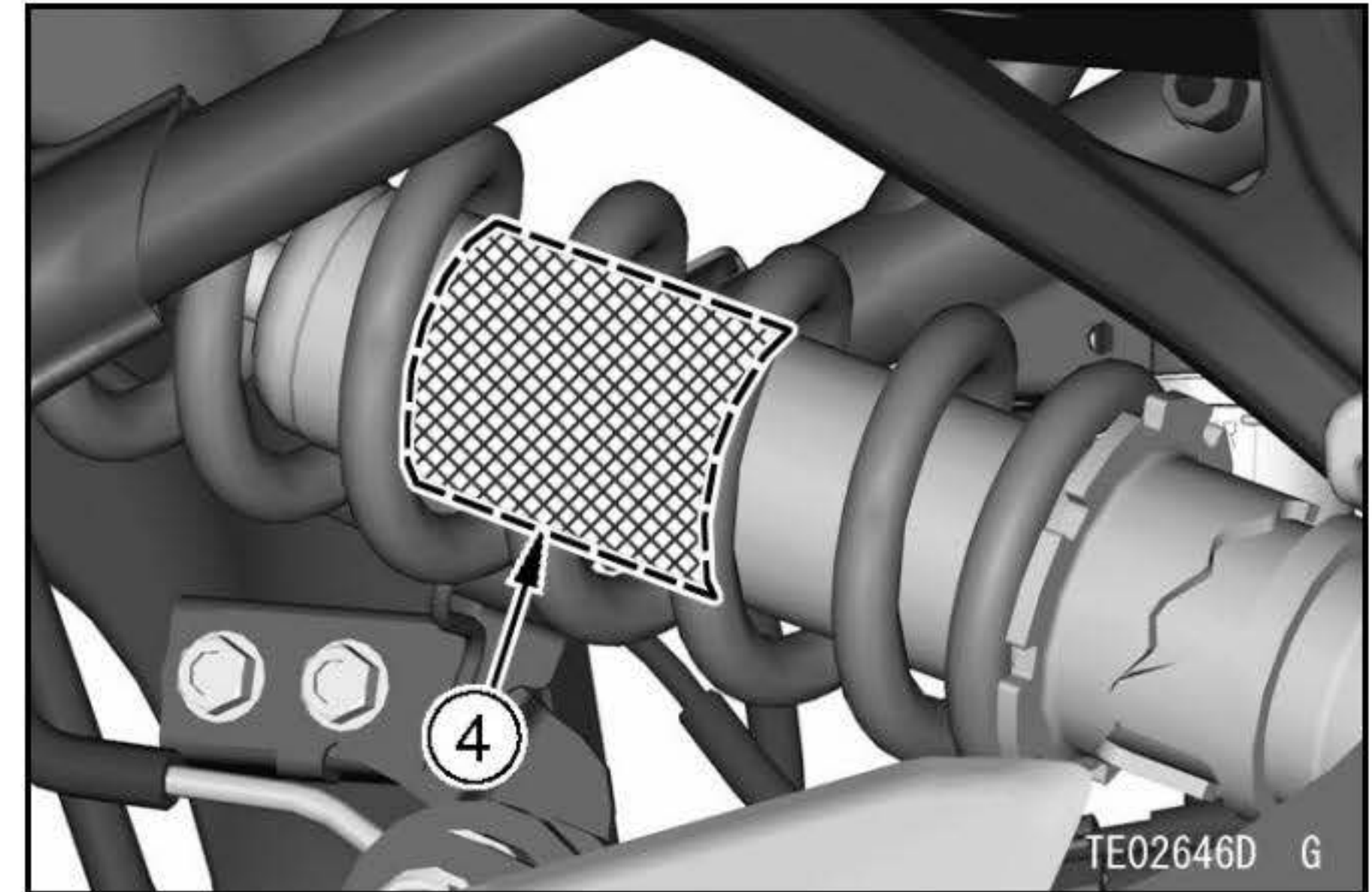
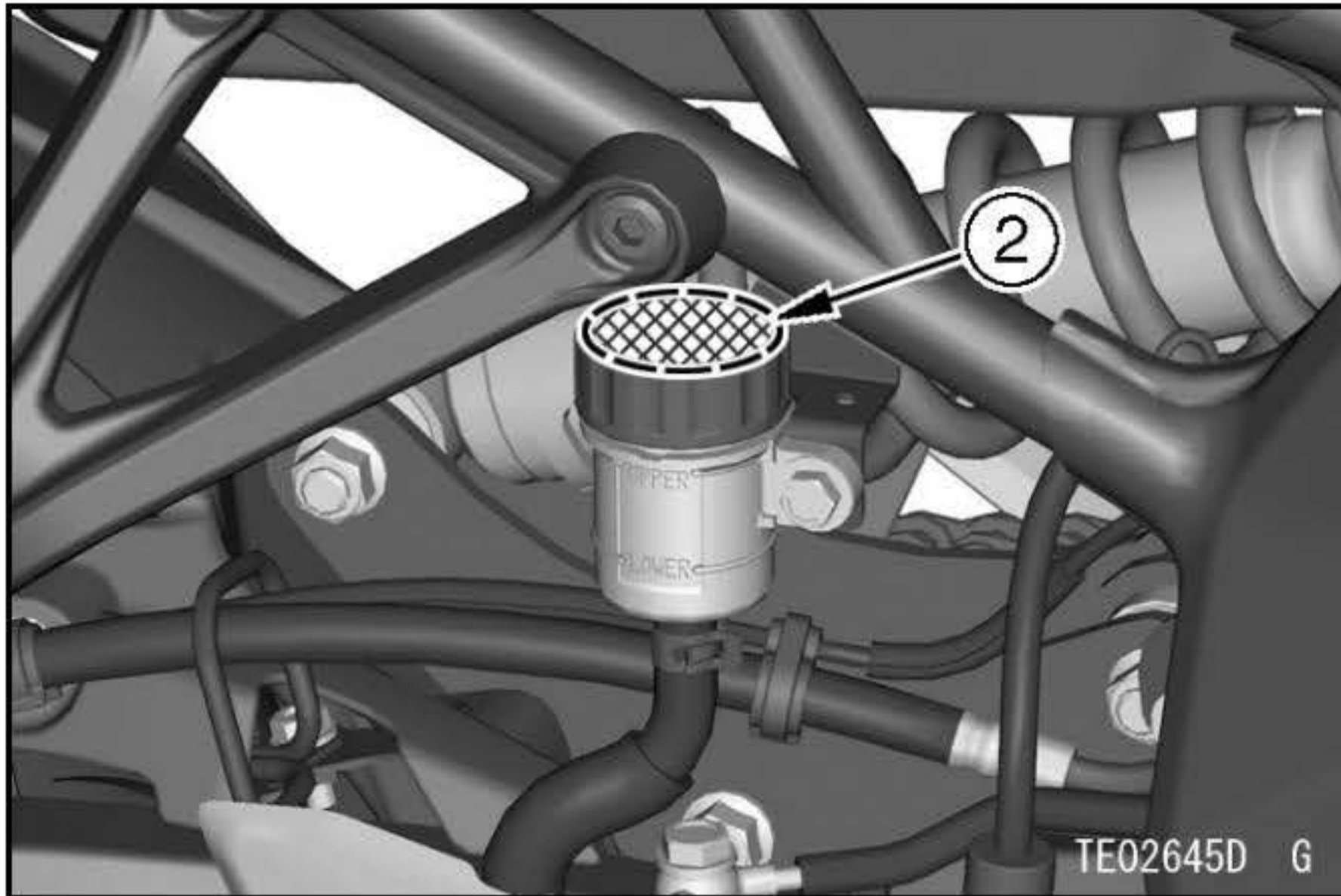
- *The sample warning labels in this section have part numbers to help*

you and your dealer obtain the correct replacement.

- *Refer to the actual vehicle label for model specific data grayed out in the illustration.*

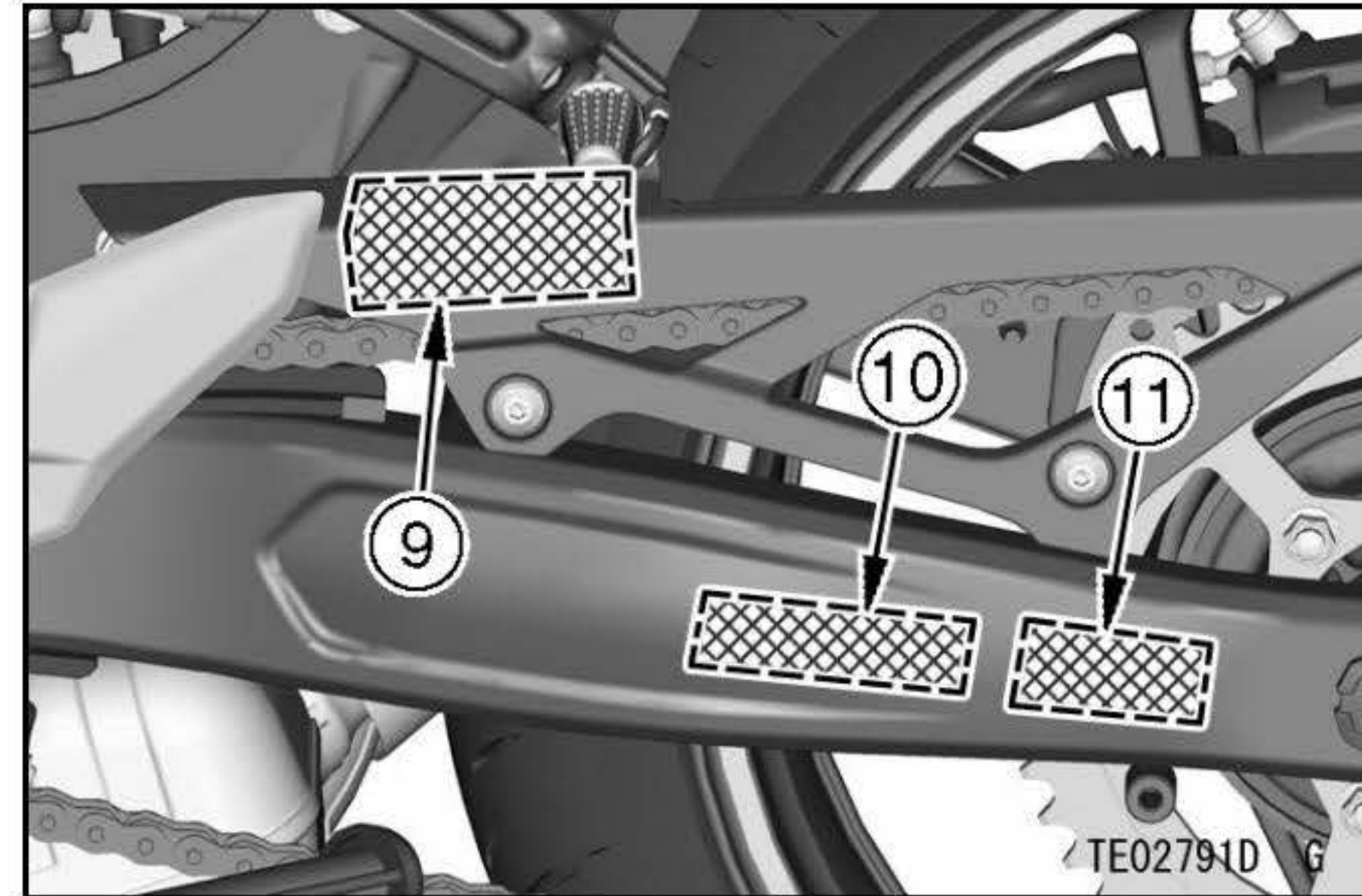
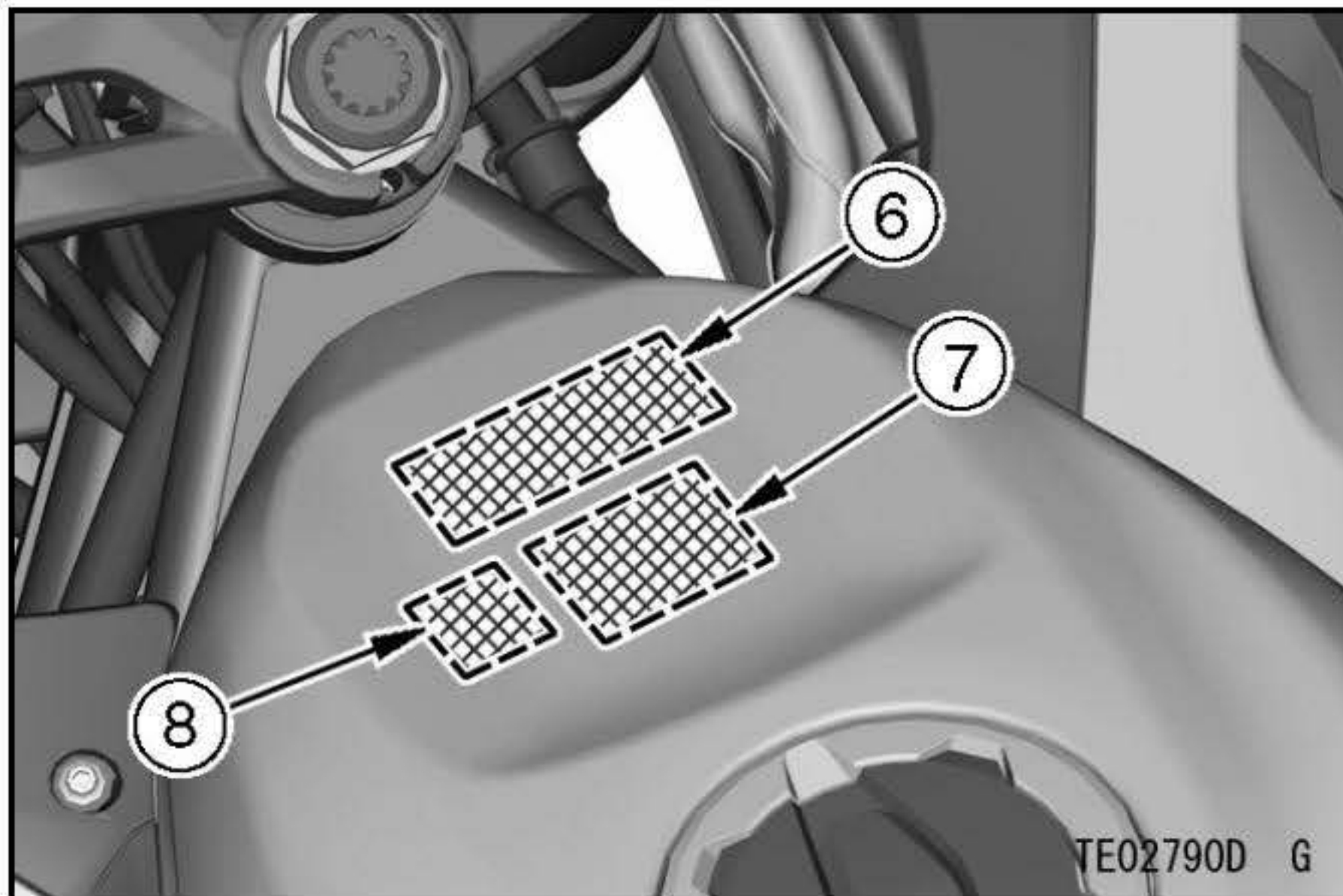
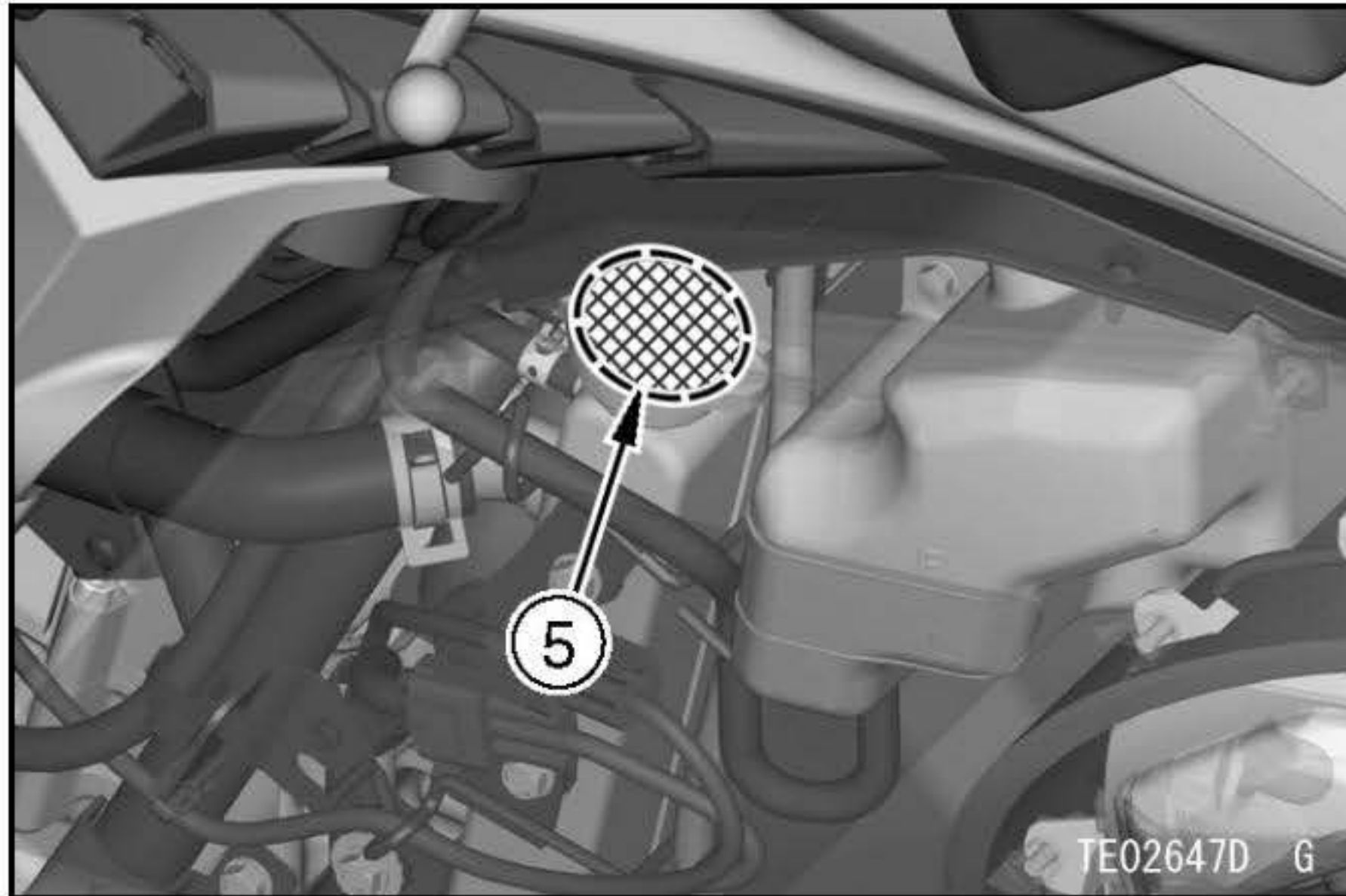


1. Brake Fluid (Front)



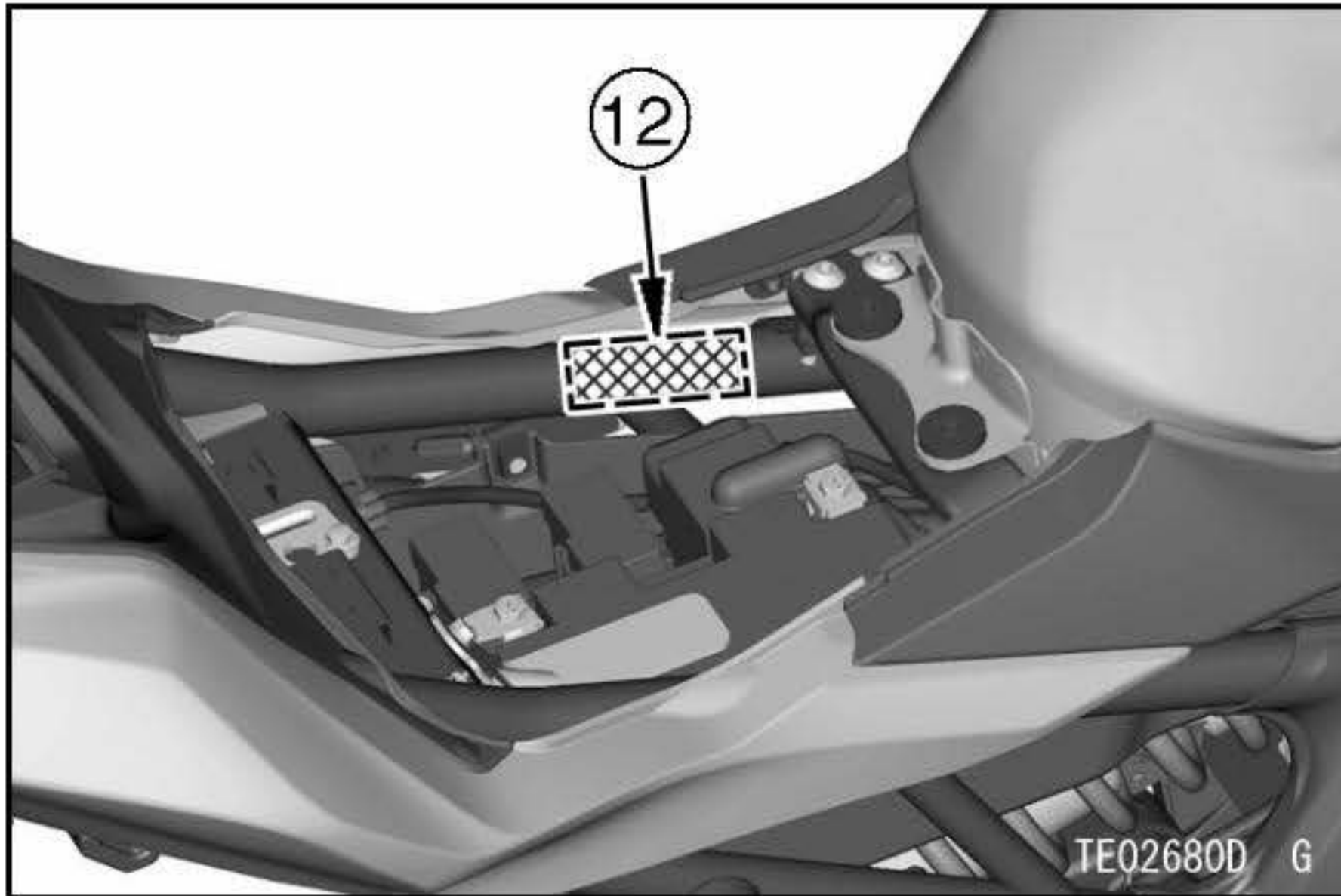
- 2. Brake Fluid (Rear)
- 3. Battery Poison/Danger
- 4. Rear Shock Absorber Warning

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- 5. Radiator Cap Danger**
- *16. Coolant Notice**
- *26. Helmet Warning**
- *37. Fuel Level**
- *17. Safety Riding Notice**
- *28. Vehicle Emission Control Information**
- 9. Tire and Load Data**
- 10. Important Drive Chain Information**
- *211. Noise Test Information**

- *1: only on Indonesia model**
- *2: only on Thailand model**
- *3: only on Thailand and Philippines models**



***412. Vehicle Emission Control Information**

***4: only on Philippines model**

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1)



TE03841BN9 C

2)



TE03879DN9 C

3)



TE03627E S

4)

⚠ WARNING
This unit contains high pressure nitrogen gas. Mishandling can cause explosion. ● Do not incinerate, puncture or open.
⚠ AVERTISSEMENT
Cette unité contient de l'azote à haute pression. Une mauvaise manipulation peut entraîner d'explosion. ● Ne pas brûler ni perforer ni ouvrir.
⚠ 警告
高圧窒素ガス入りです。 取り扱いを誤ると爆発する恐れがあります。 ● 火中への投入、穴あけ、分解はしないでください。

TE03460DN7 C

5)



TE03079E S

6) only on Indonesia model

PERHATIAN !
GUNAKAN RADIATOR COOLANT. DISARANKAN TIDAK MENGGUNAKAN AIR BIASA.

56070-1137

TE03049EN9 C

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6) only on Thailand model



56071-0807

TE03956E S

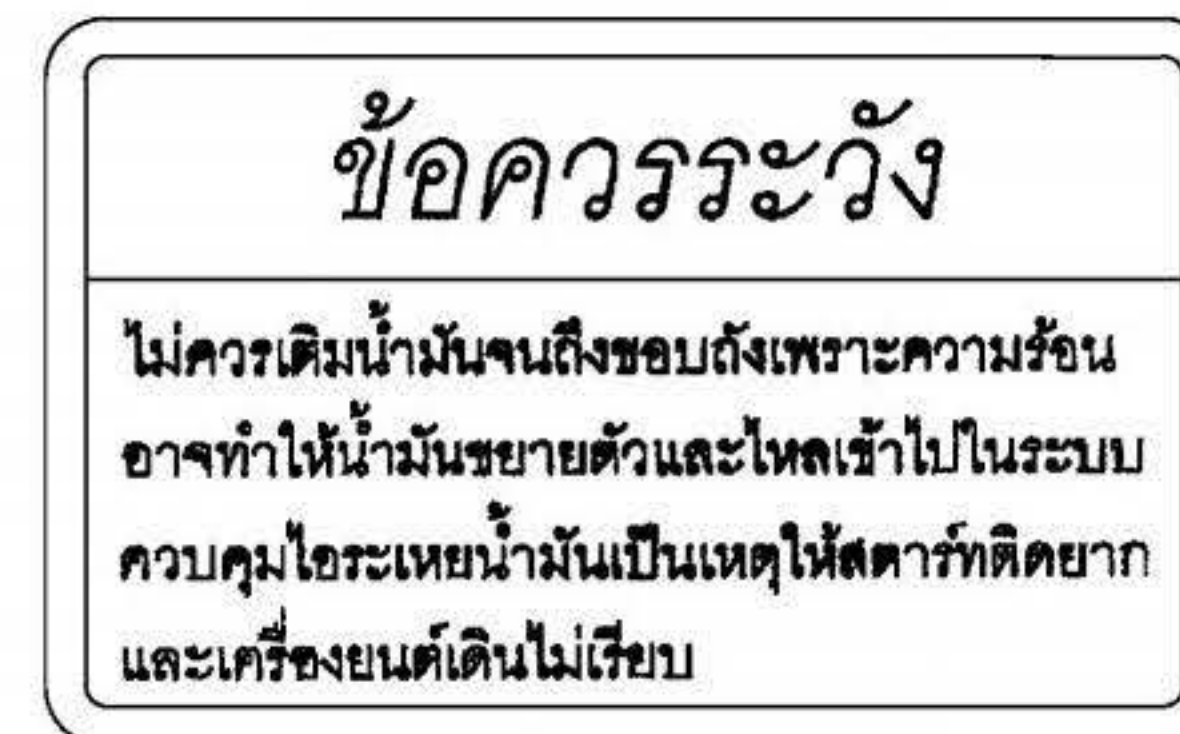
7) only on Philippines model



56071-0158

TE03142C S

7) only on Thailand model



56071-0161

TE03257C S

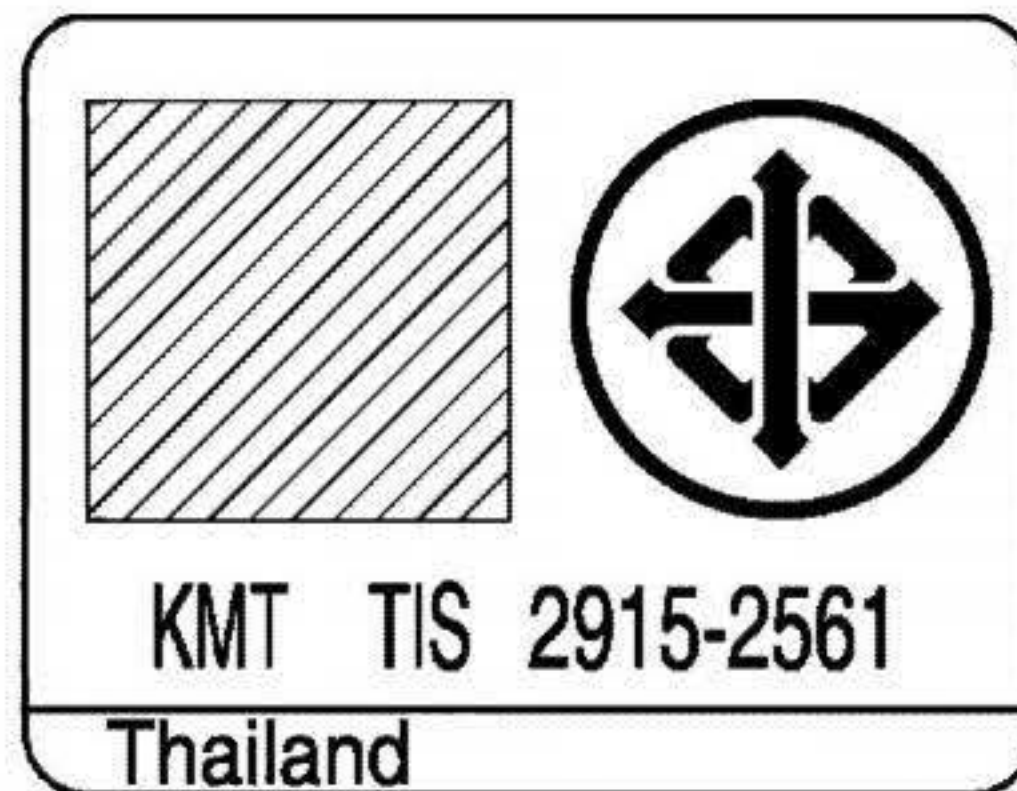
7) only on Indonesia model



56071-0313

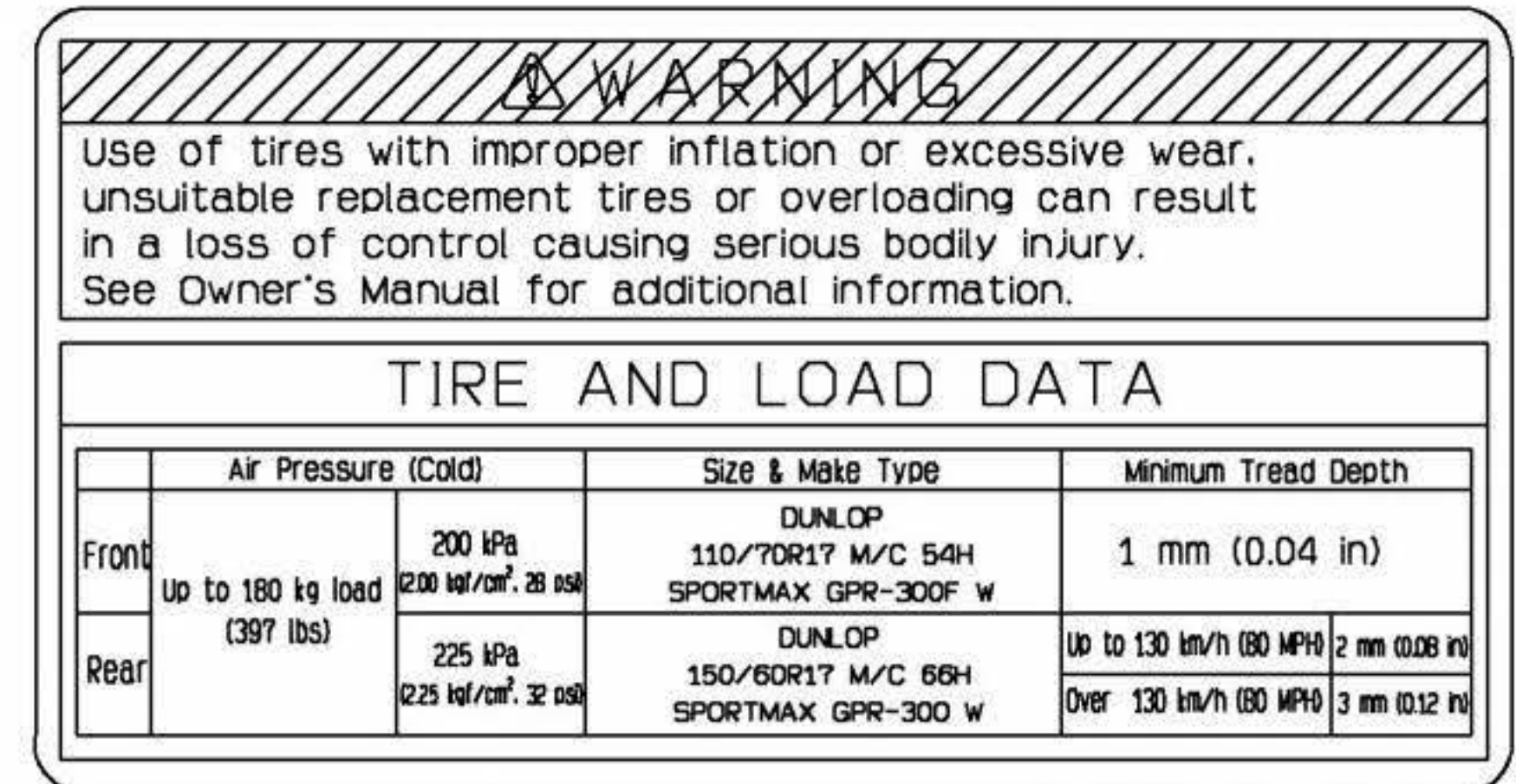
TE03051E S

8) only on Thailand model



TE03292F S

9) only on Philippines model



56053-1771

TE03234FZ2 S

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9) only on Thailand model

คำเตือน

หากใช้แรงดันลมยางที่ไม่เหมาะสม, อาจลดอายุการใช้งาน หรือบรรทุกน้ำหนักเกินกำหนด อาจทำให้เสียการควบคุม จนเป็นเหตุให้ร่างกายได้รับบาดเจ็บรุนแรงถึงขั้นเสียชีวิตได้ ดูข้อแนะนำเกี่ยวกับความปลอดภัยในคู่มือผู้ใช้รถ

ข้อมูลของยางและน้ำหนักการบรรทุก

	แรงดันลมยางขณะเย็น	ขนาดของยางและรุ่น	ความลึกดอกยางที่ใช้งานไม่น้อยกว่า
หน้า	200 kPa (2.00 กก./ตร.ซม. , 28 ปอนด์/ตร.นิ้ว)	DUNLOP 110/70R17 M/C 54H SPORTMAX GPR-300F W	1 มม. (0.04 นิ้ว)
หลัง	225 kPa (2.25 กก./ตร.ซม. , 32 ปอนด์/ตร.นิ้ว)	DUNLOP 150/60R17 M/C 66H SPORTMAX GPR-300 W	ความเร็วไม่เกิน 130 กม./ชม. 2 มม. (0.08 นิ้ว) ความเร็วเกิน 130 กม./ชม. 3 มม. (0.12 นิ้ว)

56053-1772

TE03235F S

9) only on Indonesia model

PERINGATAN

Menggunakan ban dengan tekanan yang tidak tepat atau keausan yang berlebihan, penggantian yang tidak sesuai atau kelebihan beban dapat mengakibatkan hilang kendali yang menyebabkan cedera berat. Lihat Buku Pedoman Pemilik untuk informasi tambahan.

DATA BEBAN DAN RODA

	Tekanan Udara (Dingin)	Tipe Merek & Ukuran	Kedalaman Tapak Ban Minimum
Depan	200 kPa (2.00 kgf/cm², 28 psi)	DUNLOP 110/70R17 M/C 54H SPORTMAX GPR-300F W	1 mm (0.04 inci)
Belakang	225 kPa (2.25 kgf/cm², 32 psi)	DUNLOP 150/60R17 M/C 66H SPORTMAX GPR-300 W	Kecepatan 130 km/h (80 MPH) 2 mm (0.08 inci) Kecepatan 130 km/h (80 MPH) 3 mm (0.12 inci)

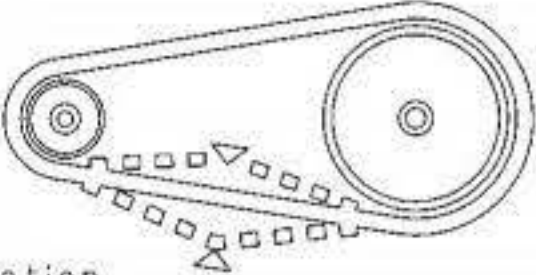
56053-1773

TE03215FN9 S

10) only on Philippines model

CHAIN INFORMATION

Drive chain slack should be checked before each ride and adjusted if outside of normal adjustment range (25-35 mm, 1.0-1.4 in). To check slack, measure slack midway between the sprockets while the motorcycle is on the side stand or center stand. See Owner's Manual for additional drive chain information.



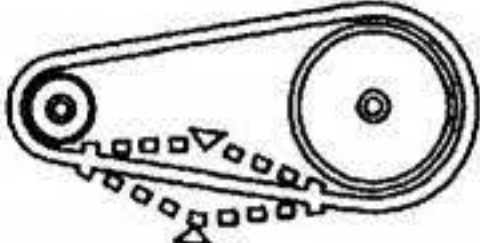
56033-1384

TE03849E S

10) only on Thailand model

การบำรุงรักษาโซ่ขับ

ควรตรวจสอบระยะแกว่งของโซ่ขับก่อนการขับขี่ทุกครั้ง ในกรณีที่โซ่ขับหย่อน ให้ปรับตั้งระยะแกว่งของโซ่ขับอยู่ที่ (25-35 มม. , 1.0-1.4 นิ้ว) ทำการตรวจวัดระยะแกว่งของโซ่ขับ ที่ตำแหน่งกึ่งกลาง ระหว่างสเตอร์หน้า และสเตอร์หลัง ในขณะที่โซ่ขับตึงหรือขาดกึ่งกลางของรถจักรยานยนต์ ดูวิธีการบำรุงรักษาและการปรับตั้งในคู่มือผู้ใช้รถ



56033-1386

TE03851E S

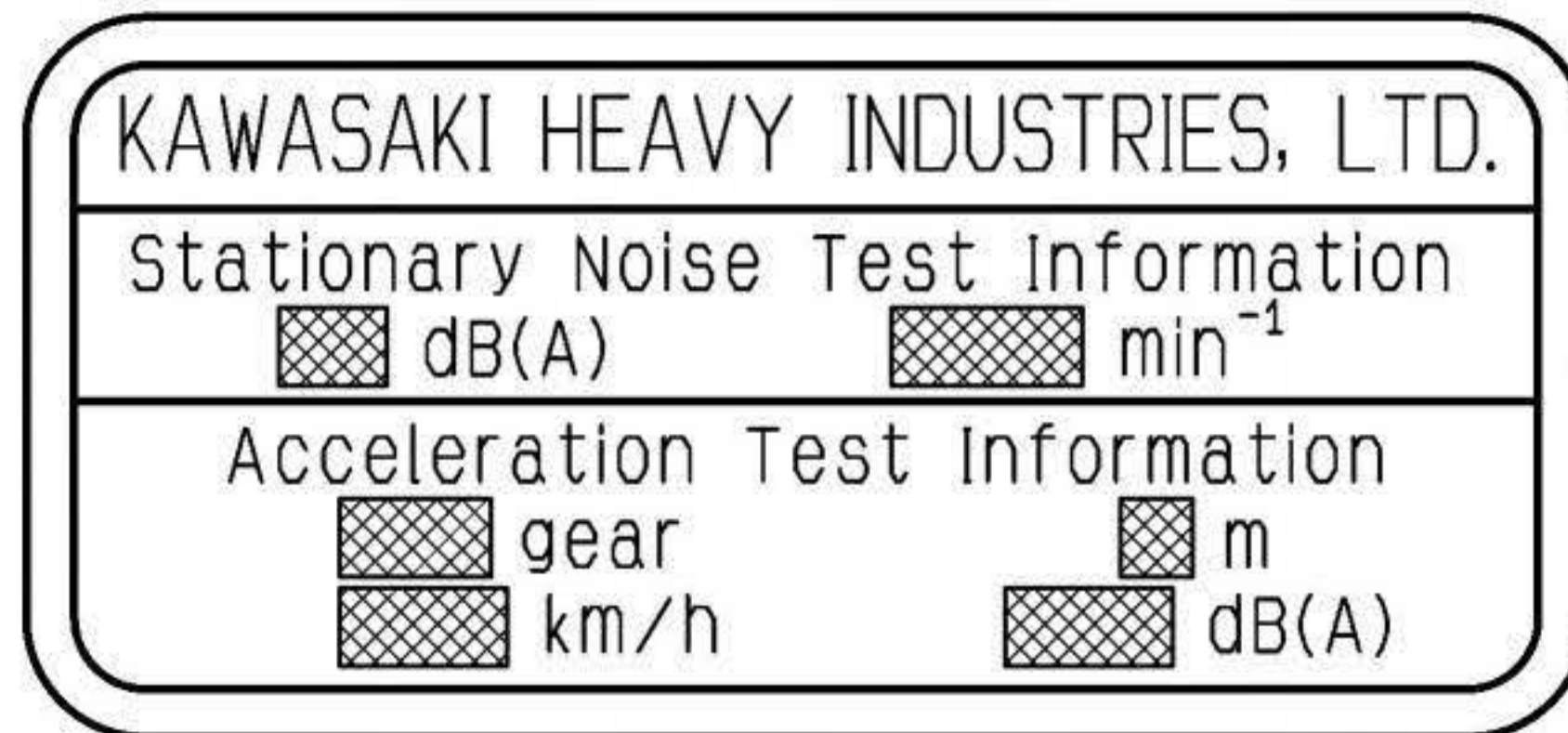
10) only on Indonesia model



56033-1442

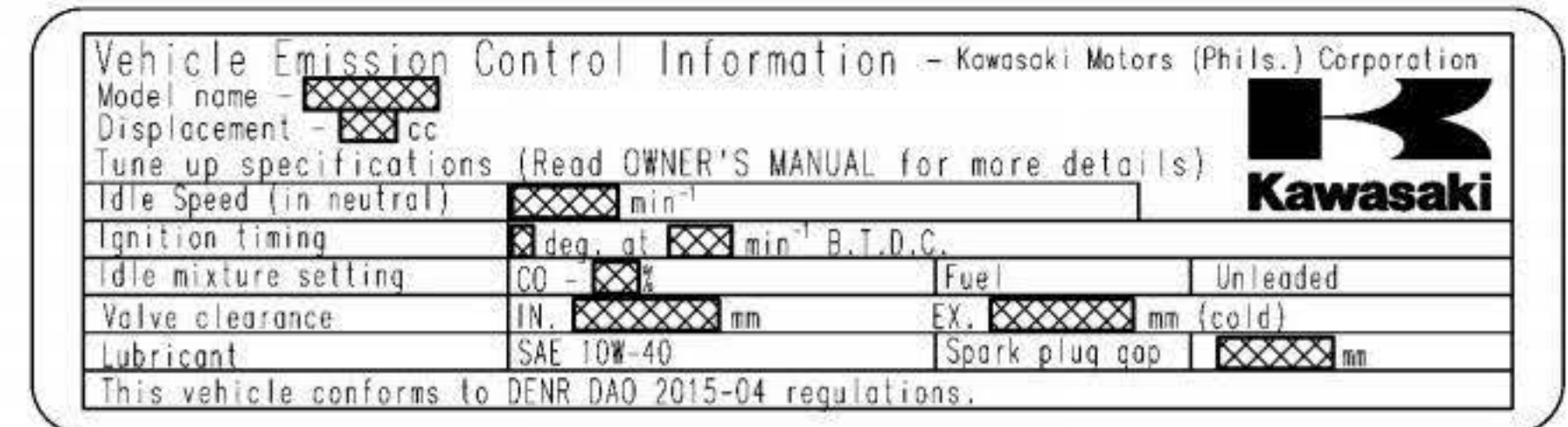
TE03986E S

11) only on Thailand model



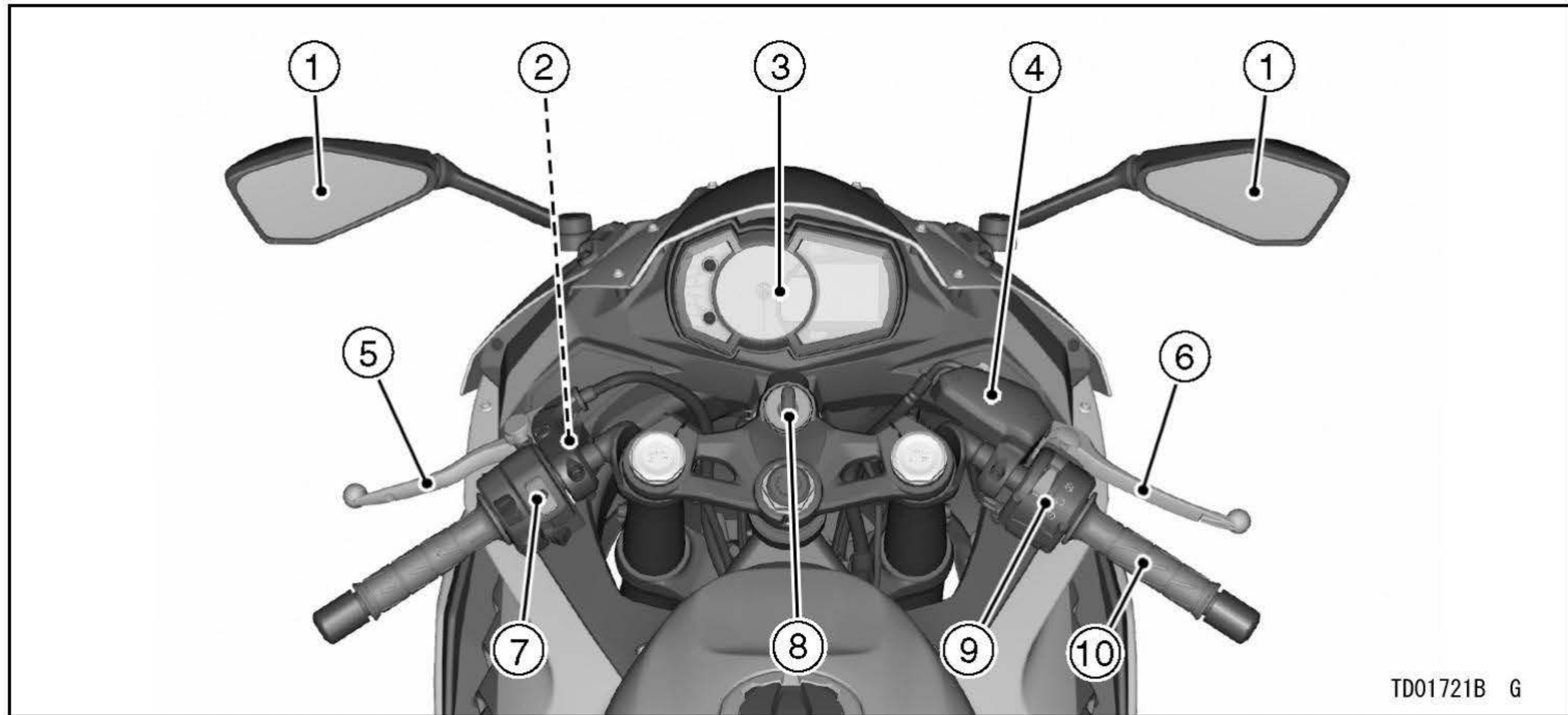
TE03776E S

12) only on Philippines model



TE03775E S

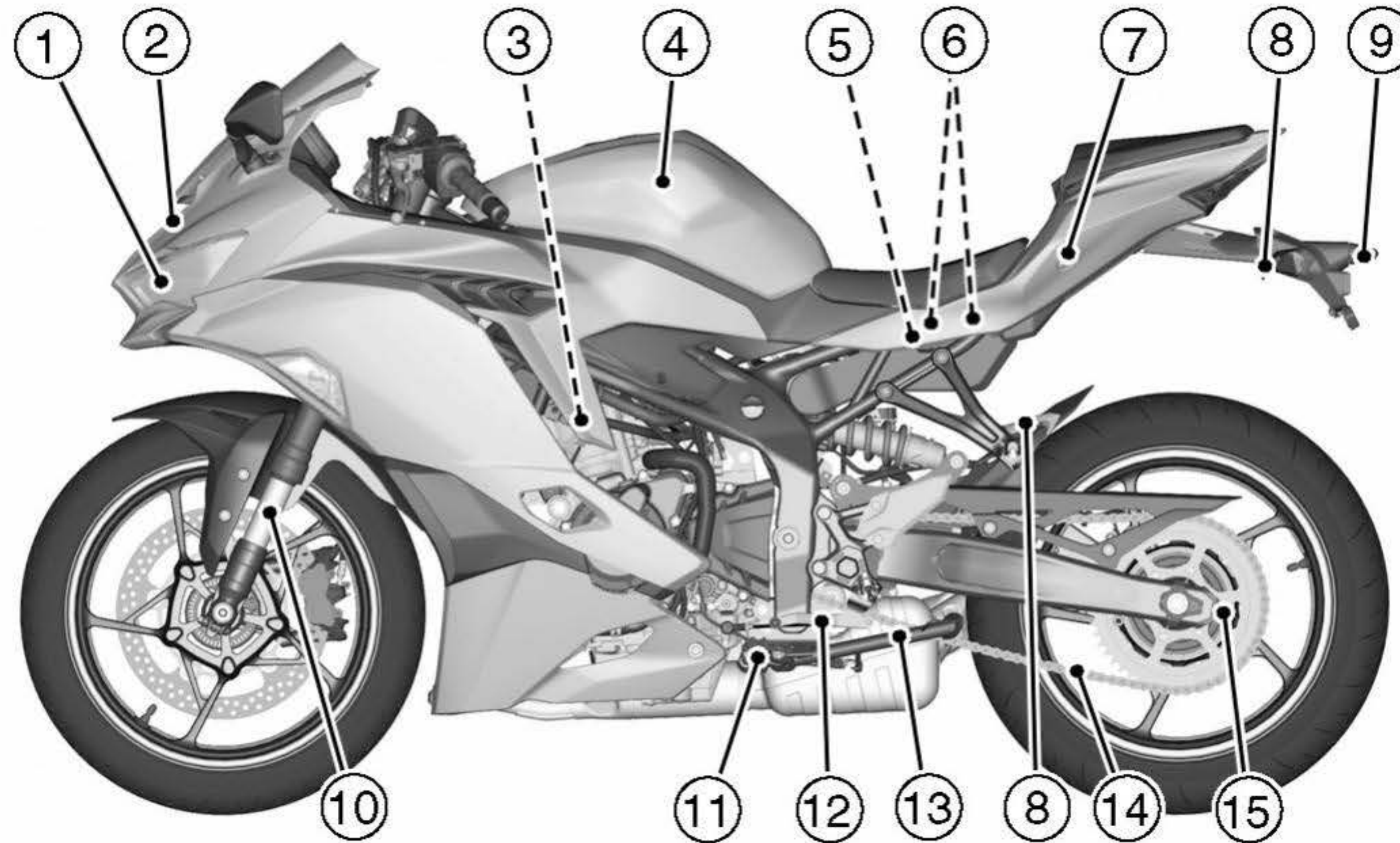
Location of Parts



- 1. Rear View Mirrors
- 2. Starter Lockout Switch
- 3. Meter Instrument
- 4. Brake Fluid Reservoir (Front)
- 5. Clutch Lever

- 6. Front Brake Lever
- 7. Left Handlebar Switches
- 8. Ignition Switch/Steering Lock
- 9. Right Handlebar Switches
- 10. Throttle Grip

ZX250E/F



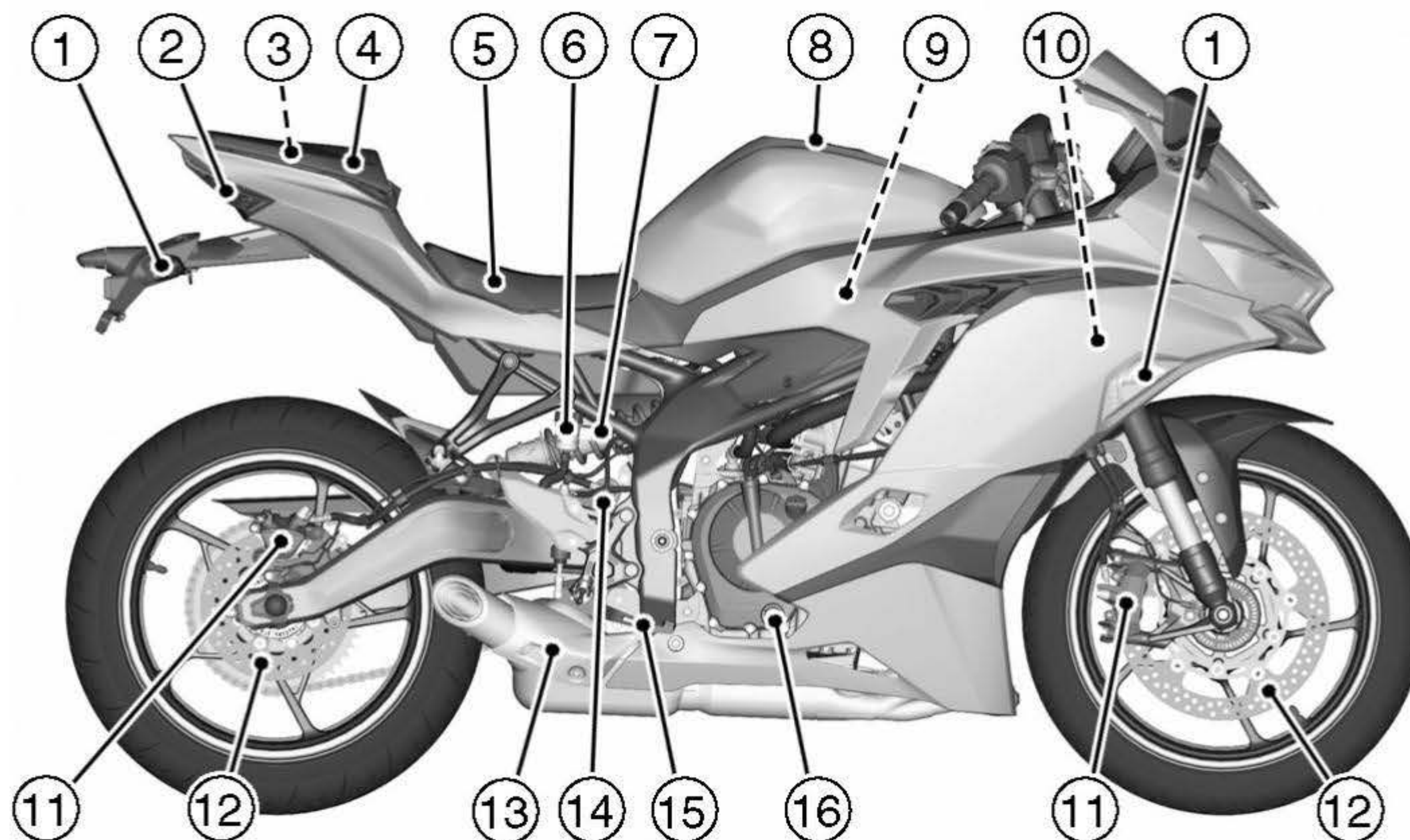
TD01722B G

- 1. Headlight
- 2. Air Cleaner Intake
- 3. Spark Plugs
- 4. Fuel Tank
- 5. Battery
- 6. Fuse Boxes
- 7. Seat Lock
- 8. Tie Hook

- 9. License Plate Light
- 10. Front Fork
- 11. Side Stand Switch
- 12. Shift Pedal
- 13. Side Stand
- 14. Drive Chain
- 15. Chain Adjuster

40 GENERAL INFORMATION

ZX250E/F

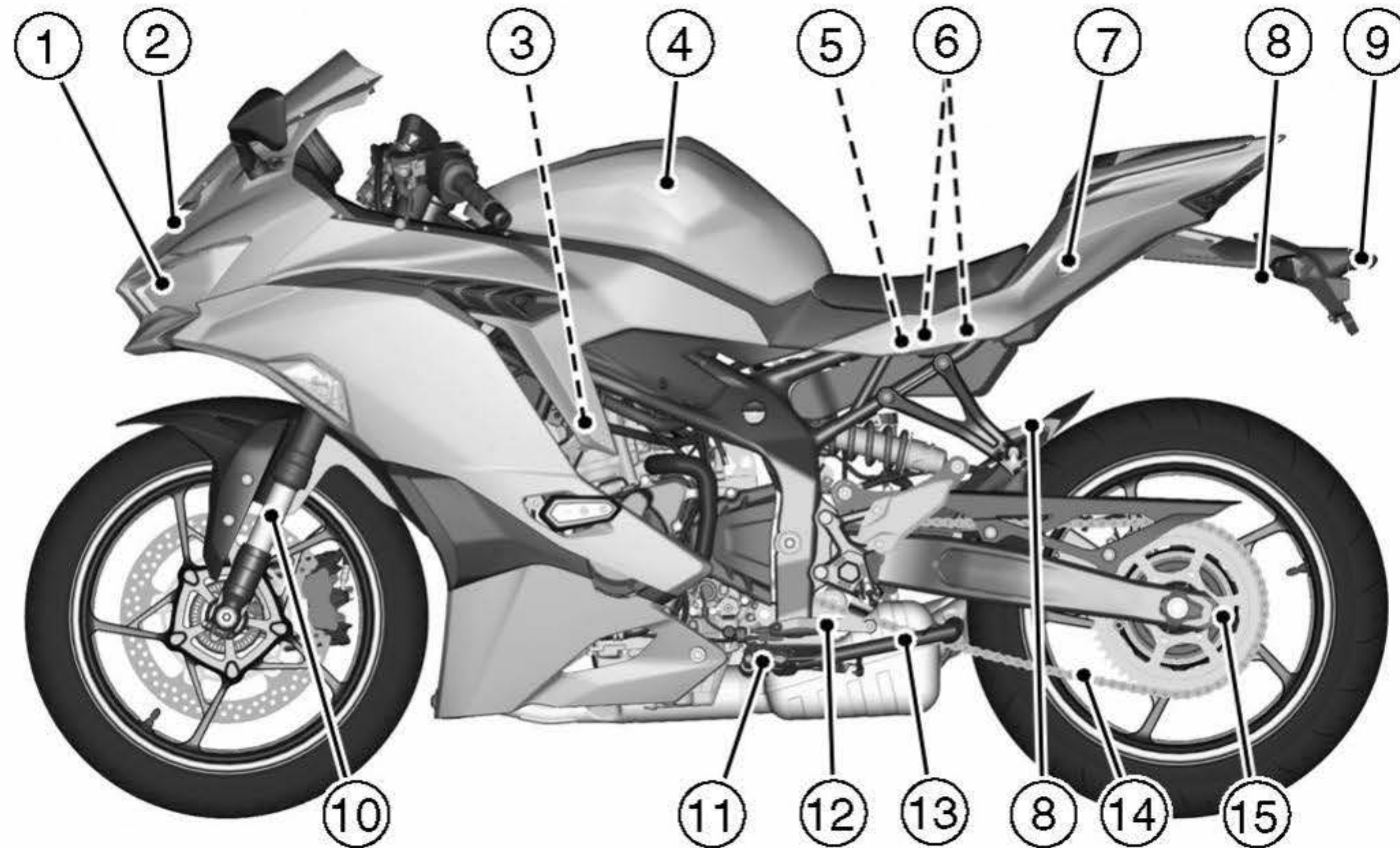


TD01723B G

- 1. Turn Signal Lights
- 2. Brake/Tail Light
- 3. Tool Kit
- 4. Passenger's Seat
- 5. Rider's Seat
- 6. Brake Fluid Reservoir (Rear)
- 7. Rear Shock Absorber
- 8. Fuel Tank Cap

- 9. Air Cleaner
- 10. Coolant Reserve Tank
- 11. Brake Calipers
- 12. Brake Discs
- 13. Muffler
- 14. Rear Brake Light Switch
- 15. Brake Pedal
- 16. Oil Level Inspection Window

ZX250G



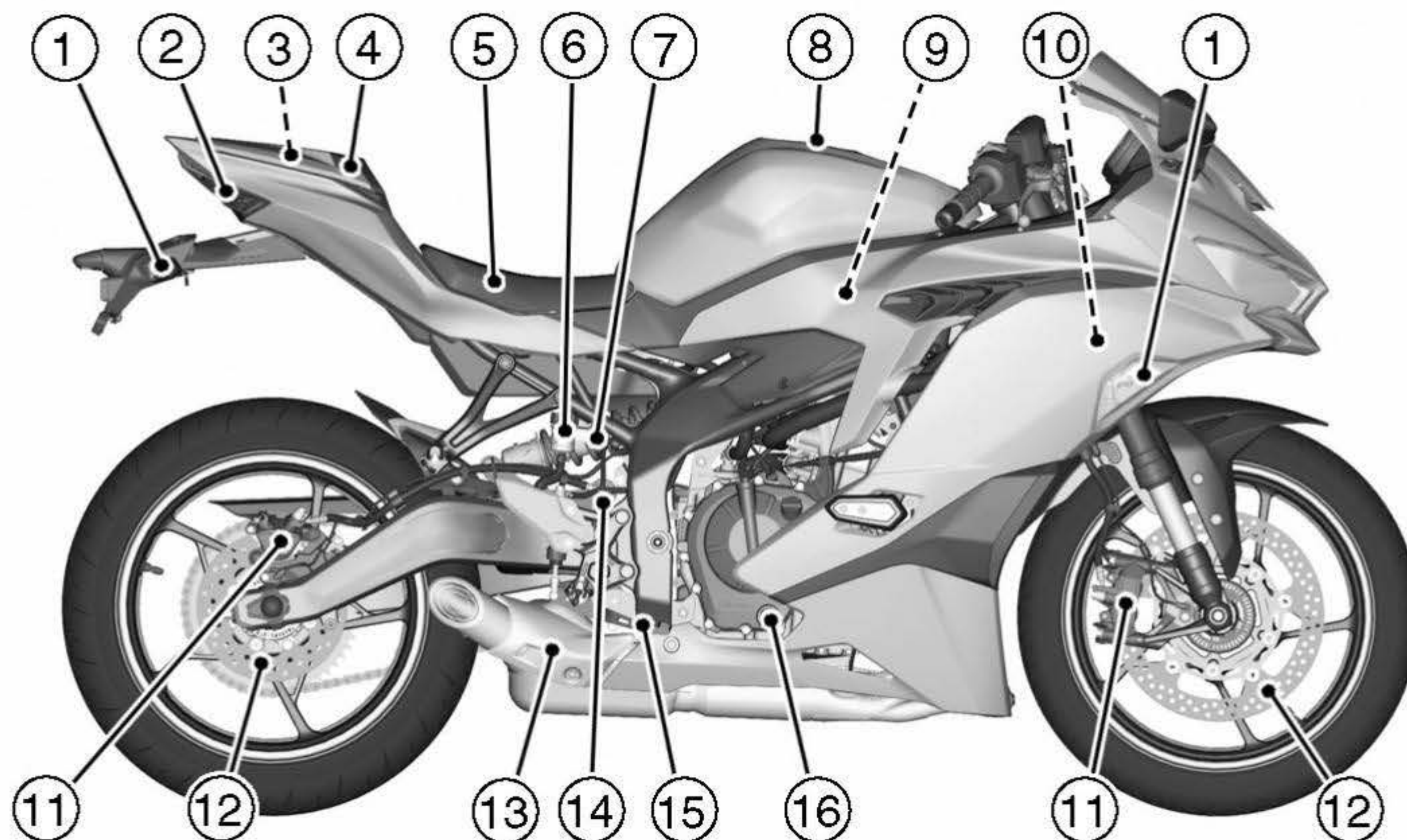
TD01724B G

- 1. Headlight
- 2. Air Cleaner Intake
- 3. Spark Plugs
- 4. Fuel Tank
- 5. Battery
- 6. Fuse Boxes
- 7. Seat Lock
- 8. Tie Hook

- 9. License Plate Light
- 10. Front Fork
- 11. Side Stand Switch
- 12. Shift Pedal
- 13. Side Stand
- 14. Drive Chain
- 15. Chain Adjuster

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ZX250G



TD01725B G

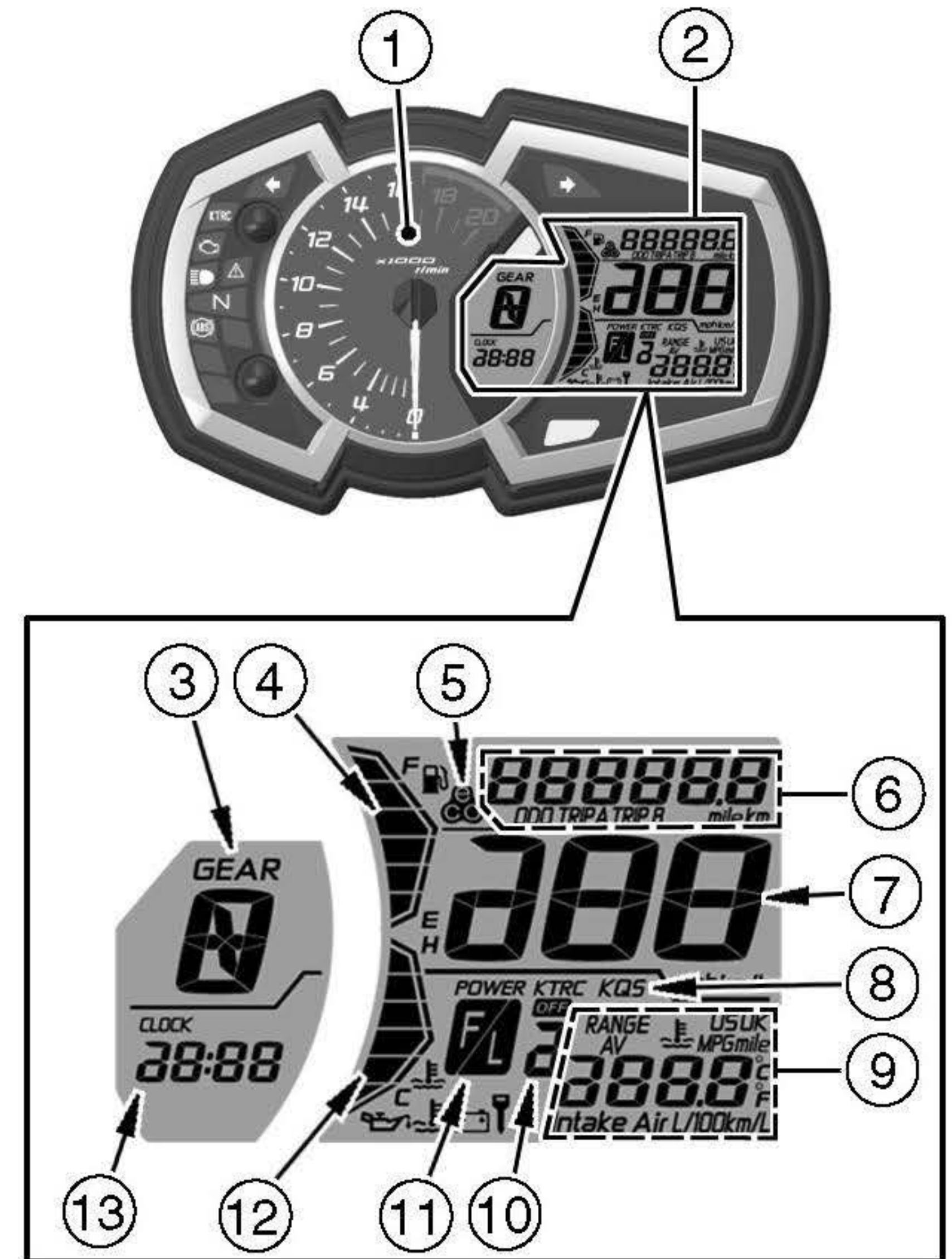
- 1. Turn Signal Lights
- 2. Brake/Tail Light
- 3. Tool Kit
- 4. Passenger's Seat/Pillion Seat Cover
- 5. Rider's Seat
- 6. Brake Fluid Reservoir (Rear)
- 7. Rear Shock Absorber
- 8. Fuel Tank Cap

- 9. Air Cleaner
- 10. Coolant Reserve Tank
- 11. Brake Calipers
- 12. Brake Discs
- 13. Muffler
- 14. Rear Brake Light Switch
- 15. Brake Pedal
- 16. Oil Level Inspection Window

Meter Instruments

1. Tachometer
2. Multifunction Meter
3. Gear Position Indicator
4. Fuel Gauge
5. Economical Riding Indicator
6. Multifunction Display (Upper)
 - Odometer
 - Trip Meter A/B
7. Speedometer
8. KQS Mode Indicator (Equipped Model)
9. Multifunction Display (Lower)
 - Current Mileage
 - Average Mileage
 - Cruising Range
 - Coolant Temperature
 - Intake Air Temperature
10. KTRC Mode Indicator
11. Power Mode Indicator
12. Coolant Temperature Gauge
13. Clock

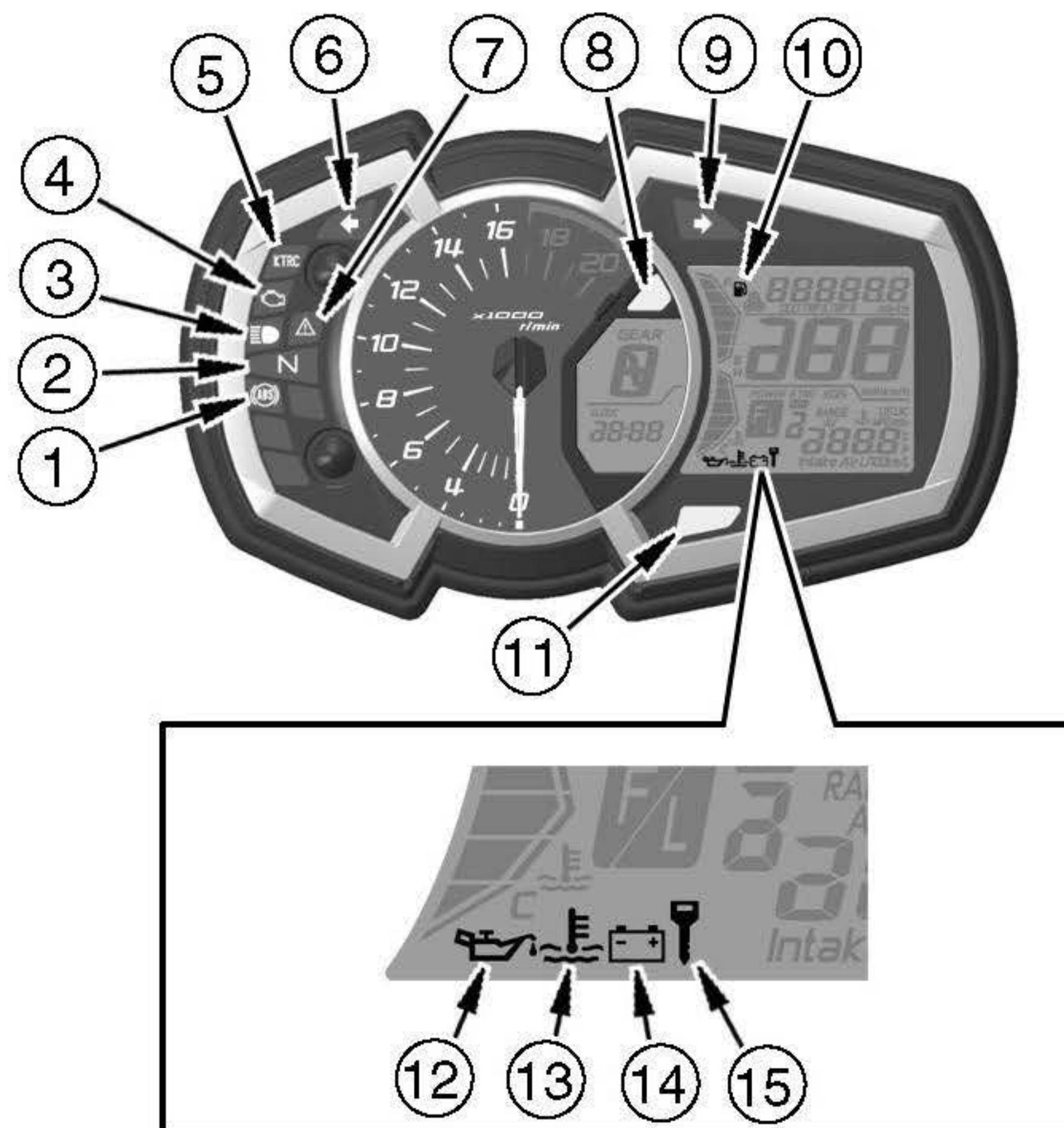
When the ignition switch is turned on, all LCD functions are shown for a few seconds, then the multifunction meter turns to operational mode.



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Indicators

1.  : ABS Indicator (Yellow) (ABS Model)
2.  : Neutral Indicator (Green)
3.  : High Beam Indicator (Blue)
4.  : Engine Warning Indicator (Yellow)
5. KTRC : KTRC Indicator (Yellow)
6.  : Left Turn Signal Indicator (Green)
7.  : Warning Indicator (Yellow)
8.  : Shift-up Indicator (Yellow)
9.  : Right Turn Signal Indicator (Green)
10.  : Fuel Level Warning Indicator
11.  : Warning Indicator/Immobilizer Indicator (Red)
12.  : Oil Pressure Warning Indicator
13.  : Coolant Temperature Warning Indicator
14.  : Battery Warning Indicator
15.  : Immobilizer Warning Indicator

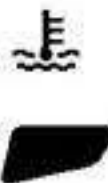


46 GENERAL INFORMATION

When Warning Indicators Go On or Blink

When warning indicators appear, there could be a problem with vehicle function. Follow actions in the table after stopping the vehicle in a safe place.

*: The numbers in this column corresponds to reference numbers on page 44.

*No.	Indi- cators	Status	Actions
12 11		ON	These indicators go on whenever the oil pressure is dangerously low or the ignition switch is turned on with the engine not running. If these indicators go on when the engine speed is above idle, stop the engine immediately and check the engine oil level. If the amount of engine oil is insufficient, add engine oil. If the oil level is good, contact an authorized Kawasaki dealer.
13 11		ON	These indicators go on whenever the coolant temperature rises to about 115°C (239°F). Stop the engine and check the coolant level in the reserve tank after the engine cools down. If the amount of coolant is insufficient, add coolant to the reserve tank. Contact an authorized Kawasaki dealer.

*No.	Indicators	Status	Actions
14 11		ON	These indicators go on if the battery voltage is less than 11.0 V or more than 16.0 V. If the voltage is less than 11.0 V, charge the battery. If it does not solve the problem, contact an authorized Kawasaki dealer.
15 11		Blink	The immobilizer system has malfunctioned. These indicators blink if an improperly coded key is used or if there is a miscommunication between the antenna and key. Contact an authorized Kawasaki dealer.
4		ON	The DFI system has malfunctioned. Contact an authorized Kawasaki dealer.
1		ON	ABS indicator may go on under following specific condition* ¹ . If this indicator appears, first turn the ignition switch off, and then back on, and ride the motorcycle at 5 km/h (3 mph) or more. The ABS indicator should then go off. If it does not, the ABS may have malfunctioned. ABS will not work but conventional brakes function. Contact an authorized Kawasaki dealer.

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*No.	Indi- cators	Status	Actions
10		Blink (with lowest segment)	The lowest segment and fuel level warning indicator blink in the multifunction display when approximately 4.2 L (1.1 US gal) of usable fuel remains. Refuel at the earliest opportunity. If the vehicle is on the side stand, the warning indicator cannot estimate the amount of fuel in the tank. Stand the vehicle upright to check the fuel level.
		Blink (with all segments)	The fuel level warning system has malfunctioned. Contact an authorized Kawasaki dealer.

*No.	Indi- cators	Status	Actions
7		ON	If the warning indicator goes on and the power mode indicator* ² blinks on the multifunction meter, the power mode system has malfunctioned. Contact an authorized Kawasaki dealer.
			If the warning indicator goes on and KTRC mode indicator* ² blinks on the multifunction meter, KTRC system has malfunctioned. KTRC system or a part of KTRC system will not work, and KTRC mode cannot be changed. Contact an authorized Kawasaki dealer.
			If the warning indicator goes on and KQS mode indicator* ² blinks on the multifunction meter, KQS system has malfunctioned. KQS system will not work, and KQS mode cannot be changed. Contact an authorized Kawasaki dealer.

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- *1:
- After continuous riding on a rough road.
 - When the engine is started with the stand raised and the transmission engaged, and the rear wheel turns.
 - When accelerating so abruptly that the front wheel leaves the ground.
 - When the ABS has been subjected to strong electrical interference.
 - When tire pressure is abnormal. Adjust tire pressure.
 - When a tire different in size from the standard size is being used. Replace with standard size.
 - When the wheel is deformed. Replace the wheel.
- *2: Refer to the beginning of this section for indicator position.

Other Indicators

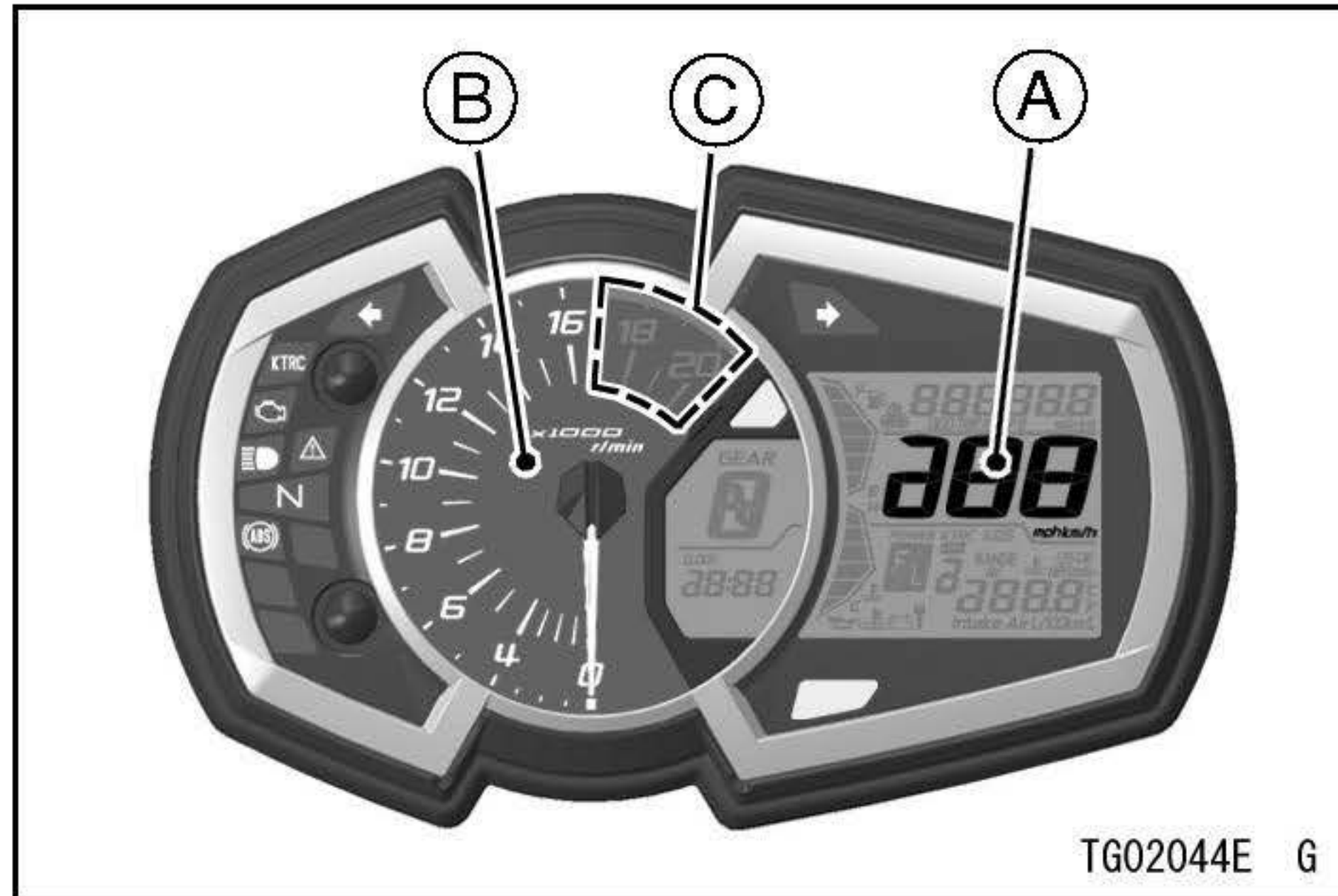
*No.	Indicators	Status
2	N	When the transmission is in neutral, this indicator goes on.
3		When the headlight is on high beam, this indicator goes on.
5	KTRC	When the KTRC functions, this indicator goes on.
6		When the turn signal switch is pushed to the left, this indicator blinks.
8		When the shift-up indicator is pre-set timing, this indicator blinks. Refer to the Shift-up Indicator Setting in the Display Setting section for more information to follow instructions in it.
9		When the turn signal switch is pushed to the right, this indicator blinks.
11		When the ignition switch is turned off, this indicator will start blinking ^{*3} , which indicates that the immobilizer system is functioning. After 24 hours, the red warning indicator/immobilizer indicator will stop blinking. However, the immobilizer system is still functioning.

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*3: The red warning indicator/immobilizer indicator blinking mode can be set to either on or off.

- To stop the red warning indicator/immobilizer indicator blinking, turn the ignition switch off and then, within twenty seconds, push and hold the upper and lower meter buttons simultaneously for more than two seconds.
- When the battery is disconnected, red warning indicator/immobilizer indicator defaults to blinking mode.
- When the battery voltage is low (below 12 V), the red warning indicator/immobilizer indicator automatically stops blinking to prevent excessive battery discharge.

Speedometer/Tachometer



- A. Speedometer
- B. Tachometer
- C. Red Zone

Speedometer

The speedometer is digital and can be set for km/h or mph.

The unit setting can be changed according to local regulations. Make sure

the unit setting (km/h or mph) is correctly displayed before riding.

Refer to the Unit Setting in the Display Setting section.

Tachometer

The tachometer shows the engine speed in revolutions per minute (r/min, rpm).

NOTICE

Engine speed should not be allowed to enter the red zone; operation in the red zone will overstress the engine and may cause serious engine damage.

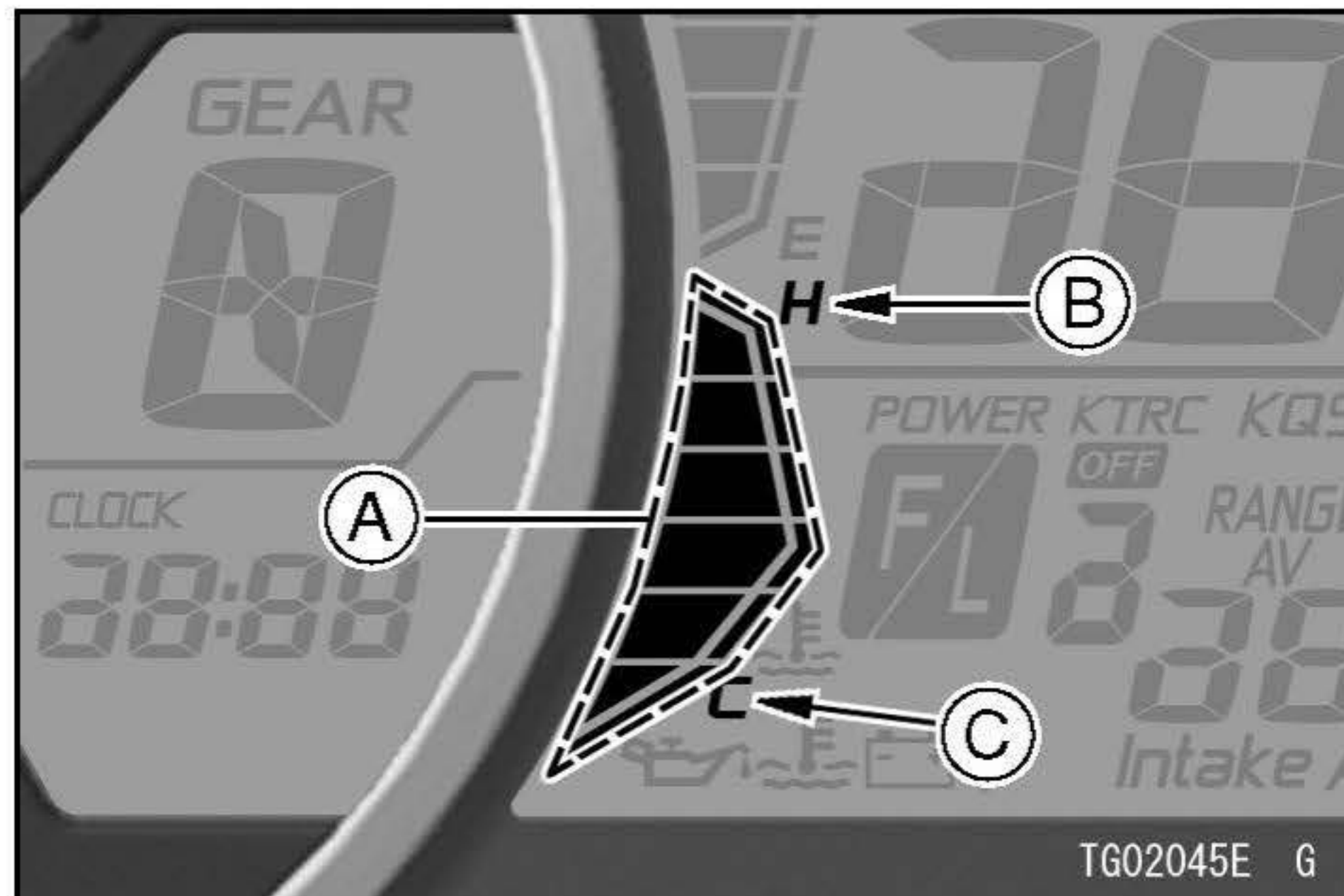
When the ignition switch is turned on, the tachometer needle momentarily sweeps from the minimum to the maximum reading, then back the minimum reading to check its operation. If

54 GENERAL INFORMATION

the tachometer does not operate correctly, have it checked by an authorized Kawasaki dealer.

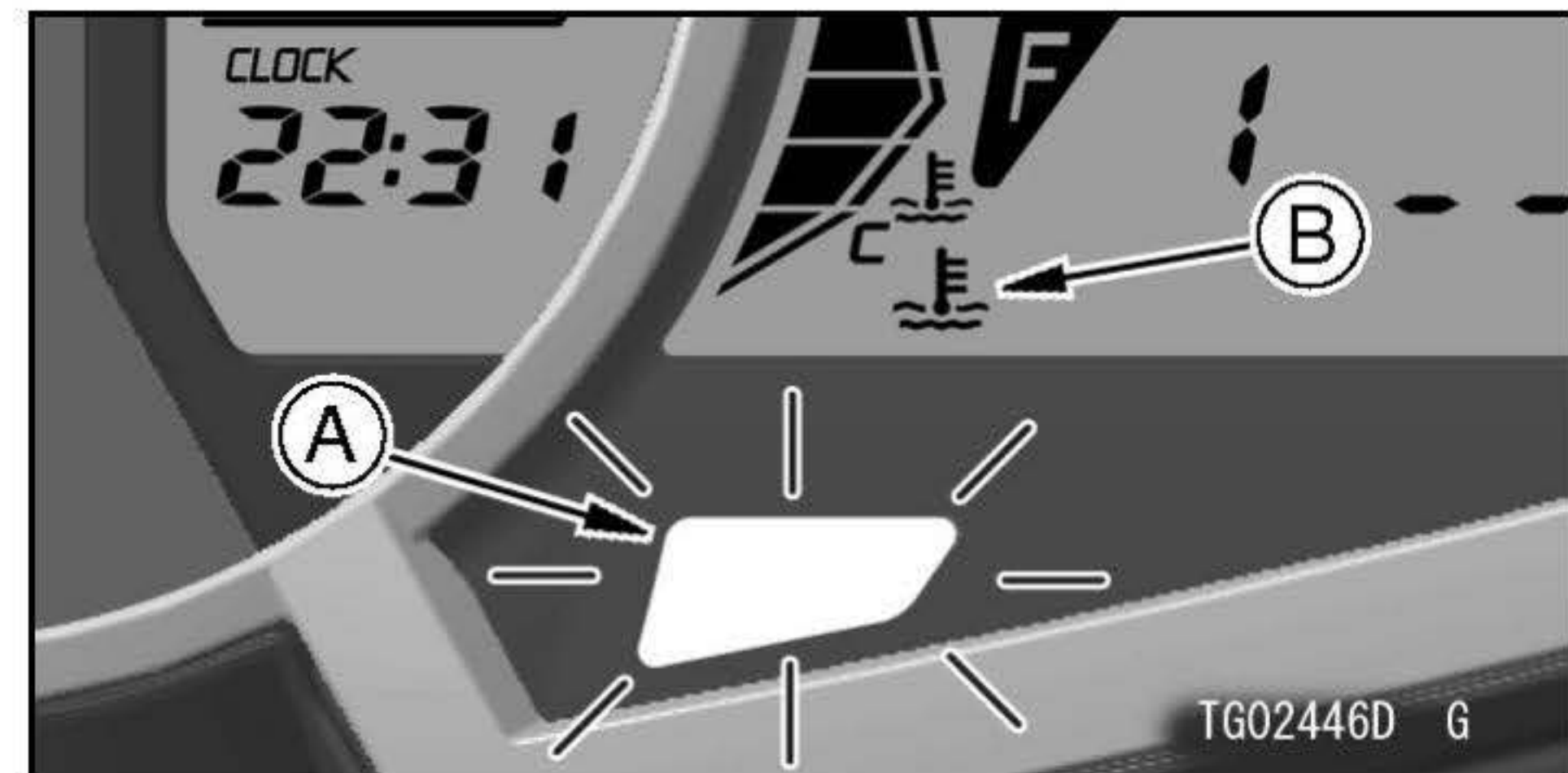
Coolant Temperature Gauge

The temperature of the engine coolant by the number of segments displayed between H (hot) and C (cold).



- A. Segments
- B. H (Hot)
- C. C (Cold)

If the coolant temperature rises to above 115°C (239°F), all segments go on, and the warning indicator and coolant temperature warning indicator go on. This warns the operator that the coolant temperature is high.



- A. Warning Indicator (Red)
- B. Coolant Temperature Warning Indicator

NOTICE

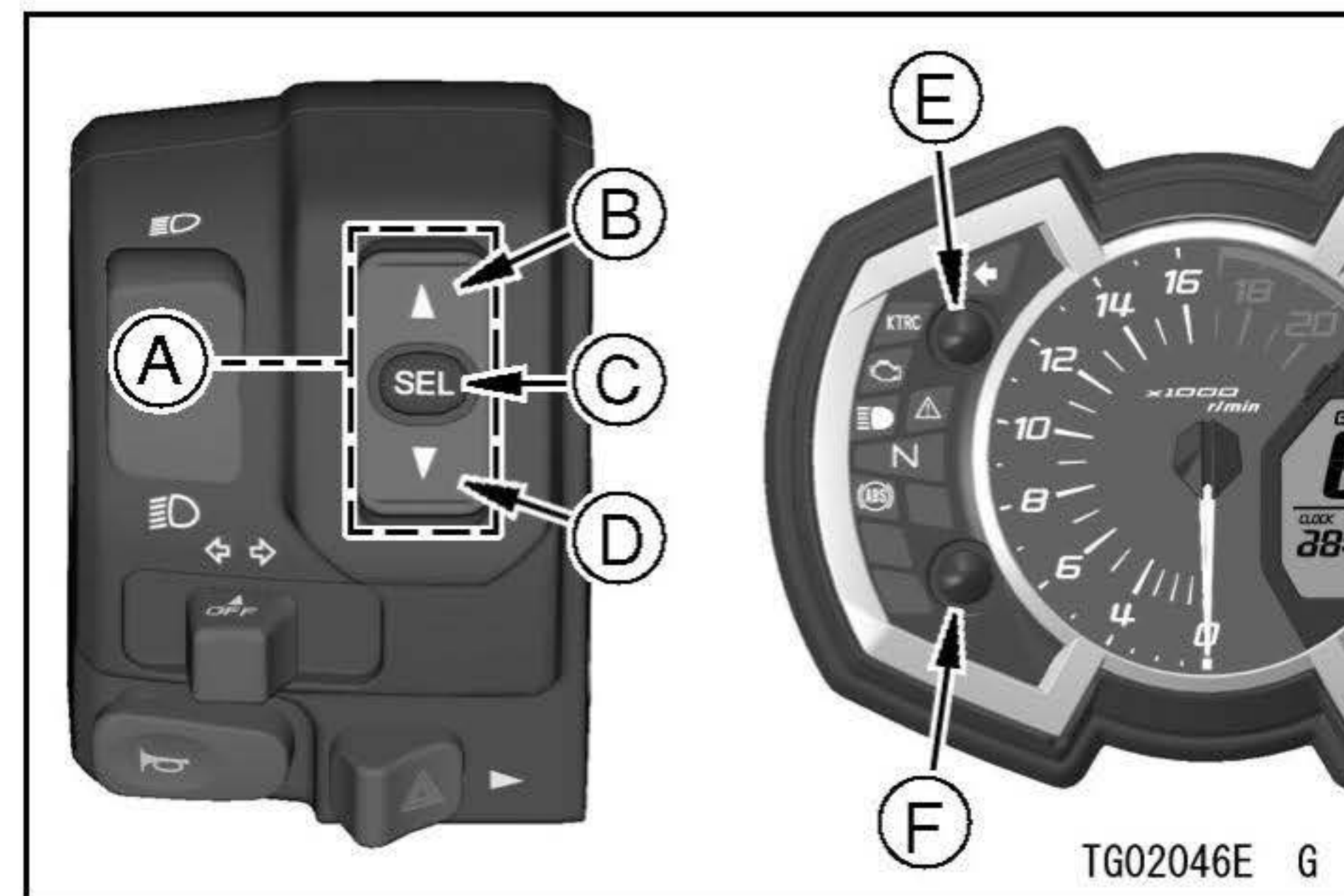
Stop the engine if the warning indicator and coolant temperature warning indicator go on. Prolonged engine operation will result in severe engine damage from overheating.

Display Setting**Control Buttons**

The multifunction buttons on the left handlebar and the meter buttons are used to operate the various functions displayed in the multifunction meter.

 WARNING

For Safety, do not operate the meter buttons while riding the motorcycle.



- A. Multifunction Buttons
- B. Upper Button
- C. "SEL" Button
- D. Lower Button
- E. Upper Meter Button
- F. Lower Meter Button

With these buttons you can select desired functions. Refer to each section for procedure for selection.

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Functions	Multi-function Buttons	Meter Buttons
Multifunction Display Mode	●	●
KTRC Mode	●	—
Power Mode	●	—
KQS Mode	●	—
Clock Setting	—	●
Shift-up Indicator Setting	—	●
Unit Setting	—	●

Multifunction Display (Upper)

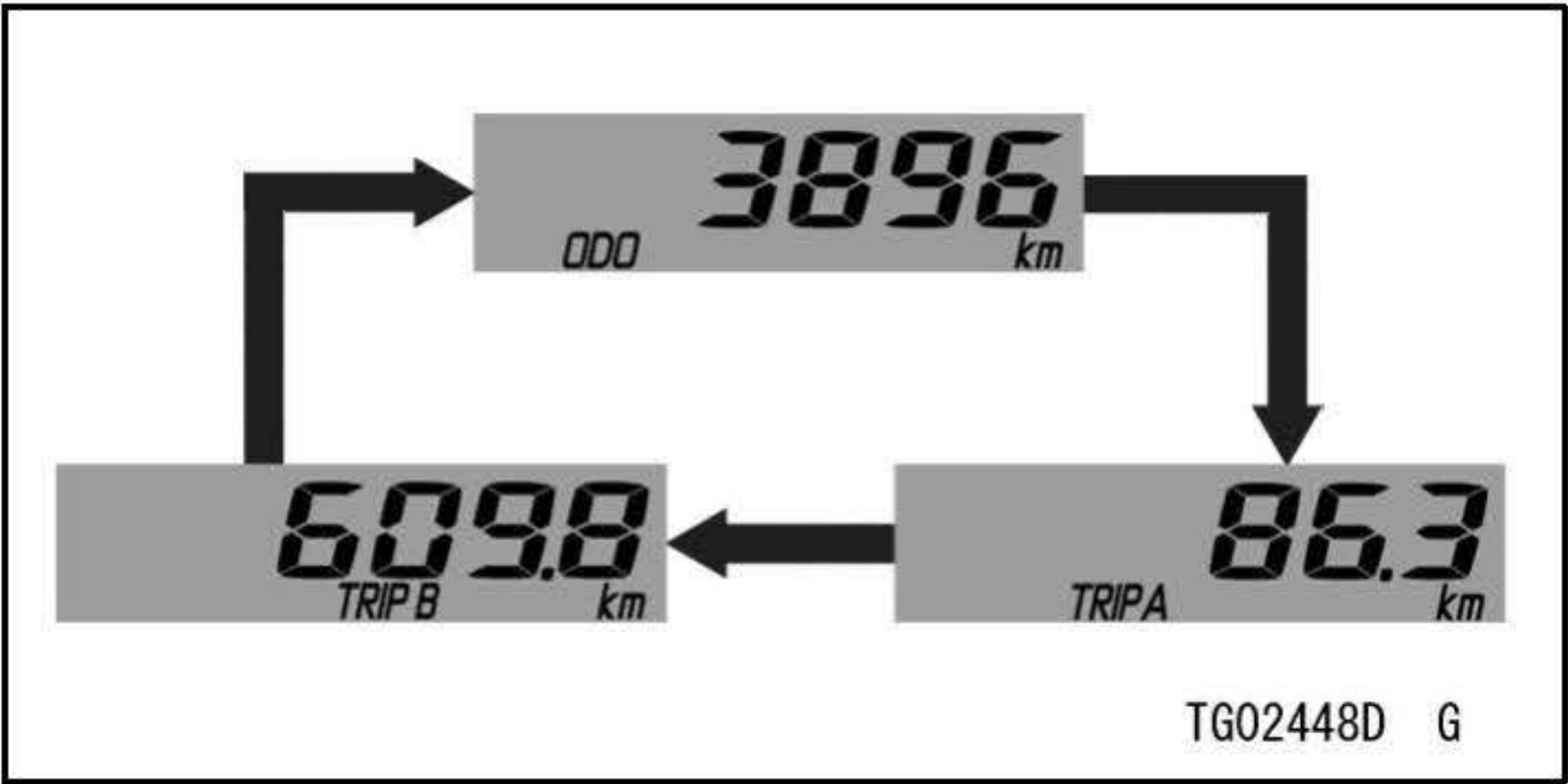
To select the display item:

- Push the upper button to select the item. The display items are shifted in the following order.

Odometer
Trip Meter A
Trip Meter B

NOTE

○ *You can also select desired display item with the upper meter button.*



➡ : Flow when pushing upper button or upper meter button

Odometer

The odometer shows the total distance. This meter cannot be reset.



TG02449D G

NOTE

- *When the figures come to 999999, the display is stopped and locked.*

Trip Meter

The trip meter shows the distance traveled since it was reset.



TG02450D G

NOTE

- *When the trip meter reaches 9999.9 while riding, the meter resets to 0.0 and continues counting.*

To reset the trip meter:

- Push the upper button or upper meter button and hold it in until the display turns to 0.0.

Multifunction Display (Lower)

To select the display item:

- Push the lower button to select the item. The display items are shifted in the following order.

Current Mileage

Average Mileage

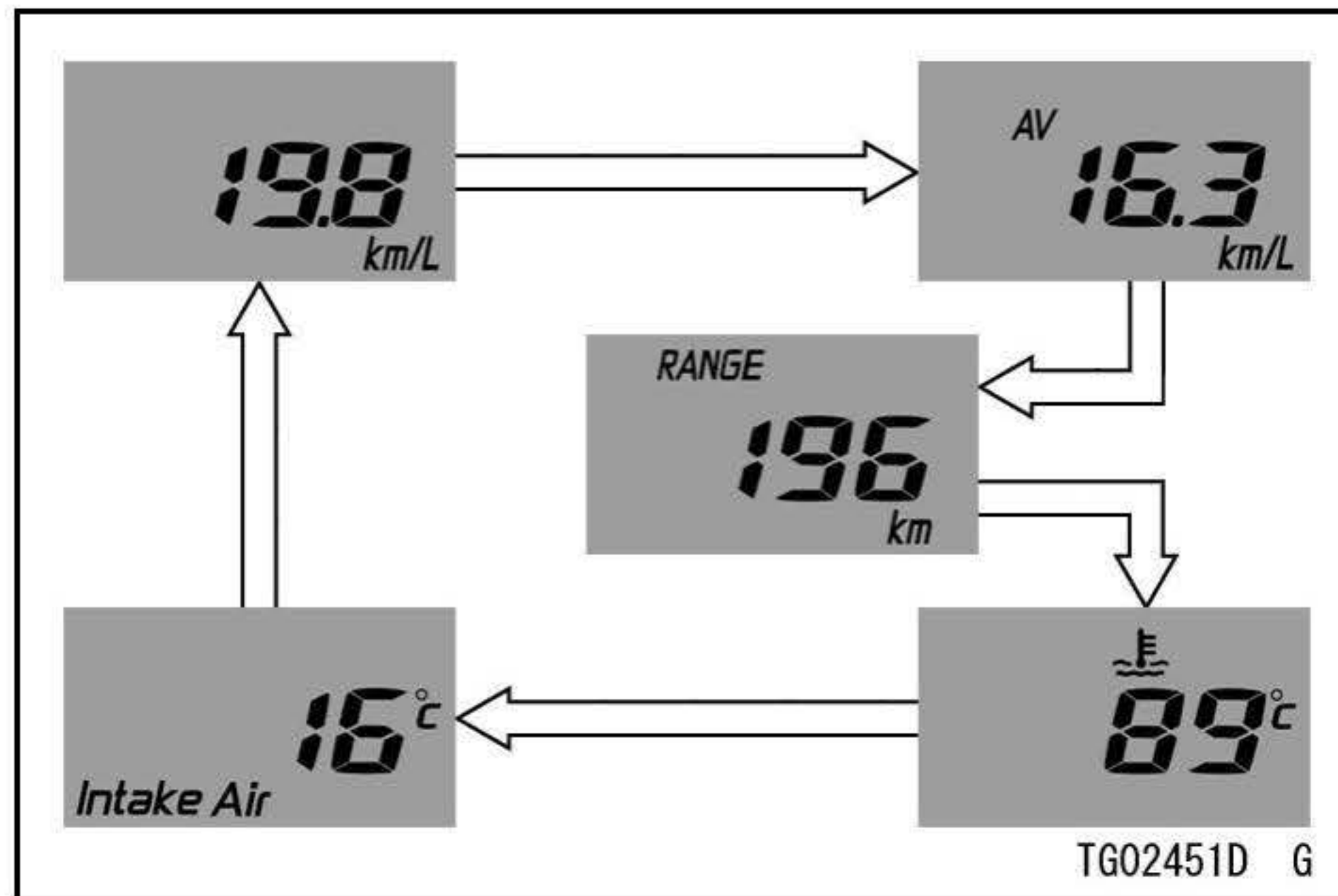
Cruising Range

Coolant Temperature

Intake Air Temperature

NOTE

- You can also select desired display item with the lower meter button.



⇒ : Flow when pushing lower button or lower meter button

Current Mileage

This display shows the instantaneous rate of fuel consumption. It is renewed every 4 seconds.



NOTE

- When the ignition switch is turned on, this display is appeared “— —.—.” After a few seconds of riding, the numerical value is displayed.

Average Mileage

This display shows the average rate of fuel consumption since it was reset. It is renewed every 5 seconds.



NOTE

- *When the battery is disconnected, the average mileage resets to “—.—.”*

To reset the average mileage:

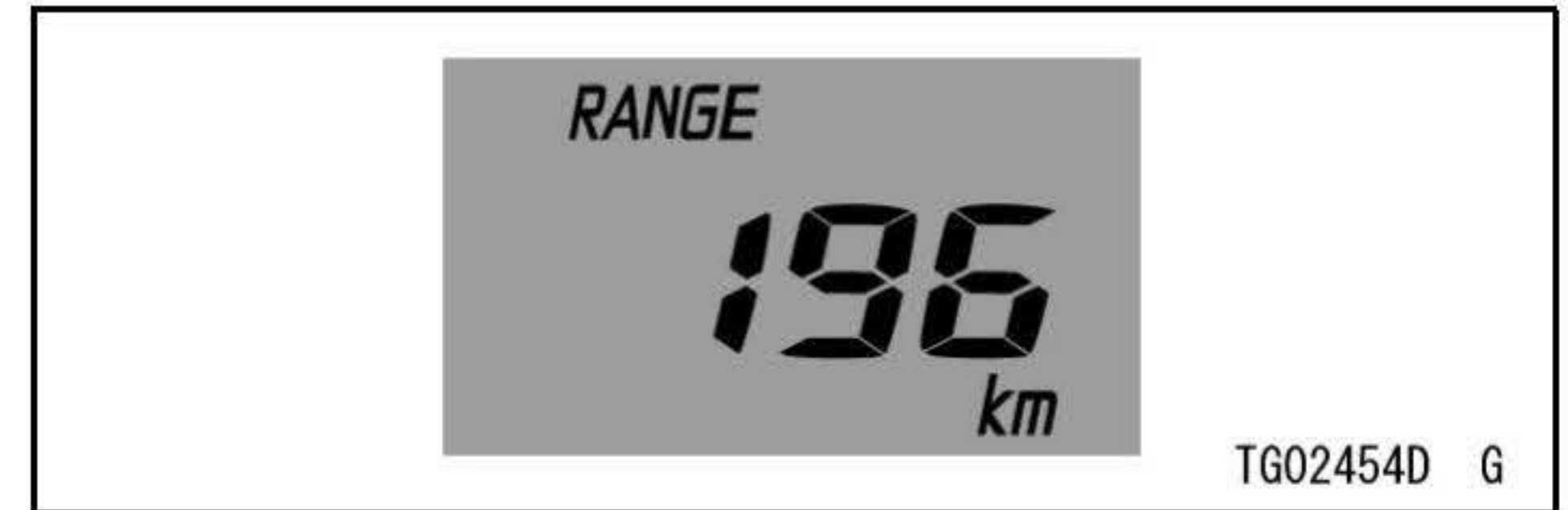
- Push the lower button or lower meter button and hold it in until the average mileage values resets to “—.—.”

NOTE

- *After resetting the average mileage, the numerical value is not displayed until the vehicle has travelled 100 m (328 ft).*

Cruising Range

This display shows the cruising range by numerical value, and indicates the cruising range from the remaining fuel in the fuel tank. It is renewed every 20 seconds.

**NOTE**

- *The cruising range value is no longer shown if the fuel level gets too low after the fuel level warning indicator starts blinking.*
- *To recover the cruising range display, add fuel to at least the level needed for the fuel level warning indicator to stop blinking. The cruising range value may still be displayed with a low fuel level, but it will not be accurate until enough fuel is added to stop the fuel level warning indicator from blinking.*

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Coolant Temperature

This display shows the temperature of the engine coolant. If the coolant temperature is below 40°C (104°F), “— —” is displayed.



TG02455D G

If the coolant temperature rises to above 115°C (239°F), the coolant temperature display starts blinking. If the coolant temperature rises to 120°C (248°F) or more, “HI” is displayed and starts blinking.



TG02456D G

This warns the operator that the coolant temperature is high.

NOTICE

Stop the engine if the coolant temperature shows “HI.” Prolonged engine operation will result in severe engine damage from overheating.

Intake Air Temperature

This display shows the air temperature in the air cleaner housing. It is renewed every 2 seconds.

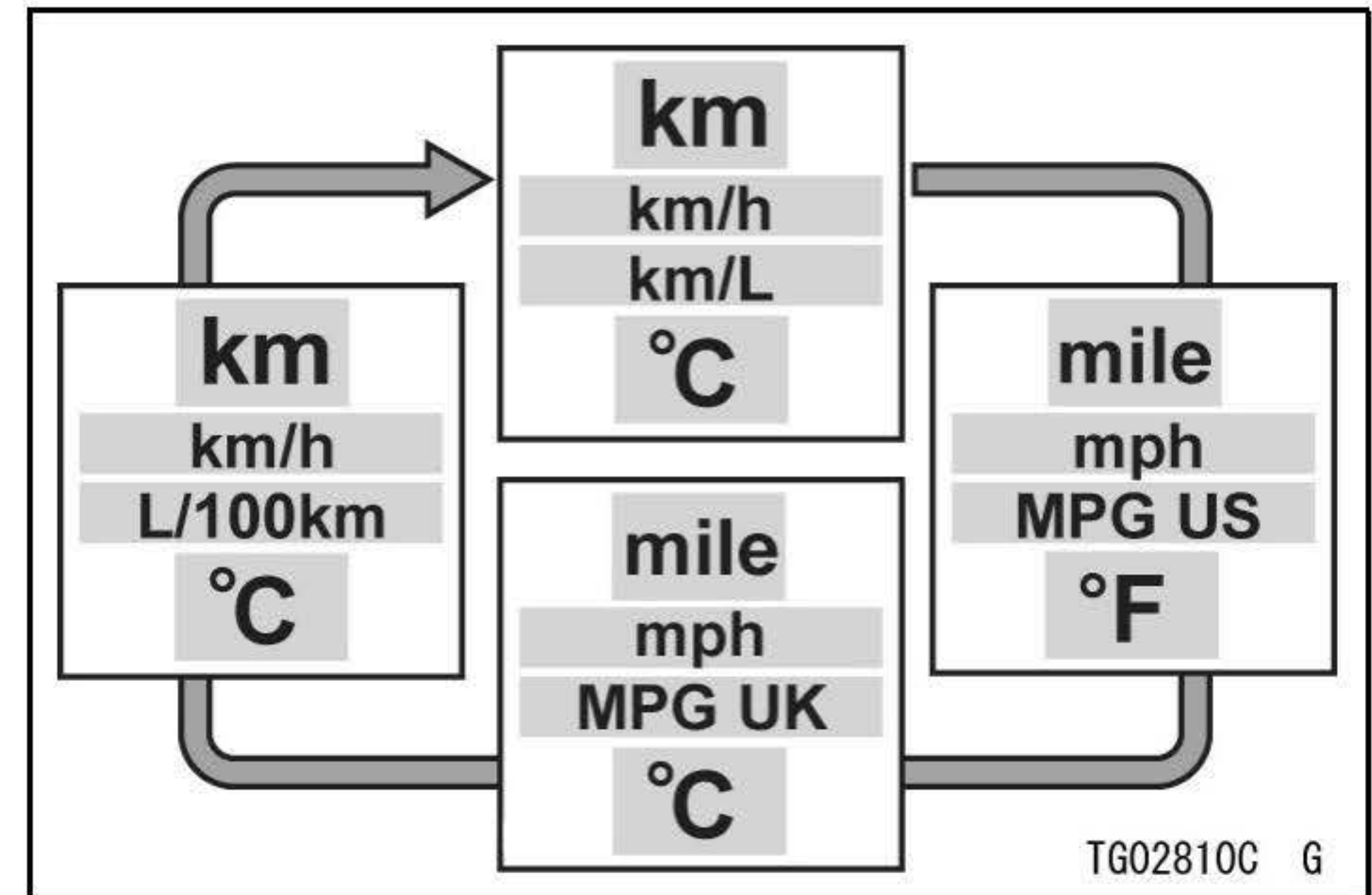


TG02457D G

Unit Setting

The unit setting in the meter instrument can be changed according to local regulations. Make sure the unit setting is correctly displayed before riding. To set the units:

- Display the odometer in the multi-function display.
- Push the lower meter button while pushing the upper meter button. The display units can be shifted in the following order.



➡ : Flow when pushing lower meter button while pushing upper meter button

Clock Setting

The clock can be selected from the 12h mode and 24h mode.

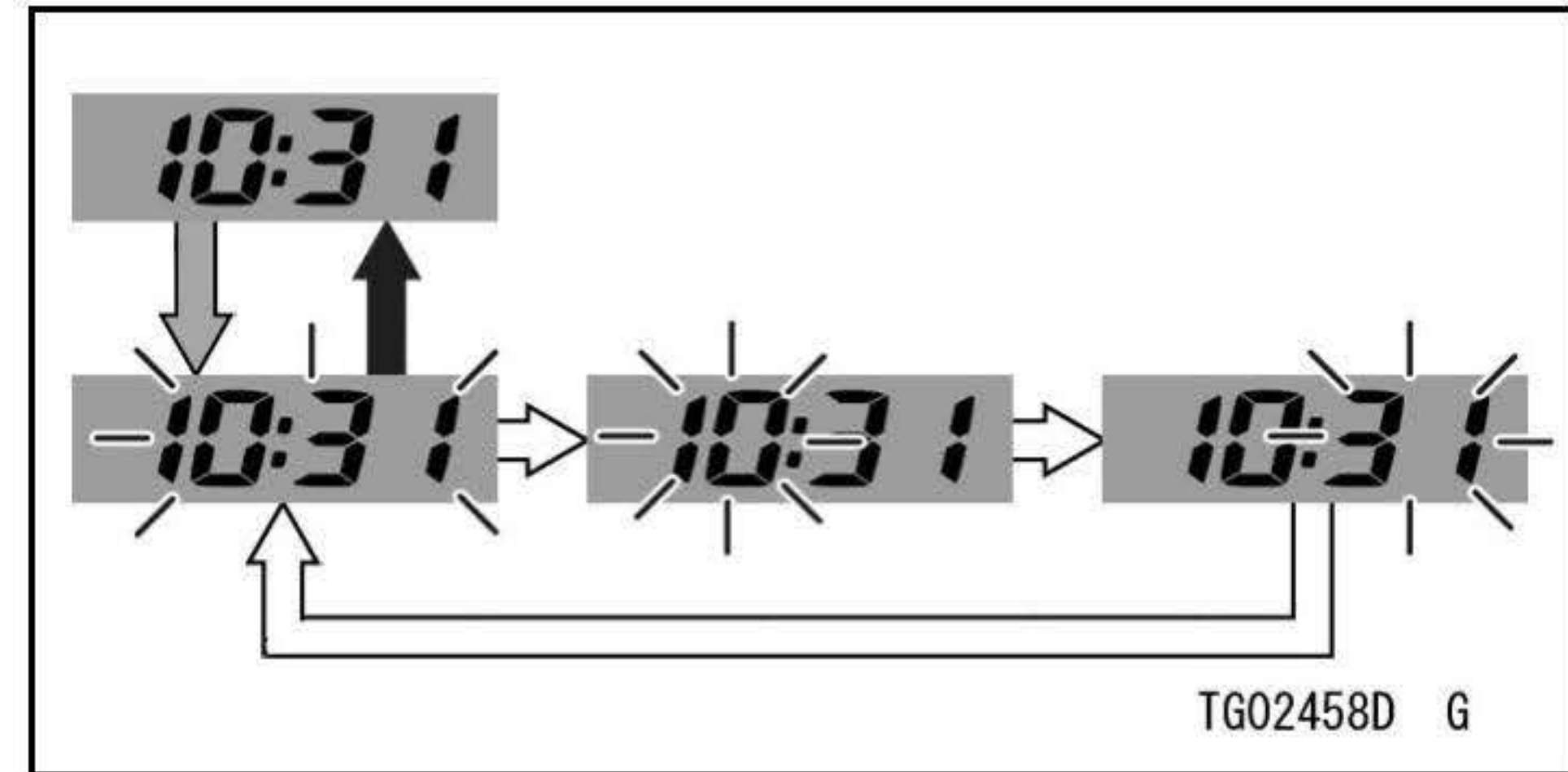
NOTE

- *When the battery is disconnected, the clock is reset to 1:00 (12h mode) or 13:00 (24h mode) and starts working again when the battery is connected.*

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To adjust the clock:

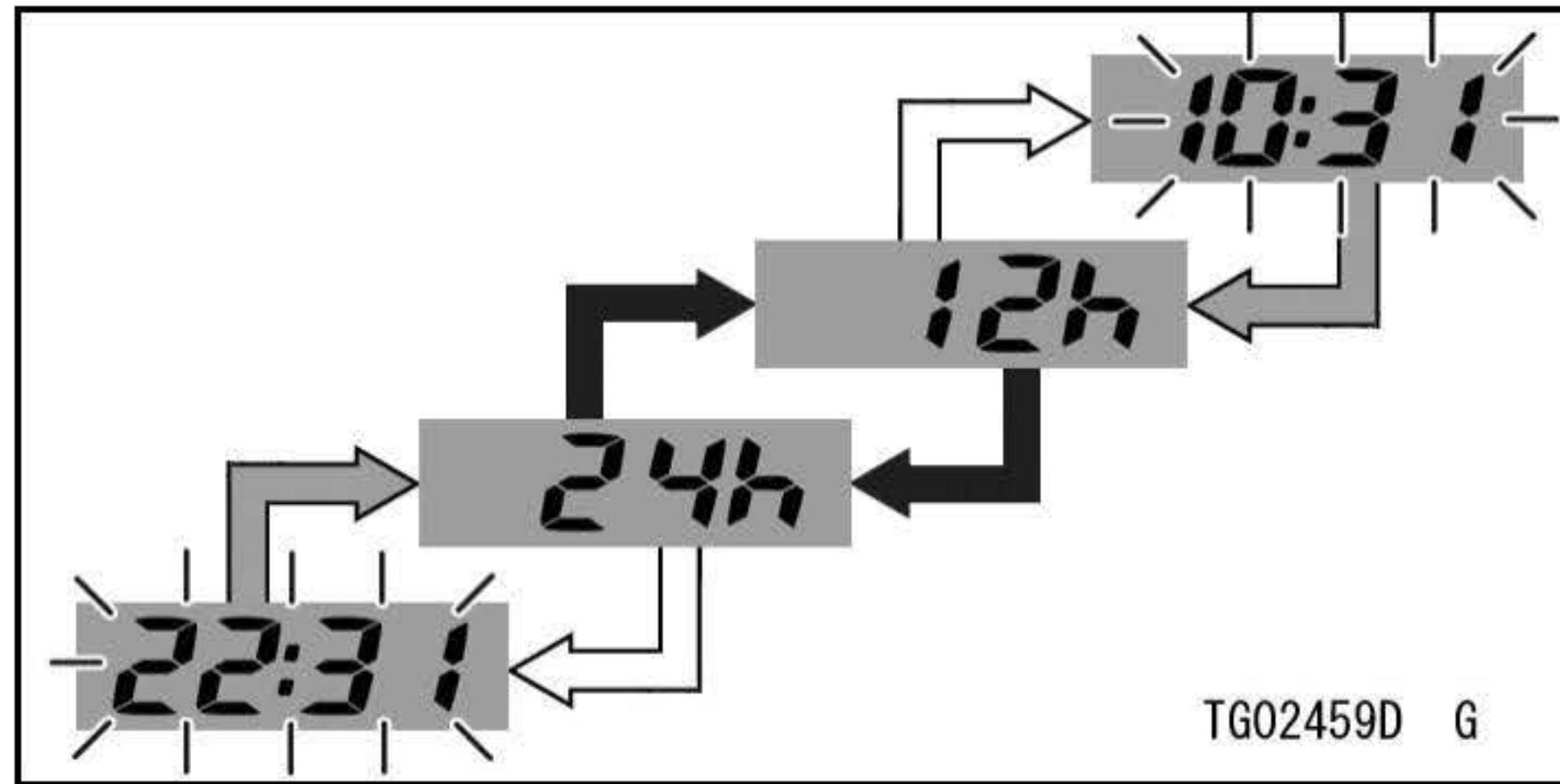
- Display the trip meter A or B.
- Push the upper and lower meter buttons and hold them until shifting to the clock setting mode. The hour and minute displays starts blinking.
- Push the lower meter button to select the hour or minute digits.
- Push the upper meter button to adjust the hour or minute digits.
- To finish the adjustment, push the upper meter button while blinking the hour and minute digits.



- ➡ : Flow when pushing and holding upper and lower meter buttons
- ➡ : Flow when pushing upper meter button
- ➡ : Flow when pushing lower meter button

To change 12h/24h mode:

- During blinking the hour and minute digits, push the lower meter button and hold it. The current mode (12h or 24h) appears.
- Push the upper meter button to select the mode.
- Push the lower meter button to return to the clock adjustment.



- ➡ : Flow when pushing and holding lower meter button
 ➡ : Flow when pushing upper meter button
 ➡ : Flow when pushing lower meter button

Shift-up Indicator Setting

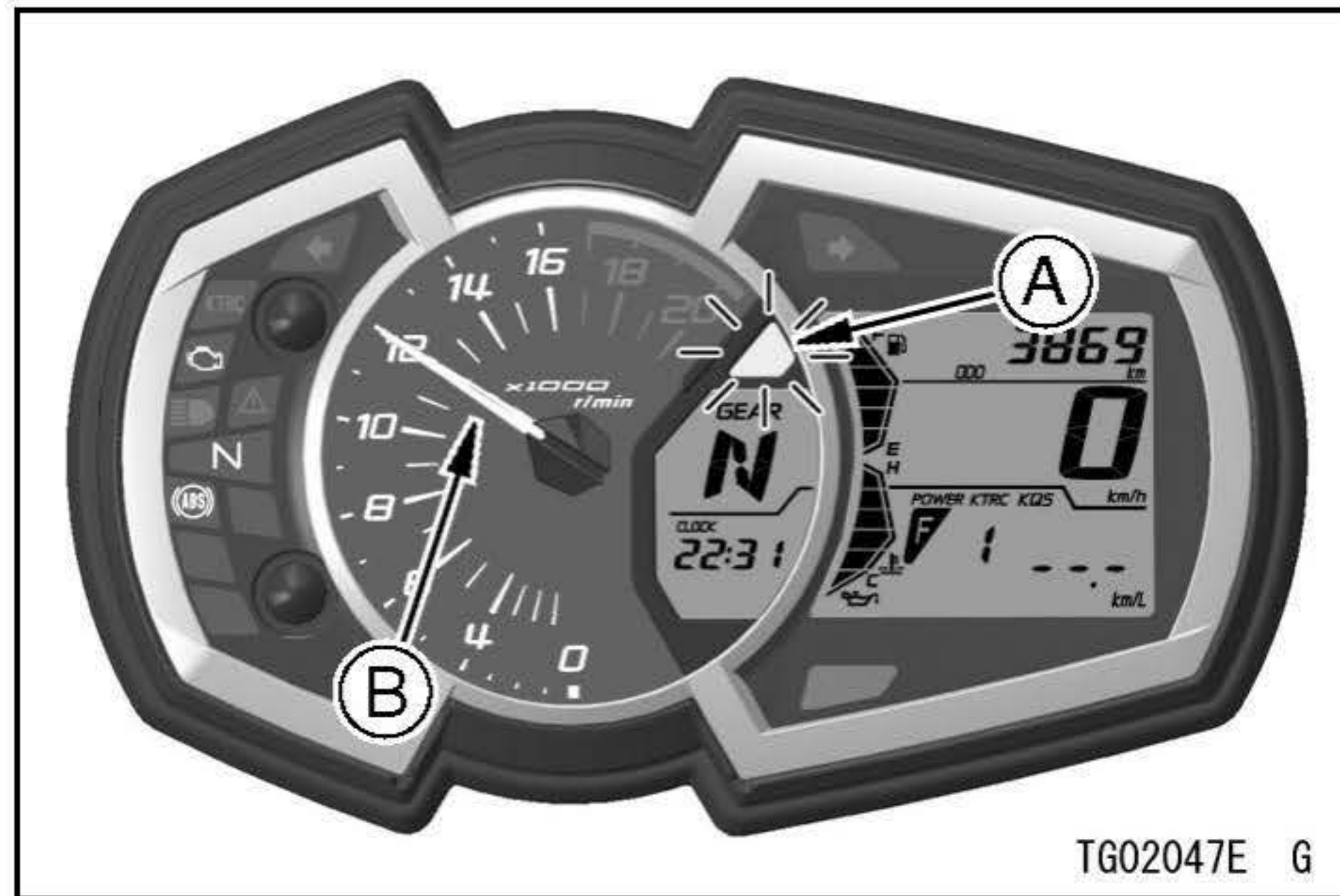
The shift-up indicator indicates the timing for next up shift by blinking the shift-up indicator when the engine speed is reached to the pre-set value.

The shift-up indicator can be selected on or off. The shift-up engine speed can be adjusted between 5 000 r/min (rpm) and 17 000 r/min (rpm).

To set the setting:

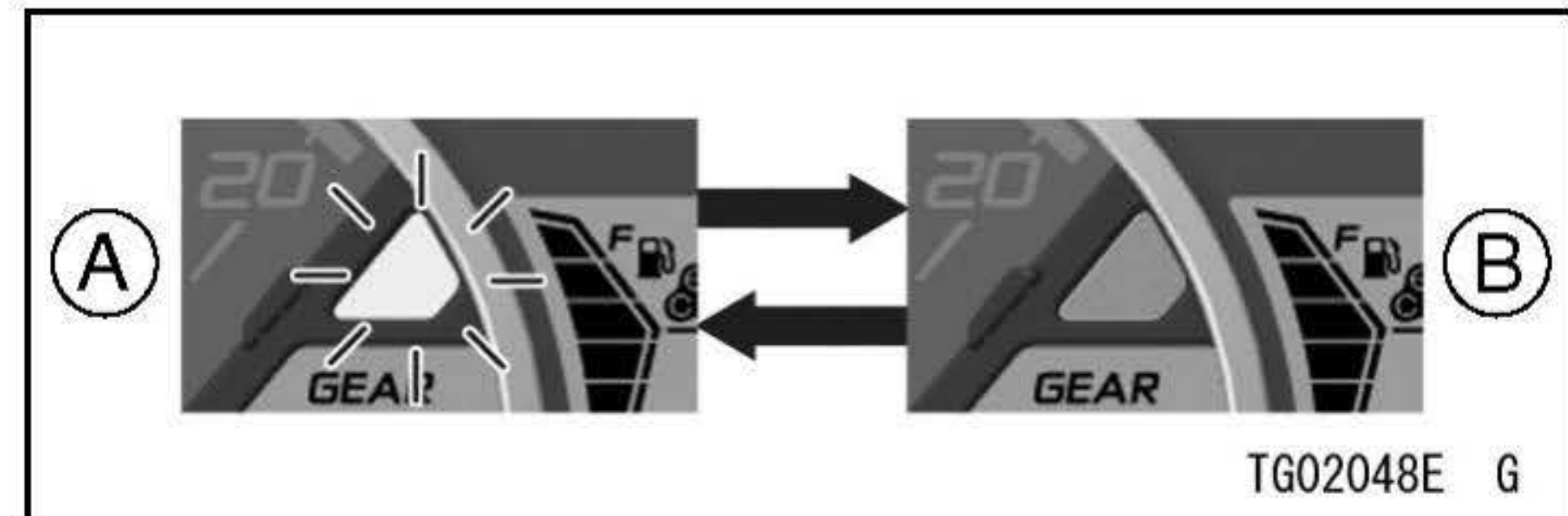
- Display the trip meter A or B.
- Push the upper and lower meter buttons and hold them until shifting to the clock setting mode. The hour and minute displays starts blinking.
- Push and hold the upper meter button until shifting to the shift-up indicator setting mode. The shift-up indicator and the tachometer needle are indicated with the current setting.

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- A. Shift-up Indicator
- B. Tachometer Needle

- Push the upper meter button to select the shift-up indicator on or off.

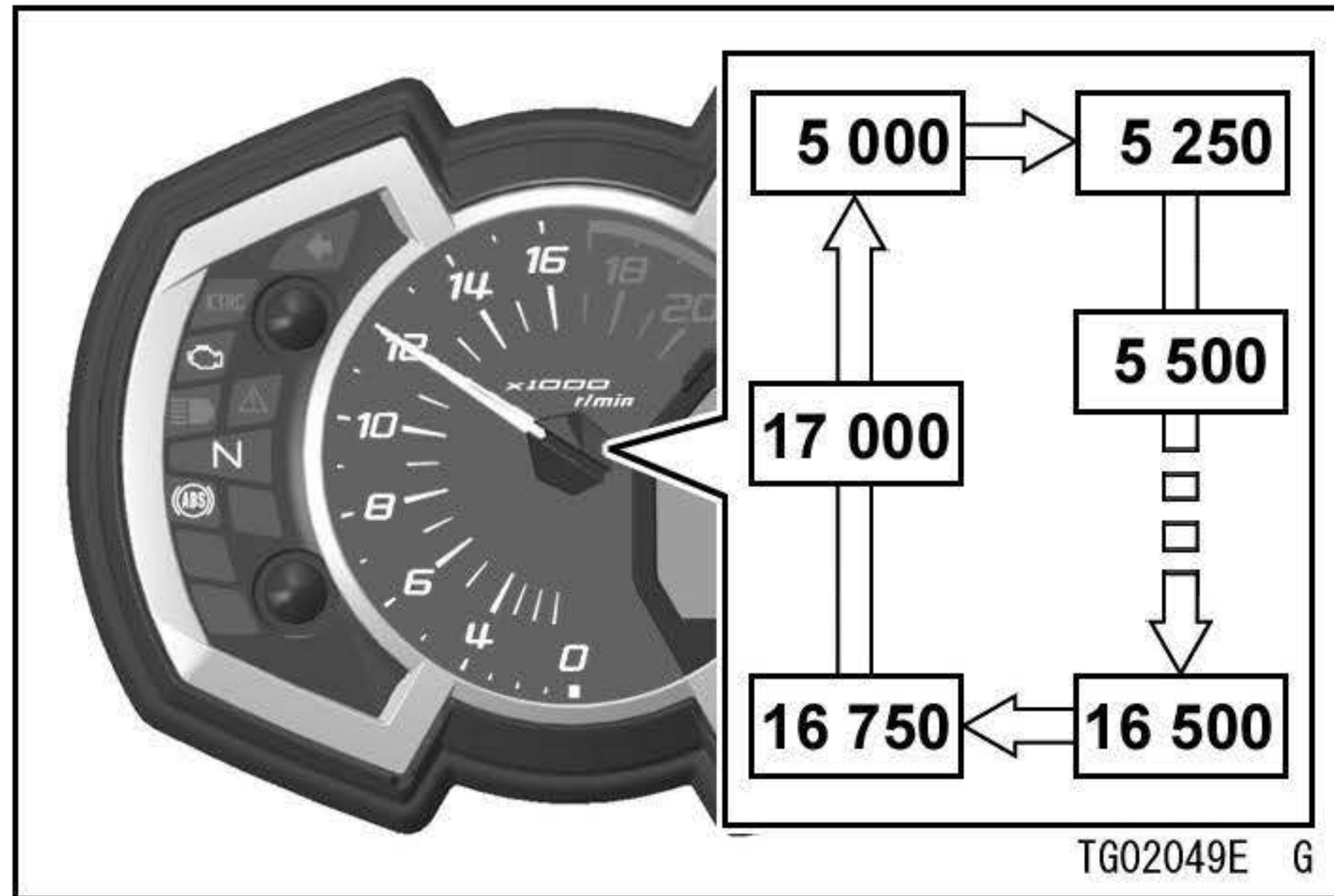


- A. Shift-up Indicator ON (Blink)
- B. Shift-up Indicator OFF (Goes off)
- ➡ : Flow when pushing upper meter button

- Push the lower meter button to adjust the shift-up engine speed.

NOTE

- *When pushing the lower meter button, the shift-up engine speed increases in 250 r/min (rpm) increments up to 17 000 r/min (rpm).*
- *If the shift-up engine speed increases up to 17 000 r/min (rpm), it returns to 5 000 r/min (rpm) and begins increasing.*



➡ : Flow when pushing lower meter button

- To finish the adjustment, push the upper and lower meter buttons and hold them until shifting to the ordinary display.

NOTE

- *Push the upper meter button instead of the two meter buttons and hold*

it in, the display shifts to the clock setting mode.

! WARNING

Failing to properly observe the road ahead increases the chance of an accident. Do not concentrate on the shift-up indicator by taking your eyes off the road, observe using peripheral vision. When shifting down to a lower gear, do not shift at such a high speed that the engine r/min (rpm) jumps excessively. Not only can this cause engine damage, but the rear wheel may skid and cause an accident. Downshifting should be done below 5 000 r/min (rpm) for each gear.

NOTICE

Engine speed should not be allowed to enter the red zone; operation in the red zone will overstress the engine and may cause serious engine damage.

Features***Economical Riding Indicator***

When riding the motorcycle efficiently, the economical riding indicator appears on the multifunction meter to indicate favorable fuel consumption. Monitoring the economical riding indicator can help the rider maximize fuel efficiency.



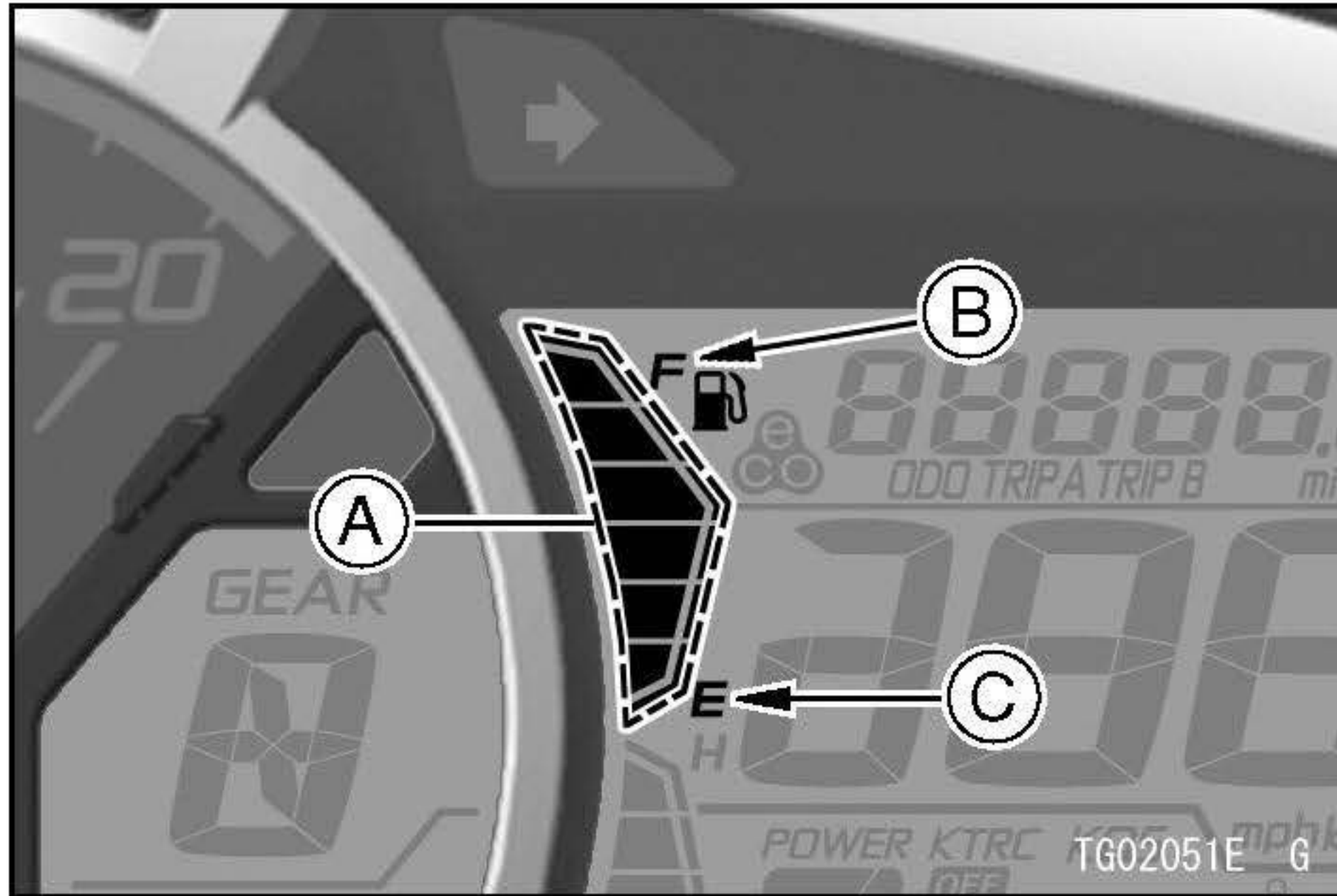
A. Economical Riding Indicator

! WARNING

Failing to properly observe the road ahead increases the chance of an accident resulting in severe injury or death. Do not concentrate on the economical riding indicator by taking your eyes off the road; observe using peripheral vision.

Fuel Gauge

The fuel level in the fuel tank is shown by the number of segments displayed between F (full) and E (empty).



- A. Segments
- B. F (Full)
- C. E (Empty)

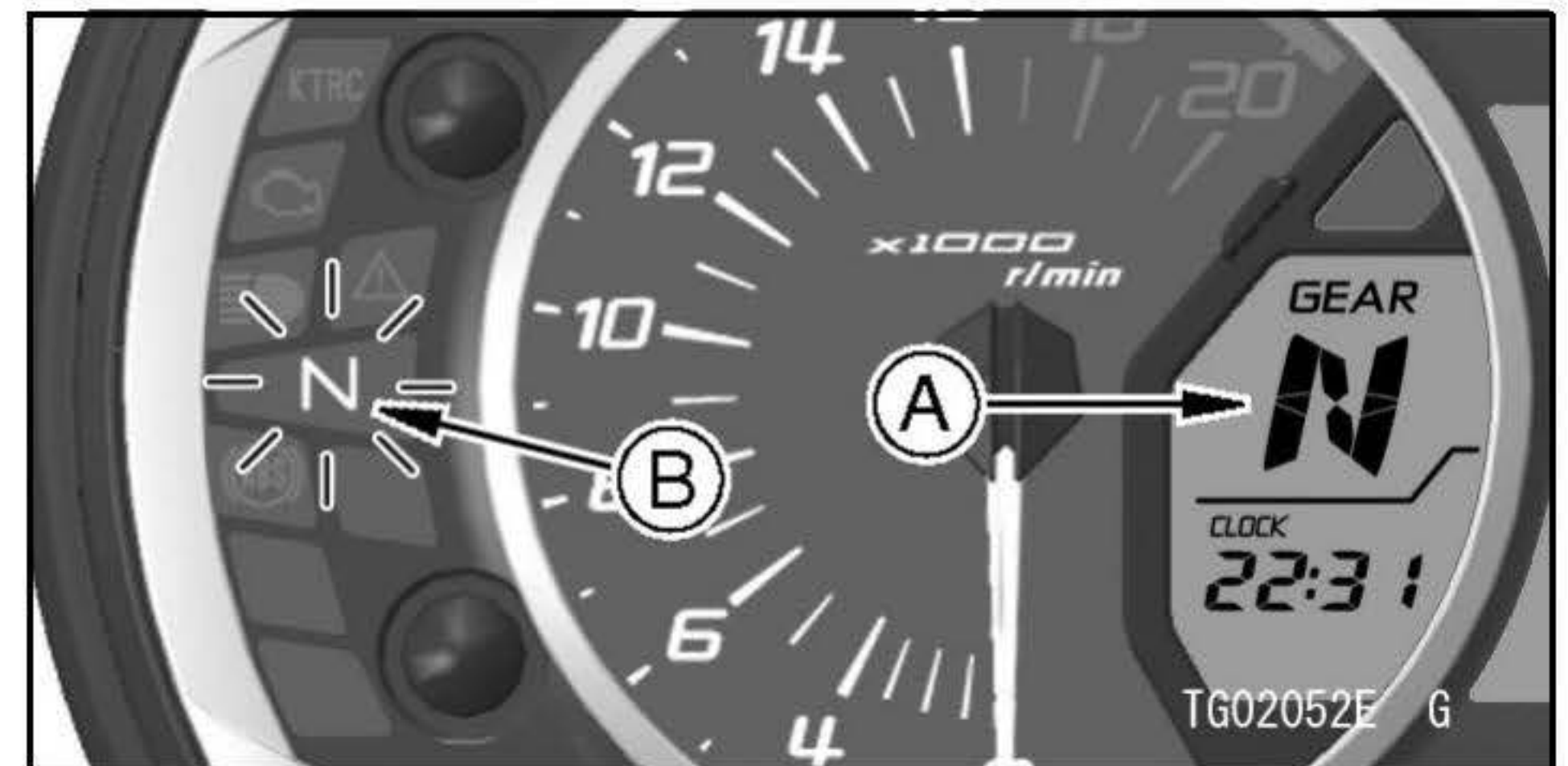
NOTE

- When the fuel tank is full, all the segments are displayed. As the fuel level in the tank goes down, the segments disappear one by one from F (full) to E (empty).
- When the fuel level warning indicator and bottom segment blink, refer to

the “When Warning Indicators Go On or Blink” of Indicators in this chapter.

Gear Position Indicator

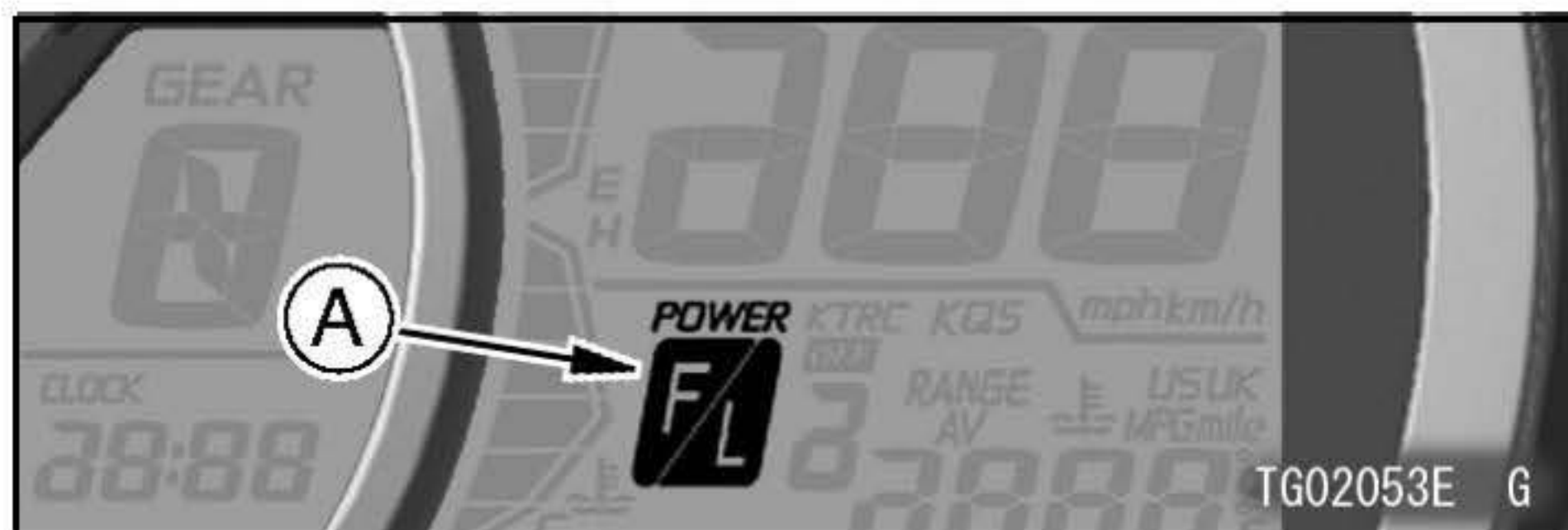
This display shows the current gear position (1st ~ 6th). When the transmission is in neutral, “N” is displayed, and the neutral indicator appears.



- A. Gear Position Indicator
- B. Neutral Indicator

Power Mode Indicator

This display shows the current mode of the power mode.

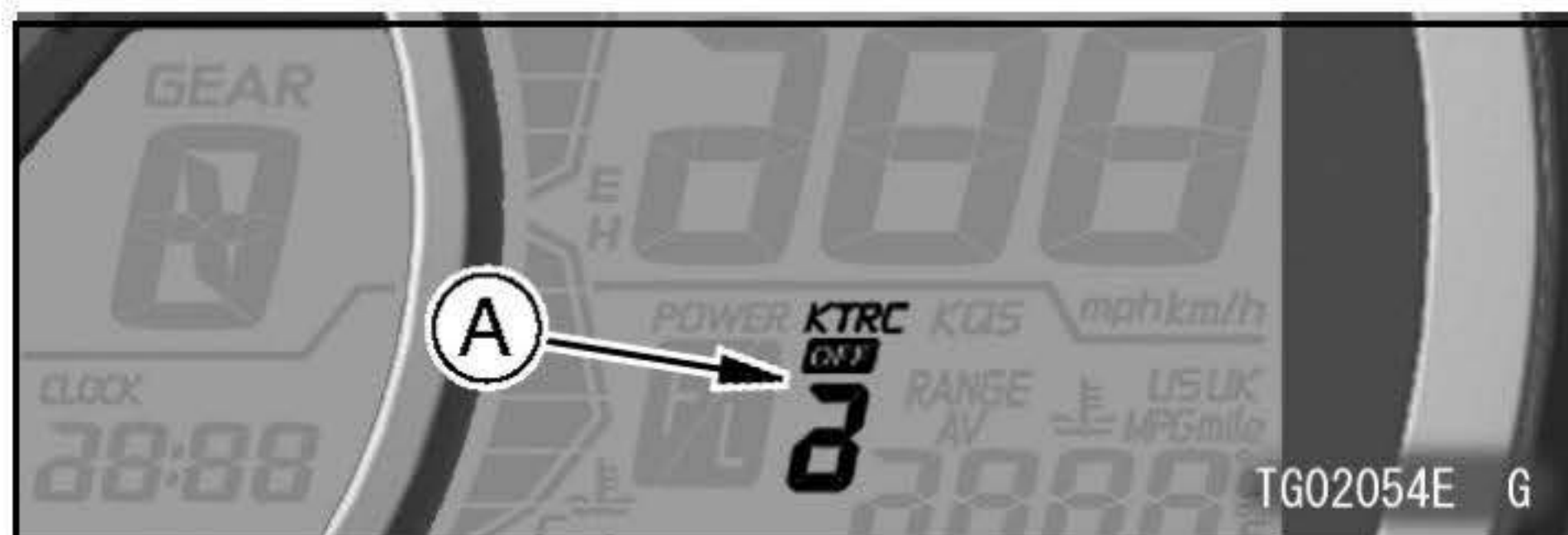


A. Power Mode Indicator

Refer to the Power Mode section in the HOW TO RIDE THE MOTORCYCLE chapter for more information.

KTRC Mode Indicator

This display shows the current mode of KTRC.



A. KTRC Mode Indicator

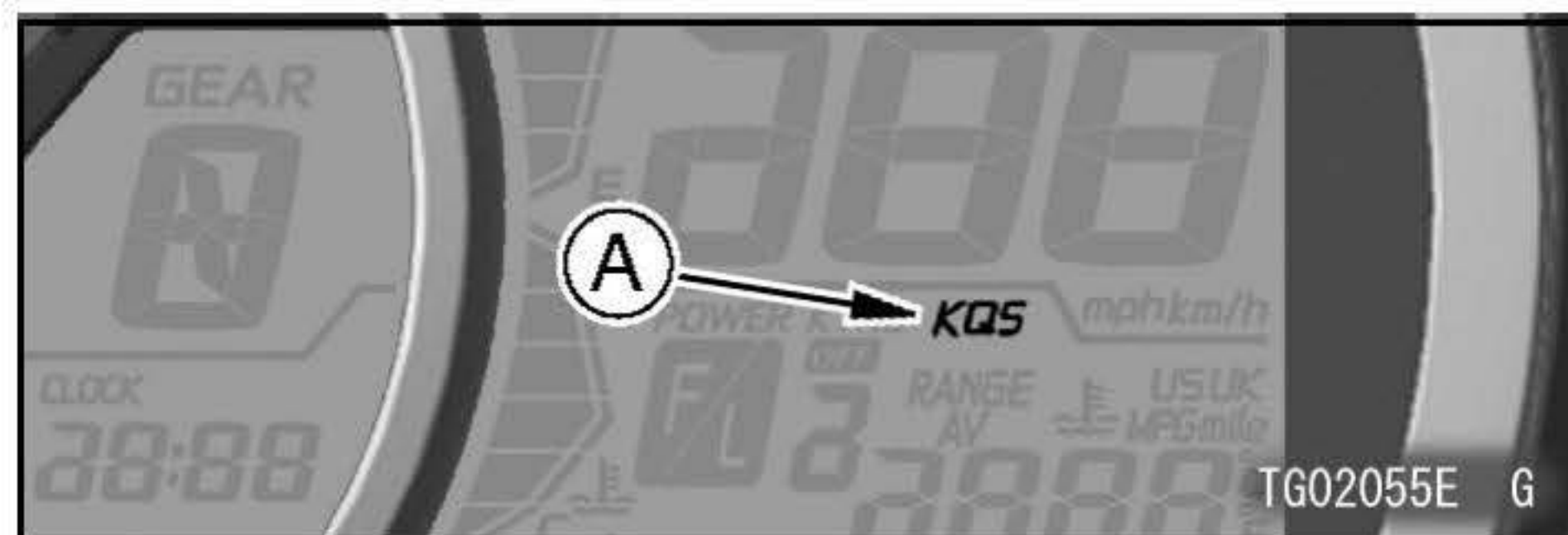
Refer to the Kawasaki TRaction Control (KTRC) section in the HOW TO

RIDE THE MOTORCYCLE chapter for more information.

KQS Mode Indicator

(Equipped Model)

This display shows the current setting of KQS.



A. KQS Mode Indicator

Refer to the Kawasaki Quick Shift (KQS) section in the HOW TO RIDE THE MOTORCYCLE chapter for more information.

Keys

This motorcycle is equipped with an immobilizer system that makes the key

system secure electronically. This motorcycle has two ignition keys.

One key should be stored and another one should be used daily. If you want to register an additional key to the immobilizer system, at least one of already registered keys is required.

When the additional key will be registered, all of your keys are needed.

They should be re-registered to the ECU at that time. Bring all of your keys to an authorized Kawasaki dealer.

Up to five keys can register to the ECU.

If an ignition key is lost, it is strongly recommended to have your all keys re-registered at an authorized Kawasaki dealer to prevent the possibility of theft.

If you lose all of your keys, you must replace the ECU, etc. In any of the above cases, please contact an authorized Kawasaki dealer.

NOTICE

The following can damage keys and prevent the engine from being started, therefore, do not:

- **Put two keys of any immobilizer system on the same key ring.**
- **Submerge a key in water.**
- **Expose a key to excessively high temperature.**
- **Place a key close to magnets.**
- **Place heavy item on a key.**
- **Grind a key or alter its shape.**
- **Disassemble the plastic part of a key.**
- **Drop a key and/or apply shocks to it.**

EC Directive Compliance

This immobilizer system complies with the R & TTE (Radio equipment and

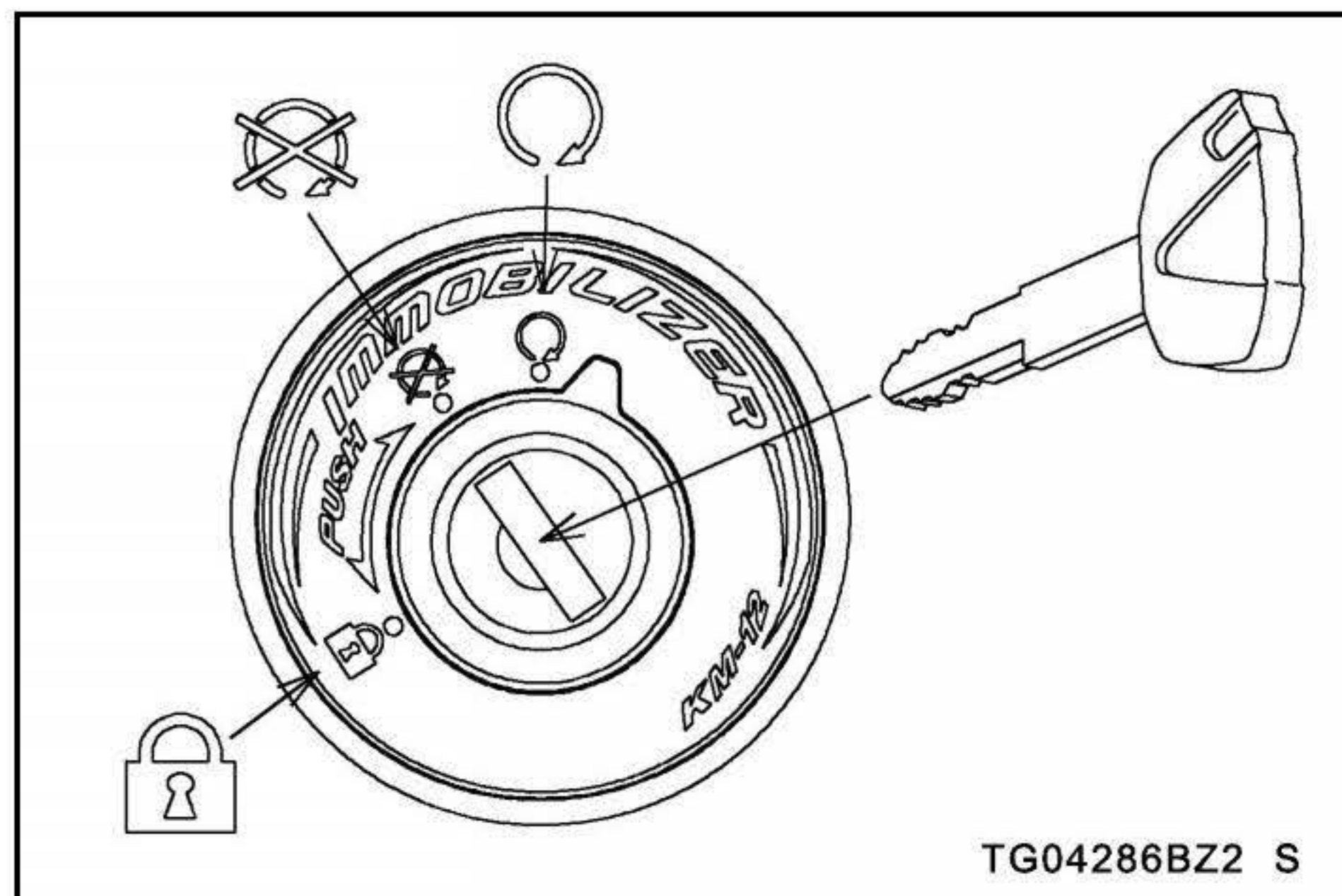
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telecommunications terminal equipment and the mutual recognition of their conformity) Directive.

Ignition Switch/Steering Lock

This is a three-position, key-operated switch.

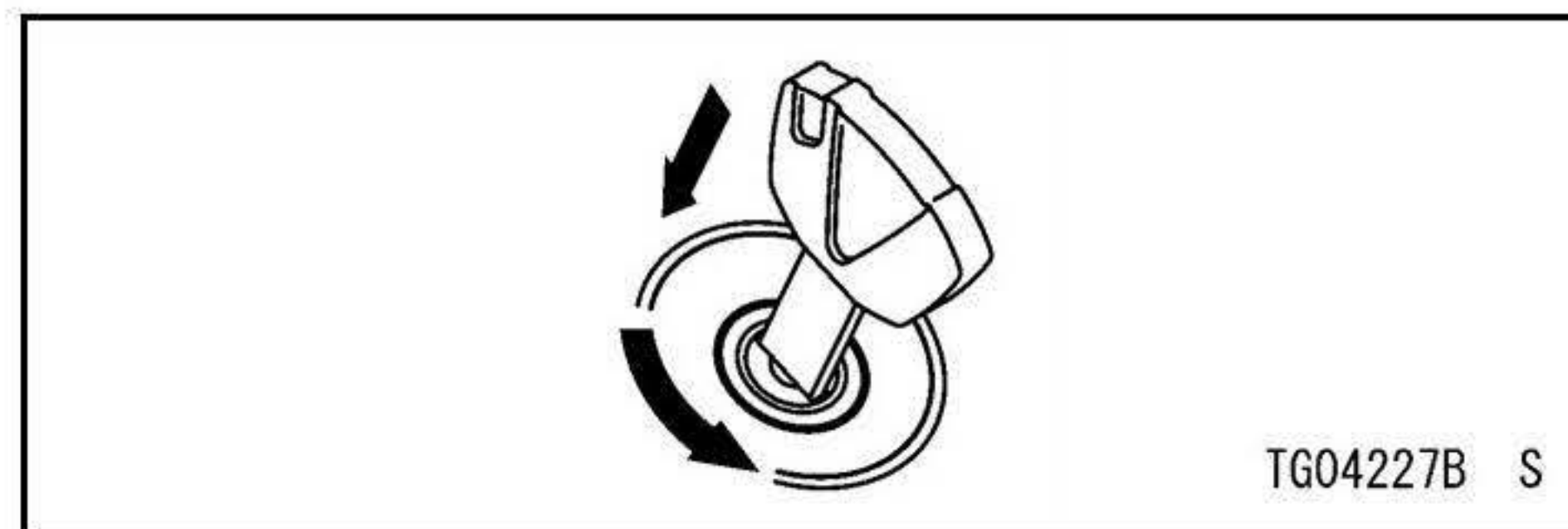
The key can be removed when it is in the  or  position.



ON 	● Engine can be started. ● All electrical equipment can be used. ● Key cannot be removed.
OFF 	● Engine off. ● Electrical equipment is off. ● Key can be removed.
LOCK 	● Steering locked. ● Engine off. ● Electrical equipment is off. ● Key can be removed.

For locking:

1. Turn the handlebars fully to the left.
2. Push the key down in the  position and turn it to .



WARNING

Turning the ignition switch to the  position while riding the motorcycle shuts down the entire electrical system (headlight, brake light, turn signal light, etc.) and the engine will stop, which could cause an accident resulting in severe injury or death. Never operate the ignition switch while riding the motorcycle; only operate it when the motorcycle is at a standstill.

NOTE

- *The tail, city and license plate lights are on whenever the ignition key is in the  position. The headlight goes*

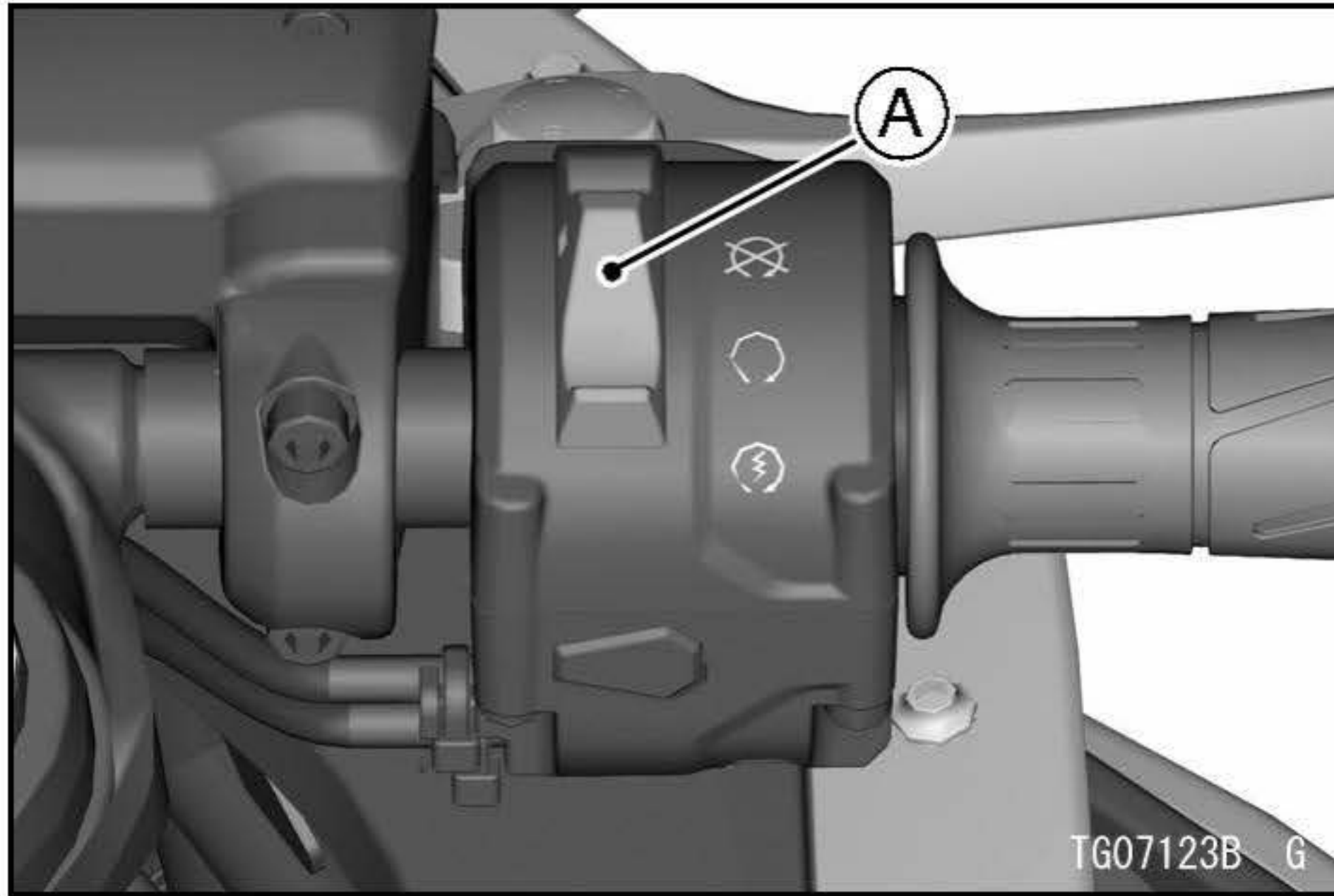
on when the engine start/stop switch is released after starting the engine.

- *Do not leave the ignition switch at the  position for an extended time with the engine stopped, or the battery may become totally discharged.*
- *Do not leave the hazard lights switched on for a long time without the engine running or the battery will become discharged.*

Right Handlebar Switches

NOTE

- *Do not put any magnet close to the right switch housing. It may affect the electronic throttle sensor.*



A. Engine Start/Stop Switch

Engine Start/Stop Switch

To start the engine, refer to the Starting the Engine section for starting instructions.

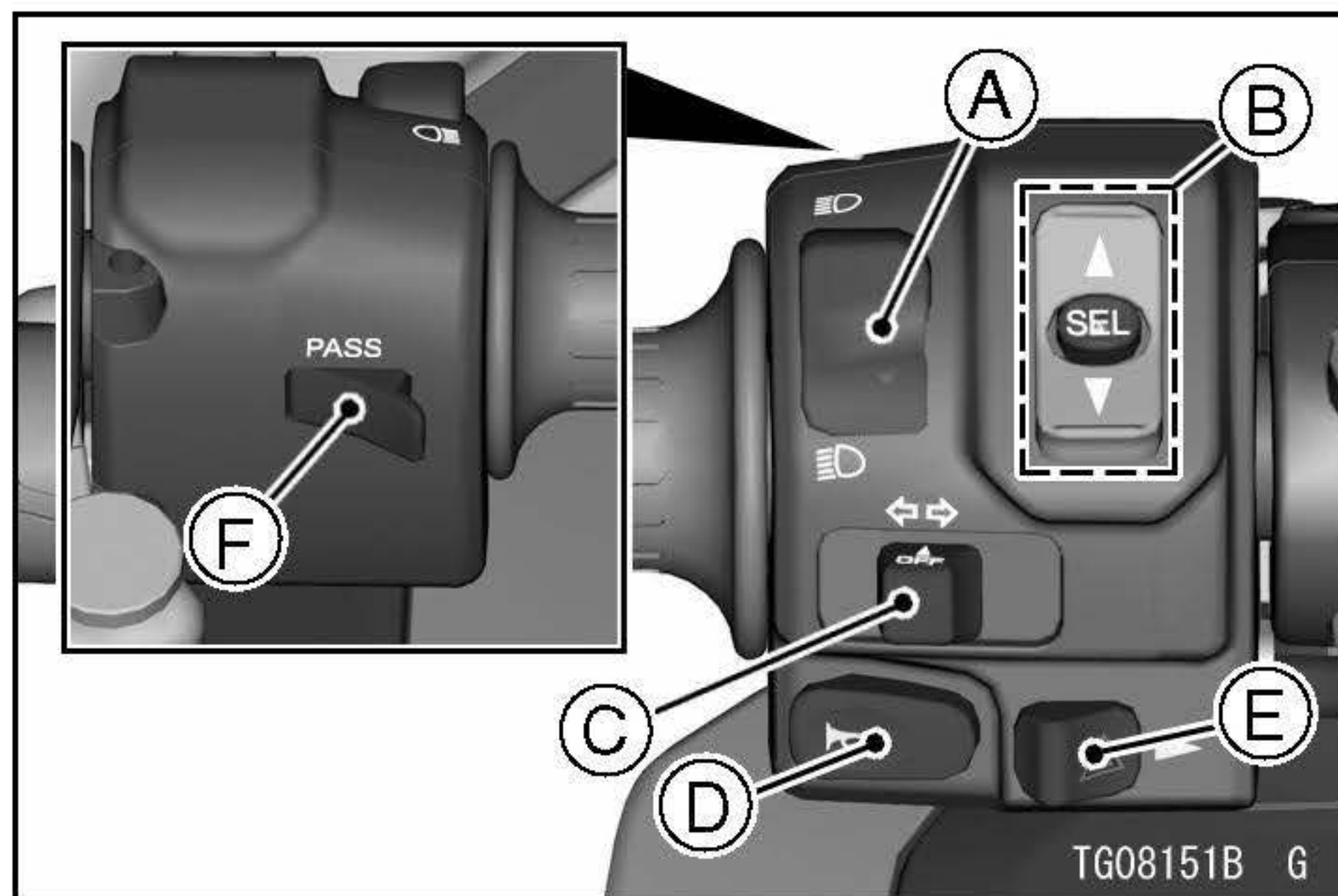
To stop the engine in an emergency, move the engine stop switch to the  position.

Ordinarily, the engine stop switch must be in the  position for the motorcycle to operate.

NOTE

- *Ordinarily, the ignition switch should be used to stop the engine.*
- *Although the engine stop switch stops the engine, it does not turn off all the electrical circuits and eventually the battery will be discharged.*

Left Handlebar Switches



- A. Dimmer Switch
- B. Multifunction Button
- C. Turn Signal Switch
- D. Horn Button
- E. Hazard Switch
- F. Passing Button

Dimmer Switch

High or low beam can be selected with the dimmer switch.

High beam...  (High beam indicator: see Meter Instruments section)

Low beam... 

NOTE

- *Do not allow anything to cover the headlight lens when the headlight is on. If covered, heat can build up in the headlight lens causing lens discoloration or melting, as well as damage to the item covering the lens.*

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Multifunction Button

The multifunction button is used for setting the meter display, power mode, KTRC mode and KQS mode.

Meter setting:	Refer to the Display Setting section.
Power mode setting:	Refer to the Power Mode section in the HOW TO RIDE THE MOTORCYCLE chapter.
KTRC setting:	Refer to the Kawasaki TRaction Control (KTRC) section in the HOW TO RIDE THE MOTORCYCLE chapter.
KQS mode setting (Equipped model):	Refer to the KQS section in the HOW TO RIDE THE MOTORCYCLE chapter.

Turn Signal Switch

When the turn signal switch is turned to the left () or right (), the corresponding turn signal lights and turn signal indicator blinks. To cancel the turn signal, push the switch in.

Horn Button

When the horn button is pushed, the horn sounds.

Hazard Switch

Push in the hazard switch with the ignition switch in the  position or the  position. All the turn signal lights and turn signal indicators will blink.

NOTE

- *Be careful not to use the hazard lights for an extended period of time, otherwise the battery may become totally discharged.*

Passing Button PASS

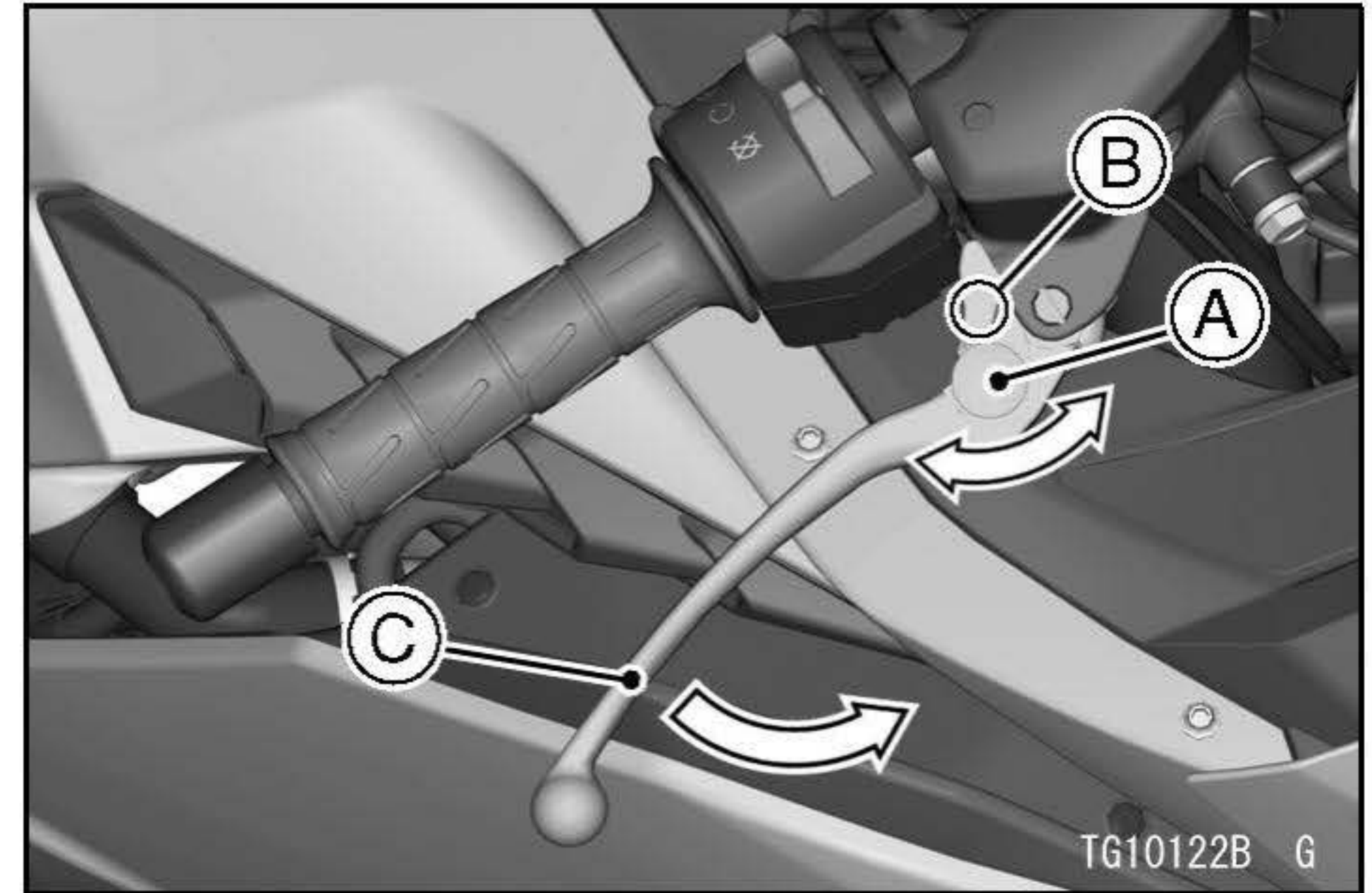
The high beam turns on only while the passing button is pushed.

Brake Lever Adjuster

While pushing the brake lever forward, rotate the adjuster and choose a suitable lever position from the five positions.

[Brake Lever Adjustment]

Adjuster Position	1	2	3	4	5
Lever Position	Far ←	← —	— →	→	Near



- A. Adjuster
- B. Mark
- C. Brake Lever

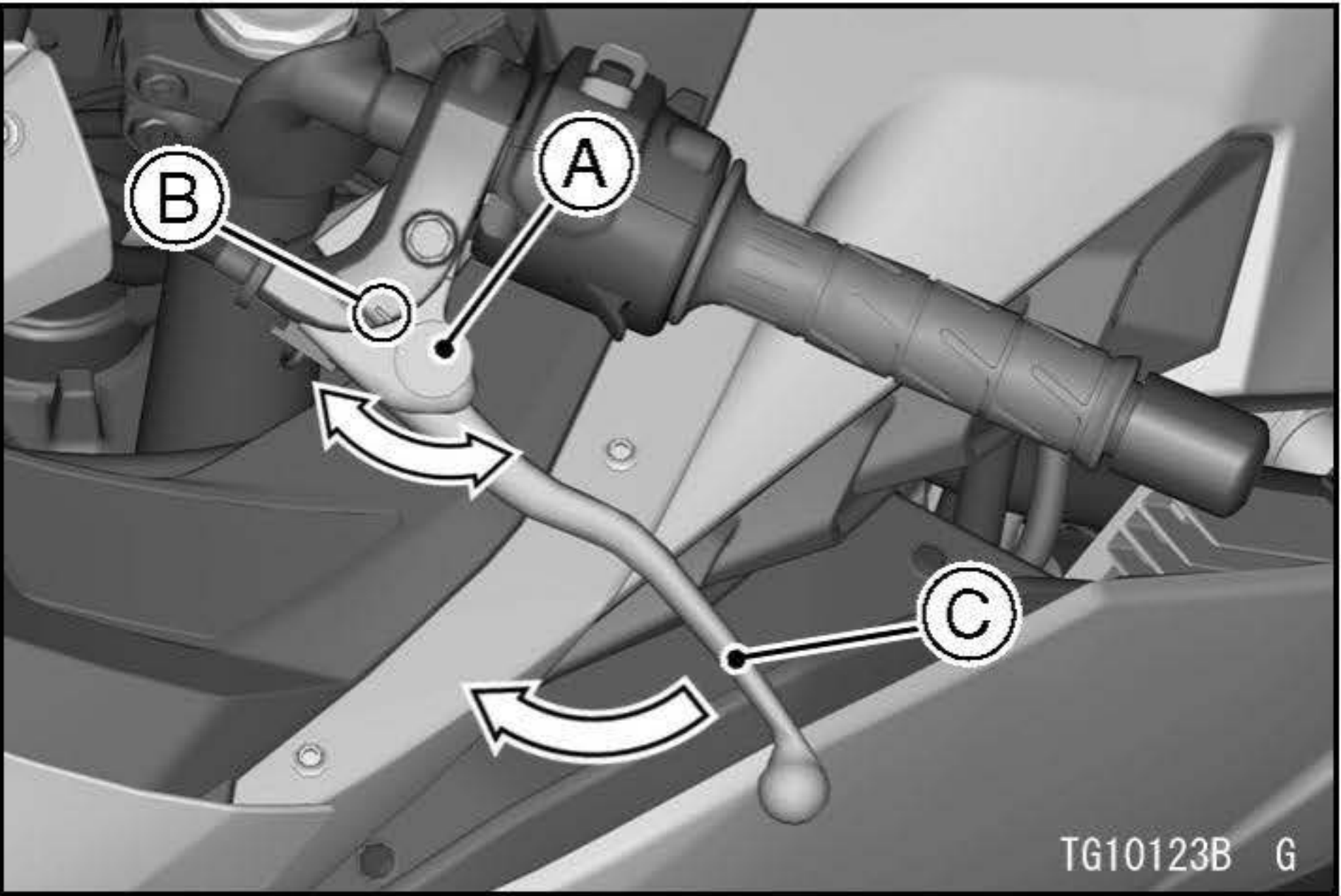
Clutch Lever Adjuster

While pushing the clutch lever forward, rotate the adjuster and choose a suitable lever position from the five positions.

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[Clutch Lever Adjustment]

Adjuster Position	1	2	3	4	5
Lever Position	Far ←	← —	— →	→	Near



- A. Adjuster
- B. Mark
- C. Clutch Lever

Fuel

WARNING

Gasoline is extremely flammable and can be explosive under certain conditions, creating the potential for serious burns. Turn the ignition switch off. Do not smoke. Make sure the area is well ventilated and free from any source of flame or sparks; this includes any appliance with a pilot light.

Fuel Requirements

Your Kawasaki engine is designed to use only unleaded gasoline with a minimum octane rating shown below. Never use gasoline with an octane rating lower than the minimum specified

by Kawasaki to prevent severe engine damage.

The octane rating of a gasoline is a measure of its resistance to detonation or “knocking.” The term commonly used to describe a gasoline’s octane rating is the Research Octane Number (RON).

NOTICE

Do not use leaded gasoline, as this will destroy the catalytic converter.

NOTICE

If engine “knocking” or “pinging” occurs, use a different brand of gasoline of a higher octane rating. If this condition is allowed to continue, it can lead to severe engine damage. Gasoline quality is important. Fuels of low quality or not meeting standard industry specifications may result in unsatisfactory performance. Operating problems that result from the use of poor quality or no recommended fuel may not be covered under your warranty.

Fuel Type and Octane Rating

(Except for Thailand and Philippines Specification)

Use clean, fresh unleaded gasoline with an octane rating equal to or higher than that shown in the table.

Fuel Type	Unleaded Gasoline
Minimum Octane Rating	Research Octane Number (RON) 91

NOTICE

Do not use any fuel with an ethanol in this vehicle. It has not been tested and certified for use with such fuels. Damage to the engine and fuel system, or engine starting and/or performance problems may result from the use of improper fuel.

(For Thailand and Philippines Specification)

Use clean, fresh unleaded gasoline with an ethanol volume content not more than 10% and an octane rating equal to or higher than that shown in the table.

Fuel Type	Unleaded Gasoline
Ethanol Content	E10 or less
Minimum Octane Rating	Research Octane Number (RON) 91

NOTICE

Do not use any fuel that contains more ethanol or other oxygenates than specified for E10 fuel* in this vehicle. Damage to the engine and fuel system, or engine starting and/or performance problems may result from the use of improper fuel.

*E10 means fuel containing up to 10% ethanol.

Filling the Tank

Avoid filling the tank in the rain or where heavy dust is blowing so that the fuel does not get contaminated.

WARNING

Gasoline is extremely flammable and can be explosive under certain conditions, creating the potential for serious burns. Turn the ignition switch off. Do not smoke.

Make sure the area is well ventilated and free from any source of flame or sparks; this includes any appliance with a pilot light. Never fill the tank completely to the top.

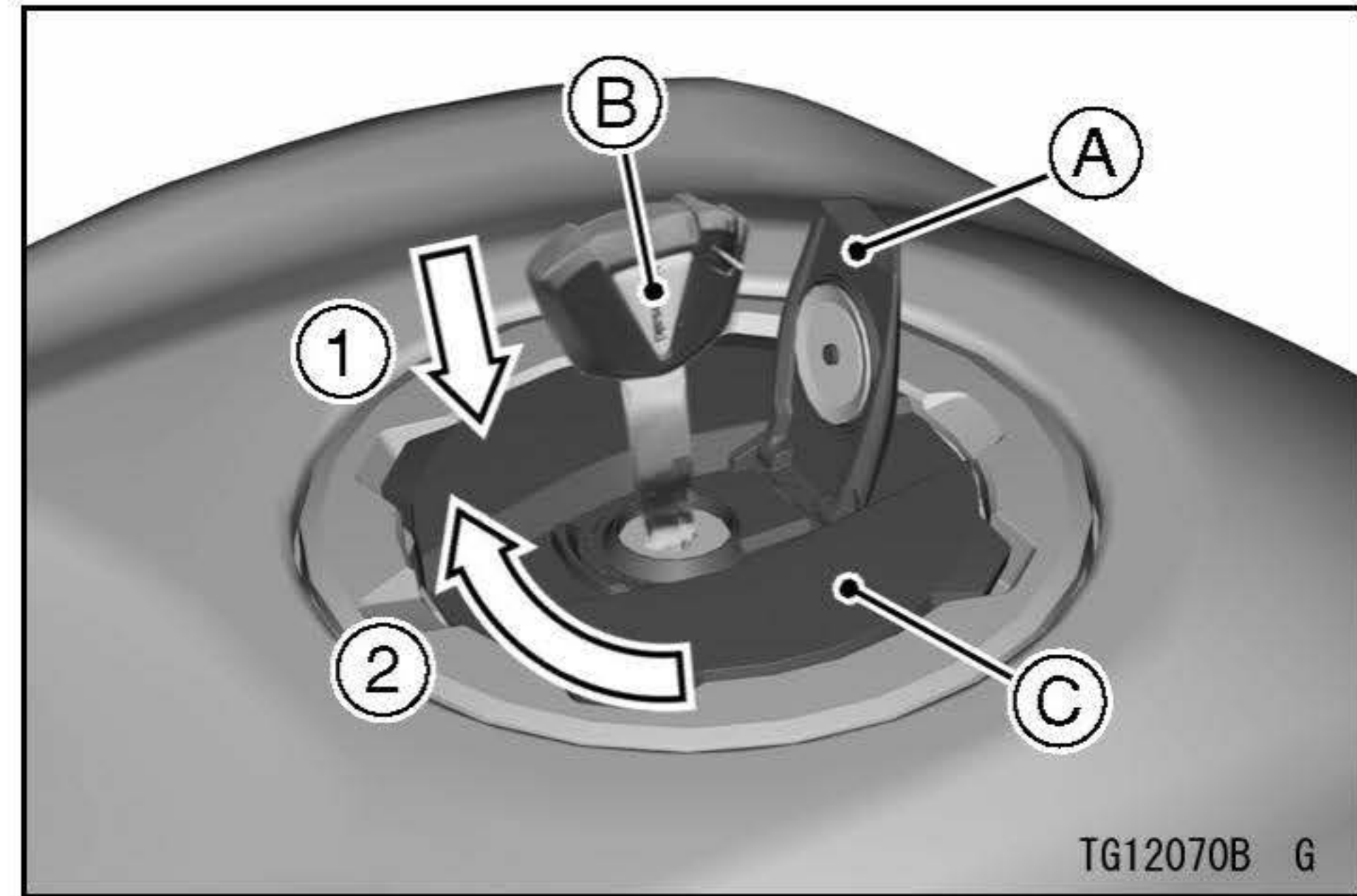
If the tank is filled completely to the top, heat may cause the fuel to expand and overflow through the vents in the tank cap.

After refueling, make sure the tank cap is closed securely. If gasoline is spilled on the fuel tank, wipe it off immediately.

NOTICE

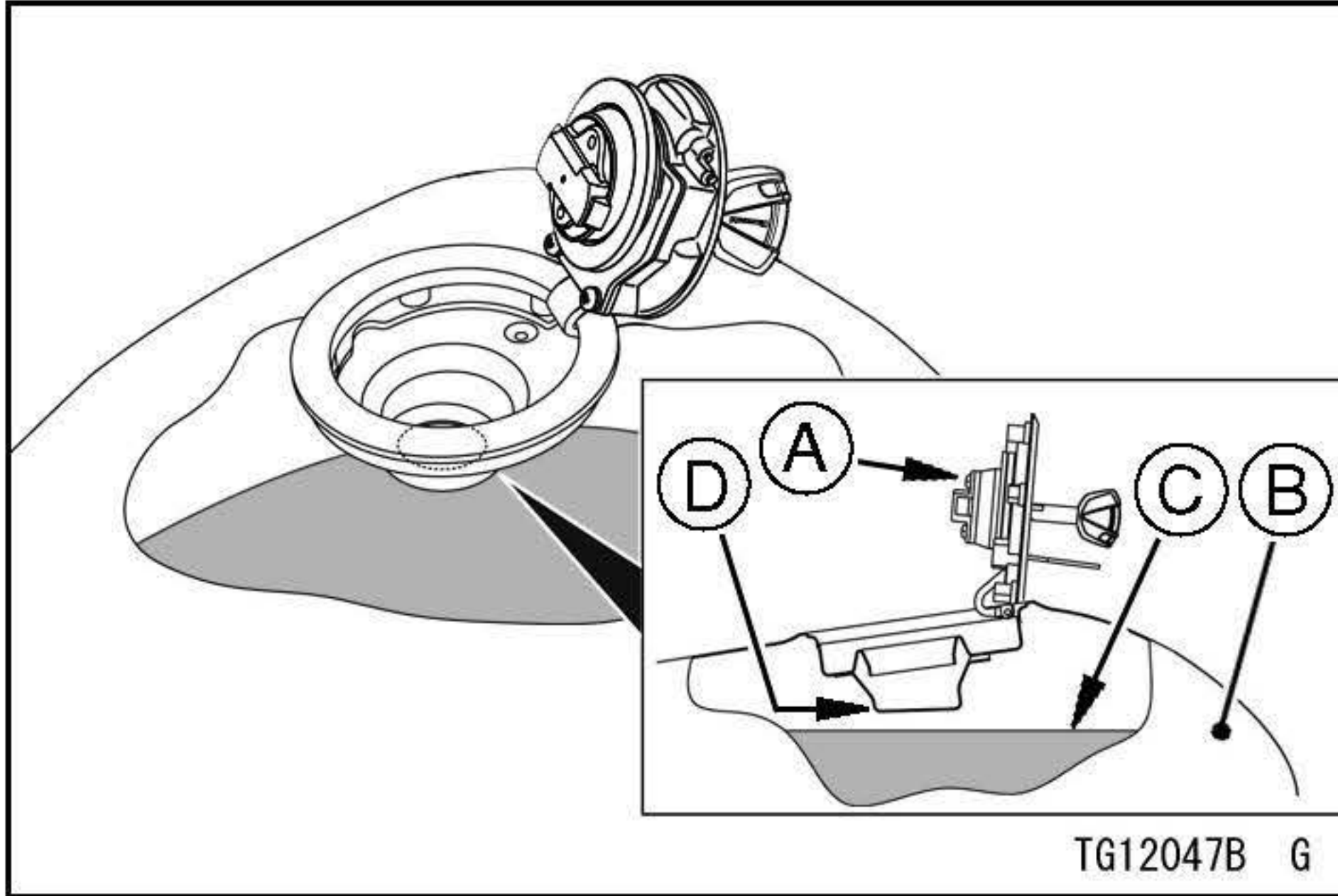
Except Indonesia model: Never fill the tank so the fuel level rises into the filler neck. If the tank is overfilled, heat may cause the fuel to expand and flow into the Evaporative Emission Control System resulting in hard starting, engine hesitation and non-compliance with the emission regulation.

- Lift the key hole cover.
- Insert the ignition key into the fuel tank cap.
- Turn the key clockwise while pushing down the fuel tank cap.



- A. Key Hole Cover
B. Ignition Key
C. Fuel Tank Cap

- Open the fuel tank cap.
- Add fuel.



- A. Tank Cap
- B. Fuel Tank
- C. Top Level
- D. Bottom of Filler Neck (Maximum Fuel Level)

NOTE

- *Do not exceed the maximum fuel level as shown.*
- Push the fuel tank cap down into place with the key inserted.

- The key can be removed by turning counterclockwise to the original position.
- Close the key hole cover.

NOTICE

Never fill the tank completely to the top.
If the tank is filled completely to the top, heat may cause the fuel to expand and overflow through the vents in the tank cap.
After refueling, make sure the tank cap is closed securely.
If gasoline is spilled on the fuel tank, wipe it off immediately.

NOTE

- *The fuel tank cap cannot be closed without the key inserted, and the key*

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cannot be removed unless the cap is locked properly.

- *Do not push on the key to close the cap, or the cap cannot be locked.*

Side Stand

Always kick the stand fully up before moving the motorcycle. The engine will stop automatically if the motorcycle is in gear and the clutch is released with the side stand down.

NOTE

- *When using the side stand, turn the handlebars to the left.*
- *Make sure the side stand is down securely before leaving the motorcycle.*
- *Do not sit on the motorcycle while it is on its side stand.*

Seats

(For pillion seat cover equipped models)

The pillion seat cover removal and installation is the same procedure as the Passenger's Seat Removal and Installation.

NOTE

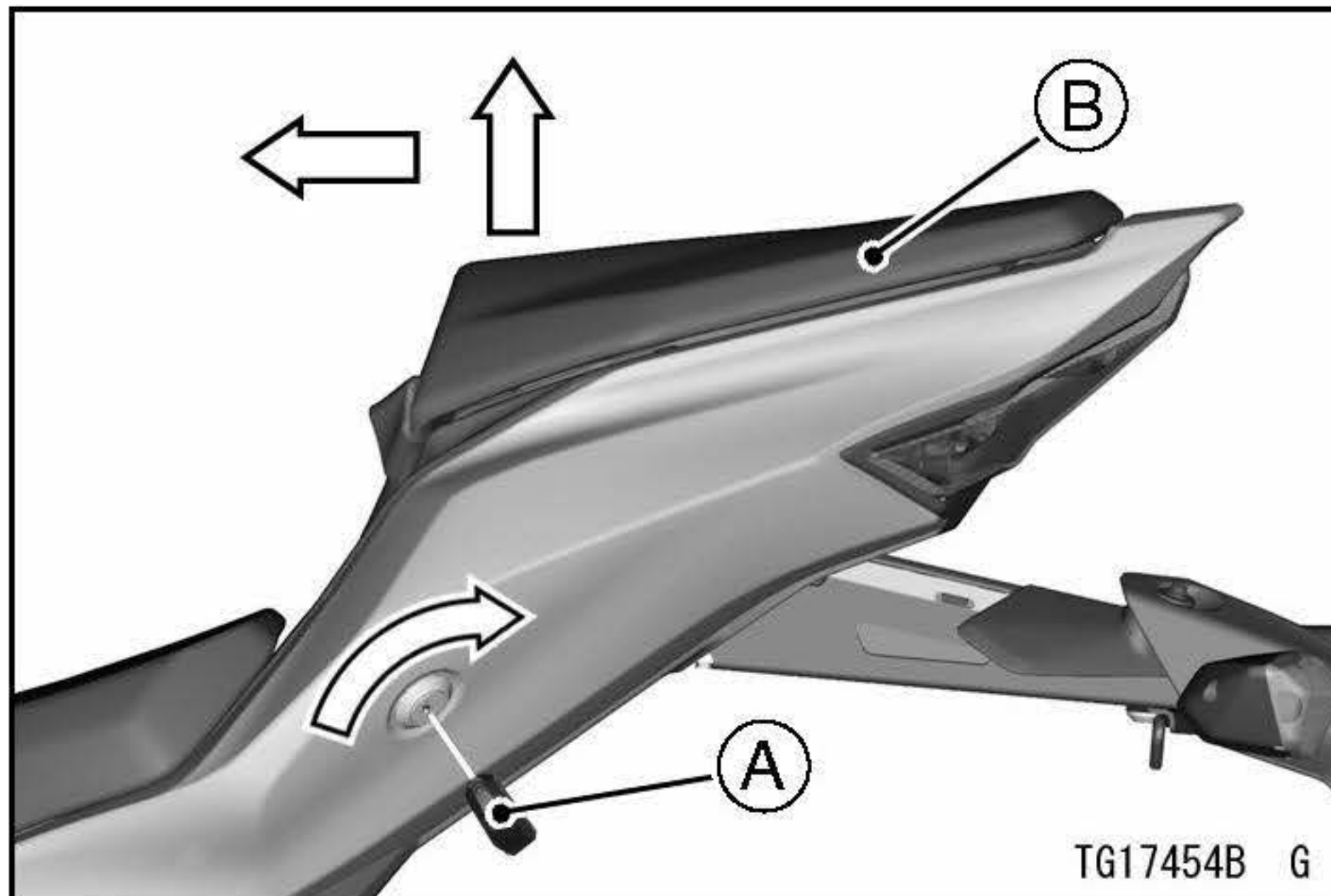
- *Do not carry any passenger when the pillion seat cover is installed on the motorcycle.*

The seats can be removed by in order of the passenger's seat then the rider's seat.

Passenger's Seat Removal

- Insert the ignition key into the seat lock.
- Lift the front part of the passenger's seat upward while turning the key clockwise.

- Remove the passenger's seat forward.
- Remove the ignition key.

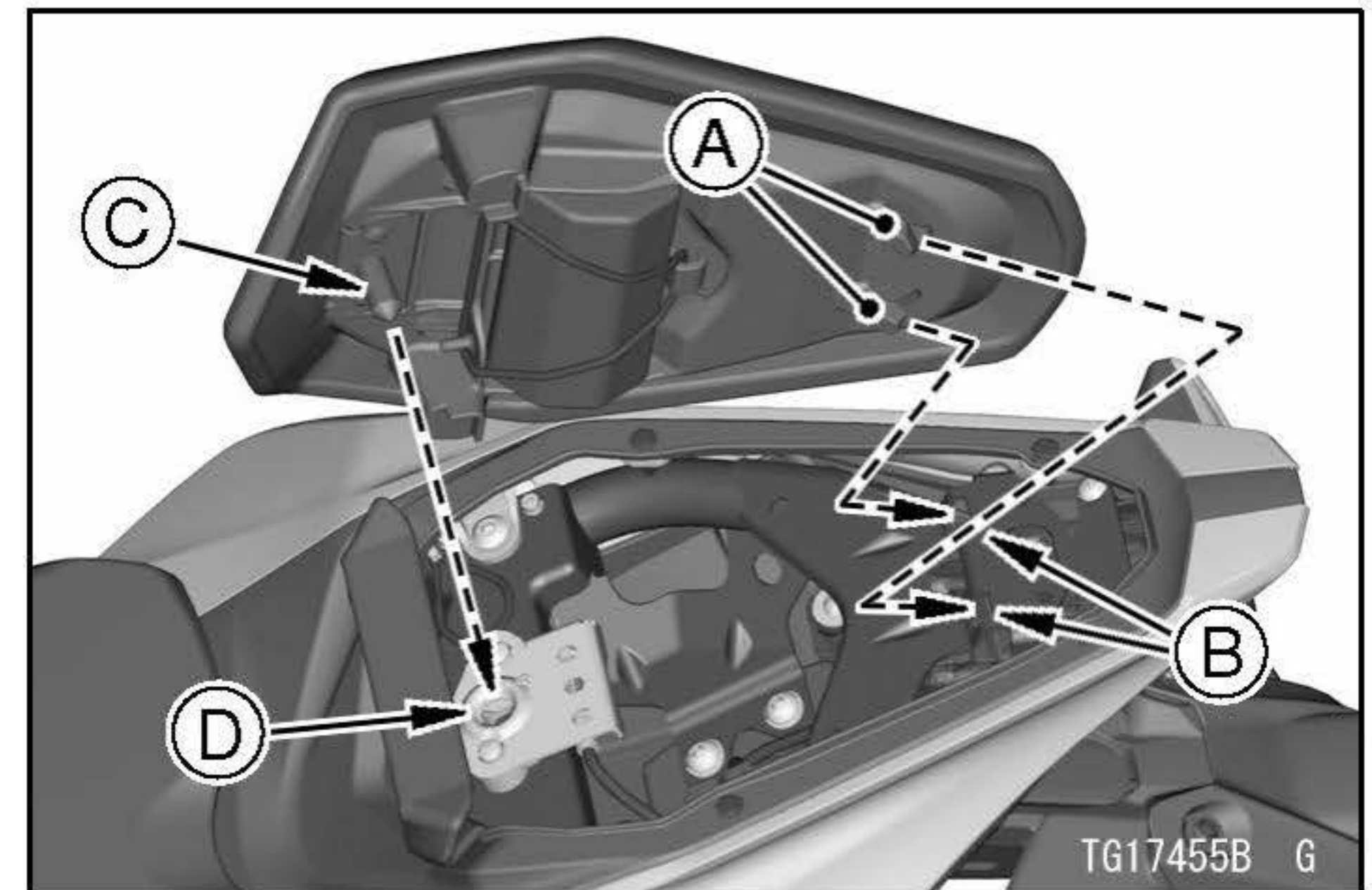


A. Ignition Key
B. Passenger's Seat

Passenger's Seat Installation

- Insert the hooks at the rear of the passenger's seat into the slots of the frame.

- Insert the seat lock projection at the front of the passenger's seat into the latch hole.
- Push down the front part of the passenger's seat until the lock clicks.



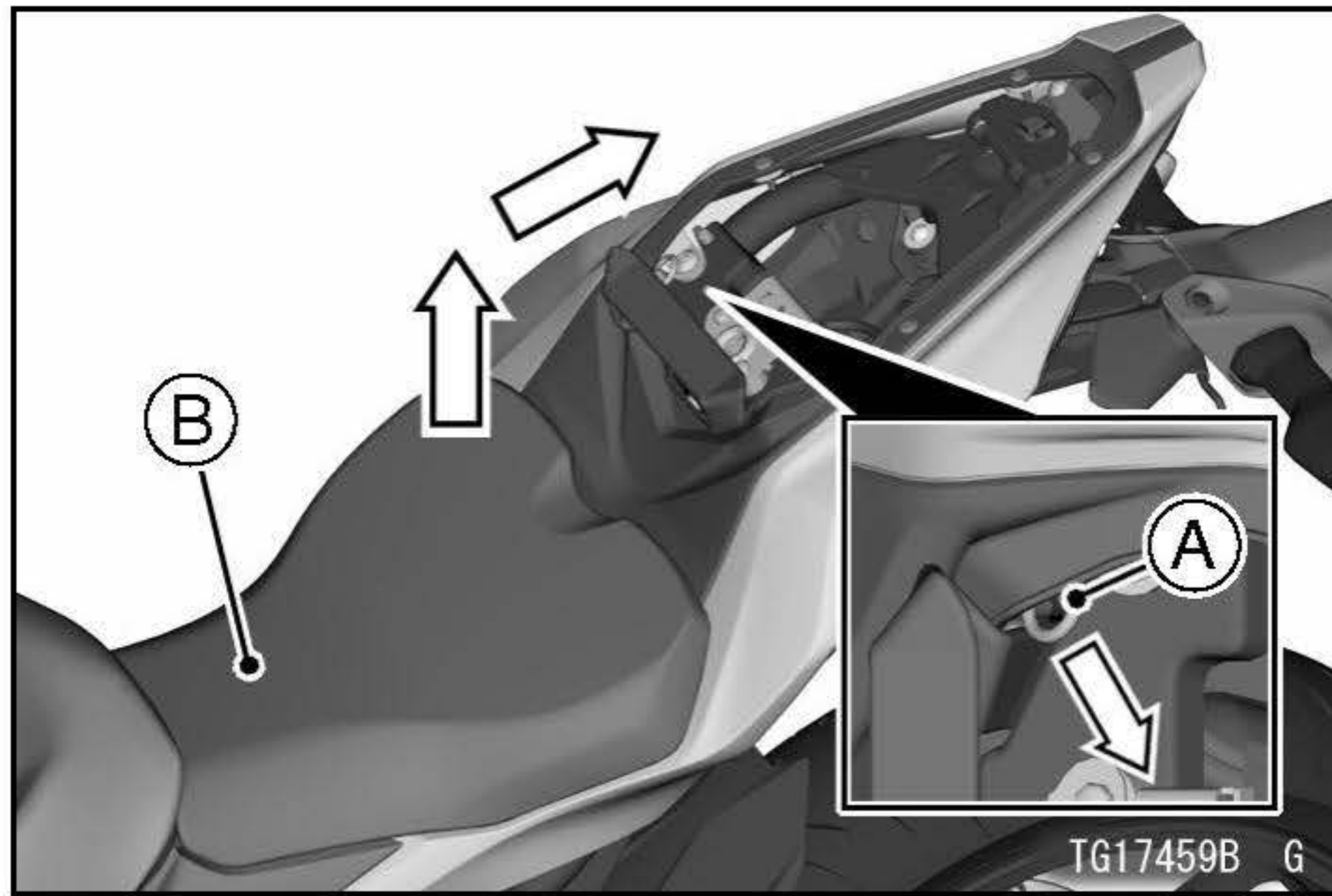
A. Hooks
B. Slots
C. Seat Lock Projection
D. Latch Hole

- Pull up the front and rear ends of the passenger's seat to make sure they are securely locked.

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Rider's Seat Removal

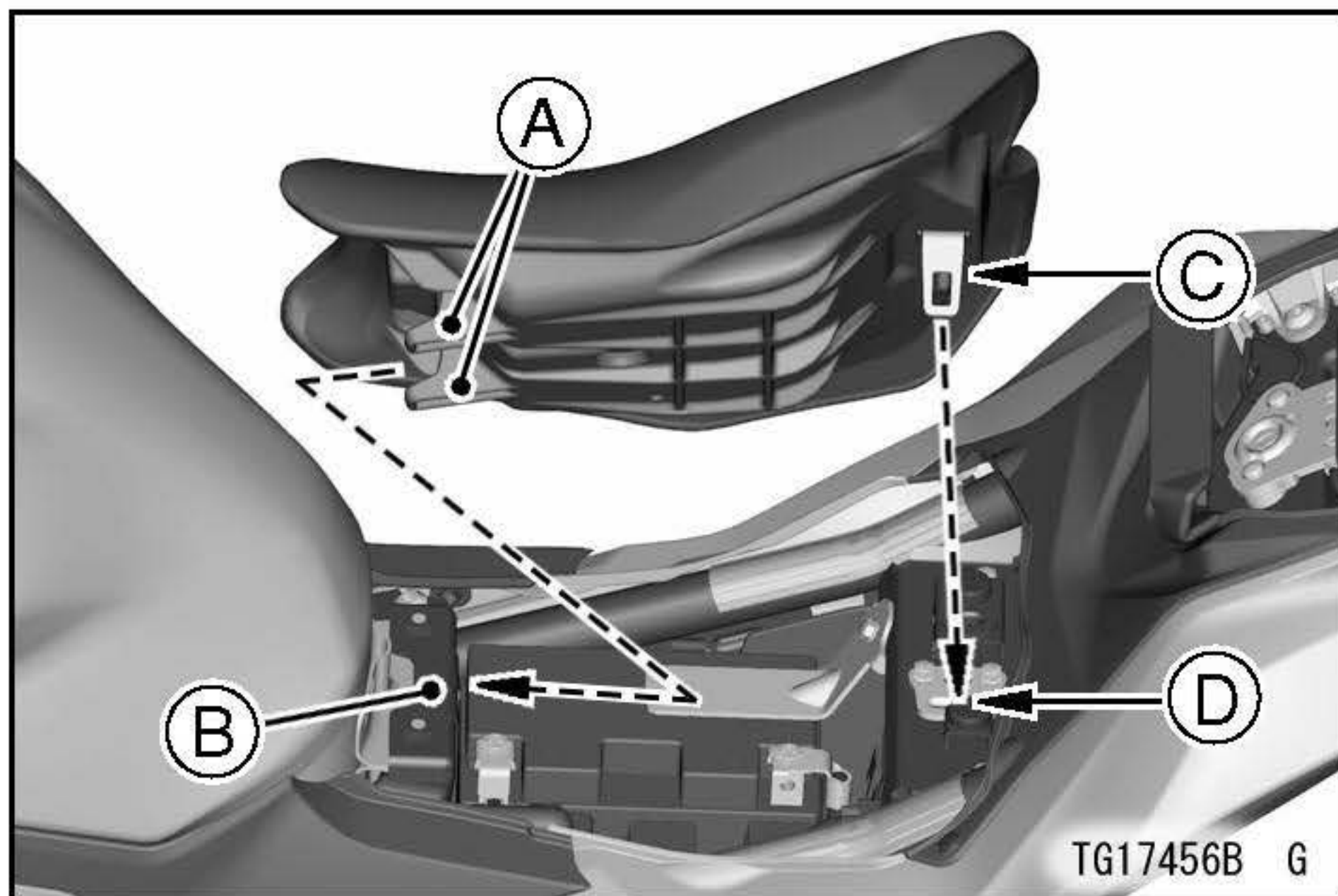
- Remove the passenger's seat (see Passenger's Seat Removal).
- Lift the rear part of the rider's seat upward while pulling the seat lock cable backward.
- Remove the rider's seat backward.



A. Seat Lock Cable
B. Rider's Seat

Rider's Seat Installation

- Insert the hooks at the front of the rider's seat under the fuel tank bracket.
- Insert the seat latch at the rear part of the rider's seat into the latch hole of the frame.
- Push down the rear part of the rider's seat until the lock clicks.

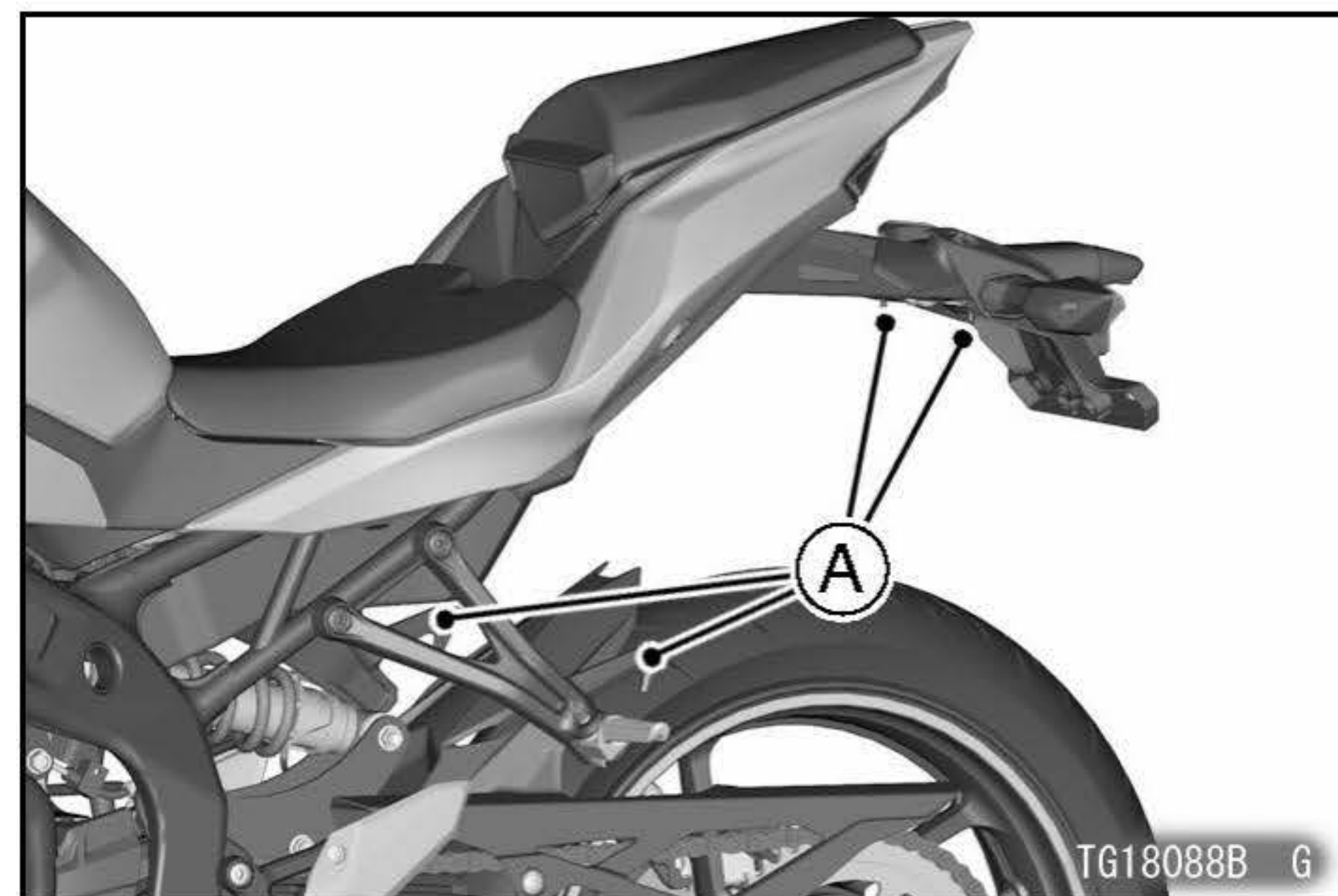


- A. Hooks**
- B. Fuel Tank Bracket**
- C. Seat Latch**
- D. Latch Hole**

- Pull up the front and rear ends of the rider's seat to make sure they are securely locked.
- Install the passenger's seat (see Passenger's Seat Installation).

Tie Hooks

When tying up light loads to the seat, use the tie hooks located in front of the rear turn signal lights and rear of the rear footpegs.



A. Tie Hooks

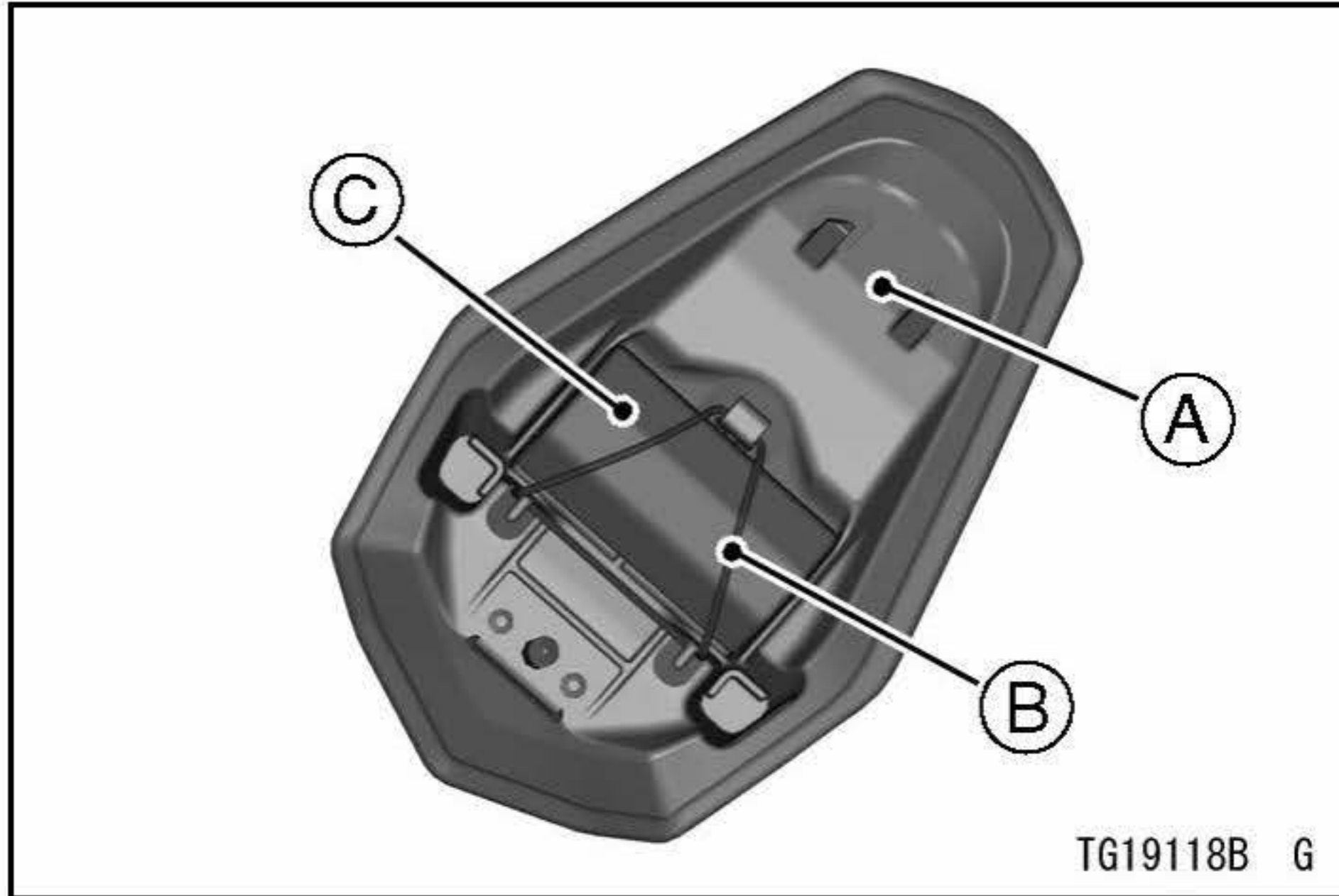
Tool Kit

The tool kit is installed at the back side of the passenger's seat or pillion seat cover.

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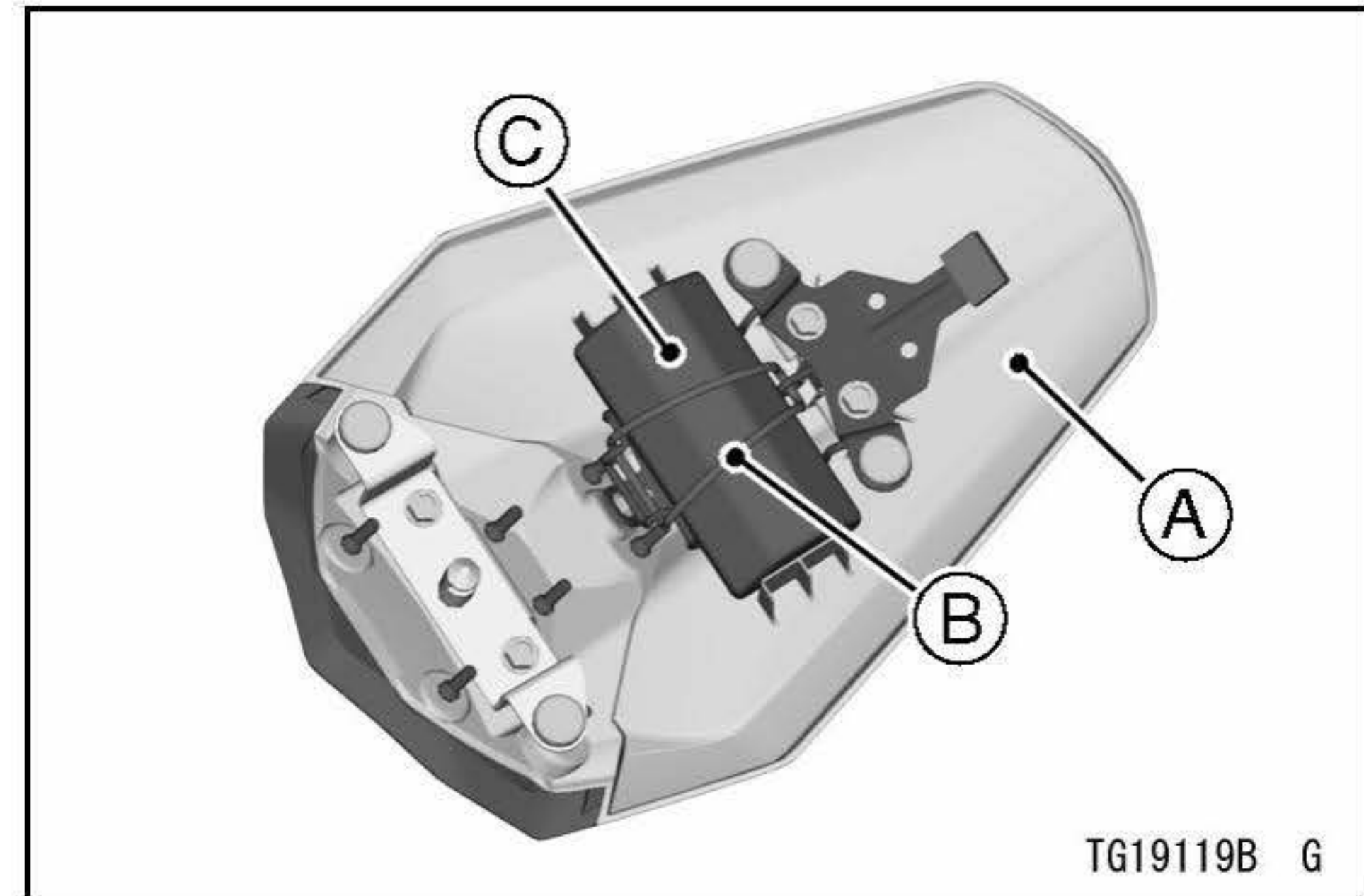
Keep the tool kit in the original place.
Hold the tool kit with the band and the holder securely.

Passenger's Seat



- A. Passenger's Seat
- B. Band
- C. Tool Kit

Pillion Seat Cover



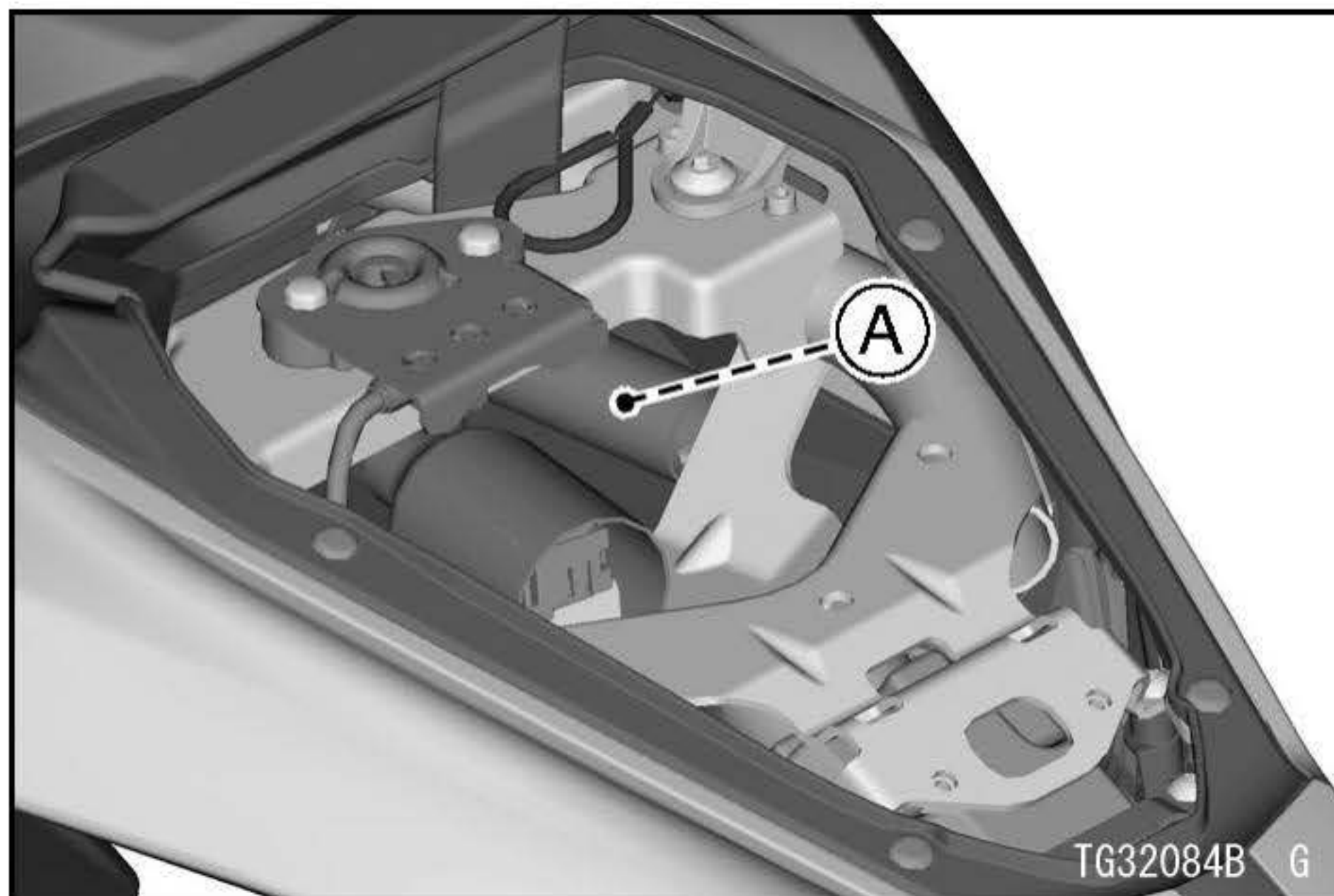
- A. Pillion Seat Cover
- B. Band
- C. Tool Kit

Electrical Accessory Connectors

The electric power of the battery can be used through the electrical accessory connector.

NOTE

- *Some models require a relay to use the electrical accessory connector.*
- *The electrical accessory connection to the connector should be done by an authorized Kawasaki dealer.*



A. For Genuine USB Socket (Under Rear Seat Lock Bracket)

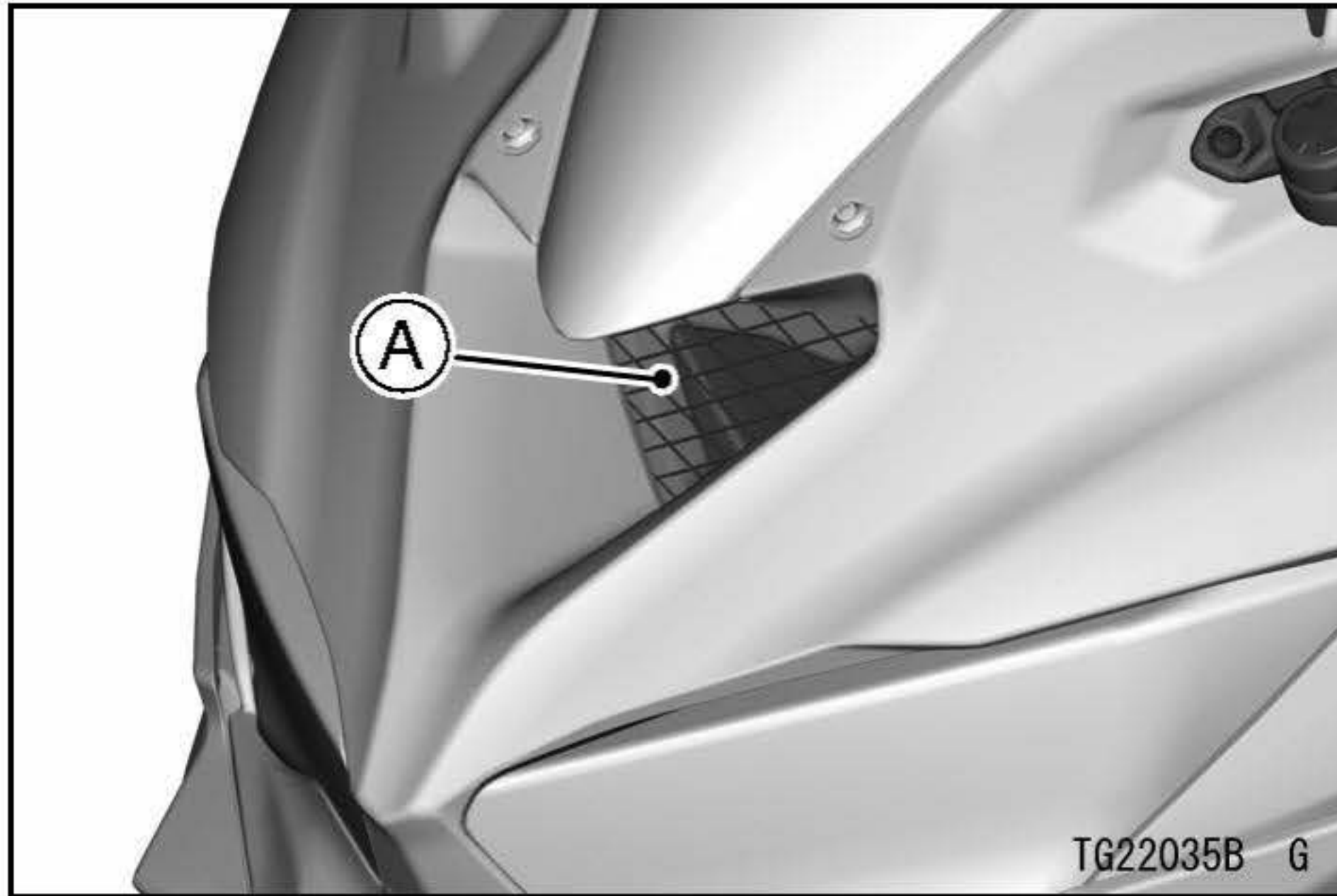
	Accessory Connector	Fuse Rating	Maximum Load
A	USB Socket	5 A	10.5 W

NOTICE

Do not install a fuse of a higher rating than that specified. Do not connect a load that exceeds the maximum load to this accessory circuit or the battery may become discharged, even with the engine running.

Air Cleaner Intake

The air cleaner intake allows air to enter the fuel system. Never allow anything to restrict the flow of air into the air cleaner. A restricted air cleaner will reduce performance and increase exhaust emissions.



A. Air Cleaner Intake

Event Data Recorder

In common with many other vehicle manufacturers, Kawasaki has equipped this motorcycle with an event data recorder (EDR). The purpose of this device is to record data that assists with understanding of how some of the vehicle's systems were performing during a short period of time immediately before and during an accident or

similar event involving minor damage. Due to accident variables, all vehicle performance data may not be stored on the EDR.

NOTE

- *During normal riding, data is recorded but not saved unless the vehicle is involved in an accident event.*
- *At no time other than in the event of an accident or similar event involving minor damage is it possible for EDR data to be stored for retrieval.*
- *Depending on the type of accident event, it is possible that the EDR may not record some or all of the data, or it may not record if the EDR is damaged.*
- *This device does not collect or store personal data or information (e.g. name, gender, age).*

The EDR in this vehicle is designed to record only data that is relevant to the vehicle's running condition at the time of an accident like, but not limited to, vehicle speed, engine crankshaft rotational speed and throttle opening, etc.

This data can help provide a better understanding for both the rider and the manufacturer of how the vehicle was

performing at the time of an accident or near accident-like situation.

To access information on an EDR, special equipment and access to the EDR is required. Kawasaki will not share EDR information without obtaining your consent, unless required by government authorities, or acting pursuant to lawful authority.

HOW TO RIDE THE MOTORCYCLE

Break-In

The first 1 000 km (600 miles) of use is the break-in period.

Follow the recommendations below to maintain the vehicle's performance and longevity.

Travelled distance	Maximum engine revolutions
0 ~ 200 km (0 ~ 150 miles)	6 000 r/min (rpm)
200 ~ 350 km (150 ~ 250 miles)	8 000 r/min (rpm)
350 ~ 1 000 km (250 ~ 600 miles)	Ride moderately

NOTE

- *You can ride above the maximum engine revolution stated in the break-in table briefly if necessary. Brief periods above the listed engine revolutions will not affect break-in results.*
- *When travelling on public roads, obey the speed limits.*
- *Do not race the engine while the transmission is in neutral.*

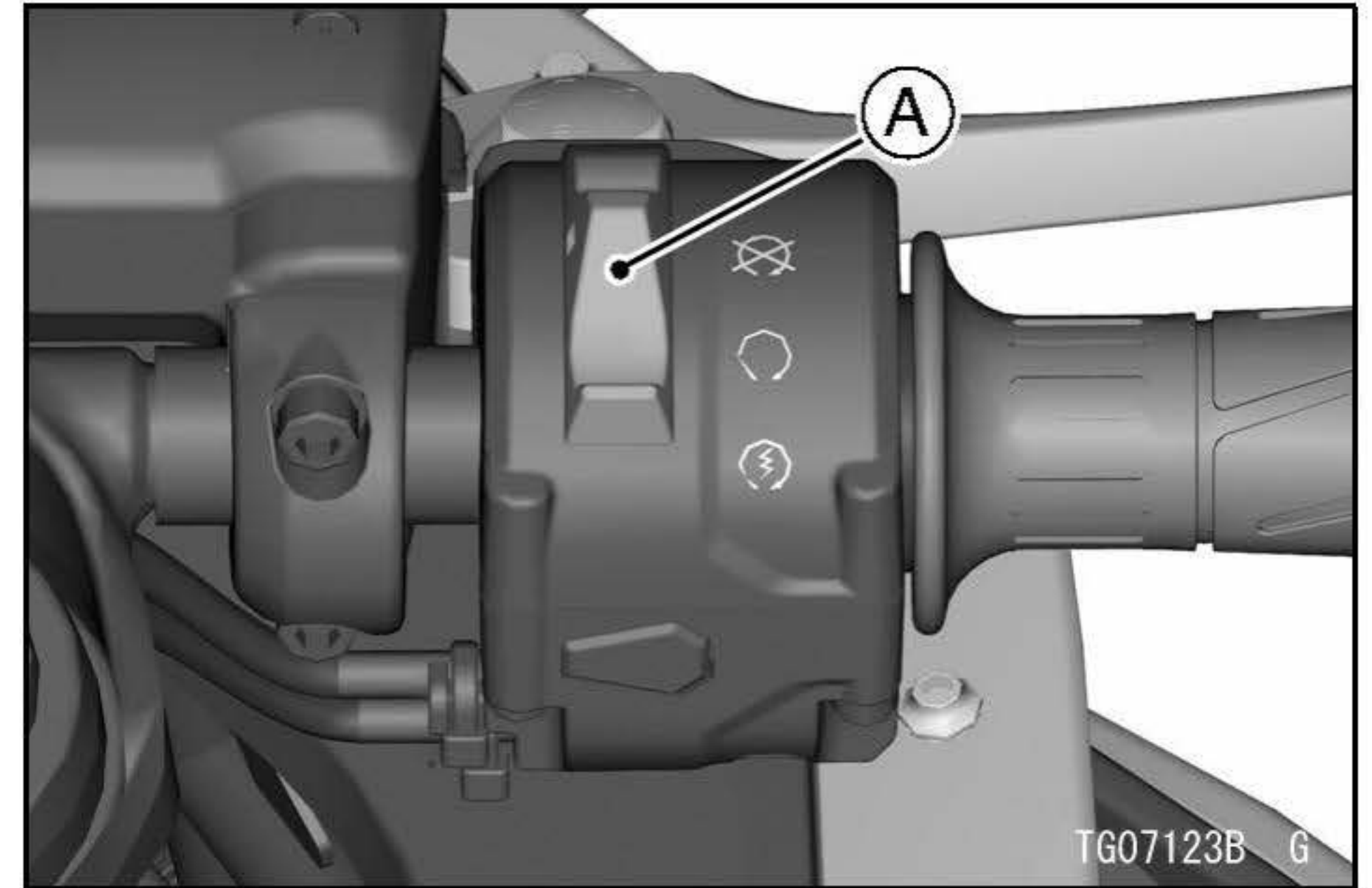
⚠ **WARNING**

New tires are slippery and may cause loss of control and injury. A break-in period of 160 km (100 miles) is necessary to establish normal tire traction. During break-in, avoid sudden and maximum braking and acceleration, and hard cornering.

In addition to the above, at 1 000 km (600 mile) it is extremely important that the owner has the initial maintenance service performed by an authorized Kawasaki dealer.

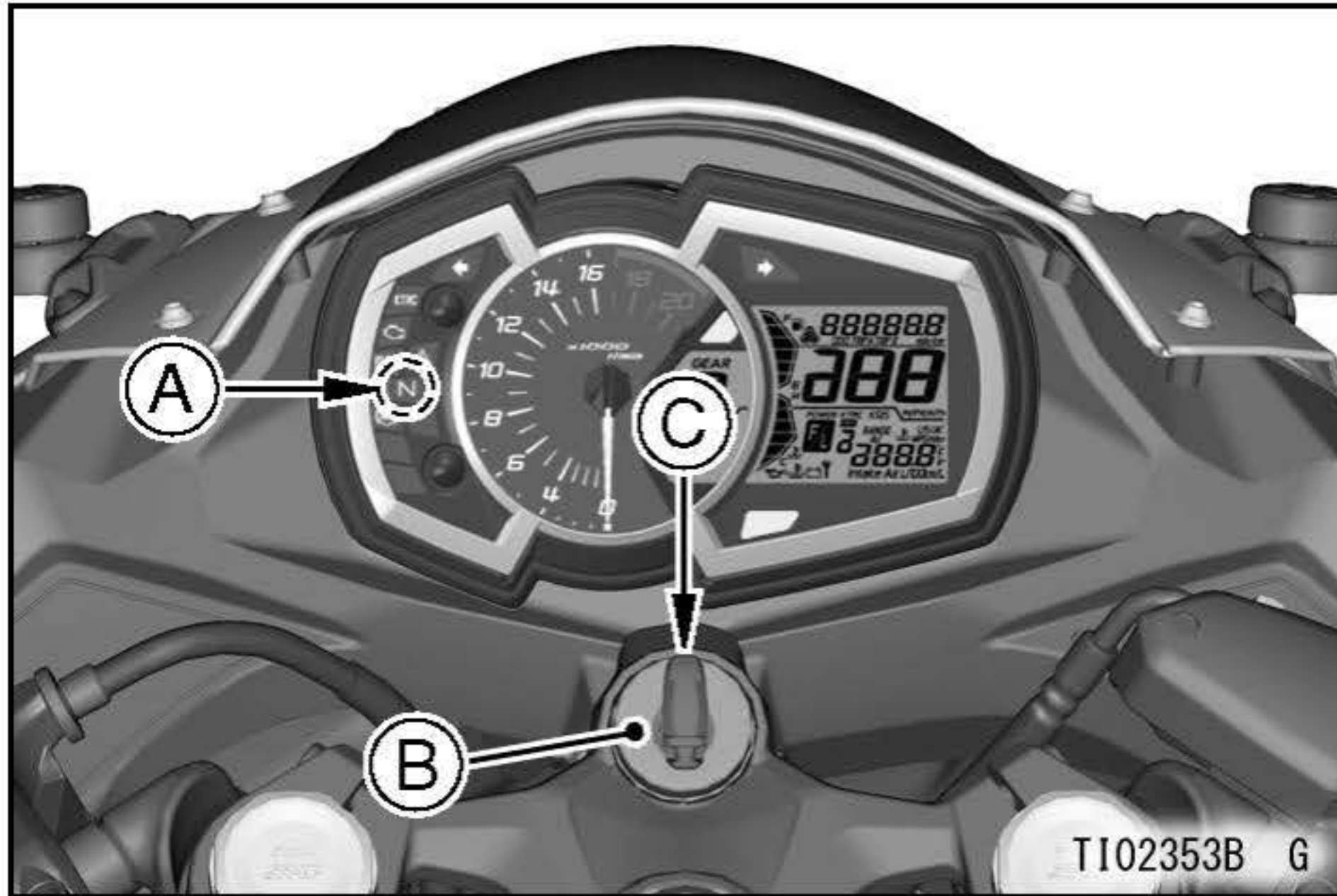
Starting the Engine

- Check that the engine start/stop switch is in the  position.



A. Engine Start/Stop Switch

- Turn the ignition key to the  position.
- Make sure the transmission is in neutral.



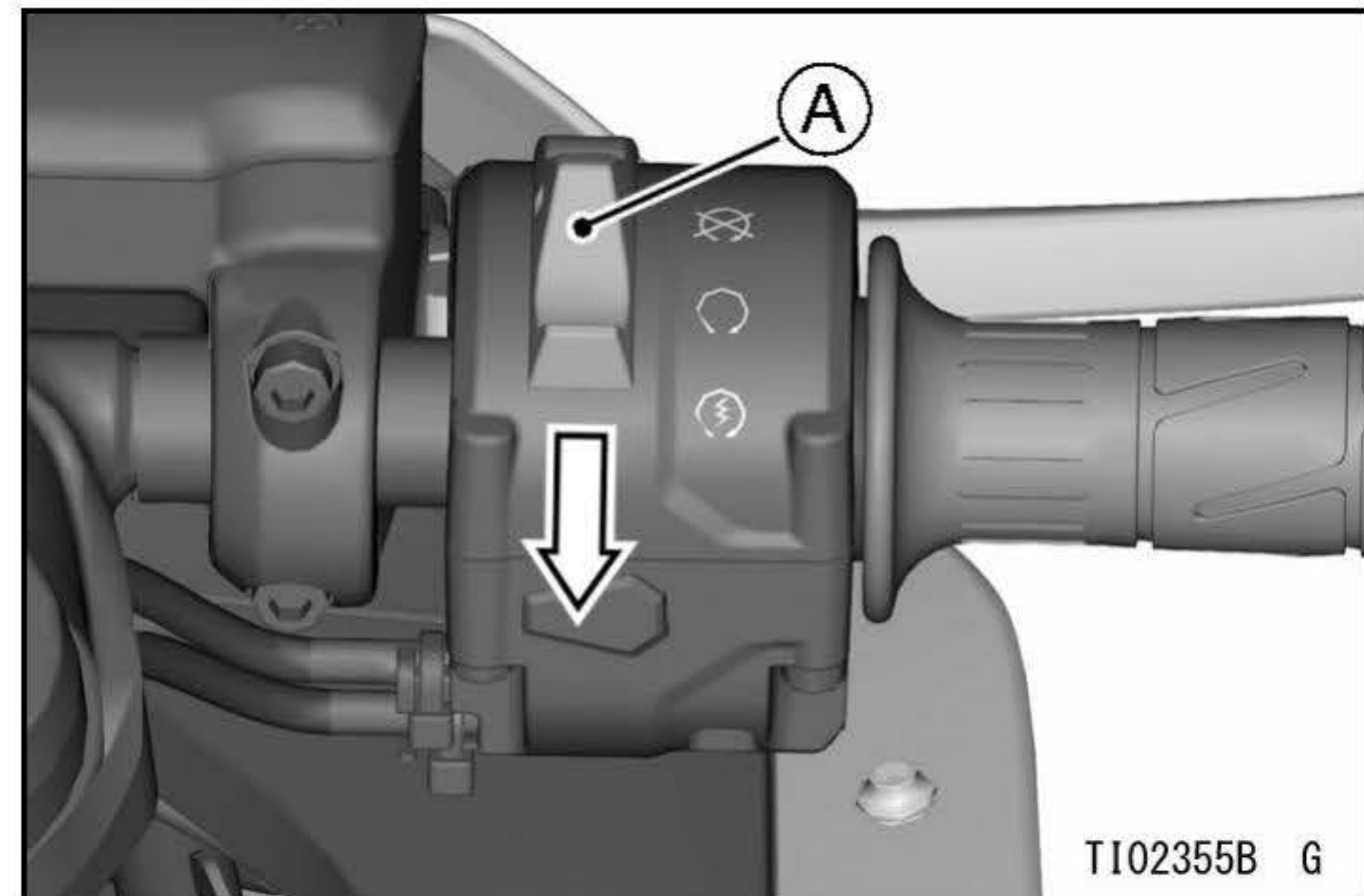
- A. Neutral Indicator (Green)
- B. Ignition Switch
- C.  Position

NOTE

- While the engine is cold, the fast idle system automatically raises the engine idling speed. At this time, the engine warning indicator () may go on if you operate the throttle grip unnecessarily.
- The motorcycle is equipped with a vehicle-down sensor which causes

the engine to stop automatically if the motorcycle falls down. After righting the motorcycle, first turn the ignition key to the  and then back to the  before starting the engine.

- Without holding the throttle grip, slide the engine start/stop switch to the  position to start the engine after meter initial operation is finished.



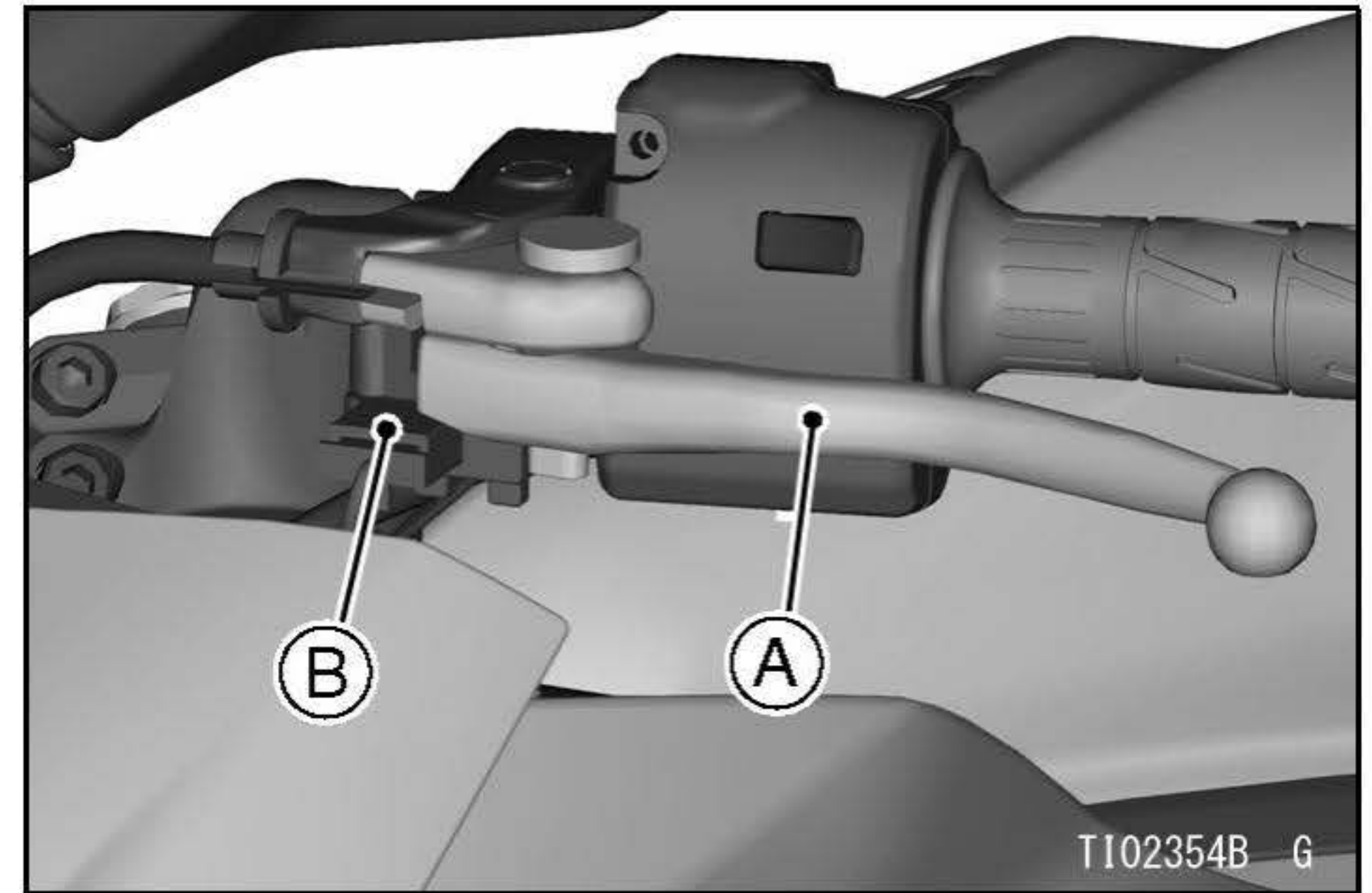
A. Engine Start/Stop Switch

NOTICE

Do not operate the starter continuously for more than 5 seconds, or the starter will overheat and the battery power will drop temporarily. Wait 15 seconds between each operation of the starter to let it cool and the battery power recover.

NOTE

- *The motorcycle is equipped with a starter lockout switch. This switch is designed so that the engine does not start if the transmission is in gear and the side stand is down. However, the engine can be started if the clutch lever is pulled and the side stand is fully up.*



A. Clutch Lever
B. Starter Lockout Switch

NOTICE

Do not let the engine idle longer than 5 minutes, or engine overheating and damage may occur.

Moving Off

- Check that the side stand is up.

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- Pull in the clutch lever.
- Shift into 1st gear.
- Open the throttle a little, and start to let out the clutch lever very slowly.
- As the clutch starts to engage, open the throttle a little more, giving the engine just enough fuel to keep it from stalling.

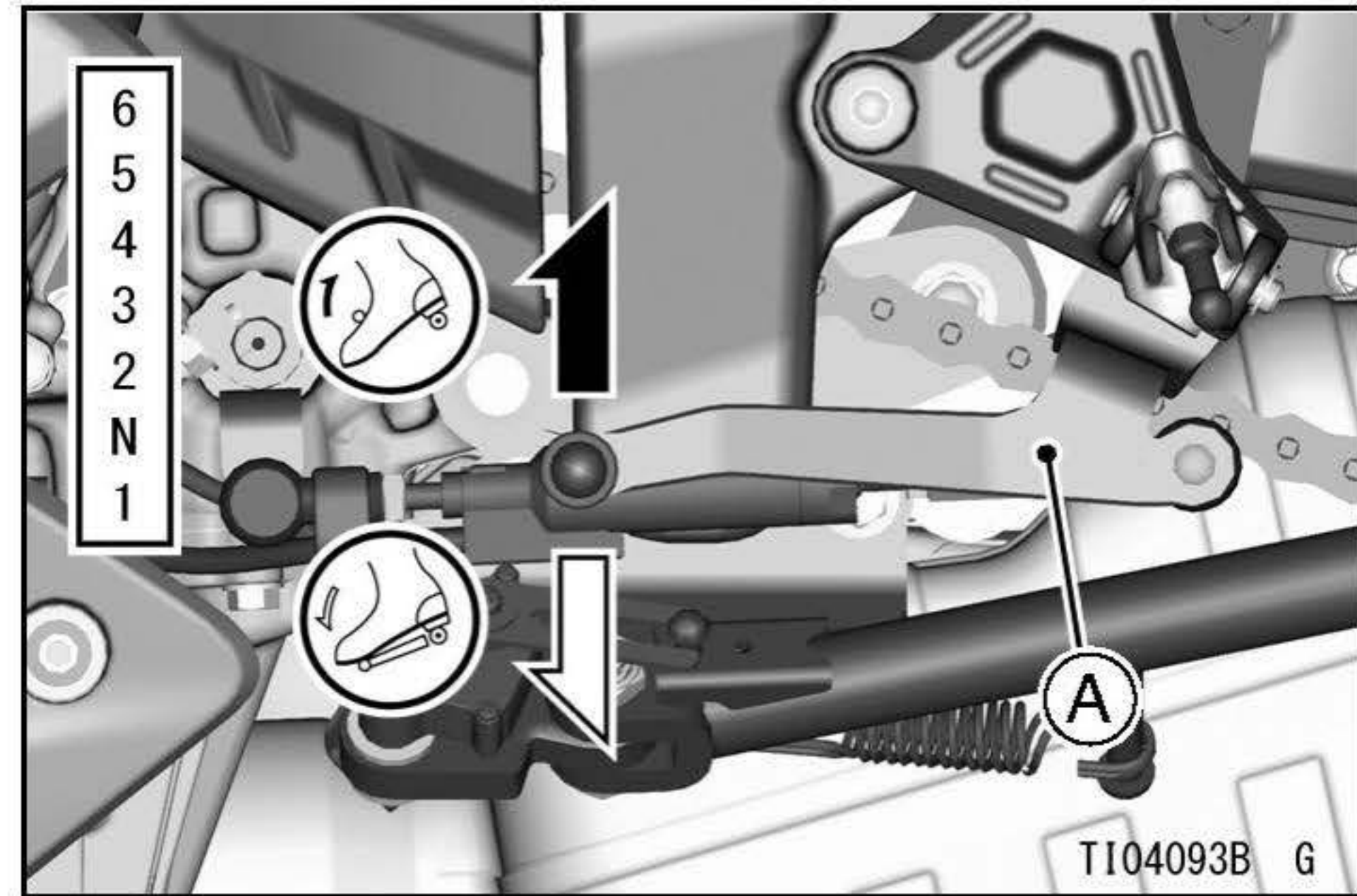
NOTE

- *Warm up the engine thoroughly before the riding or revving the engine.*
- *The motorcycle is equipped with a side stand switch. This switch is designed so that the engine does not start if the transmission is in gear and the side stand is down.*

Shifting Gears

- Close the throttle while pulling in the clutch lever.

- Shift into the next higher or lower gear.



A. Shift Pedal

- Open the throttle part way, while releasing the clutch lever.

WARNING

Downshifting to a lower gear at high speed causes engine rpm to increase excessively, potentially damaging the engine and it may also cause the rear wheel to skid and cause an accident. Downshifting should be done below 5 000 rpm for each gear.

NOTE

- *The transmission is equipped with a positive neutral finder. When the motorcycle is standing still, the transmission cannot be shifted past neutral from 1st gear. To use the positive neutral finder, shift down to 1st gear, then lift up on the shift pedal while standing still. The transmission will shift only into neutral.*

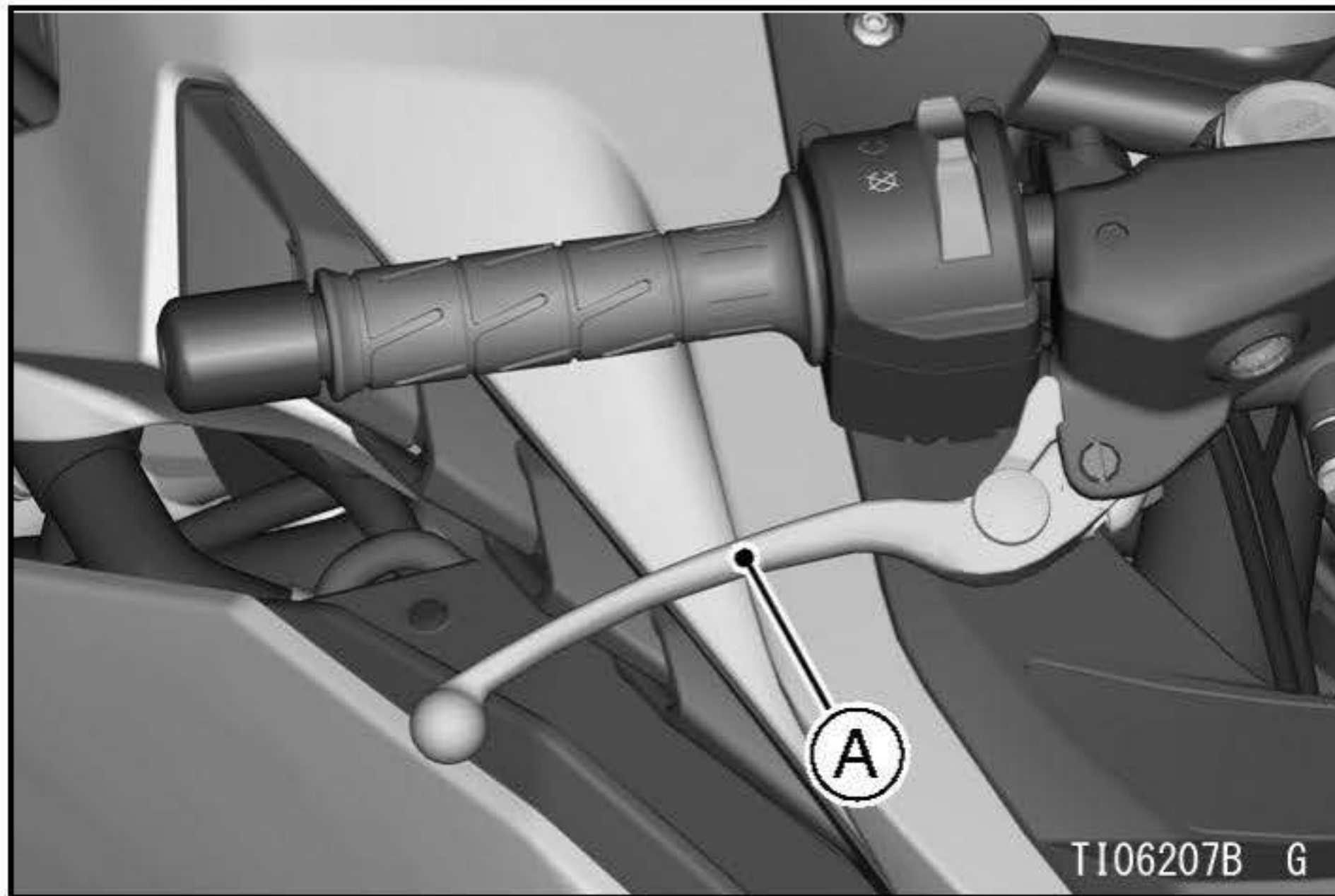
Braking

- Close the throttle completely, leaving the clutch engaged (except when shifting gears) so that the engine will help slow down the motorcycle.
- Shift down one gear at a time so that you are in 1st gear when you come to a complete stop.
- When stopping, always apply both brakes at the same time. Normally the front brake should be applied a little more than the rear. Shift down or fully disengage the clutch as necessary to keep the engine from stalling.
- Never lock the brakes, or it will cause the tires to skid. When turning a corner, it is better not to brake at all. Reduce your speed before you get into the corner.
- For emergency braking, disregard downshifting, and concentrate on

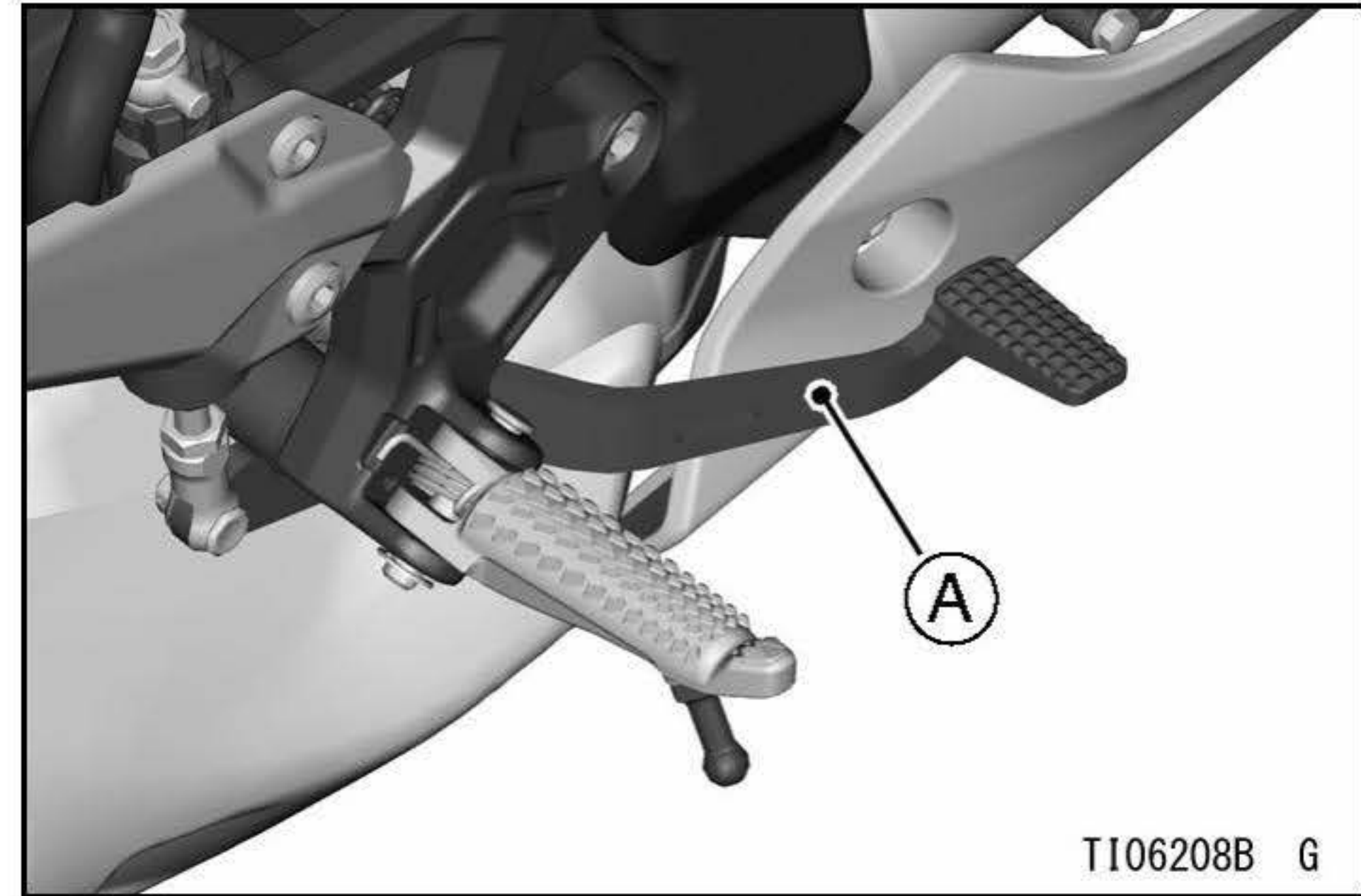
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applying the brakes as hard as possible without skidding.

- Even in motorcycles equipped with ABS, braking during cornering may cause wheel slip. When turning a corner, it is better to limit braking to the light application of both brakes or not to brake at all. Reduce your speed before you get into the corner.



A. Front Brake Lever



A. Rear Brake Pedal

Anti-lock Brake System (ABS)

(Only on ABS model)

ABS is designed to help prevent the wheels from locking up when the brakes are applied hard while running straight. The ABS automatically regulates brake force. Intermittently gaining gripping force and braking force helps

prevent wheel lock-up and allows stable steering control while stopping.

Brake control function is identical to that of a conventional motorcycle. The brake lever is used for the front brake and the brake pedal for the rear brake.

Although the ABS provides stability while stopping by preventing wheel lock-up, remember the following characteristics:

- To apply the brake effectively, use the front brake lever and rear brake pedal simultaneously in the same manner as conventional motorcycle brake system.
- ABS cannot compensate for adverse road conditions, misjudgment or improper application of brakes. You must take the same care as with motorcycles not equipped with ABS.
- ABS is not designed to shorten the braking distance. On loose, uneven

or downhill surfaces, the stopping distance of a motorcycle with ABS may be longer than that of an equivalent motorcycle without ABS. Use special caution in such areas.

- ABS will help prevent wheel lock-up when braking in a straight line, but it cannot control wheel slip which may be caused by braking during cornering. When turning a corner, it is better to limit braking to the light application of both brakes or not to brake at all. Reduce your speed before you get into the corner.
- Same as conventional brake system, an excessive sudden braking may cause wheel lock up that makes it harder to control a motorcycle.
- During braking, ABS will not prevent the rear wheel lifting.

 WARNING

ABS cannot protect the rider from all possible hazards and is not a substitute for safe riding practices. Be aware of how the ABS system operates and its limitations. It is the rider's responsibility to ride at appropriate speeds and manner for weather, road surface and traffic conditions.

- The computers integrated in the ABS compare vehicle speed with wheel speed. Since non-recommended tires can affect wheel speed, they may confuse the computers, which can extend braking distance.

 WARNING

Use of non-recommended tires may cause malfunctioning of ABS and can lead to extended braking distance. The rider could have an accident as a result. Always use recommended standard tires for this motorcycle.

NOTE

- *When the ABS is functioning, you may feel a pulsing in the brake lever or pedal. This is normal. You need not suspend applying brakes.*
- *ABS does not function at speeds of approx. 5 km/h (3 mph) or below.*
- *ABS does not function if the battery is discharged. When riding with an insufficiently charged battery, ABS may not function. Keep the battery in good condition according to*

the Battery Maintenance section in the MAINTENANCE AND ADJUSTMENT chapter.

Stopping the Engine

- Close the throttle completely.
- Shift the transmission into neutral.
- Turn the ignition key to the  position.
- Support the motorcycle on a firm, level surface with the side stand.
- Lock the steering.

Stopping the Motorcycle in an Emergency

Your Kawasaki Motorcycle has been designed and manufactured to provide you optimum safety and convenience. However, in order to fully benefit from Kawasaki's safety engineering

and craftsmanship, it is essential that you, the owner and operator, properly maintain your motorcycle and become thoroughly familiar with its operation. Improper maintenance can create a dangerous situation known as throttle failure. Two of the most common causes of throttle failure are:

1. An improperly serviced or clogged air cleaner may allow dirt and dust to enter the throttle body and stick the throttle open.
2. During removal of the air cleaner, dirt is allowed to enter and jam the fuel injection system.

In an emergency situation such as throttle failure, your vehicle may be stopped by applying the brakes and disengaging the clutch. Once this stopping procedure is initiated, the engine stop switch may be used to stop the engine. If the engine stop switch is

used, turn off the ignition switch after stopping the motorcycle.

Parking



WARNING

Operating or parking the vehicle near flammable materials can cause a fire, and can result in property damage or severe personal injury.

Do not idle or park your vehicle in an area where tall or dry vegetation, or other flammable materials could come into contact with the muffler or exhaust pipe.



WARNING

The engine and exhaust system get extremely hot during normal operation and can cause serious burns.

Never touch a hot engine, exhaust pipe, or muffler during operation or after stopping the engine.

- Shift the transmission into neutral and turn the ignition key to the  position.
- Support the motorcycle on a firm, level surface with the side stand.

NOTICE

Do not park on a soft or steeply inclined surface, or the motorcycle may fall over.

- If parking inside a garage or other structure, be sure it is well ventilated and the motorcycle is not close to any source of flame or sparks; this includes any appliance with a pilot light.



WARNING

Gasoline is extremely flammable and can be explosive under certain conditions, creating the potential for serious burns. Turn the ignition switch off. Do not smoke. Make sure the area is well ventilated and free from any source of flame or sparks; this includes any appliance with a pilot light.

- Lock the steering to help prevent theft.

Kawasaki TRaction Control (KTRC)

KTRC is an intelligent system that calculates the slip level of the rear wheel (wheelspin) during acceleration and controls the optimum slip ratio to suit the riding conditions. KTRC can contribute to a stable ride not only for sports riding but also when riding on a rough or slippery road surface.

KTRC is designed for use on public roads. KTRC cannot respond to every condition. Acceleration may be delayed under certain conditions.

! WARNING

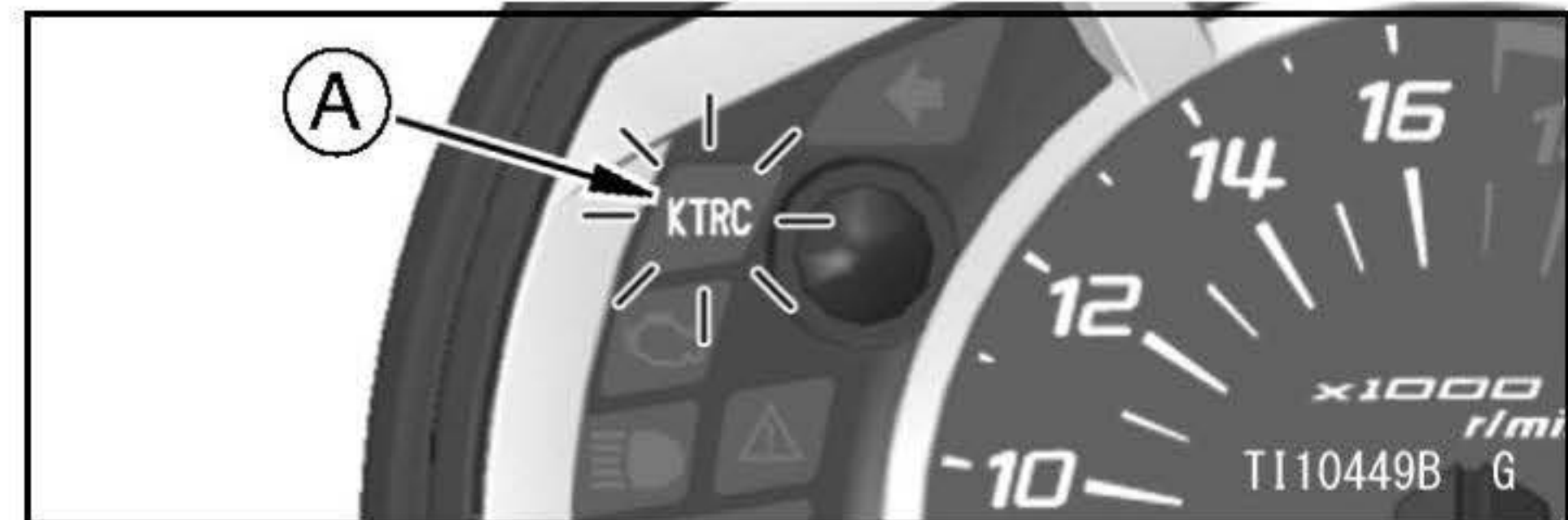
KTRC cannot protect the rider from all possible hazards and is not a substitute for safe riding practices. Be aware of how the KTRC system operates and its limitations. It is the rider's responsibility to ride at appropriate speeds and manner for weather, road surface and traffic conditions.

If a wheelie occurs due to excessive acceleration, KTRC will control the engine output to make the front wheel contact the road surface. In this case, slightly release the throttle grip so that the front wheel stays in contact with the road surface.

! WARNING

Use of non-recommended tires could cause a malfunction or improper operation of KTRC. Always use recommended standard tires for this motorcycle.

KTRC Indicator

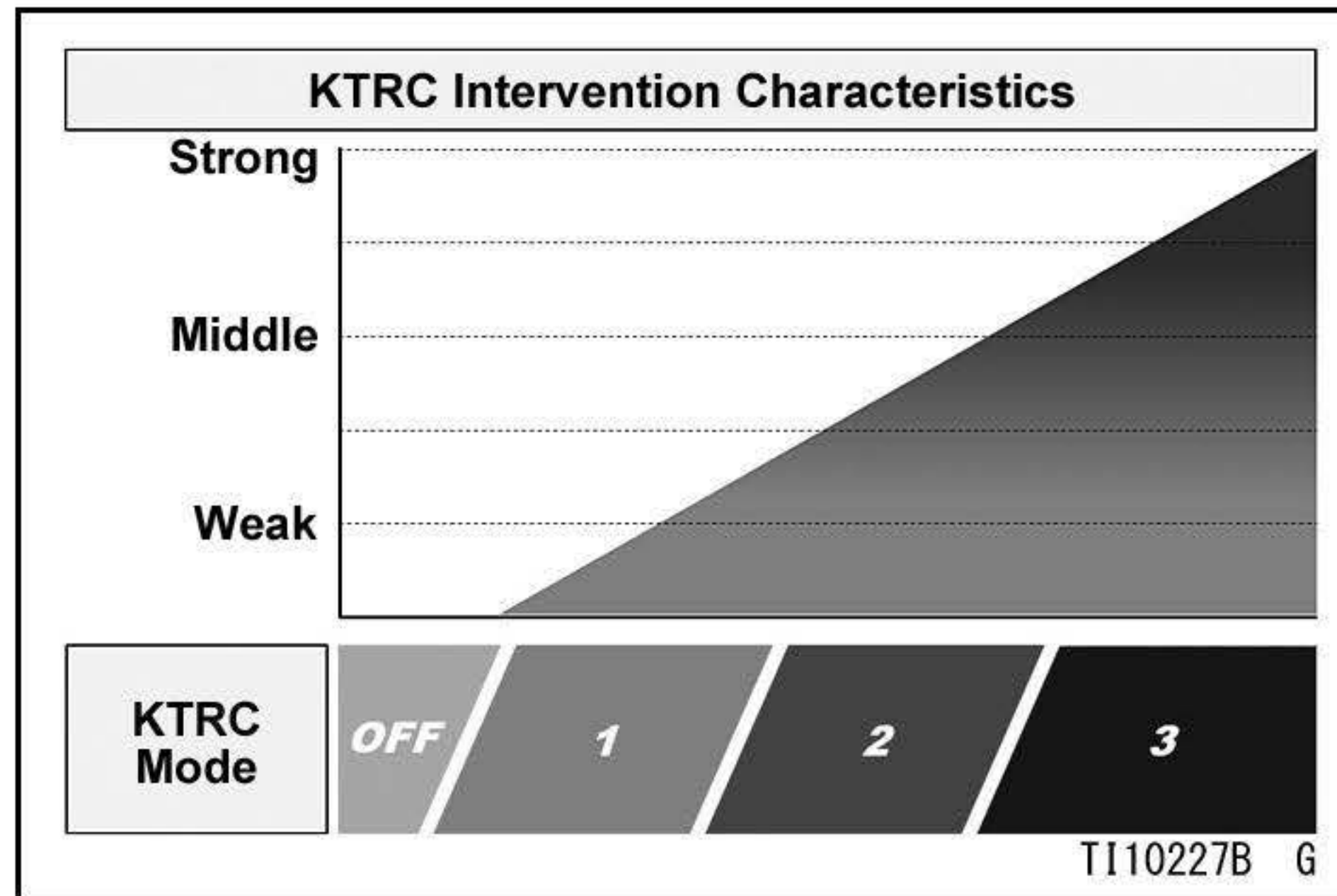


A. KTRC Indicator (Yellow)

KTRC indicator blinks while the system intervenes.

KTRC Modes

KTRC determines the traction control characteristics with three mode selections. KTRC can also be set to OFF.



Mode 1:

KTRC has the least intervenes among the three modes. This mode gives maximum acceleration for sport riding.

Mode 2:

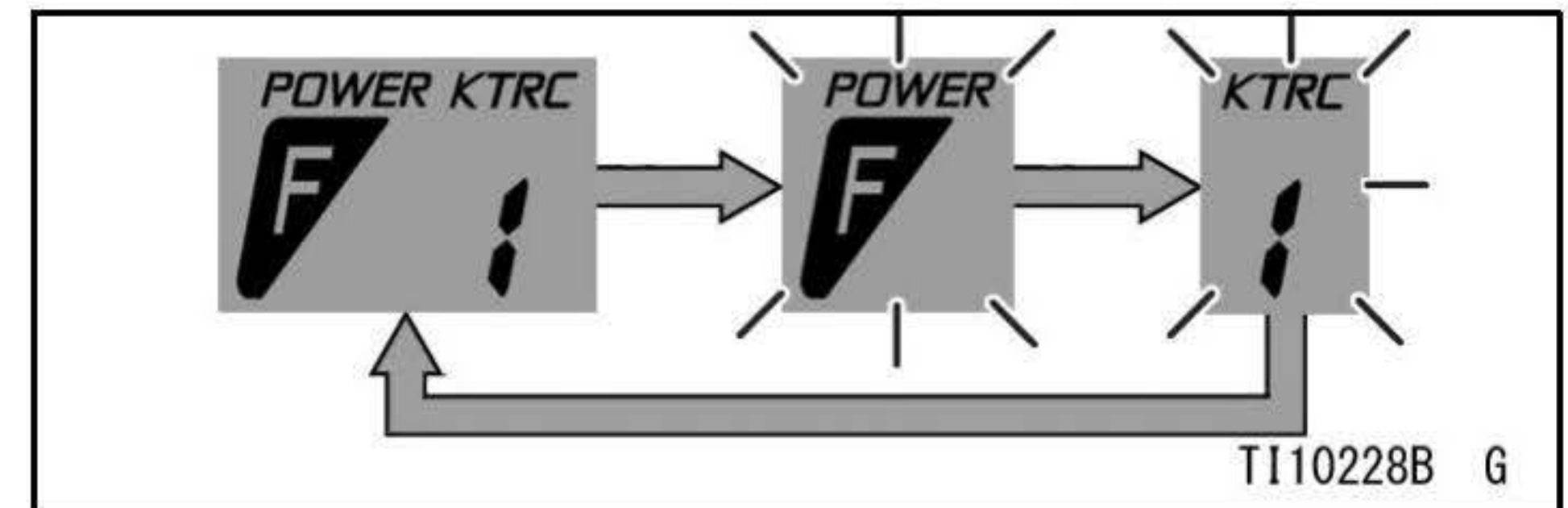
KTRC intervention is moderate about half way between the mode 1 and mode 3.

Mode 3:

KTRC intervenes early to help prevent the rear wheel from spinning whenever possible. This mode is used in low grip situations.

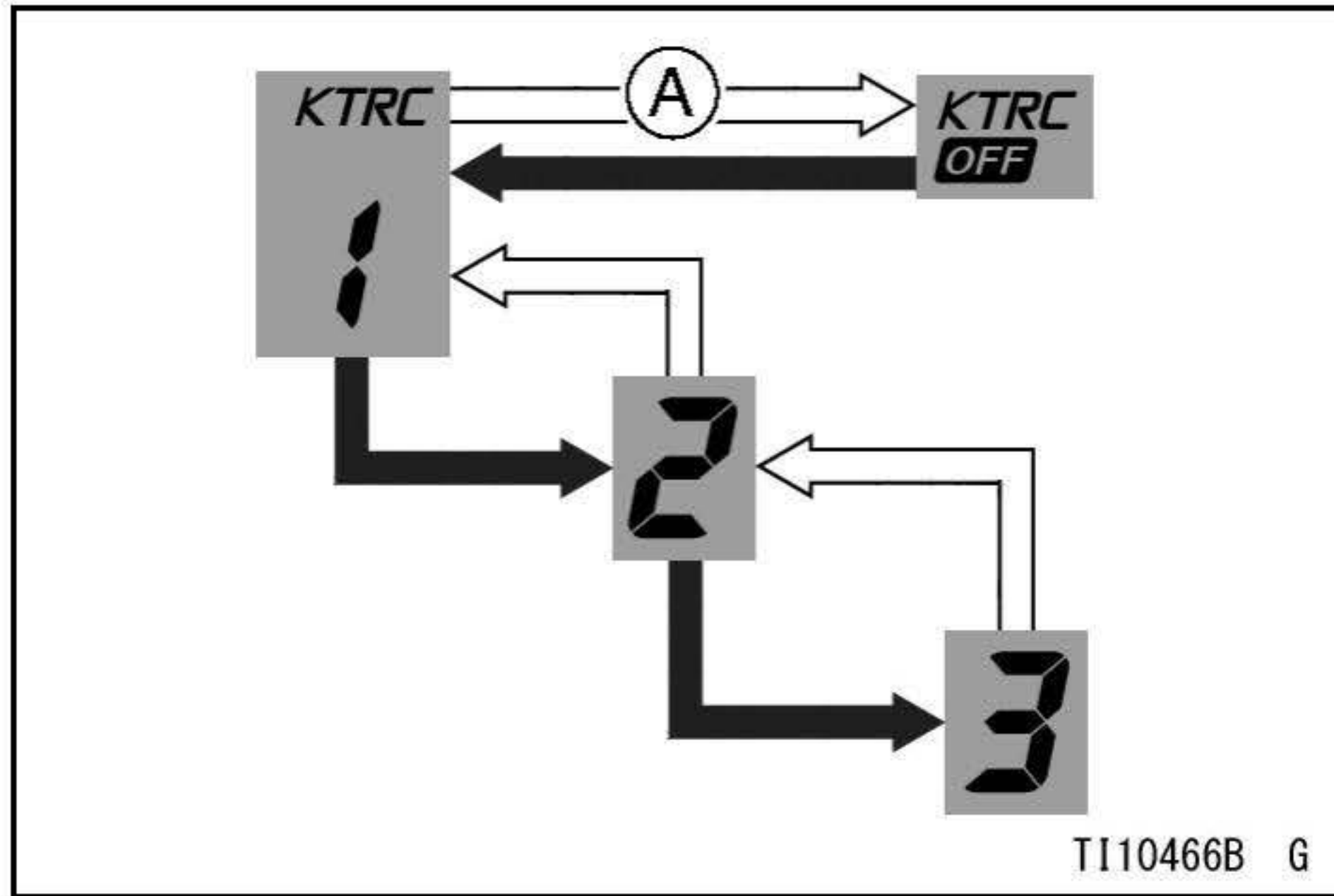
KTRC Mode Setting

- Close the throttle grip completely.
- Push the “SEL” button to select KTRC mode indicator.



➡ : Flow when pushing “SEL” button

- Push the upper button or lower button to select KTRC mode. KTRC OFF can be selected only when the motorcycle is at a stop.



A. While stopping

- ➡ : Flow when pushing upper button
- ⇨ : Flow when pushing lower button

NOTE

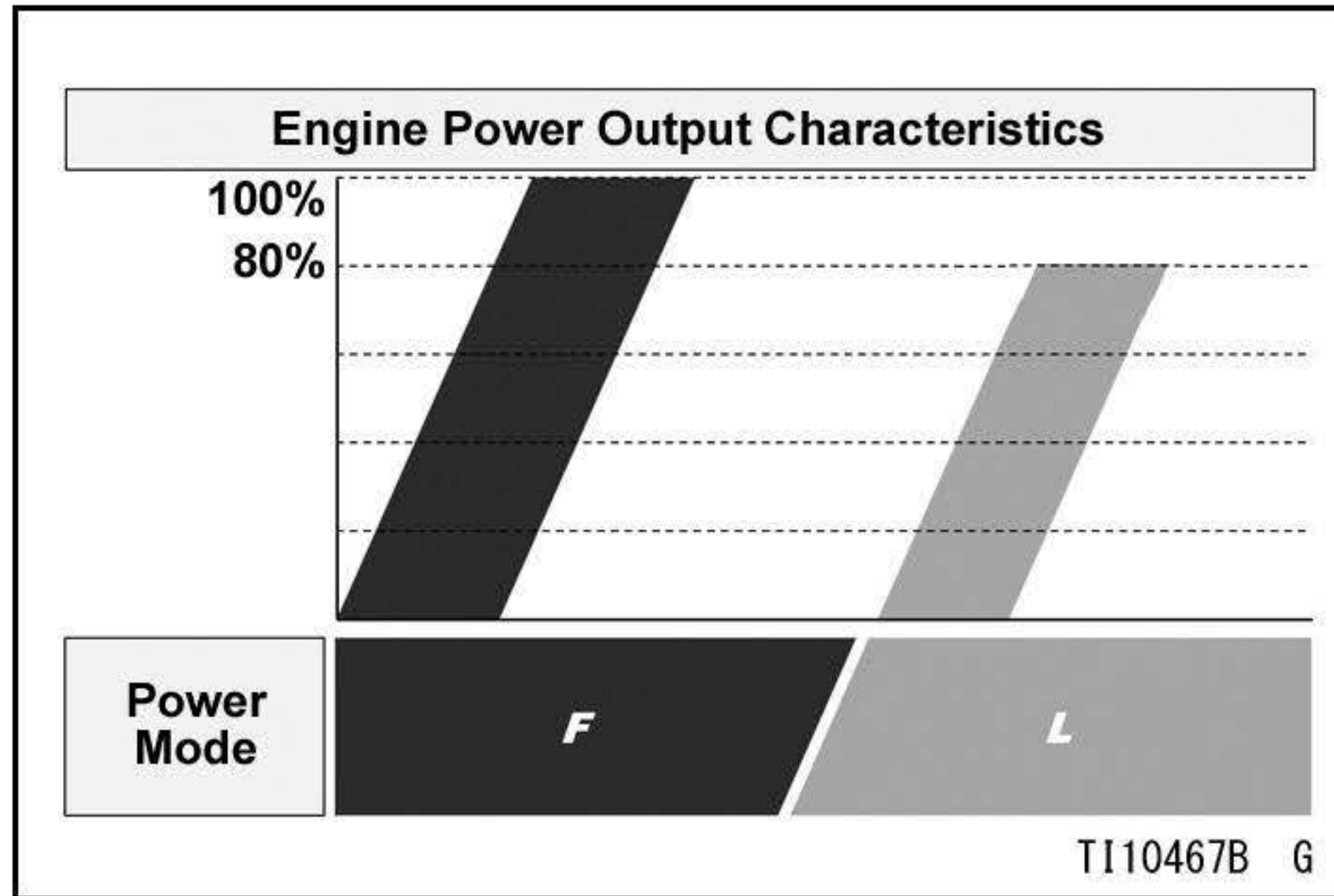
- When changing the mode, stop the motorcycle.
- When the throttle is opened while blinking KTRC mode indicator, the selected mode is fixed.

- Operate the throttle carefully while KTRC is OFF because wheelspin of the rear wheel cannot be controlled.
- In KTRC OFF, the mode automatically switched to mode 1, whenever the ignition switch is turned off.

KTRC and the power mode can be set separately. By combining each setting, the rider can get various riding feelings. For further details on the combined use of KTRC and the power mode, refer to KTRC and Power Mode Combination section.

Power Mode

The power mode determines the engine power output characteristics and has two settings.



Mode F (Full Power):

The highest engine power output is achieved. The rider can feel the full throttle response of the engine.

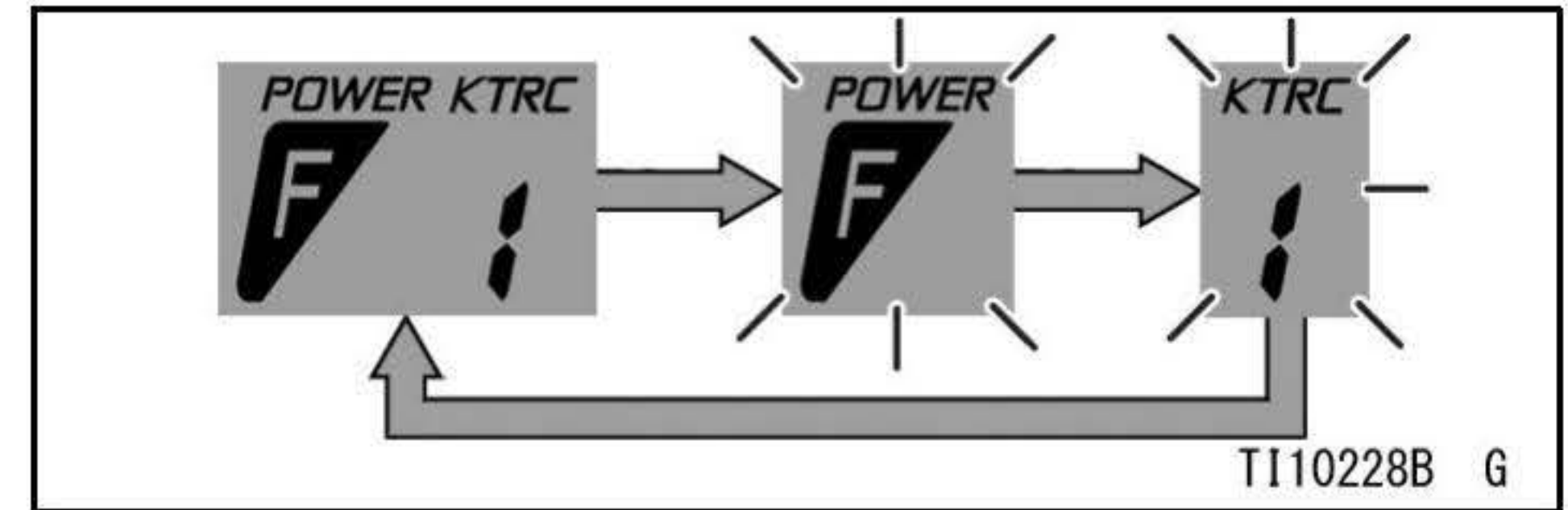
Mode L (Low Power):

About 80% of the highest engine power output is achieved. The throttle response is milder than F mode.

Power Mode Setting

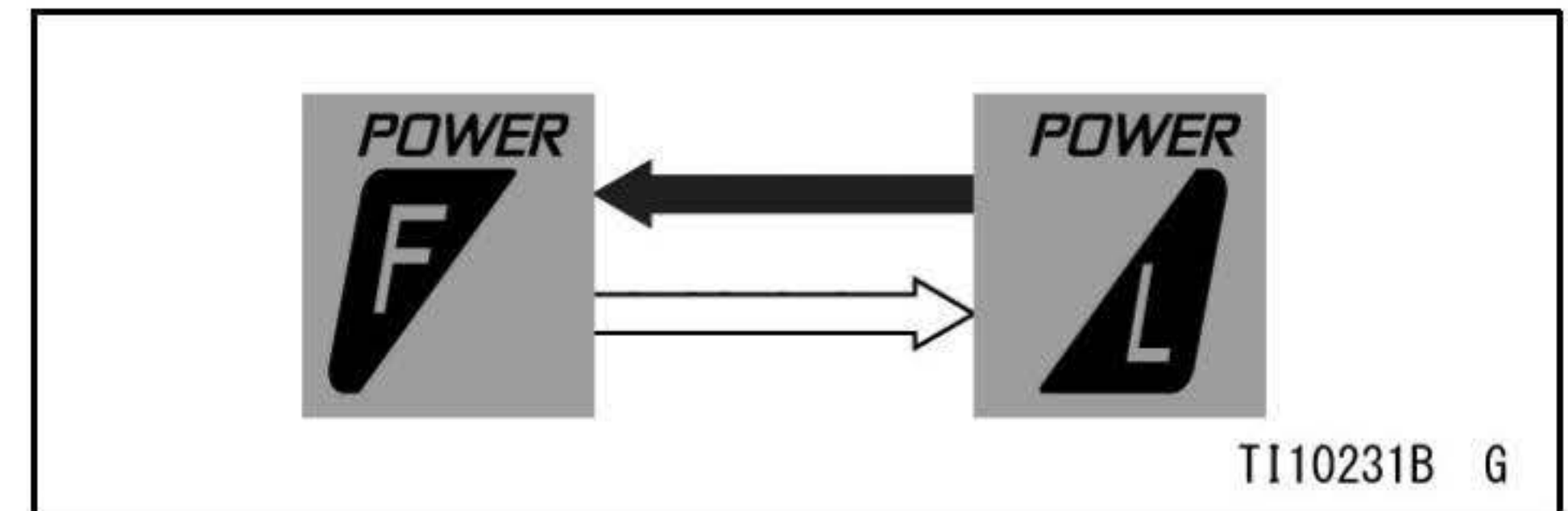
- Close the throttle grip completely.

- Push the "SEL" button to select the power mode indicator.



➡ : Flow when pushing "SEL" button

- Push the upper button or lower button to select the power mode.



➡ : Flow when pushing upper button

➡ : Flow when pushing lower button

NOTE

- *When changing the mode, stop the motorcycle.*
- *When the throttle is opened while blinking the power mode indicator, it the selected mode is fixed.*

KTRC and the power mode can be set separately. By combining each setting, the rider can get various riding feelings. For further details on the combined use of the power mode and KTRC, refer to KTRC and Power Mode Combination section.

KTRC and Power Mode Combination

By combining KTRC and the power mode, some combination settings are available to suit the various conditions. For example, on a slippery road surface, combining the power mode “L”

with KTRC mode “3” can reduce the rear wheelspin.

The combination of each mode should be decided according to driving skill and road conditions. Set the combination by referring to the following table.

Examples of mode combinations

	Sport	City	Wet / Slippery Road	
Power Mode	F		L	
KTRC Mode	OFF	1	2	3

TI10232B G

Kawasaki Quick Shift (KQS)

(Equipped Model)

KQS enables shifting gears up and down without operating the clutch lever. KQS is not designed for shifting automatically. Therefore, you must use the same shift pedal operation as with motorcycles not equipped with KQS.

NOTE

- *KQS system does not work while the clutch lever is being pulled.*
- *KQS system does not work properly below approximately 2 500 r/min (rpm).*
- *Following any up or down shift, the shift pedal must be fully released before another shift with KQS can be made.*

Upshifting

During acceleration, KQS system allows you to upshift without operating the clutch and letting off the throttle.

NOTE

- *The upshifting function of KQS system does not work when the throttle is closed.*

Downshifting

During deceleration, KQS system allows you to downshift without operation the clutch.

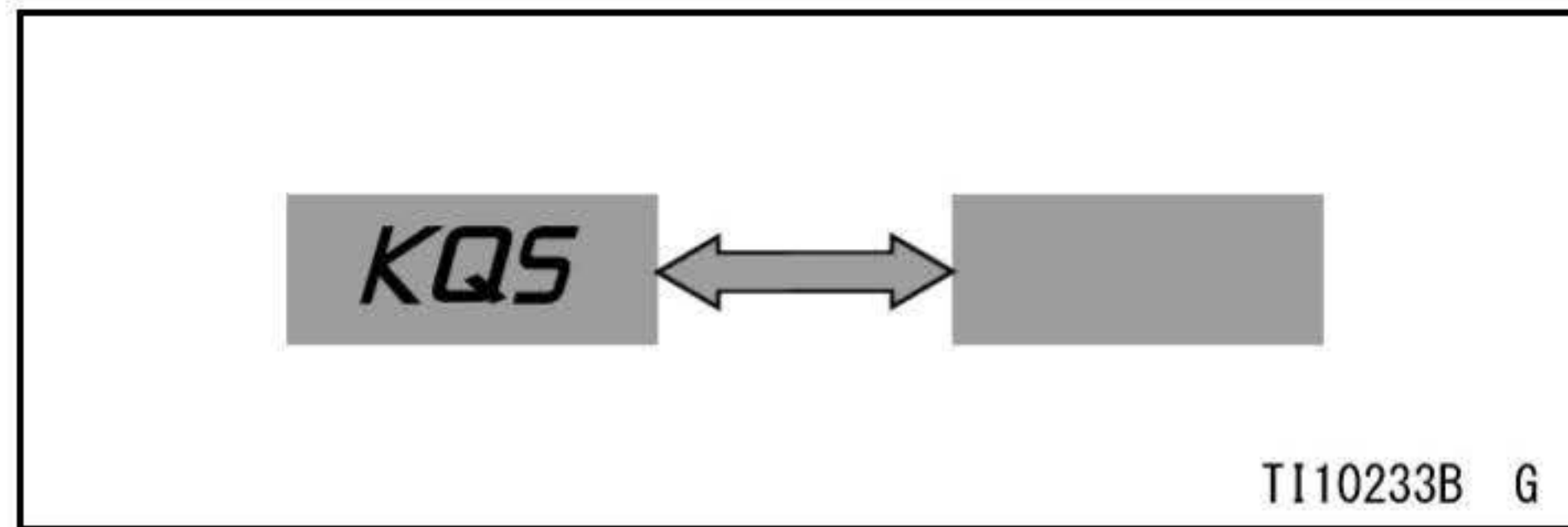
NOTE

- *The downshifting function of KQS system works only when the throttle is closed.*
- *The downshifting function of KQS system does not work when the engine speed is high (near the red zone on the tachometer).*

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KQS Setting

- Close the throttle grip completely.
- Push the “SEL” button and hold it 2 seconds or more. KQS mode shifts when releasing the “SEL” button.



➡ : Flow when pushing “SEL” button

NOTE

- *When changing the mode, stop the motorcycle.*

MAINTENANCE AND ADJUSTMENT

The maintenance and adjustments outlined in this chapter must be carried out in accordance with the Daily Checks and Periodic Maintenance to keep the motorcycle in good running condition and to reduce air pollution. **The initial maintenance is vitally important and must not be neglected.**



WARNING

Failure to perform these checks or to correct a problem before operation may result in serious damage or an accident. Always perform daily checks before operation.

Although items other than daily maintenance are described, this maintenance and repair work should be done by qualified technicians. Kawasaki does not recommend doing this work without knowledge and proper tools. Please note that Kawasaki cannot assume any responsibility for damage resulting from incorrect or improper adjustment made by the owner.

 DANGER

Exhaust gas contains carbon monoxide, a colorless, odorless poisonous gas. Inhaling carbon monoxide can cause serious brain injury or death. DO NOT run the engine in enclosed areas. Operate only in a well-ventilated area.

NOTE

- *If a torque wrench is not available, the maintenance items which require a specific torque value should be serviced by an authorized Kawasaki dealer.*

Daily Checks

Check the following items each day before you ride. The time required is minimal, and habitual performance of these checks will help ensure you a safe, reliable ride.

If any irregularities are found during these checks, contact an authorized Kawasaki dealer. Temporary measures methods are described on each page.

Operation	See Page
Fuel Adequate supply in tank, no leaks	—
Engine Oil Oil level between level lines	119
Tires Air pressure (when cold), install the air valve cap Tire wear	140 140
Drive Chain Slack: every 1 000 km (600 mile) Lubricate: every 600 km (400 mile)	128 128

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Operation	See Page
Bolt, nuts and fasteners Check for loose and/or missing bolts, nuts and fasteners	—
Steering Action smooth but not loose from lock to lock No binding of control cables	— —
Brakes Brake pad wear Brake fluid level No brake fluid leakage	134 133 —
Throttle Throttle grip operates smoothly	125
Clutch Clutch lever play Clutch lever operates smoothly	126 —

Operation	See Page
Coolant No coolant leakage Coolant level between level lines (when engine is cold)	— 122
Electrical equipment All lights (head, city, brake/tail, turn signal, license plate, warning/indicator), meter and horn work	—
Engine stop switch Stops engine	—
Side stand Return to its fully up position by spring tension Return spring not weak or not damaged	— —
Rear view mirrors Rear view sight	—

Periodic Maintenance

- *A: Service at number of years shown or indicated odometer reading intervals, whichever comes first.
- *B: For higher odometer readings, repeat at the frequency interval established here.
- *C: Service more frequently when operating in severe conditions: dusty, wet, muddy, high speed, or frequent starting/stopping.
- *D: Thailand and Philippines models only

 Q: Dealer Inspection

 Dealer Change or Replace

 Dealer Lubrication

Items	year (*A)	Odometer Reading (*B) × 1 000 km (× 1 000 mile)					See Page
		1 (0.6)	6 (3.8)	12 (7.6)	18 (11.4)	24 (15.2)	
Air cleaner element (*C)							124
Idle speed		Q		Q		Q	126
Throttle control system (smooth return)	Q:1	Q		Q		Q	125
Engine vacuum synchronization				Q		Q	—
Fuel system	Q:1	Q		Q		Q	—
Fuel filter							—
Fuel hose	 :5						—
Evaporative emission control system (*D)		Q	Q	Q	Q	Q	—
Cooling system	Q:1	Q		Q		Q	—

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Items	year (*A)	Odometer Reading (*B) × 1 000 km (× 1 000 mile)					See Page
		1 (0.6)	6 (3.8)	12 (7.6)	18 (11.4)	24 (15.2)	
Coolant, water hose and O-ring	↻:3	↻: every 36 000 km (22 500 mile)					—
Valve clearance				Q		Q	—
Air suction system				Q		Q	—
Clutch operation (play, engagement, disengagement)		Q		Q		Q	126
Engine oil (*C) and oil filter	↻:1	↻		↻		↻	120
Wheel bearing damage	Q:1			Q		Q	—
Drive chain wear (*C)				Q		Q	—
Drive chain guide wear				Q		Q	—
Brake system	Q:1	Q		Q		Q	—

Items	year (*A)	Odometer Reading (*B) × 1 000 km (× 1 000 mile)					See Page
		1 (0.6)	6 (3.8)	12 (7.6)	18 (11.4)	24 (15.2)	
Brake operation (effectiveness, play, no drag)	Q:1	Q		Q		Q	—
Brake fluid (front and rear)	↻:2					↻	—
Brake hose	↻:4						—
Rubber parts of brake master cylinder and caliper	↻:4	↻: every 48 000 km (30 000 mile)					—
Suspension system	Q:1			Q		Q	—
Steering play	Q:1	Q		Q		Q	—
Steering stem bearing	🔧:2					🔧	—
Electrical system	Q:1			Q		Q	—
Spark plug				↻		↻	—

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Items	year (*A)	Odometer Reading (*B) × 1 000 km (× 1 000 mile)					See Page
		1 (0.6)	6 (3.8)	12 (7.6)	18 (11.4)	24 (15.2)	
Chassis parts	 :1						—
Condition of bolts, nuts and fasteners		Q		Q		Q	—

NOTE

- *All owner daily maintenance items should also be checked at every scheduled dealer service.*

Engine Oil

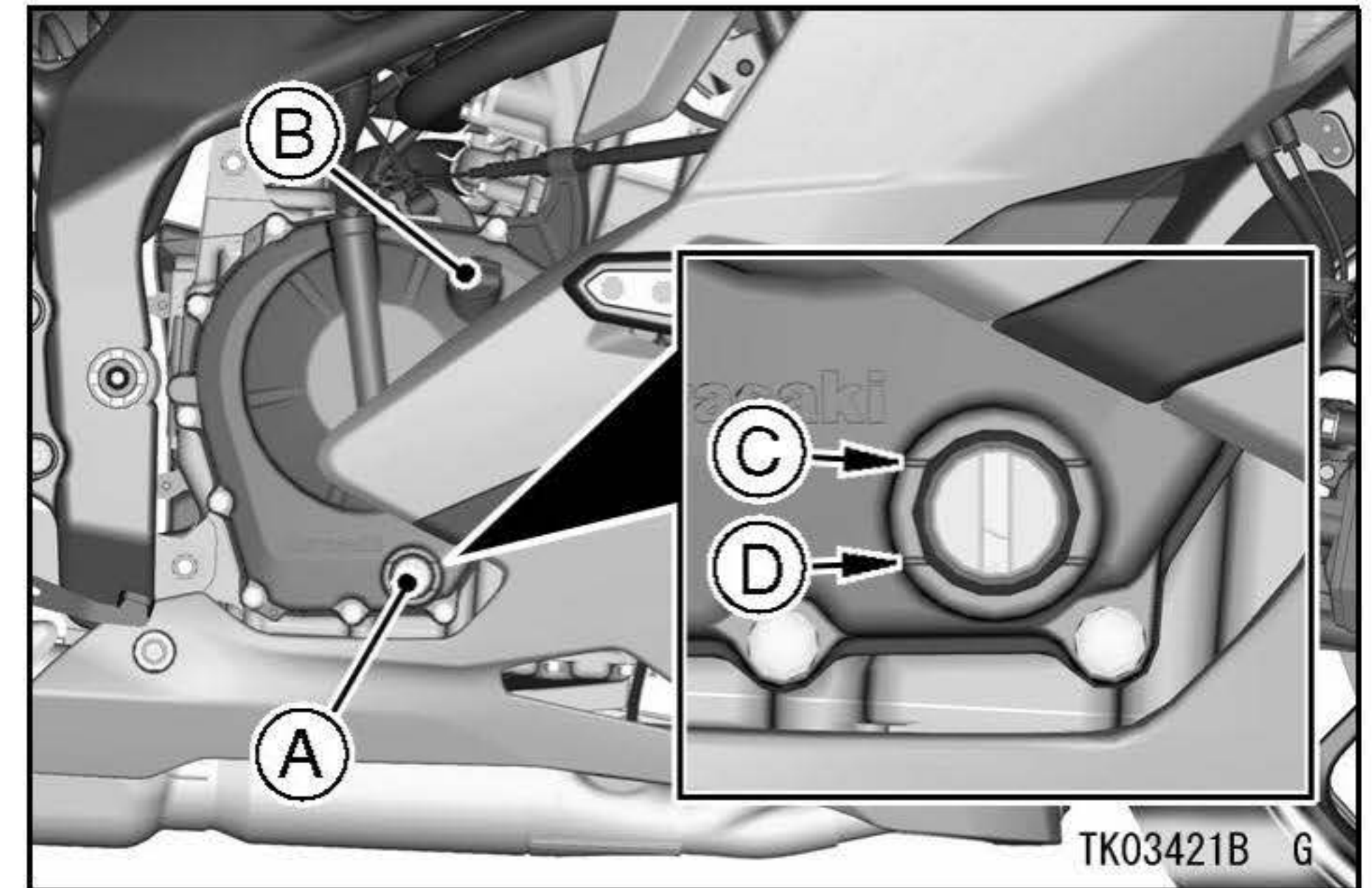
Oil Level Inspection

- If the engine is cold, start the engine and run it for several minutes at idle speed.
- Stop the engine, then wait several minutes until the oil settles.

NOTICE

Racing the engine before the oil reaches every part can cause engine seizure.

- Check the engine oil level through the oil level inspection window. With the motorcycle held level, the oil level should come up between the upper and lower level lines next to the oil level inspection window.



- A. Oil Level Inspection Window
- B. Oil Filler Cap
- C. Upper Level Line
- D. Lower Level Line

- If the oil level is too high, remove the excess oil through the oil filler opening using a syringe or some other suitable device.
- If the oil level is too low, add oil to reach the correct level. Use the same type and brand of oil that is already in the engine.

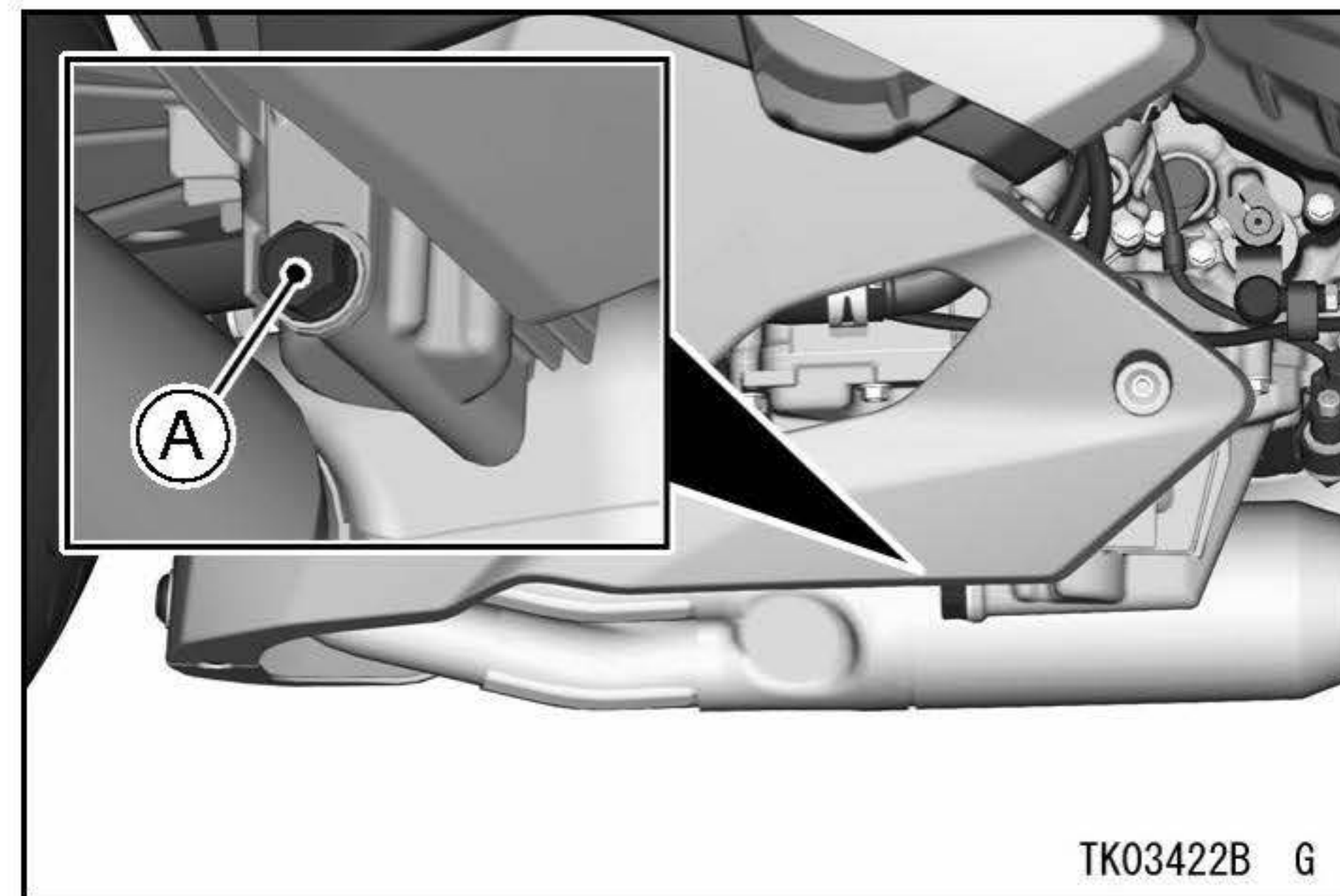
120 MAINTENANCE AND ADJUSTMENT

Oil and/or Oil Filter Change

- The oil change and oil filter replacement should be done by an authorized Kawasaki dealer.

WARNING

Engine oil is a toxic substance. Dispose of used oil properly. Contact your local authorities for approved disposal methods or possible recycling.



A. Engine Oil Drain Bolt

Tightening Torque

Engine Oil Drain Bolt:

30 N·m (3.1 kgf·m, 22 ft·lb)

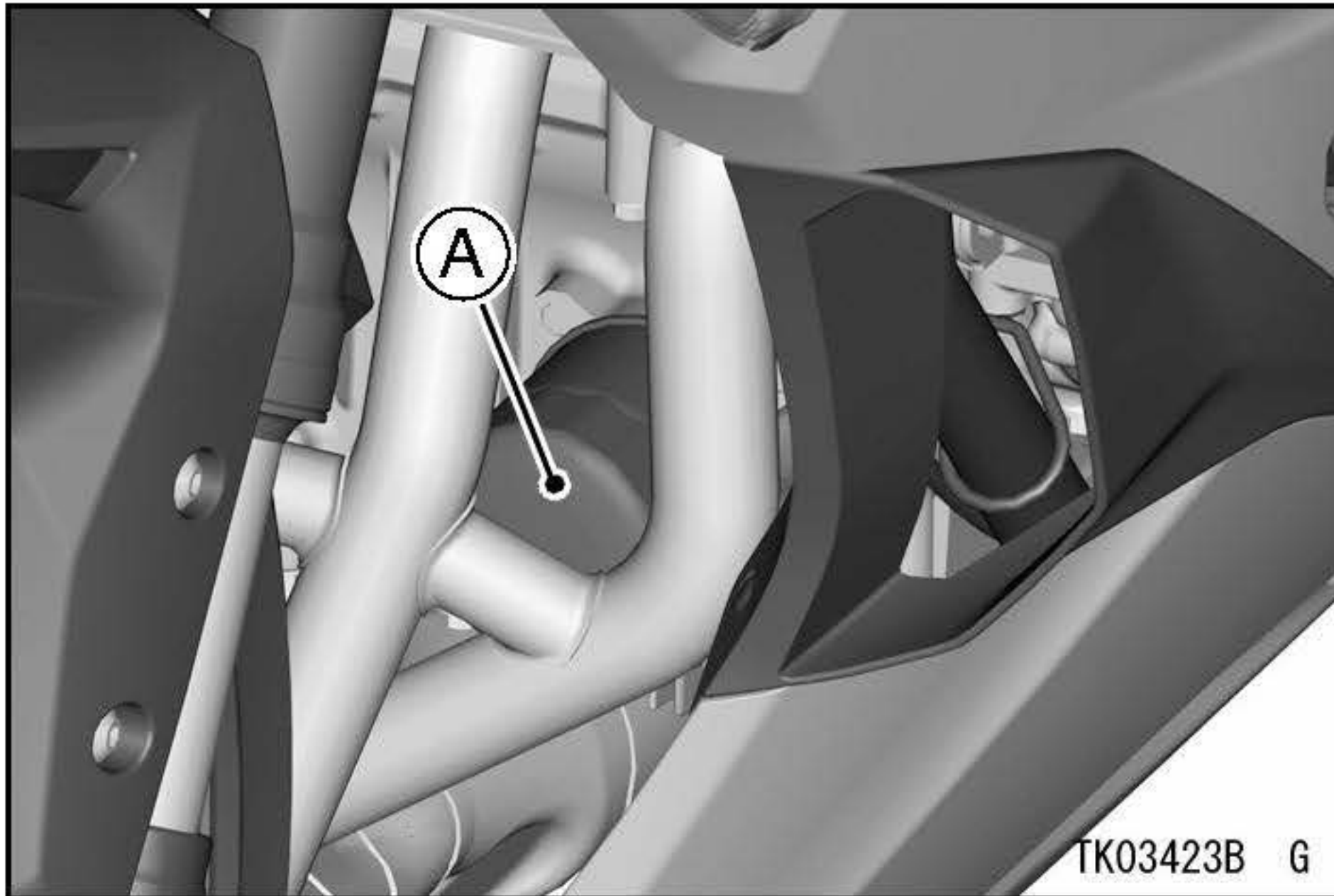
NOTE

- *Do not add any chemical additive to the oil. Oils fulfilling the above requirements are fully formulated and provide adequate lubrication for both the engine and the clutch.*

Engine Oil Capacity

Capacity: 2.2 L (2.3 US qt)
[when filter is not removed]
2.5 L (2.6 US qt)
[when filter is removed]

Although 10W-40 engine oil is the recommended oil for most conditions, the oil viscosity may need to be changed to accommodate atmospheric conditions in your riding area.



A. Oil Filter

Tightening Torque

Oil Filter:

17.5 N·m (1.78 kgf·m, 12.9 ft·lb)

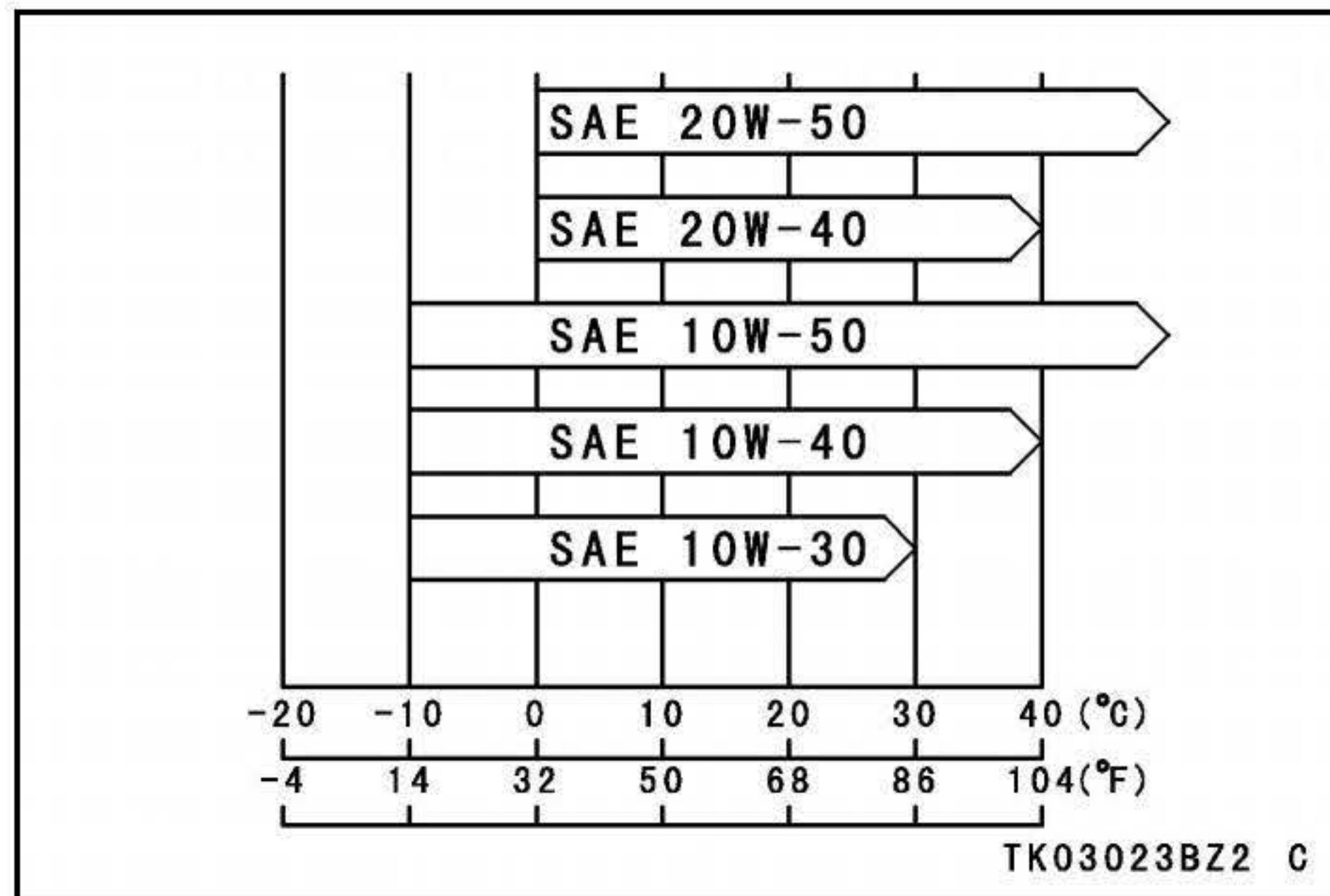
Recommended Engine Oil

Type:

API SG, SH, SJ, SL or SM with JASO MA, MA1 or MA2 rating

Viscosity:

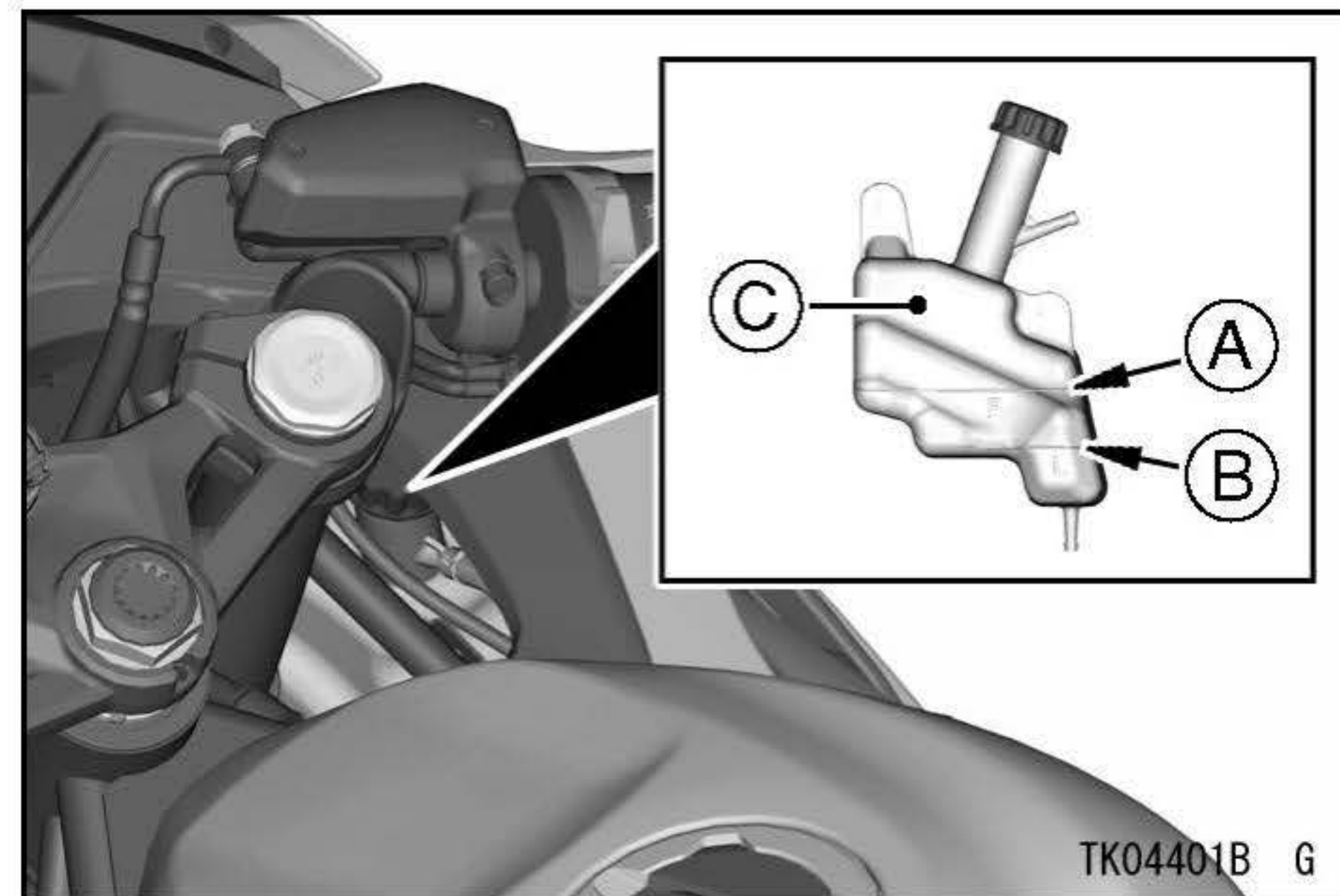
SAE 10W-40



Coolant

Coolant Level Inspection

- Position the motorcycle so that it is perpendicular to the ground.
- Check the coolant level through the coolant level gauge on the reserve tank located the back of right lower fairing. The coolant level should be between the F (Full) and L (Low) level lines.



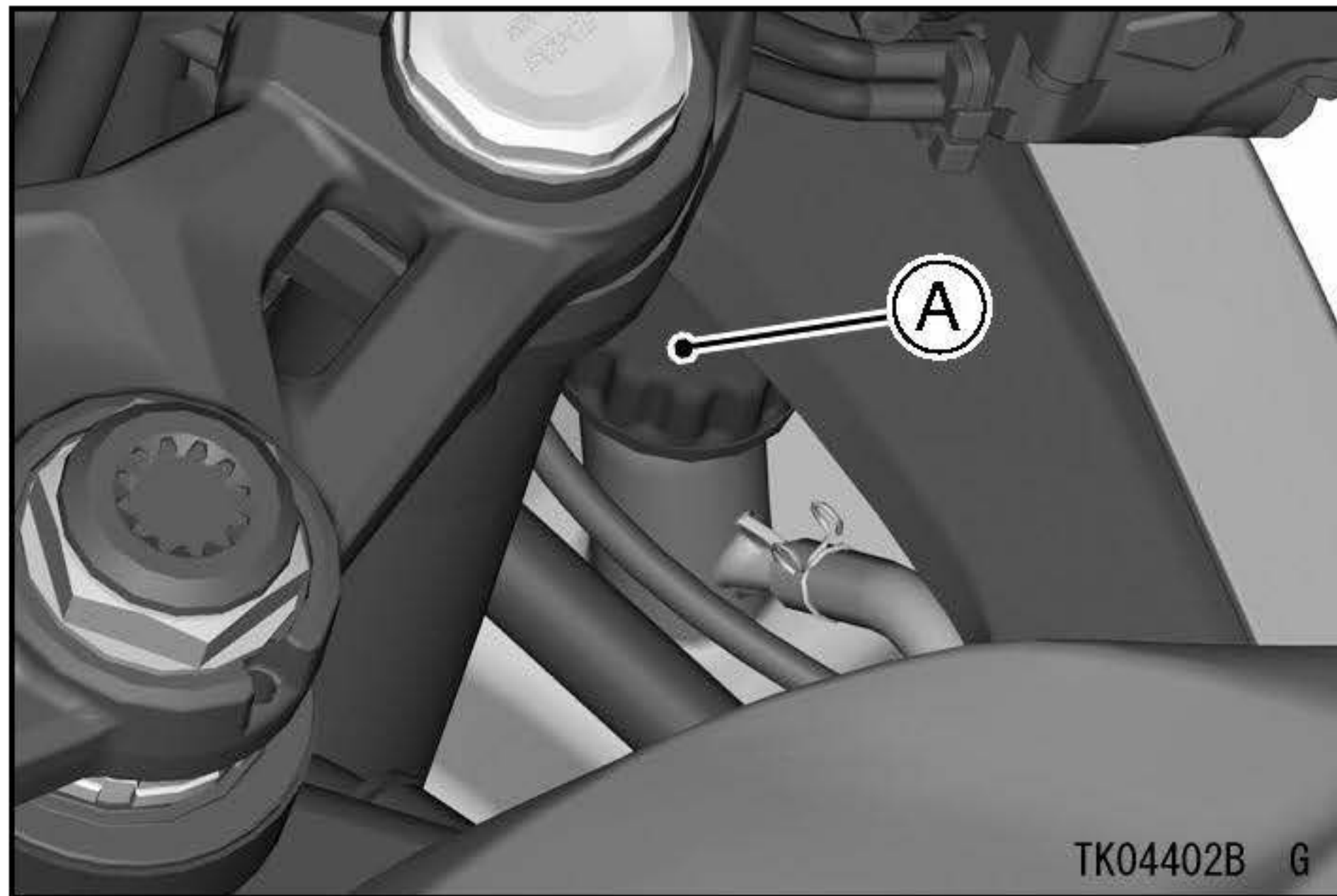
- A. F (Full) Level Line
- B. L (Low) Level Line
- C. Reserve Tank

NOTE

- Check the level when the engine is cold (room or atmospheric temperature).
- If the amount of coolant is insufficient, add coolant into the reserve tank.

Coolant Filling

- Remove the reserve tank cap from the reserve tank and add coolant through the filler opening between F (Full) and L (Low) level lines.



A. Reserve Tank Cap

NOTE

- *In an emergency you can add water alone to the coolant reserve tank,*

however it must be returned to the correct mixture ratio by the addition of antifreeze concentrate as soon as possible.

NOTICE

If coolant must be added often, or the reserve tank completely runs dry, there is probably leakage in the system. Have the cooling system inspected by your authorized Kawasaki dealer.

- Install the reserve tank cap.

Coolant Change

Have the coolant changed by an authorized Kawasaki dealer.

Coolant Requirement

WARNING

Coolant containing corrosion inhibitors for aluminum engines and radiators include harmful chemicals for human body. Drinking coolant can result in serious injury or death. Use coolant in accordance with the instructions of the manufacturer.

Use a permanent type of antifreeze (soft water and ethylene glycol plus corrosion and rust inhibitor chemicals for aluminum engines and radiators) in the cooling system. On the mixture ratio of coolant, choose the suitable one referring to the relation between freezing point and strength directed on the container.

NOTICE

If hard water is used in the system, it causes scale accumulation in the water passages, and considerably reduces the efficiency of the cooling system.

NOTE

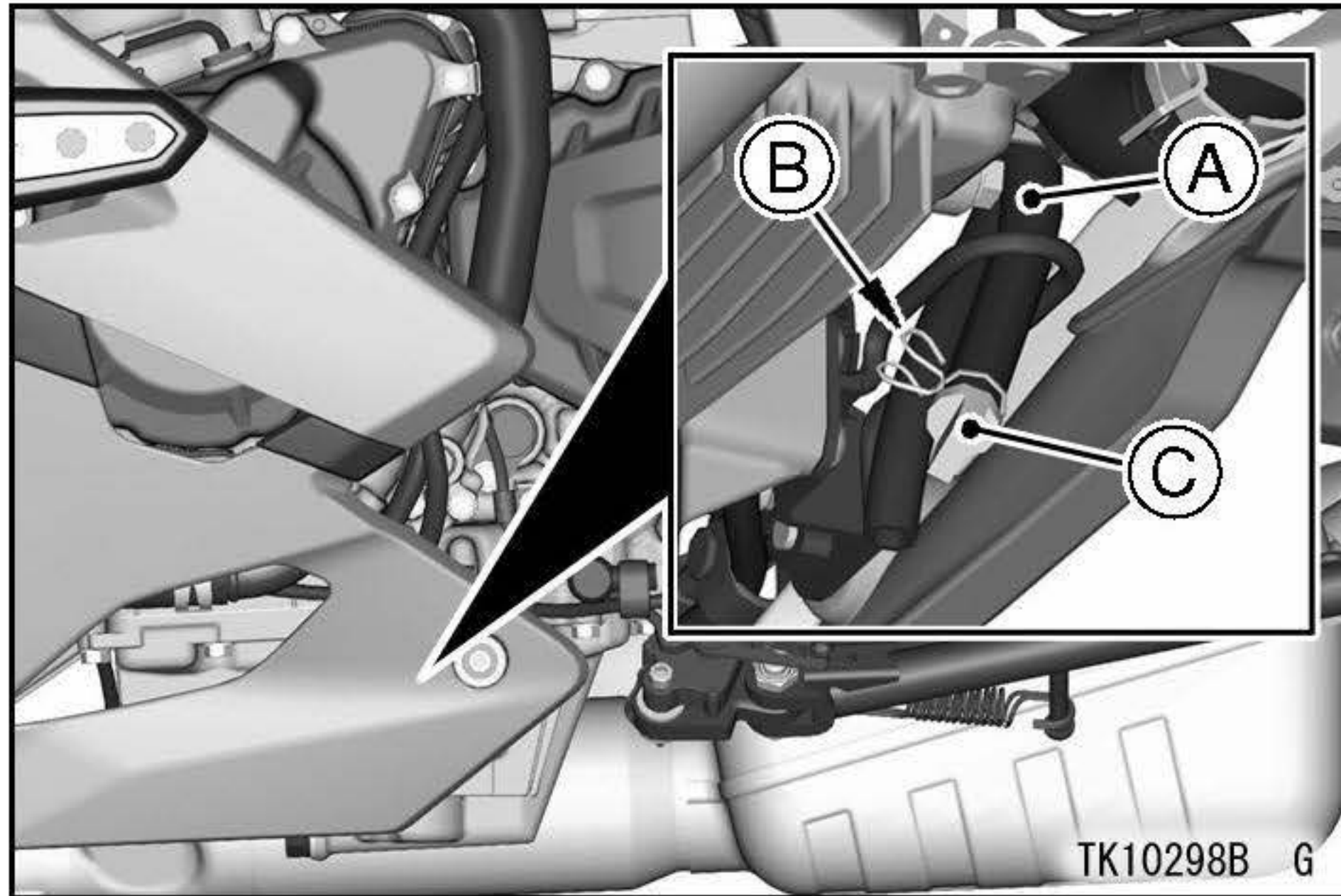
- *A permanent type of antifreeze is installed in the cooling system when shipped. It is mixed at 50% and has the freezing point of -35°C (-31°F).*

Air Cleaner

This motorcycle's air cleaner element consists of a wet paper filter. Replacement of the air cleaner element should be done by an authorized Kawasaki dealer.

Oil Draining

- Inspect the transparent drain hose located to the left of the engine to see if any oil has run down.



- A. Transparent Drain Hose
- B. Clamp
- C. Plug

- If there is any oil in the transparent drain hose, remove the clamp and

plug from the lower end of the drain hose, and drain the oil.

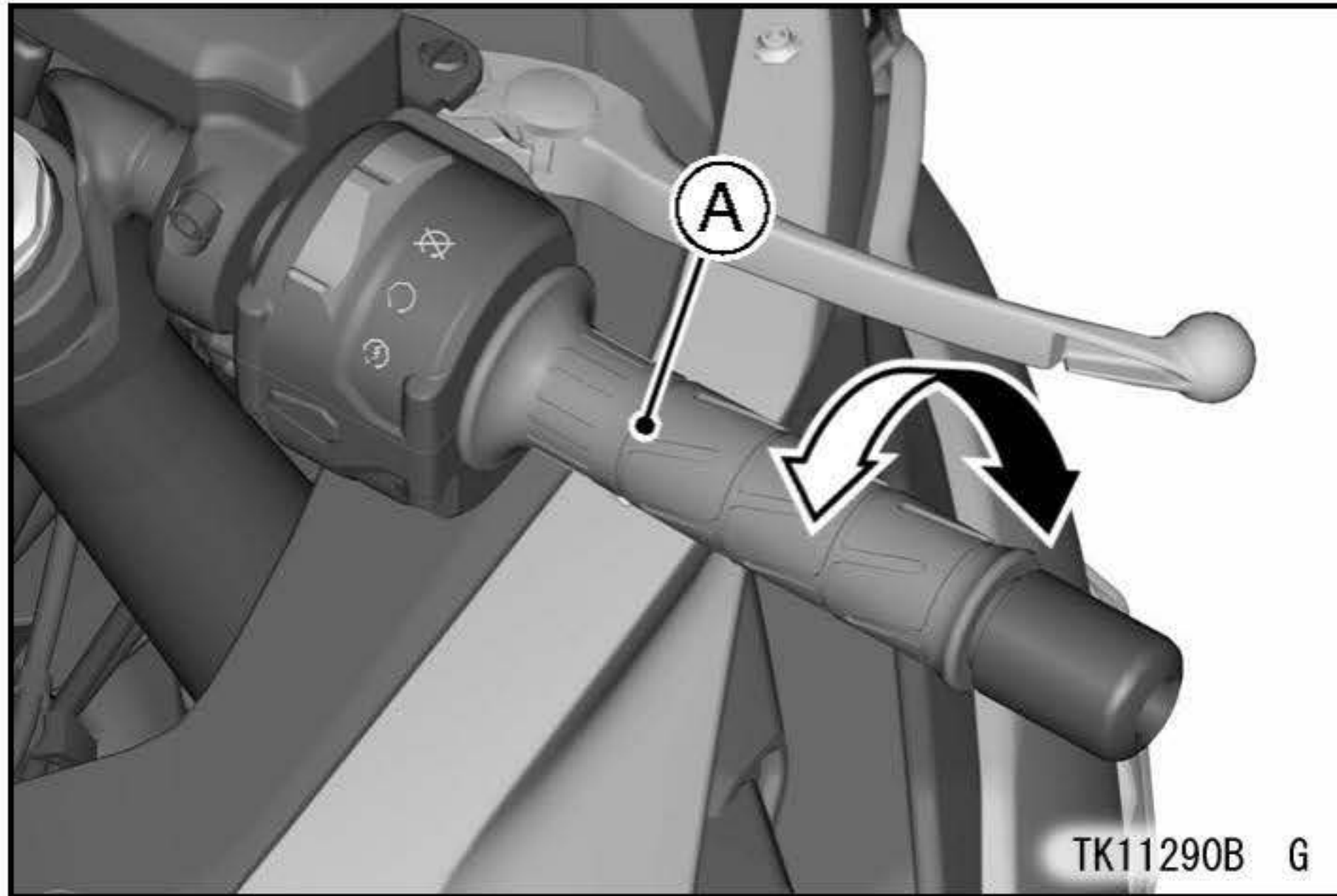
WARNING

Oil on tires will make them slippery and can cause an accident and injury. Be sure to install the plug in the drain hose after draining.

Throttle Control System

Throttle Operation Inspection

- Check that the throttle grip moves smoothly from full open to close.



A. Throttle Grip

- If the throttle grip does not return properly, have the throttle control system checked by an authorized Kawasaki dealer.

Idle Speed

The idle speed inspection should be performed in accordance with the Periodic Maintenance chart.

This motorcycle is equipped with the Idle Speed Control System. If the idle speed is disturbed, inspection of the idle speed control should be done by an authorized Kawasaki dealer.

NOTE

- *While the engine is cold, the fast idle system automatically raises the engine idle speed.*

Idle Speed

1 500 $\pm$ 100 r/min (rpm)

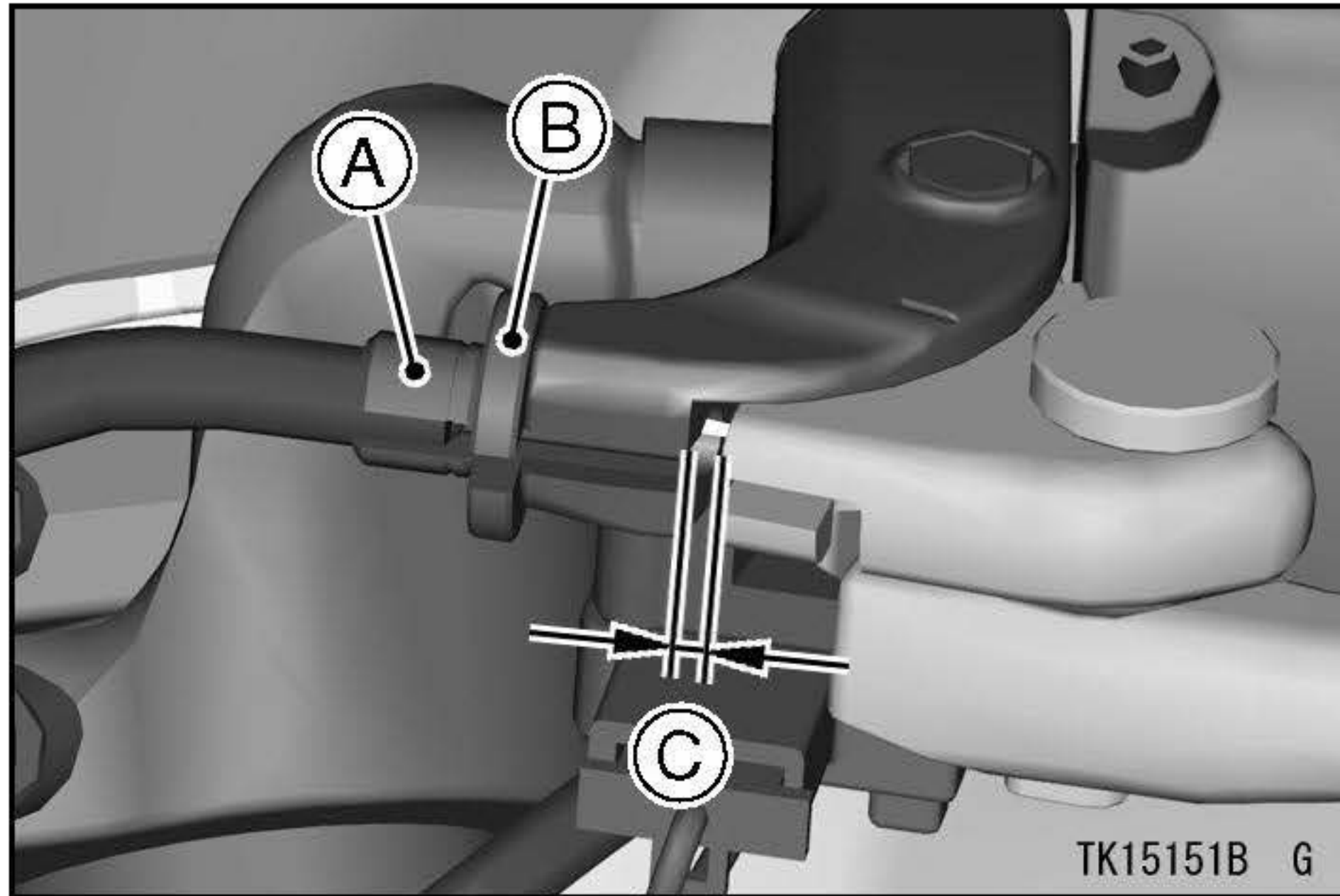
Clutch

Clutch Operation Inspection

- Check that the clutch lever operates properly and that the inner cable slides smoothly. If there is any irregularity, have the clutch cable checked by an authorized Kawasaki dealer.
- Check the clutch lever free play.

Clutch Lever Free Play

2 ~ 3 mm (0.08 ~ 0.12 in.)



A. Adjuster

B. Locknut

C. Clutch Lever Free Play

- If the free play is incorrect, adjust the lever free play as follows.

Clutch Lever Free Play Adjustment

- Loosen the locknut, and turn the adjuster so that the clutch lever will have the specified free play.

WARNING

Excess clutch lever free play could prevent clutch disengagement and cause a crash resulting in serious injury or death. When adjusting the clutch lever free play, be sure the upper end of the clutch outer cable is fully seated in its fitting so that it doesn't slip into place later and create excessive free play.

- Tighten the locknut.
- If it cannot be done, have the clutch cable adjusted by an authorized Kawasaki dealer.

NOTE

- *After the adjustment is made, start the engine and check that the clutch does not slip and that it releases properly.*

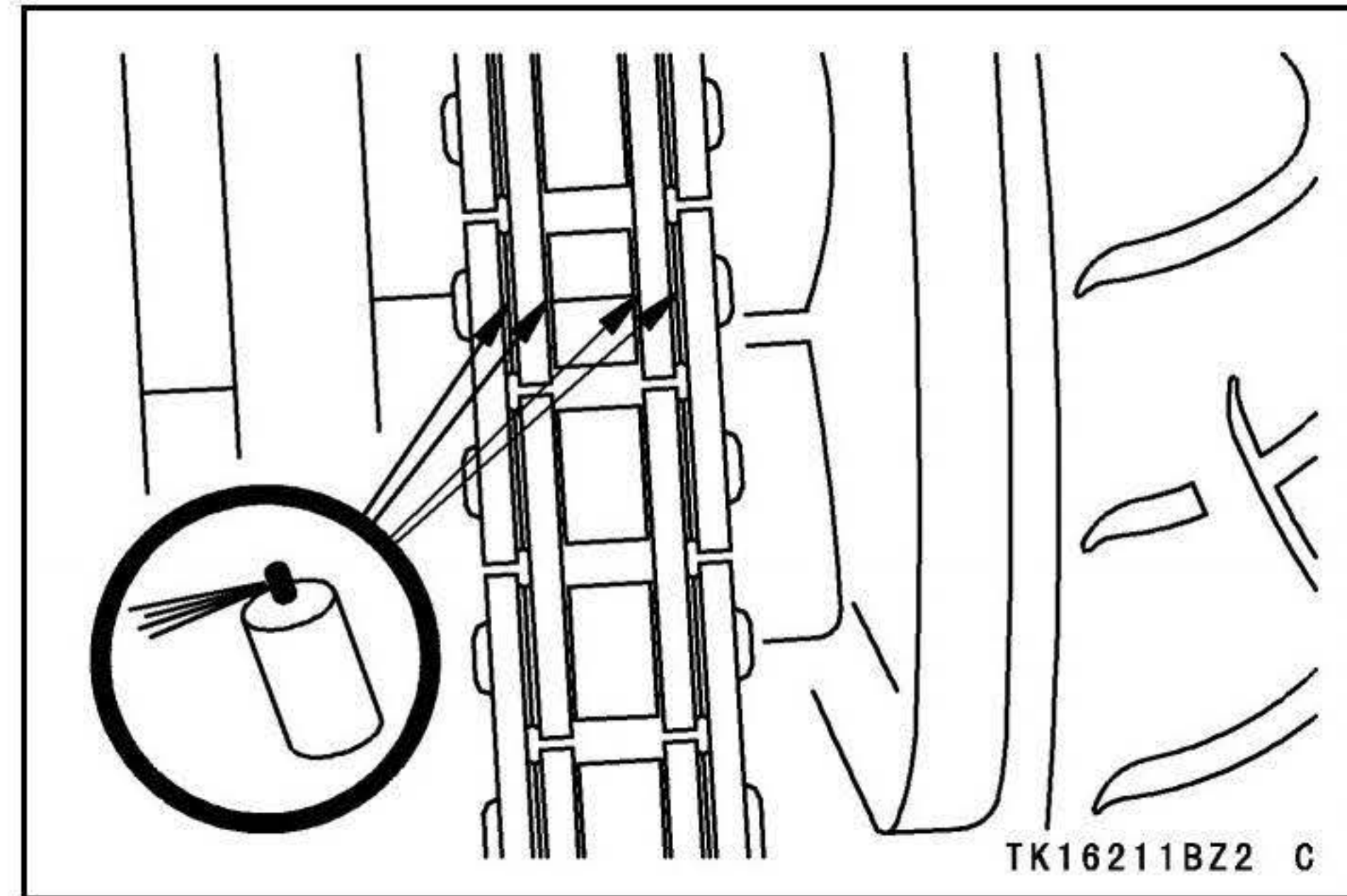
Drive Chain***Drive Chain Lubrication***

Lubrication is necessary after riding through rain or on wet roads, or any time that the chain appears dry.

Use a lubricant for sealed chains to prevent deterioration of chain seals. If the chain is especially dirty, clean it using a cleaner for sealed chains following the instructions supplied by the chain cleaner manufacturer.

- Apply lubricant to the sides of the rollers so that it will penetrate to the rollers and bushings. Apply lubricant to the seals so that the seals will be

coated with lubricant. Wipe off any excess lubricant.

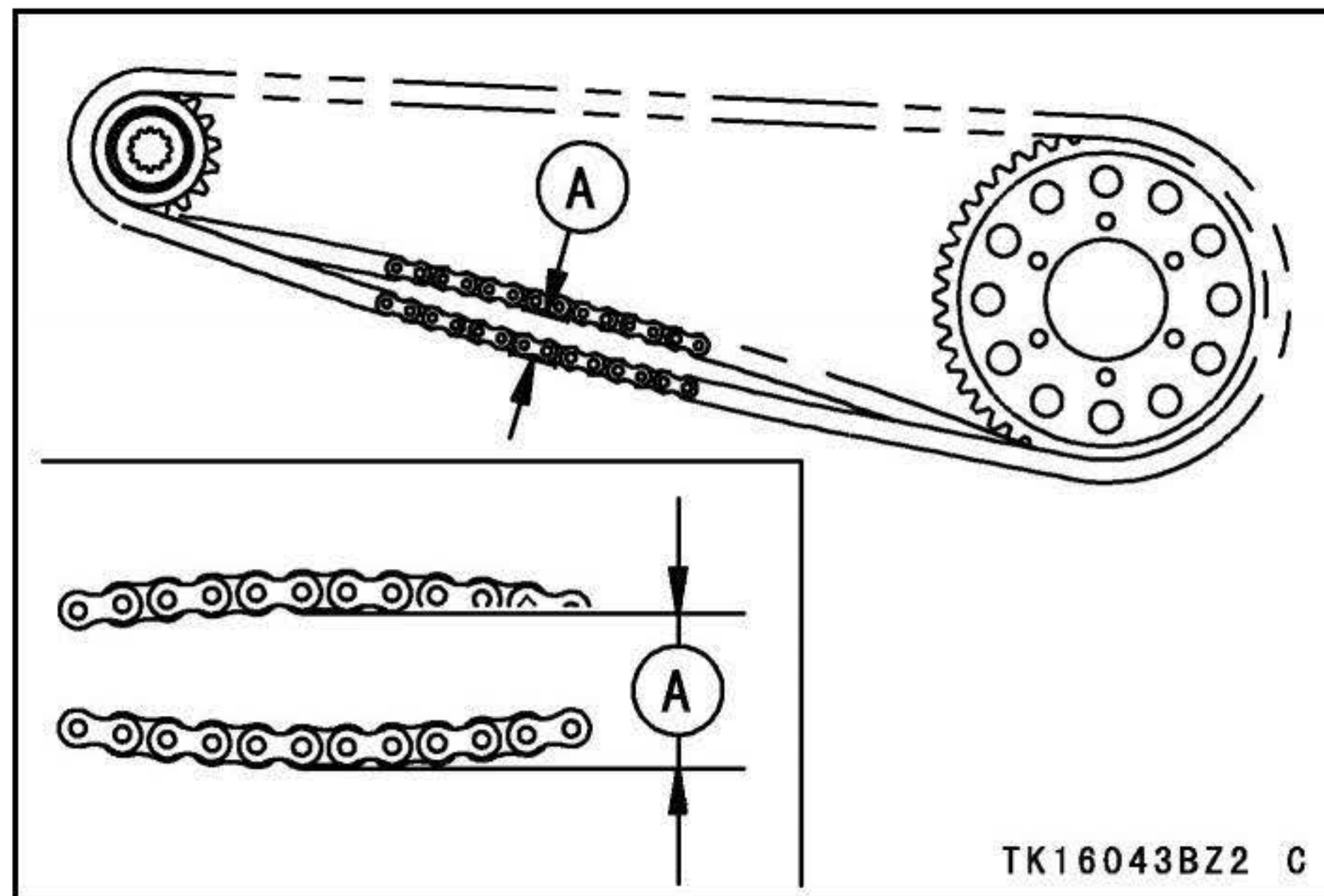


- Wipe off any lubricant that gets on the tire surface.

Drive Chain Slack Inspection

- Set the motorcycle up on its side stand.
- Clean the chain if it is dirty, and lubricate it if it appears dry.
- Rotate the rear wheel to find the position where the chain is tightest, and

measure the maximum chain slack by pulling up and pushing down the chain midway between the engine sprocket and rear wheel sprocket.



A. Chain Slack

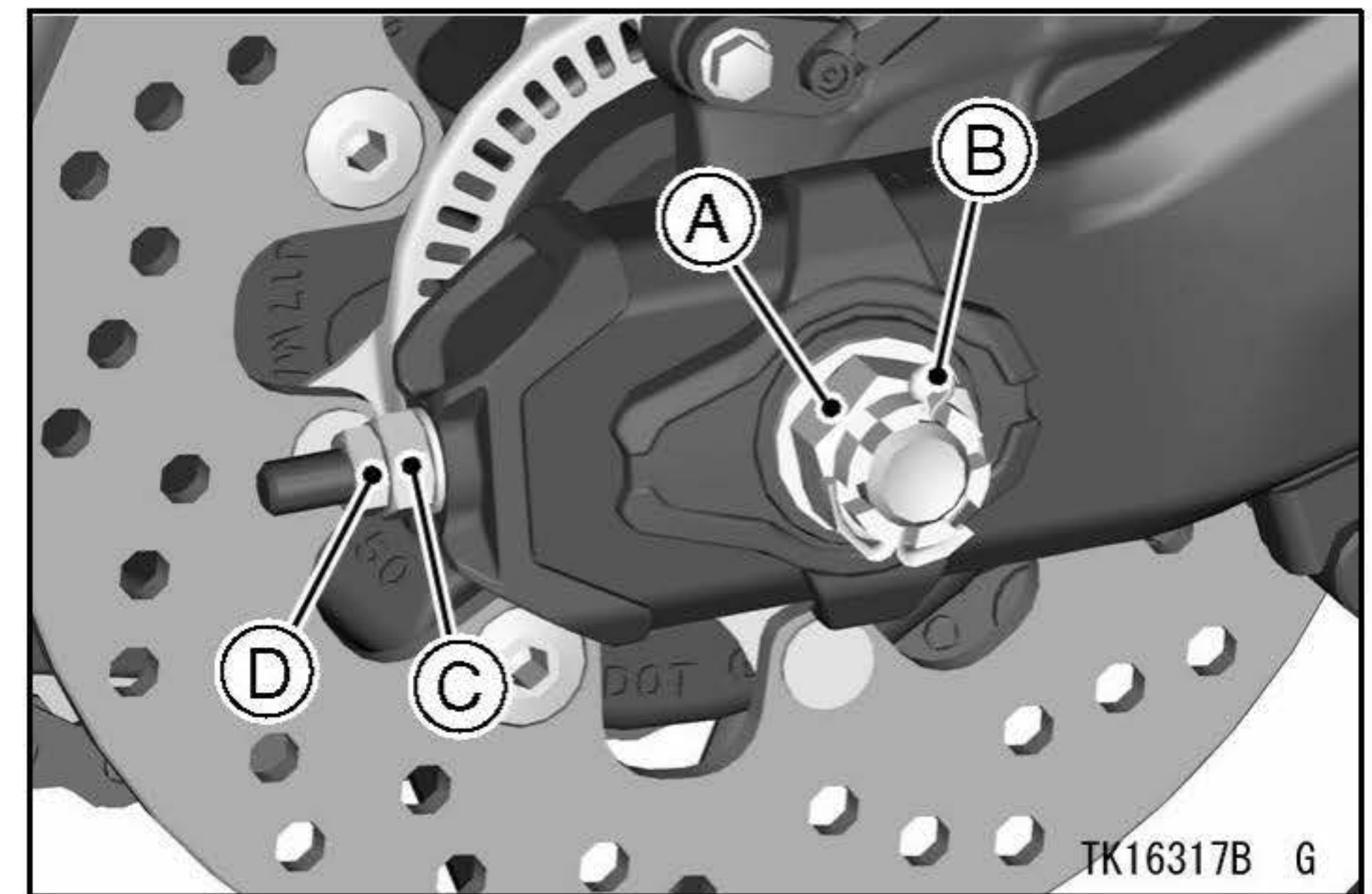
- If the drive chain is too tight or too loose, adjust it so that the chain slack is within the standard value.

Drive Chain Slack

Standard: 25 ~ 35 mm (1.0 ~ 1.4 in.)

Drive Chain Slack Adjustment

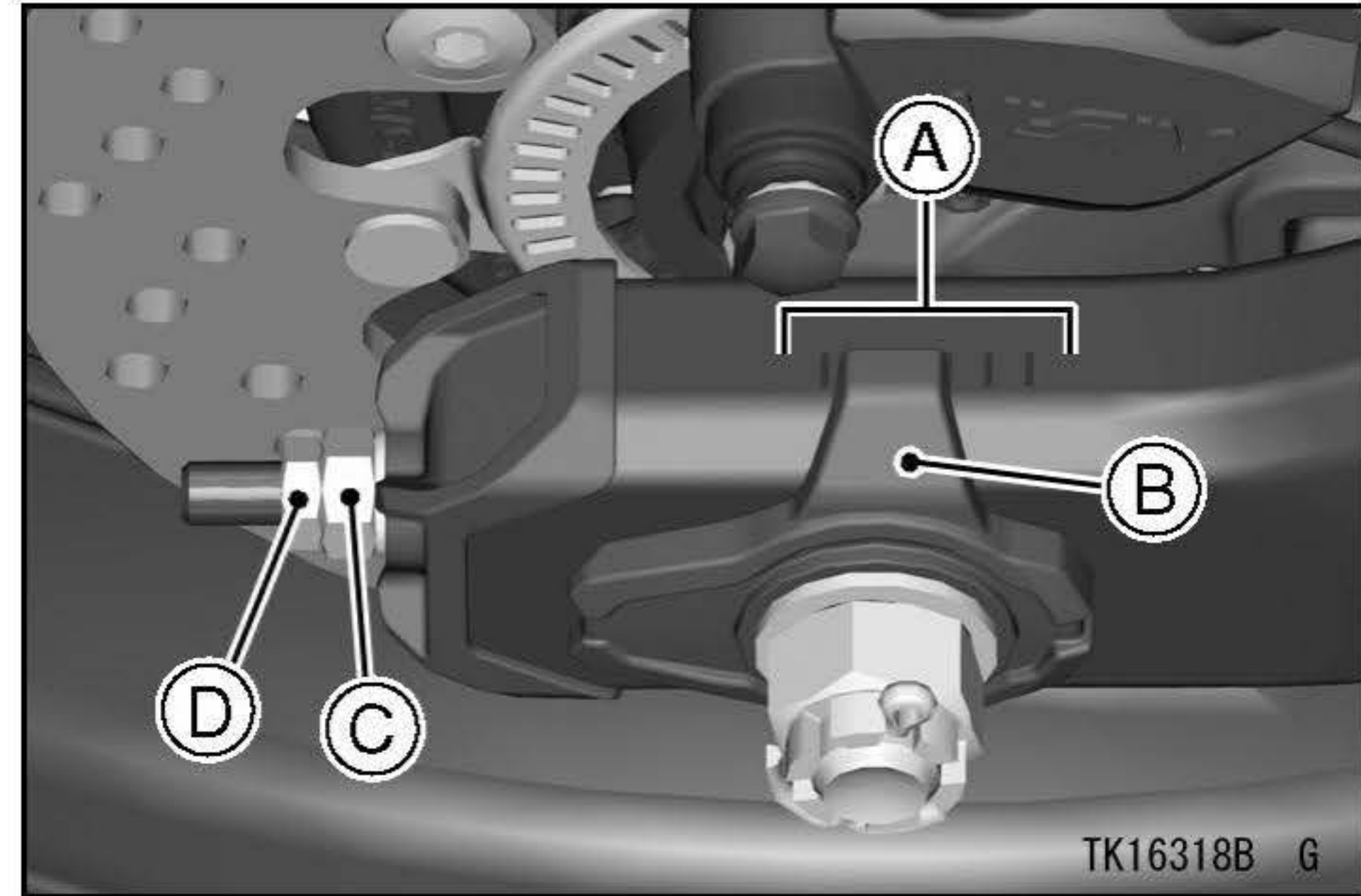
- Remove the cap from the rear axle nut.
- Loosen the left and right chain adjuster locknuts.
- Remove the cotter pin, and loosen the axle nut.



- A. Axle Nut
- B. Cotter Pin
- C. Adjuster
- D. Locknut

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- If the chain is too loose, turn in the left and right chain adjusters evenly.
- If the chain is too tight, turn out the left and right chain adjusters evenly.
- Turn both chain adjusters evenly until the drive chain has the correct amount of slack. To keep the chain and wheel properly aligned, the left wheel alignment indicator should align with the same swingarm mark that the right wheel alignment indicator aligns with.



- A. Marks
- B. Wheel Alignment Indicator
- C. Adjuster
- D. Locknut

NOTE

- *Wheel alignment can also be checked using the straightedge or string method.*

! WARNING

Misalignment of the wheel will result in abnormal wear, and may result in an unsafe riding condition. Align the rear wheel using the marks on the swingarm or measuring the distance between the center of the axle and swingarm pivot.

- Tighten both chain adjuster locknuts.
- Tighten the axle nut to the specified torque.

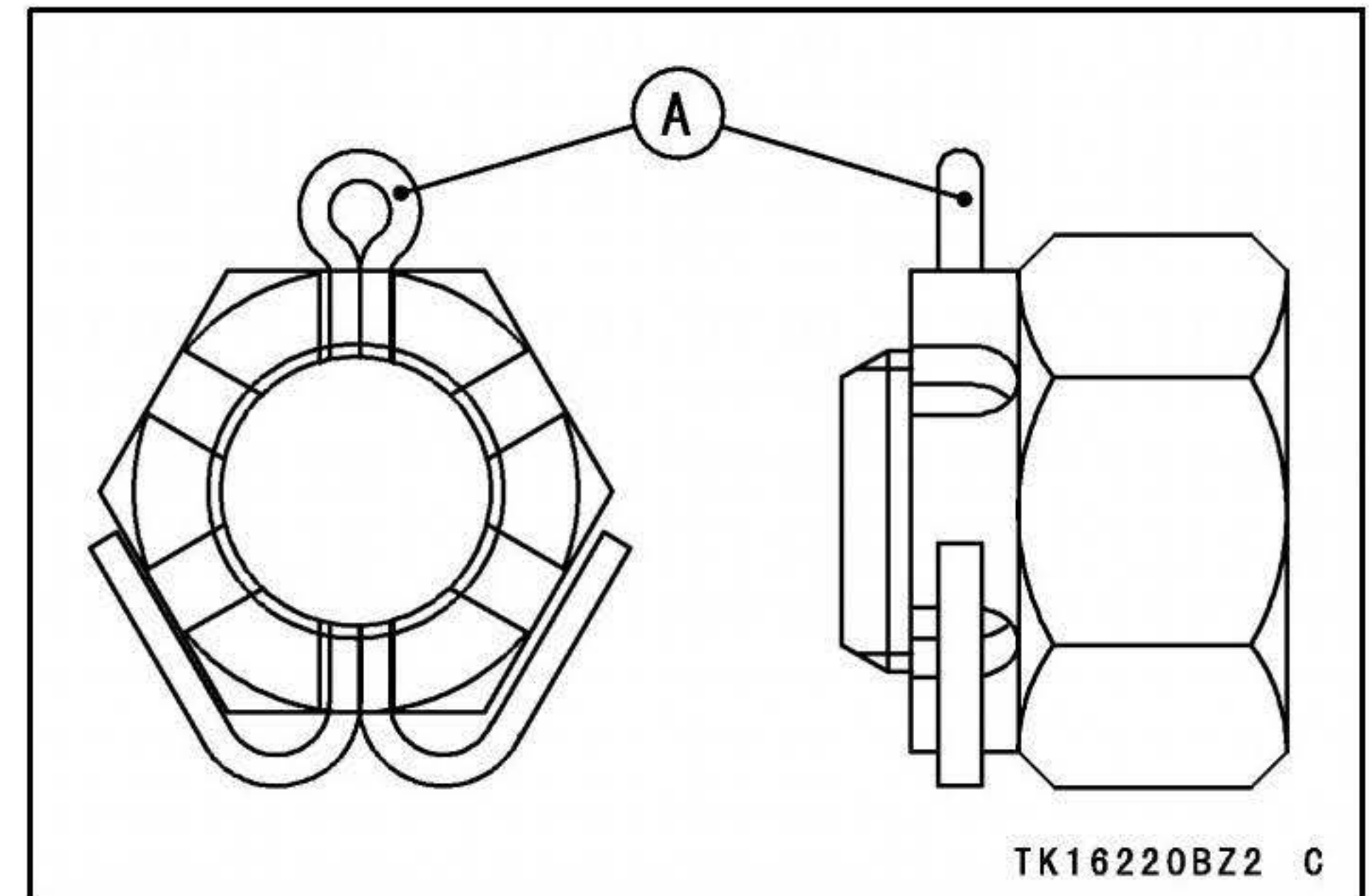
Tightening Torque

Axle Nut: 98 N·m (10 kgf·m, 72 ft·lb)

NOTE

- *If a torque wrench is not available, this item should be serviced by an authorized Kawasaki dealer.*

- Rotate the wheel, measure the chain slack again at the tightest position, and readjust if necessary.
- Install a new cotter pin through the axle nut and axle, and spread its ends.



A. Cotter Pin

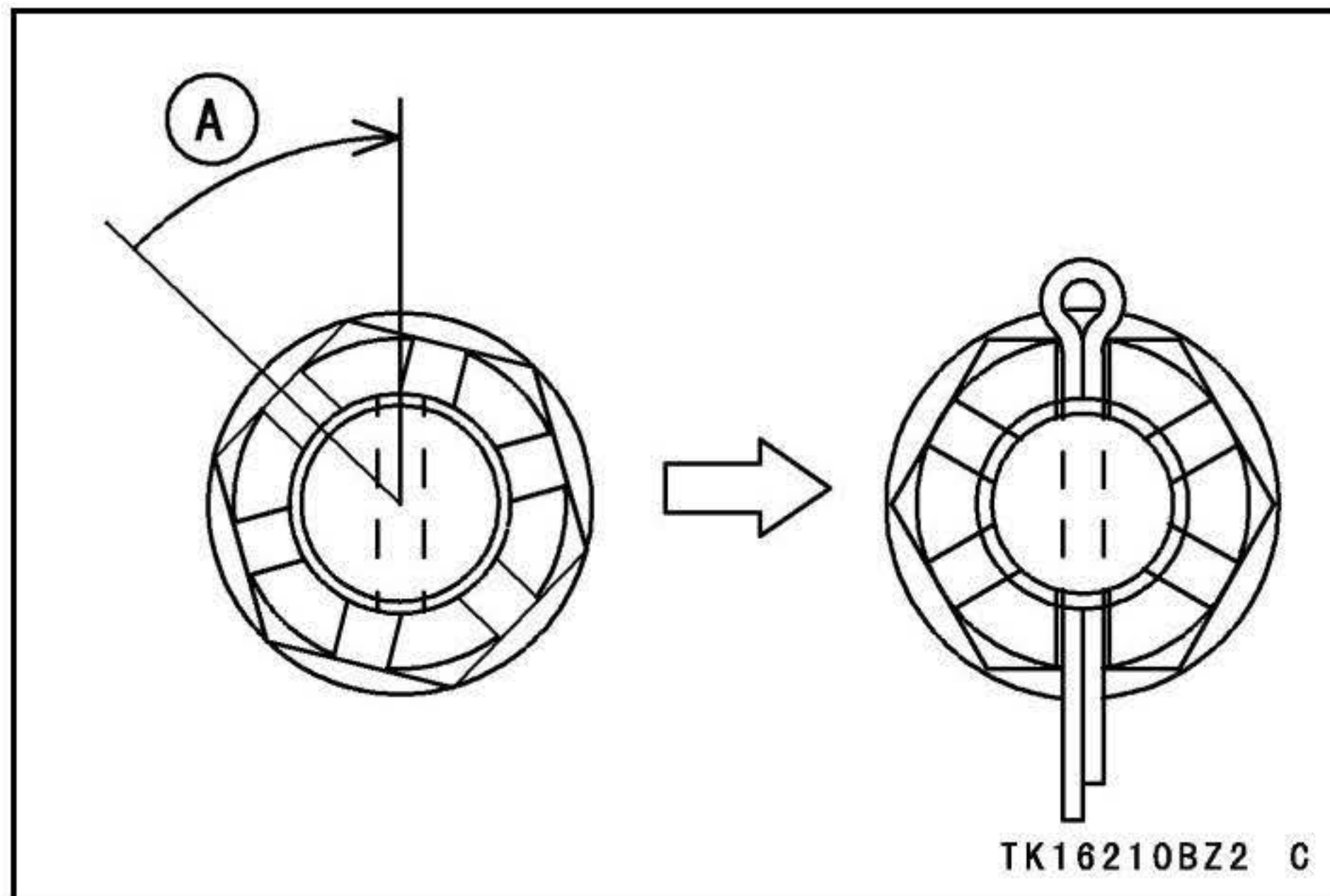
NOTE

- *When inserting the cotter pin, if the slots in the nut do not align with the cotter pin hole in the axle shaft,*

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tighten the nut clockwise up to the next alignment.

- *It should be within 30 degrees.*
- *Loosen once and tighten again when the slot goes past the nearest hole.*



A. Turn Clockwise

WARNING

A loose axle nut can lead to an accident resulting in serious injury or death. Tighten the axle nut to the proper torque and install a new cotter pin.

- Install the cap to the rear axle nut.
- Check the rear brake (see the Brakes section).

Brakes

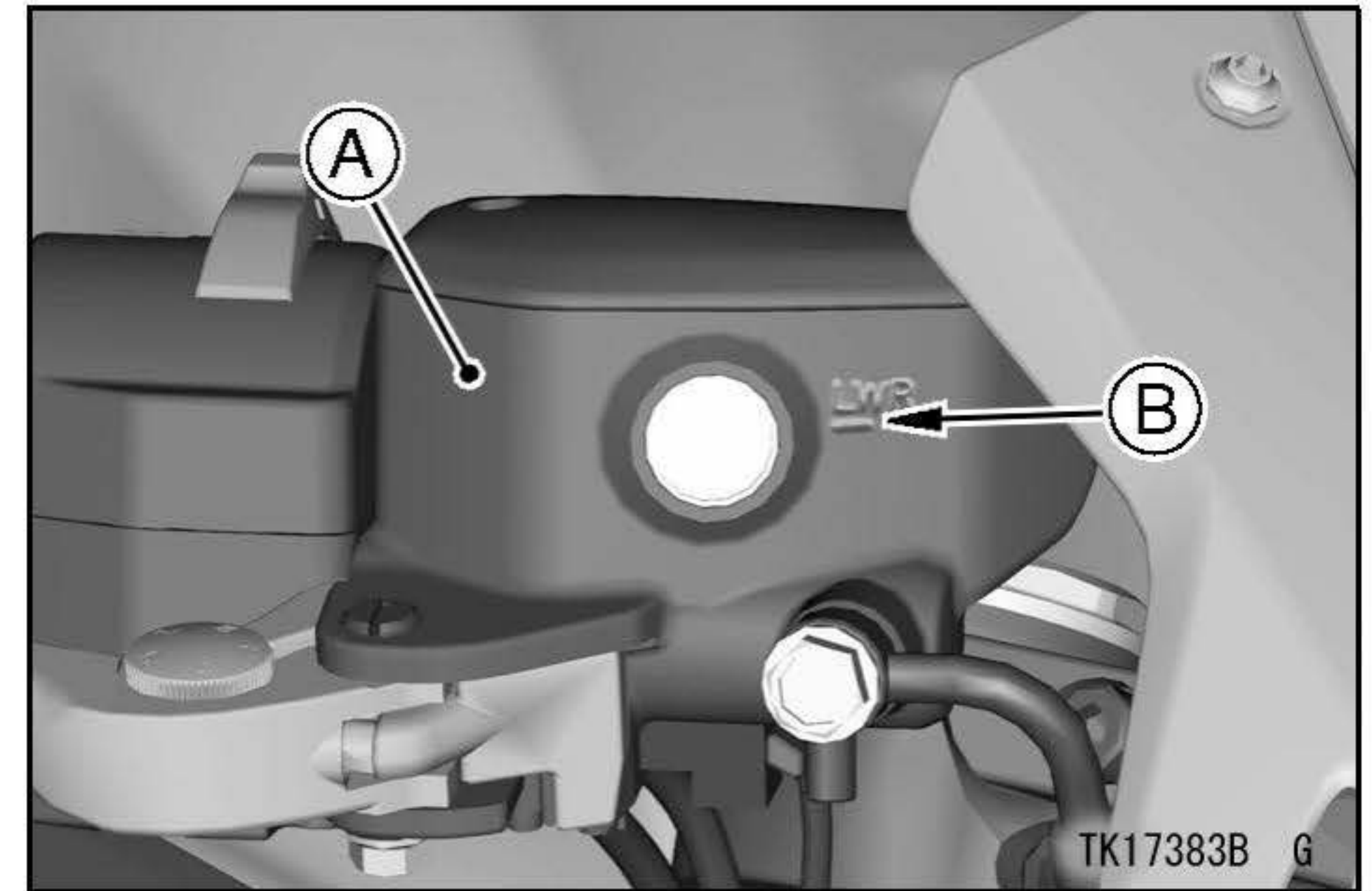
If you feel there is something wrong when applying the brakes, have the brake system checked by an authorized Kawasaki dealer immediately.

! WARNING

Air in the brake lines diminish braking performance and can cause an accident resulting in injury or death. If the brake lever or pedal feels mushy when it is applied, there might be air in the brake lines or the brake may be defective. Have the brake checked immediately by an authorized Kawasaki dealer.

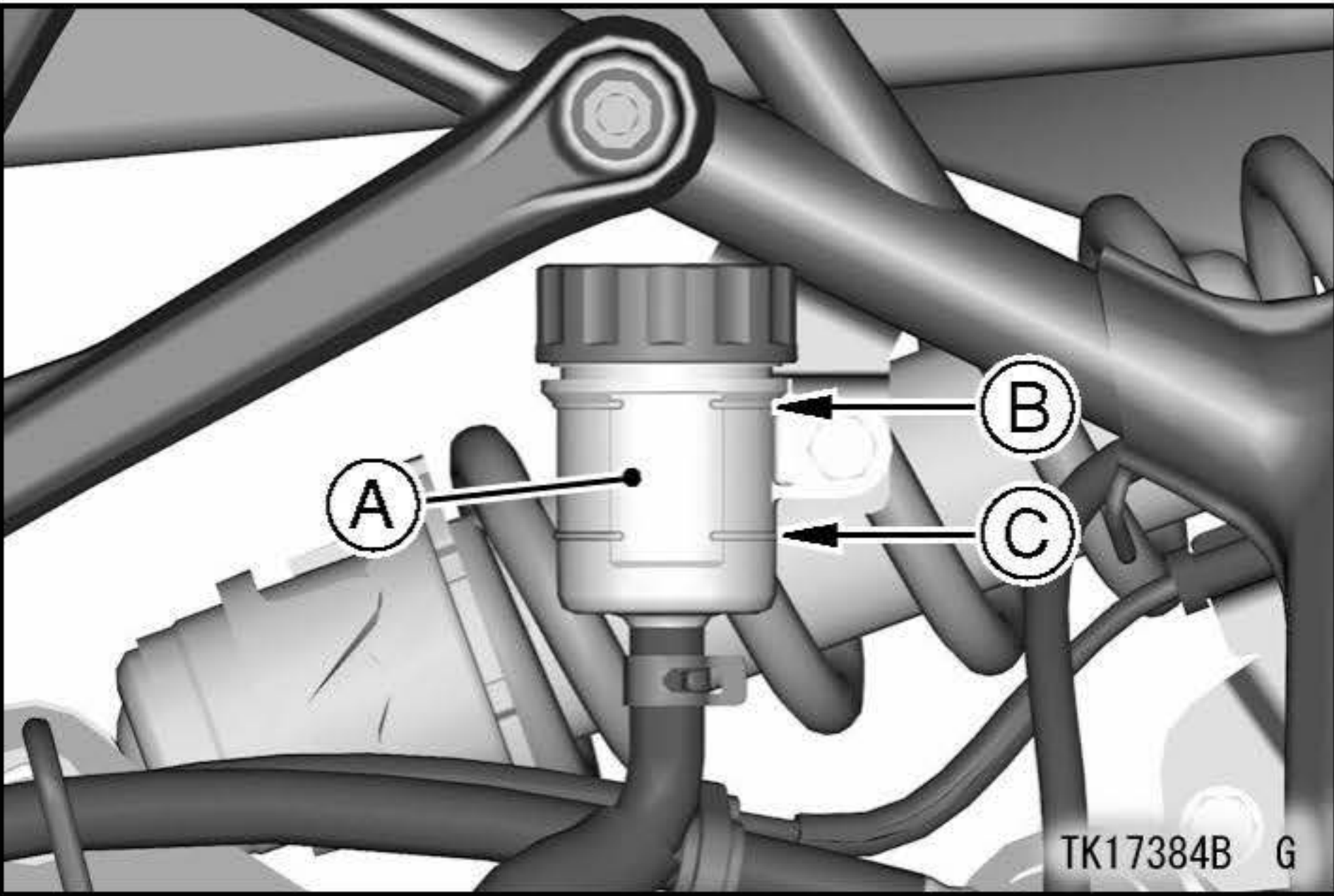
Brake Fluid Level Inspection

- With the front brake fluid reservoir held horizontal, the brake fluid level must be above the lower level line.



A. Front Brake Fluid Reservoir
B. Lower Level Line

- With the rear brake fluid reservoir held horizontal, the brake fluid level must be kept between the upper and lower level lines.



A. Rear Brake Fluid Reservoir
B. Upper Level Line
C. Lower Level Line

- If the fluid level is lower than the lower level line, it may indicate that the fluid is leaking. In this case, have the brake system inspected by an authorized Kawasaki dealer.

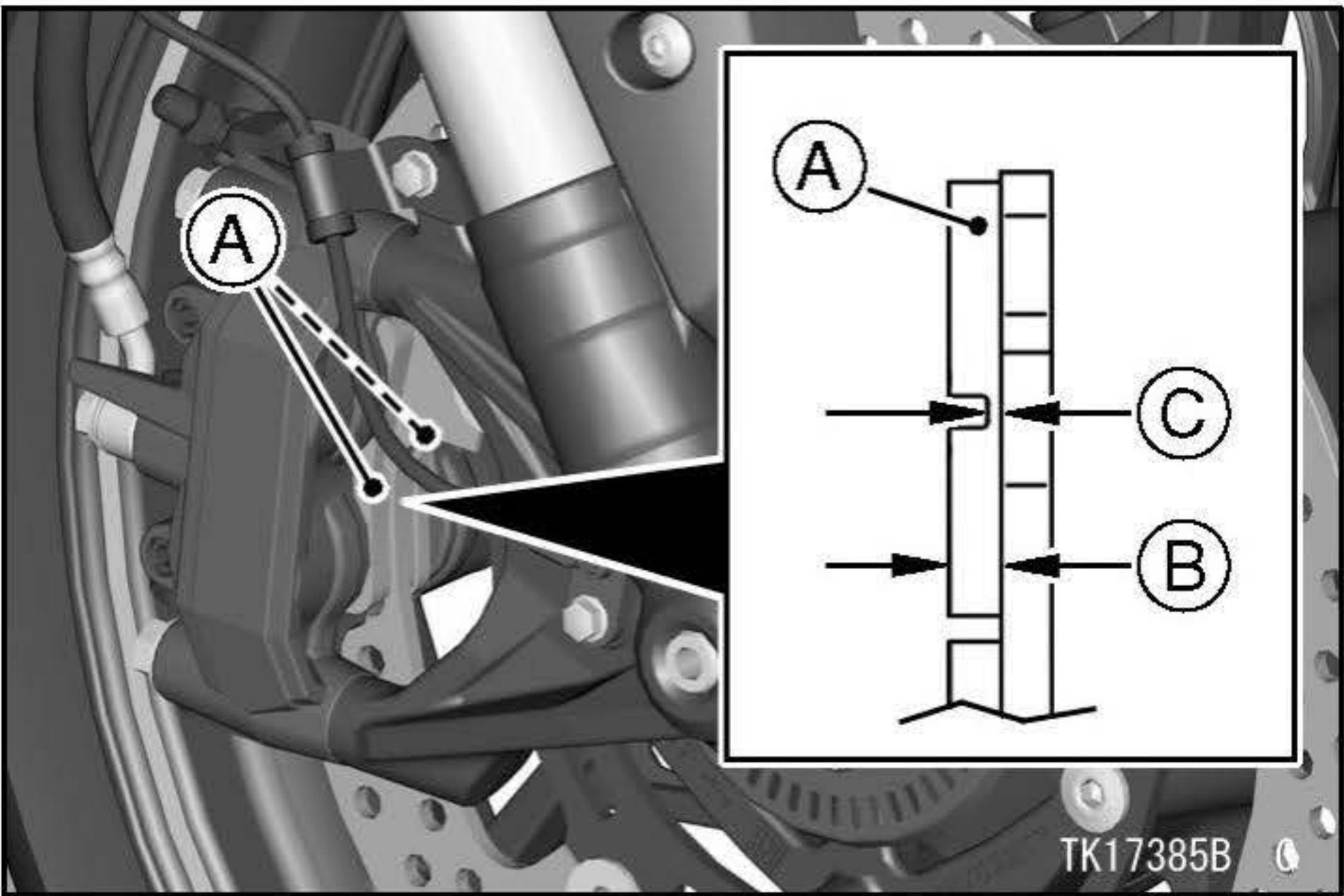
Brake Pad Wear Inspection

Inspect the brakes for wear. For each front and rear disc brake caliper, if the

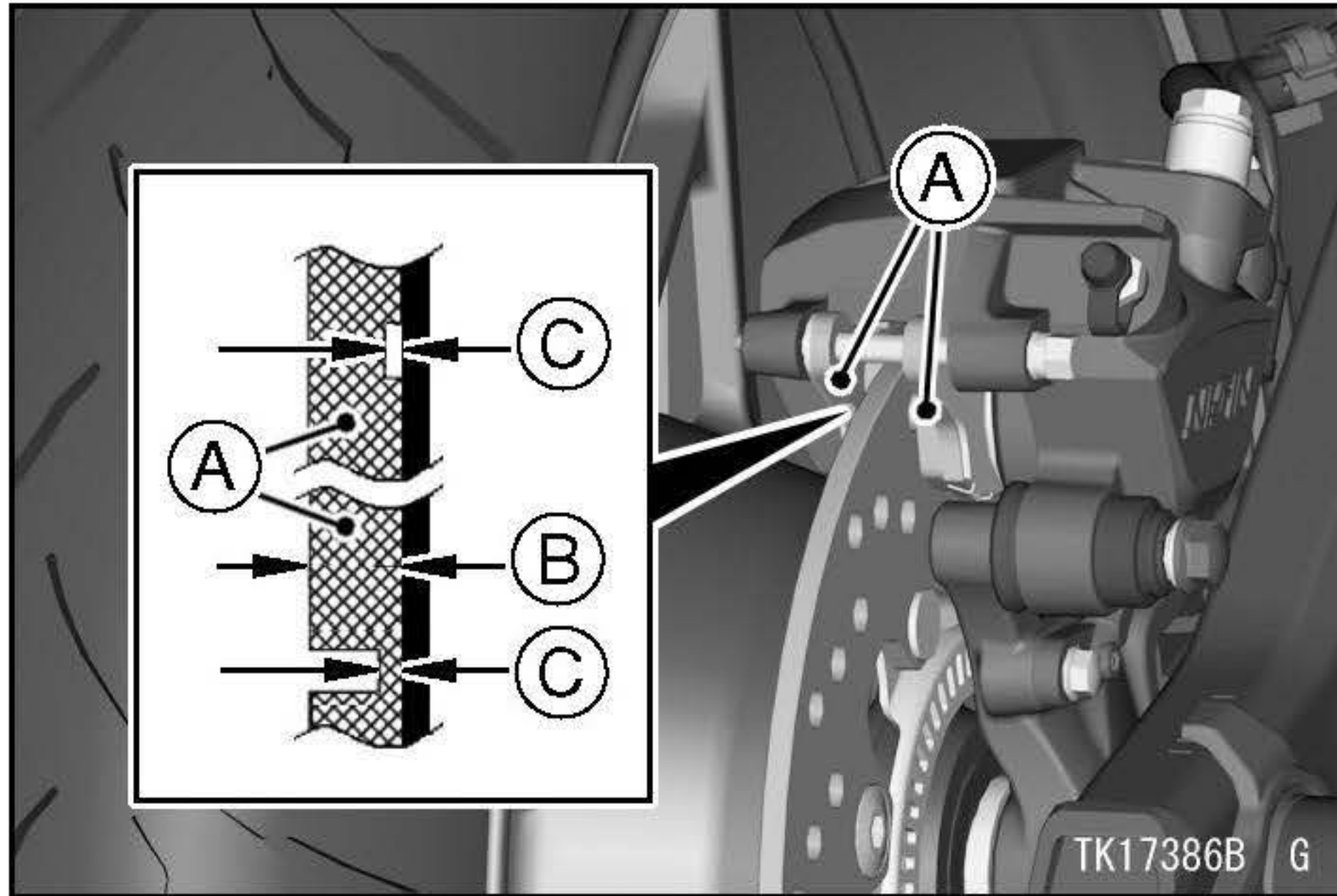
thickness of either pad lining is less than below table, replace both pads in the caliper as a set. Pad replacement should be done by an authorized Kawasaki dealer.

Lining Thickness Service Limit

Front	1 mm (0.04 in.)
Rear	1 mm (0.04 in.)



A. Front Brake Pads
B. Lining Thickness
C. Service Limit



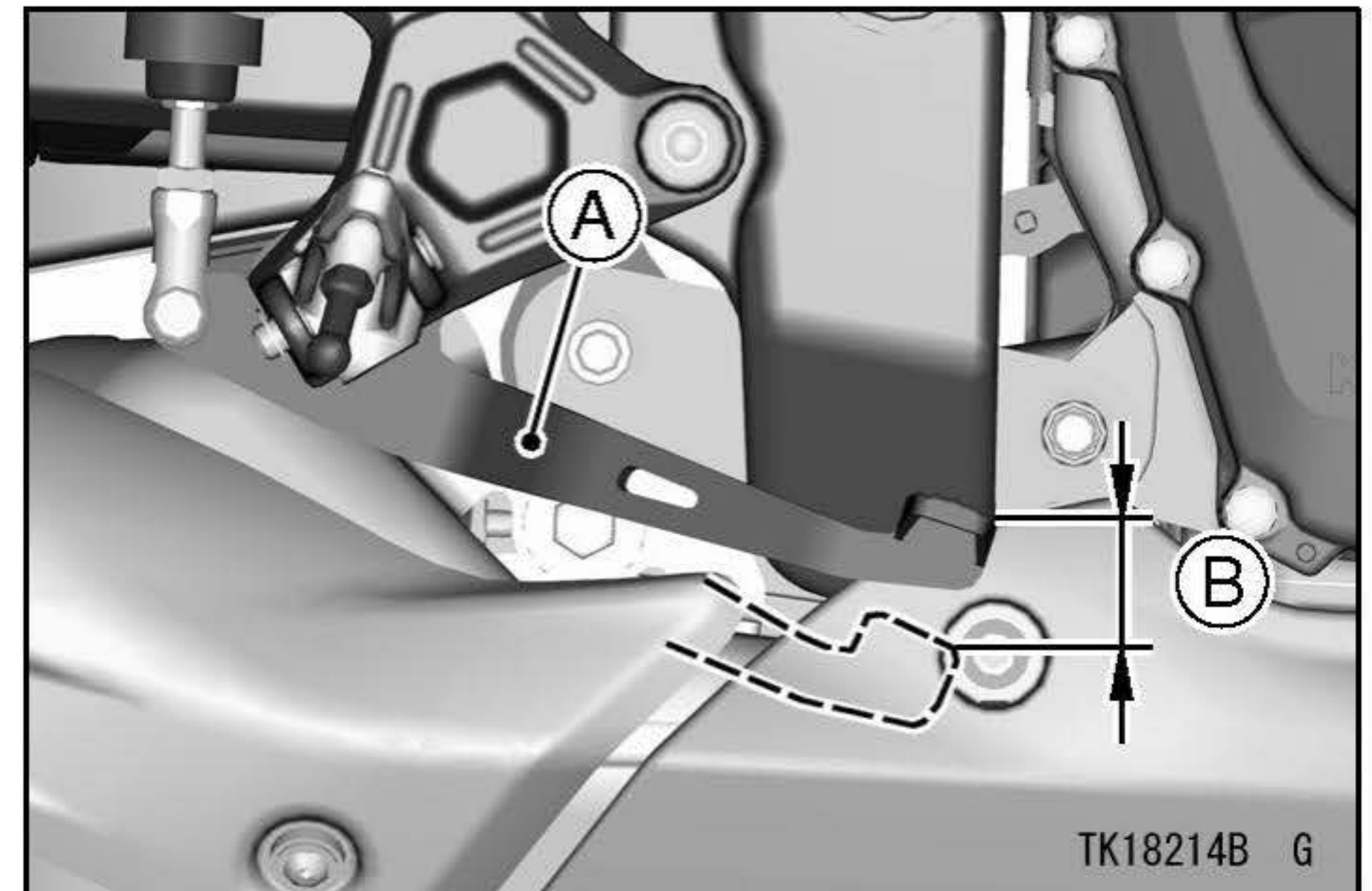
- A. Rear Brake Pads
- B. Lining Thickness
- C. Service Limit

Brake Light Switches

Brake Light Switch Inspection

- Turn the ignition switch on.
- The brake light should go on when the front brake is applied.

- If it does not, ask your authorized Kawasaki dealer to inspect the front brake light switch.
- Check the operation of the rear brake light switch by depressing the brake pedal. The brake light should go on after the proper pedal travel.



- A. Brake Pedal
- B. 7 mm (0.28 in.)

- If the light does not come on, adjust the rear brake light switch.

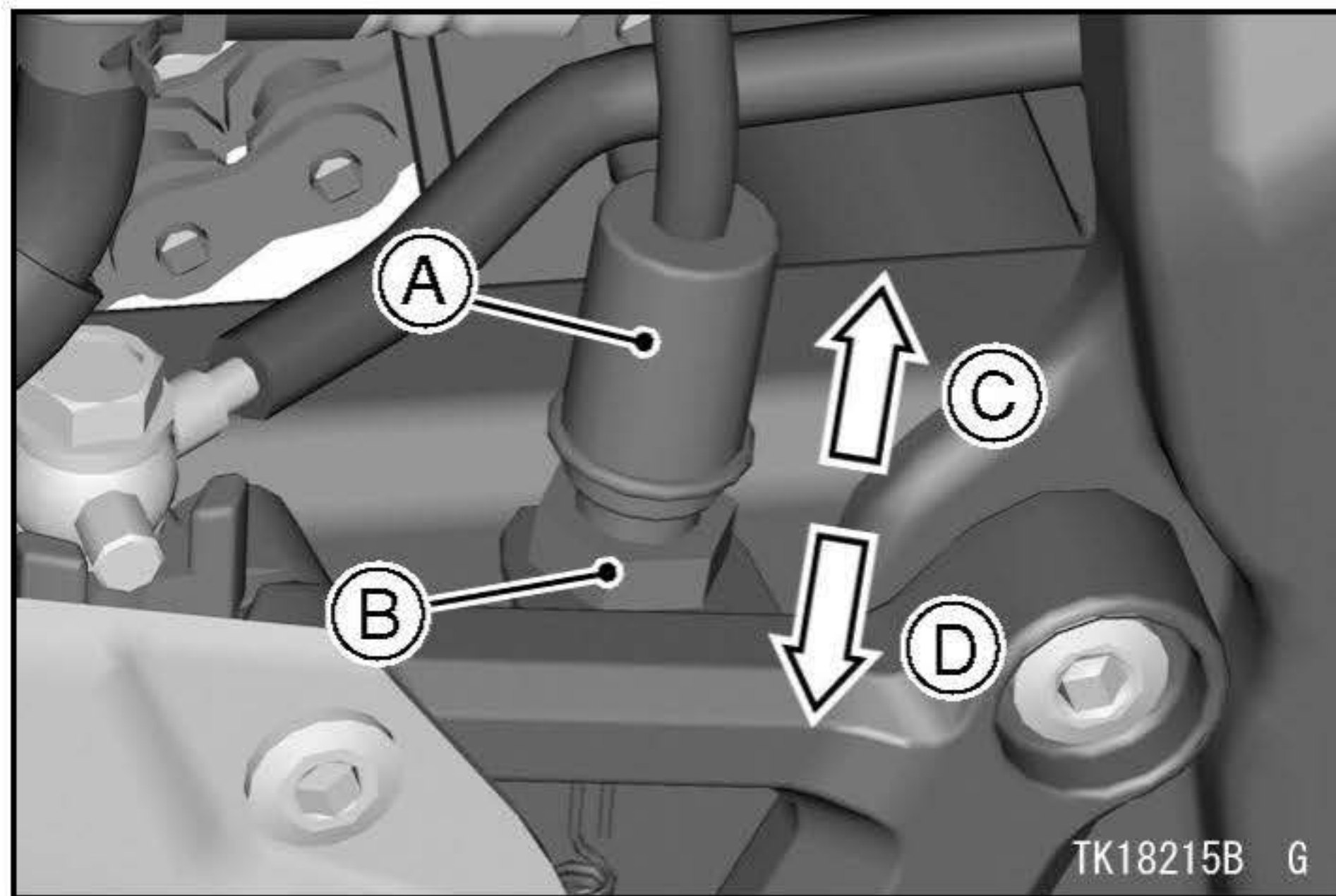
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Brake Pedal Travel

7 mm (0.28 in.)

Brake Light Switch Adjustment

- To adjust the rear brake light switch, move the switch up or down by turning the adjusting nut.



- A. Rear Brake Light Switch
- B. Adjusting Nut
- C. Lights sooner
- D. Lights later

NOTICE

To avoid damaging the electrical connections inside the switch, be sure that the switch body does not turn during adjustment.

Suspension System

Front Fork

NOTICE

After riding on the normal road, the unpaved road and in the rainy weather, clean off any dirt (grit, mud or insect etc.) that stuck to inner tube before it hardens. If the motorcycle keeps running with the dirt stuck to the inner tube, the oil seal will be damaged and it causes the oil leak.

Rear Shock Absorber

Spring Preload Adjustment

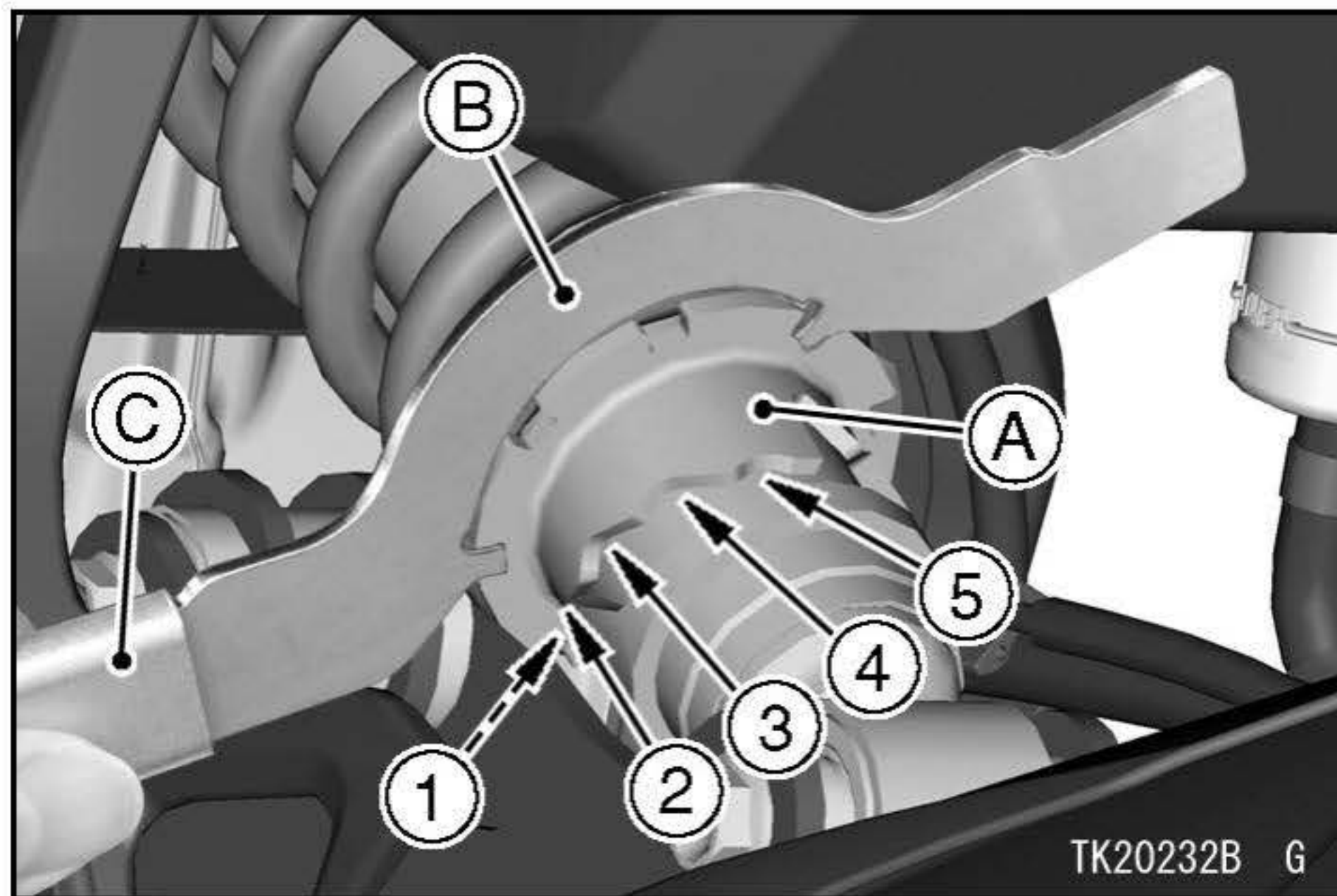
The spring preload adjuster on the rear shock absorber has 5 positions.

Standard

2nd position

- In accordance with the setting table, turn the preload adjuster with the attached wrench.

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- A. Spring Preload Adjuster
- B. Wrench
- C. Handle

Setting Table

Rear Shock Absorber Spring Preload Setting

	Softest setting limit	Standard	Hardest setting limit
Adjuster Position	1st	2nd	5th
Spring Action	Weak	←→	Strong
Setting	Soft	←→	Hard
Load	Light	←→	Heavy
Road	Good	←→	Bad
Speed	Low	←→	High

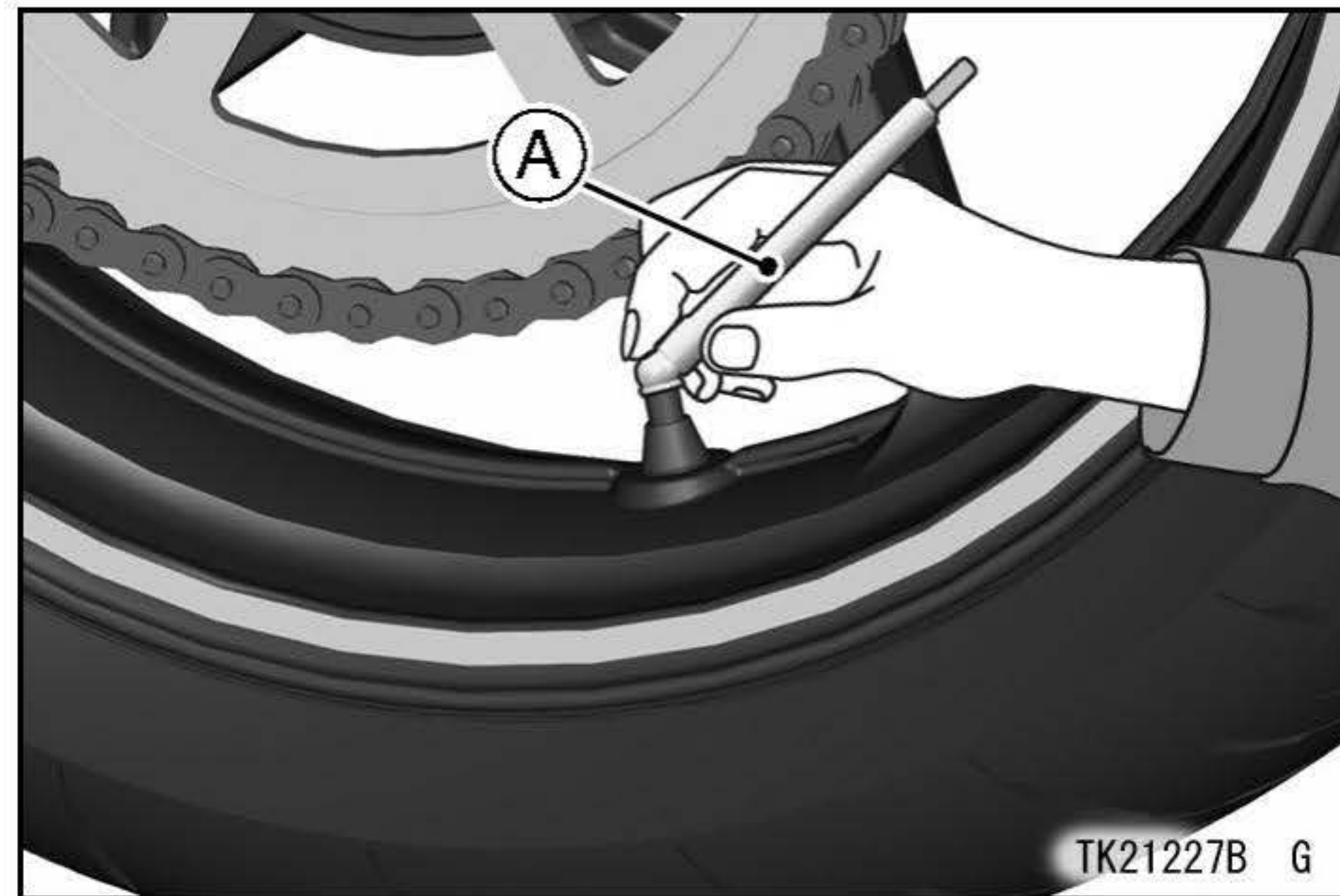
Wheels

Tire Pressure Inspection

- Remove the air valve cap.
- Check the tire pressure often, using an accurate gauge.
- Make sure to install the air valve cap securely.

NOTE

- *Measure the tire pressure when the tires are cold (that is, when the motorcycle has not been ridden more than 1.6 km (1 mile) during the past 3 hours).*
- *Tire pressure is affected by changes in ambient temperature and altitude, and so the tire pressure should be checked and adjusted when your riding involves wide variations in temperature or altitude.*



A. Tire Pressure Gauge

Tire Air Pressure (when cold)

Front	200 kPa (2.00 kgf/cm ² , 28 psi)
Rear	225 kPa (2.25 kgf/cm ² , 32 psi)

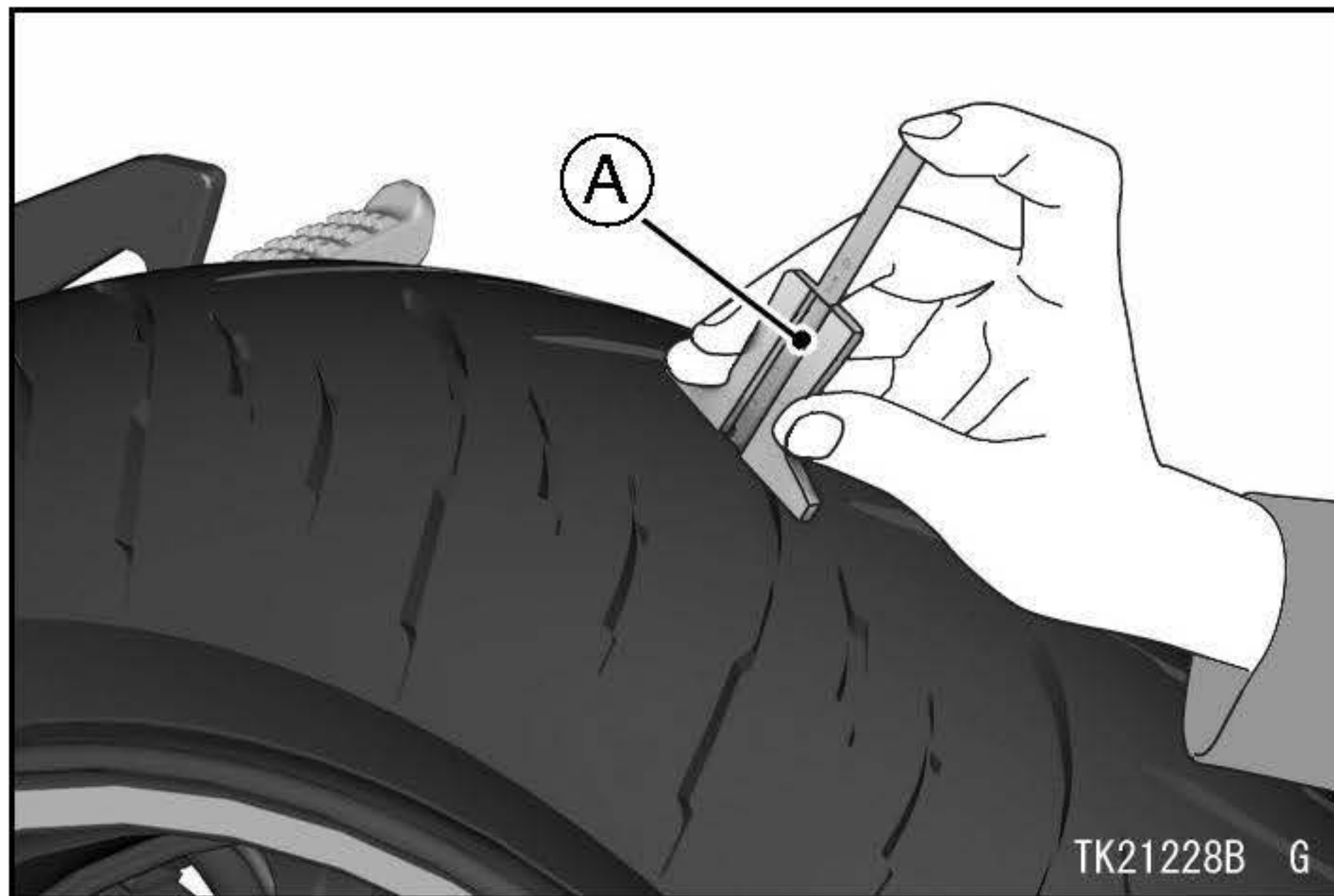
Tire Wear, Damage

As the tire tread wears down, the tire becomes more susceptible to puncture and failure. An accepted estimate is that 90% of all tire failures occur during the last 10% of tread life (90% worn).

So it is false economy and unsafe to use the tires until they are bald.

Tire Wear Inspection

- Measure the depth of the tread with a depth gauge, and replace any tire that has worn down to the minimum allowable tread depth.

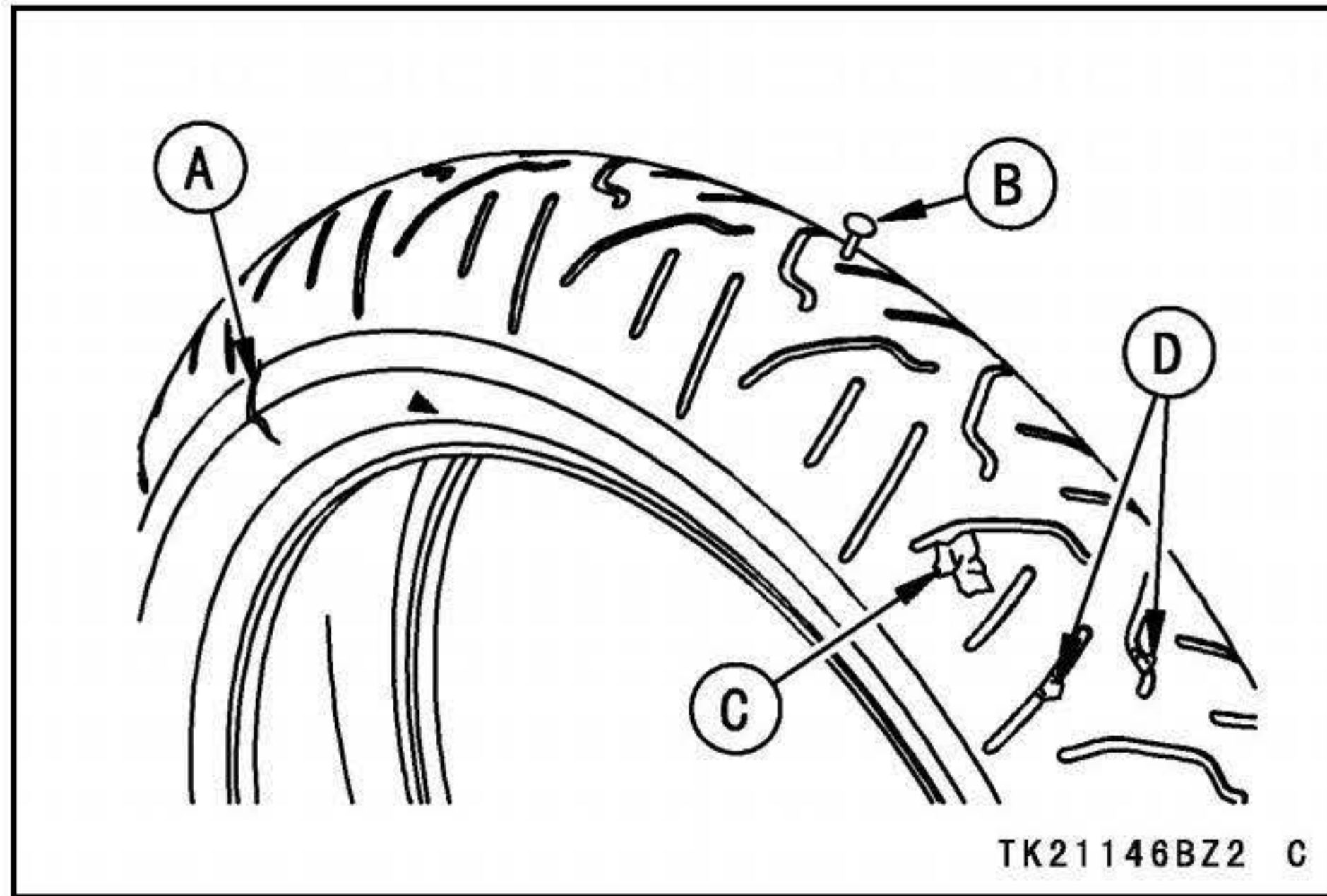


A. Tire Depth Gauge

Minimum Tread Depth

Front	—	1 mm (0.04 in.)
Rear	Under 130 km/h (80 mph)	2 mm (0.08 in.)
	Over 130 km/h (80 mph)	3 mm (0.12 in.)

- Visually inspect the tire for cracks and cuts, replacing the tire in case of bad damage. Swelling or high spots indicate internal damage, requiring tire replacement.



- A. Crack or Cut
- B. Nail
- C. Swelling or High Spot
- D. Stone

- Remove any imbedded stones or other foreign particles from the tread.

NOTE

- *Have the wheel balance inspected whenever a new tire is installed.*

! WARNING

Tires that have been punctured and repaired do not have the same capabilities as undamaged tires and can suddenly fail, causing an accident resulting in serious injury or death. Replace damaged tires as soon as possible. To ensure safe handling and stability, use only the recommended standard tires for replacement, inflated to the standard pressure. If it is necessary to ride on a repaired tire, do not exceed 100 km/h (60 mph) until the tire is replaced.

NOTE

- *Most countries may have their own regulations requiring a minimum tire tread depth; be sure to follow them.*

- *When operating on public roadways, keep maximum speed under traffic law limits.*

Standard Tire

Front	Make, Type: DUNLOP, SPORTMAX GPR -300F W Size: 110/70R17 M/C 54H
Rear	Make, Type: DUNLOP, SPORTMAX GPR -300 W Size: 150/60R17 M/C 66H

WARNING

Mixing tire brands and types can adversely affect handling and cause an accident resulting in injury or death. Always use the same manufacturer's tires on both front and rear wheels.

WARNING

New tires are slippery and may cause loss of control and injury. A break-in period of 160 km (100 miles) is necessary to establish normal tire traction. During break-in, avoid sudden and maximum braking and acceleration, and hard cornering.

Battery

The battery installed in this motorcycle is a sealed type, so it is not necessary to check the battery electrolyte level or add distilled water.

NOTICE

Never remove the sealing strip, or the battery can be damaged. Do not install a conventional battery in this motorcycle, or the electrical system cannot work properly.

Make	Yuasa Battery
Type	YTX7A-BS

Battery Maintenance

It is the owner’s responsibility to keep the battery fully charged. Failure to do

so can lead to battery failure and leave you stranded.

If you are riding your vehicle infrequently, inspect the battery voltage weekly using a voltmeter. If it drops below 12.8 volts, the battery should be charged using an appropriate charger (check with your Kawasaki dealer). If you will not be using the motorcycle for longer than two weeks, the battery should be charged using an appropriate charger. Do not use an automotive-type quick charger that may overcharge the battery and damage it.

NOTE

○*Leaving the battery connected causes the electrical components (clock etc.) to make the battery discharged, resulting the over discharge of the battery. In this case, the repair or replacement of the battery is not included in the warranty. If you do*

not drive for four weeks or more, disconnect the battery from the vehicle.

Kawasaki-recommended chargers are:

Battery Mate 150-9

OptiMate 4

Yuasa MB-2040/2060

Christie C10122S

If the above chargers are not available, use equivalent one.

For more details, ask your Kawasaki dealer.

Battery Charging

- Charge the battery following the instructions of your battery charger.
- The charger will keep the battery fully charged until you are ready to reinstall the battery in the motorcycle (see Battery Installation).

! DANGER

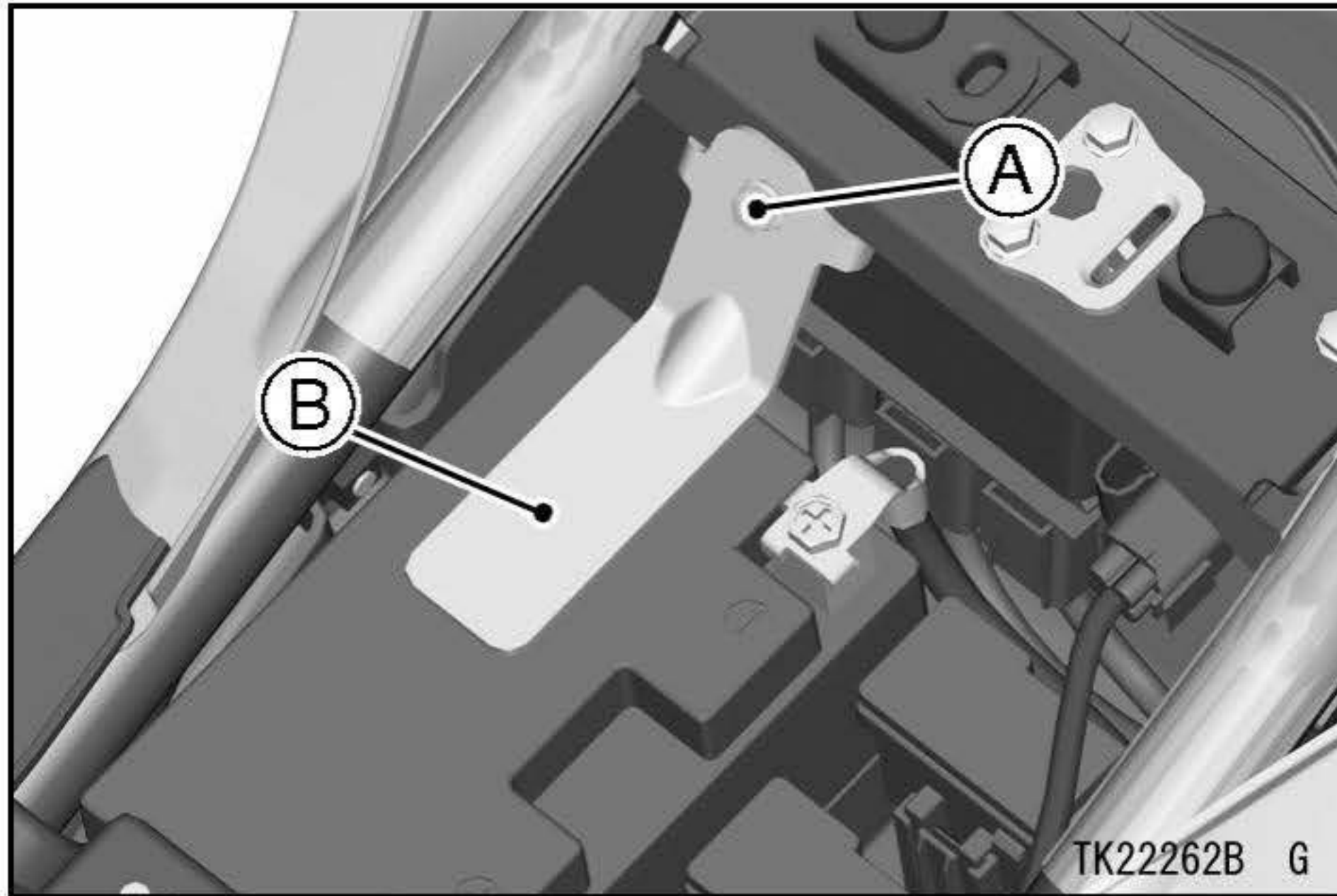
Battery acid generates hydrogen gas which is flammable and explosive under certain conditions. It is present within a battery at all times, even in a discharged condition. Keep all flames and sparks (cigarettes) away from the battery. Wear eye protection when working with a battery. In the event of battery acid contact with skin, eyes, or clothing, wash the affected areas immediately with water for at least five minutes. Seek medical attention.

Battery Removal

- Make sure the ignition switch is turned off.

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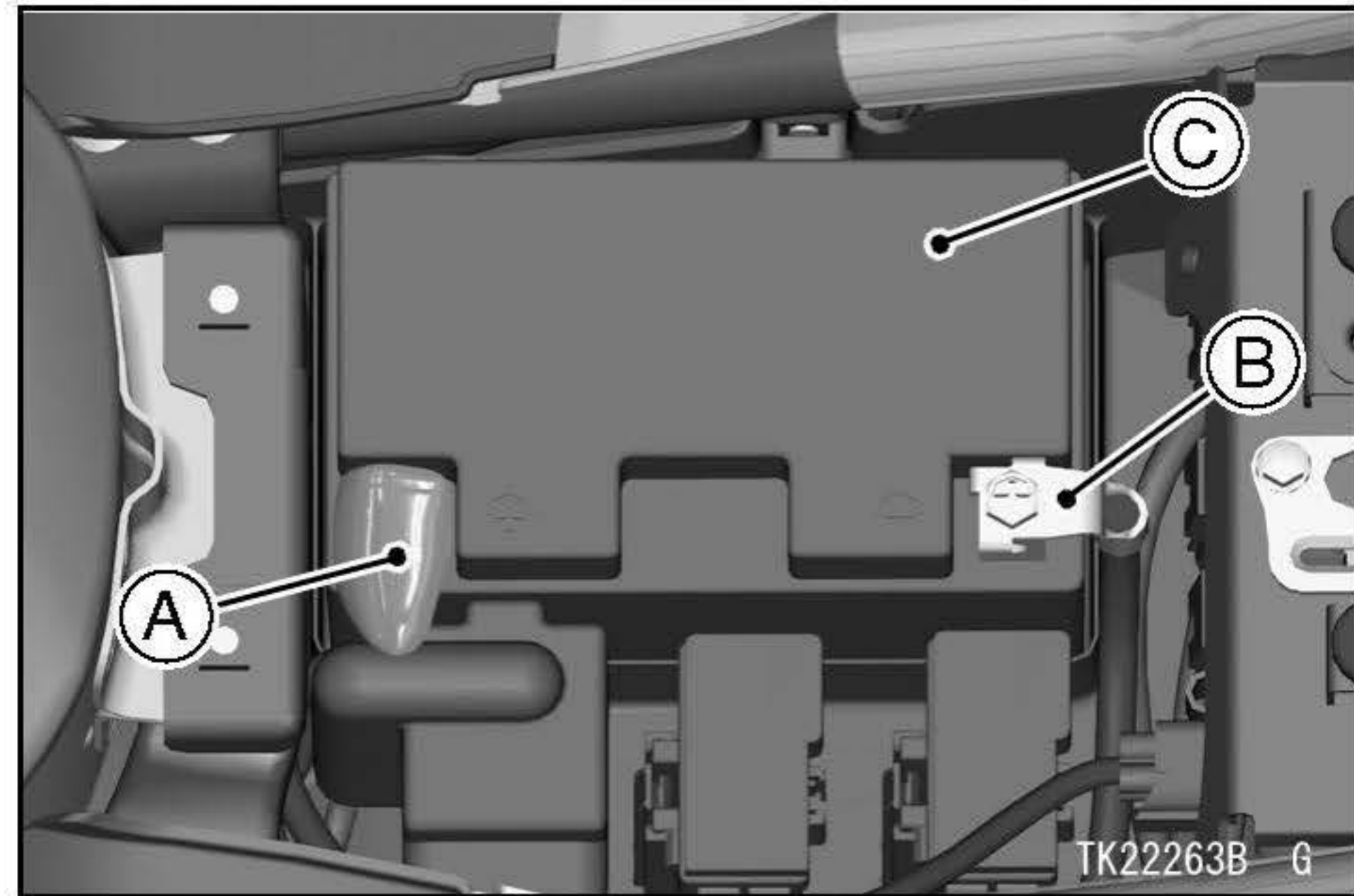
- Remove the rider's seat. Refer to the Seats section in the GENERAL INFORMATION chapter.
- Remove the bolt and the battery holder.



A. Bolt
B. Battery Holder

- Disconnect the negative (–) cable from the (–) terminal.
- Slide the red cap from the positive (+) terminal.

- Disconnect the positive (+) cable from the (+) terminal.



A. Red Cap and (+) Terminal
B. (–) Terminal
C. Battery

- Take the battery out of the battery case.
- Clean the battery using a solution of baking soda and water. Be sure that the cable connections are clean.

Battery Installation

- Place the battery in the battery case.
- Connect the positive (+) cable to the (+) terminal, and then connect the negative (–) cable to the (–) terminal.

NOTE

- *Install the battery in the reverse order of the Battery Removal.*

NOTICE

Installing the (–) cable to the (+) terminal of the battery or the (+) cable to the (–) terminal of the battery can seriously damage the electrical system.

- Put a light coat of grease on the terminals to prevent corrosion.

- Cover the (+) terminal with the red cap.
- Install the removed parts.

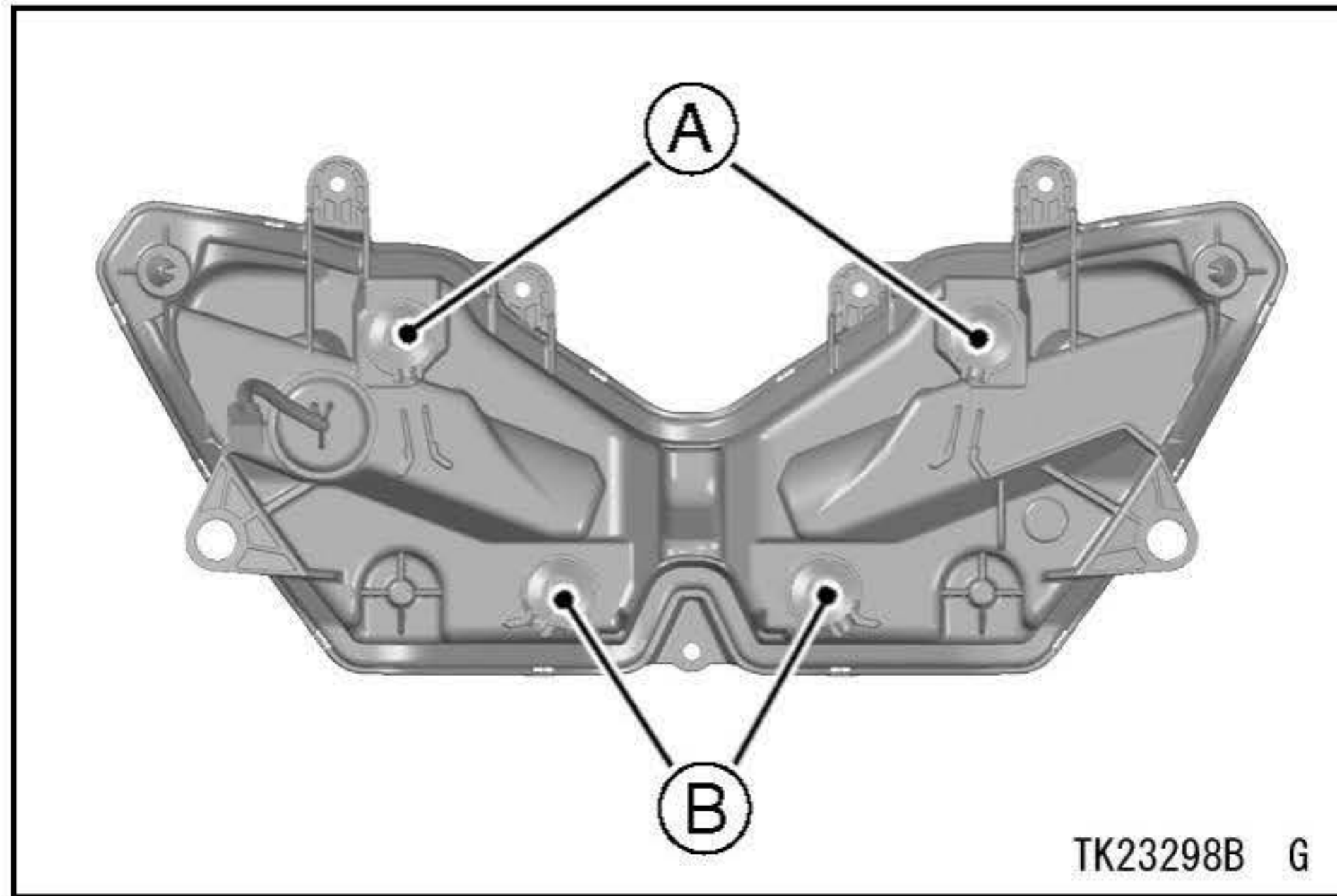
Headlight

Headlight aiming should be done by an authorized Kawasaki dealer.

Horizontal Adjustment

The headlight beam is adjustable horizontally. If not properly adjusted horizontally, the beam will point to one side rather than straight ahead.

- Turn the horizontal adjuster in or out until the beam points straight ahead.



- A. Vertical Adjusters
- B. Horizontal Adjusters

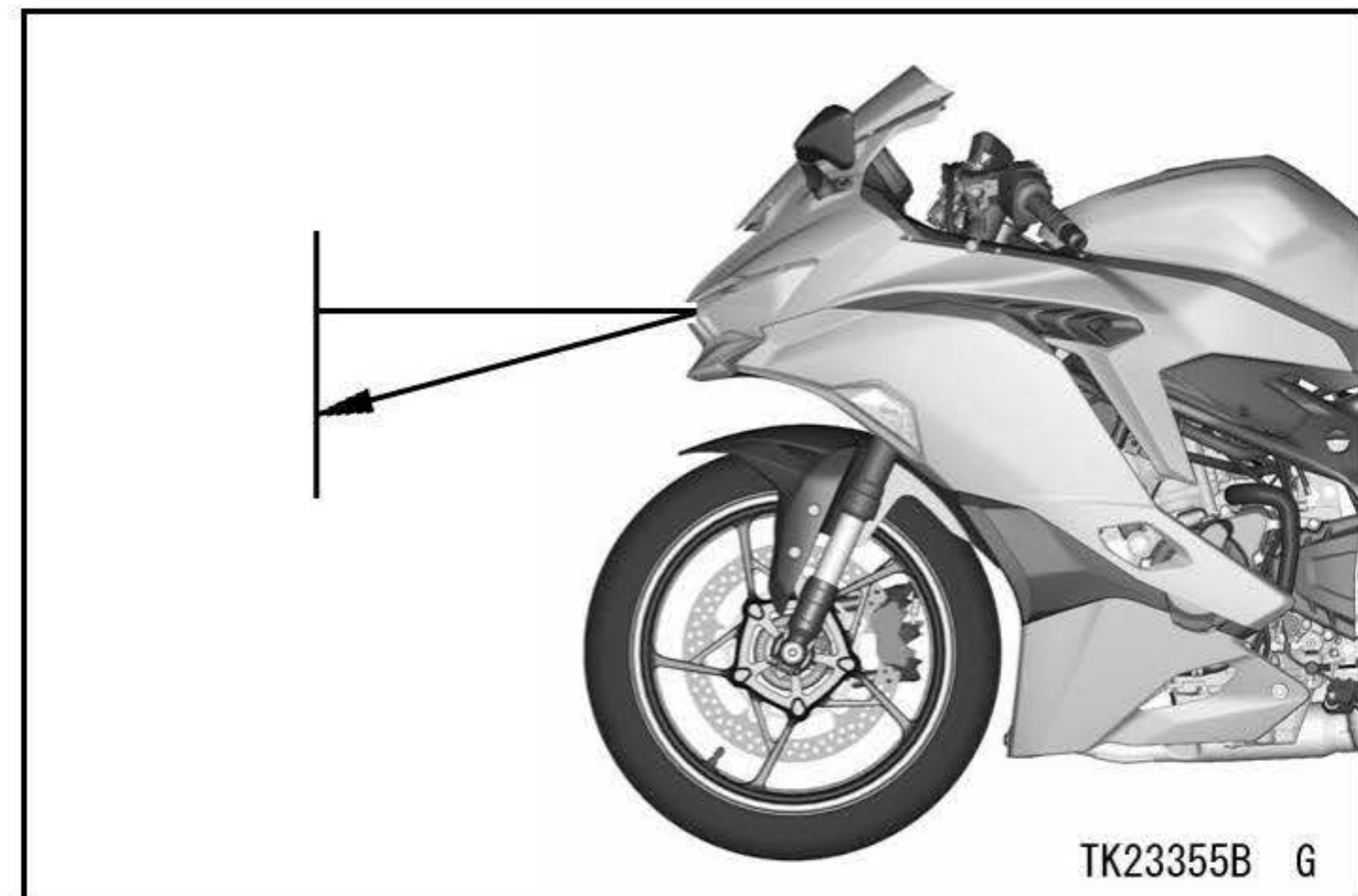
Vertical Adjustment

The headlight beam is adjustable vertically. If adjusted too low, neither low nor high beam will illuminate the road far enough ahead. If adjusted too high, the high beam will fail to illuminate the road close ahead, and the low beam will blind oncoming drivers.

- Turn the vertical adjuster in or out to adjust the headlight vertically.

NOTE

- On high beam, the brightest point should be slightly below horizontal with the motorcycle on its wheels and the rider seated. Adjust the headlight to the proper angle according to local regulations.



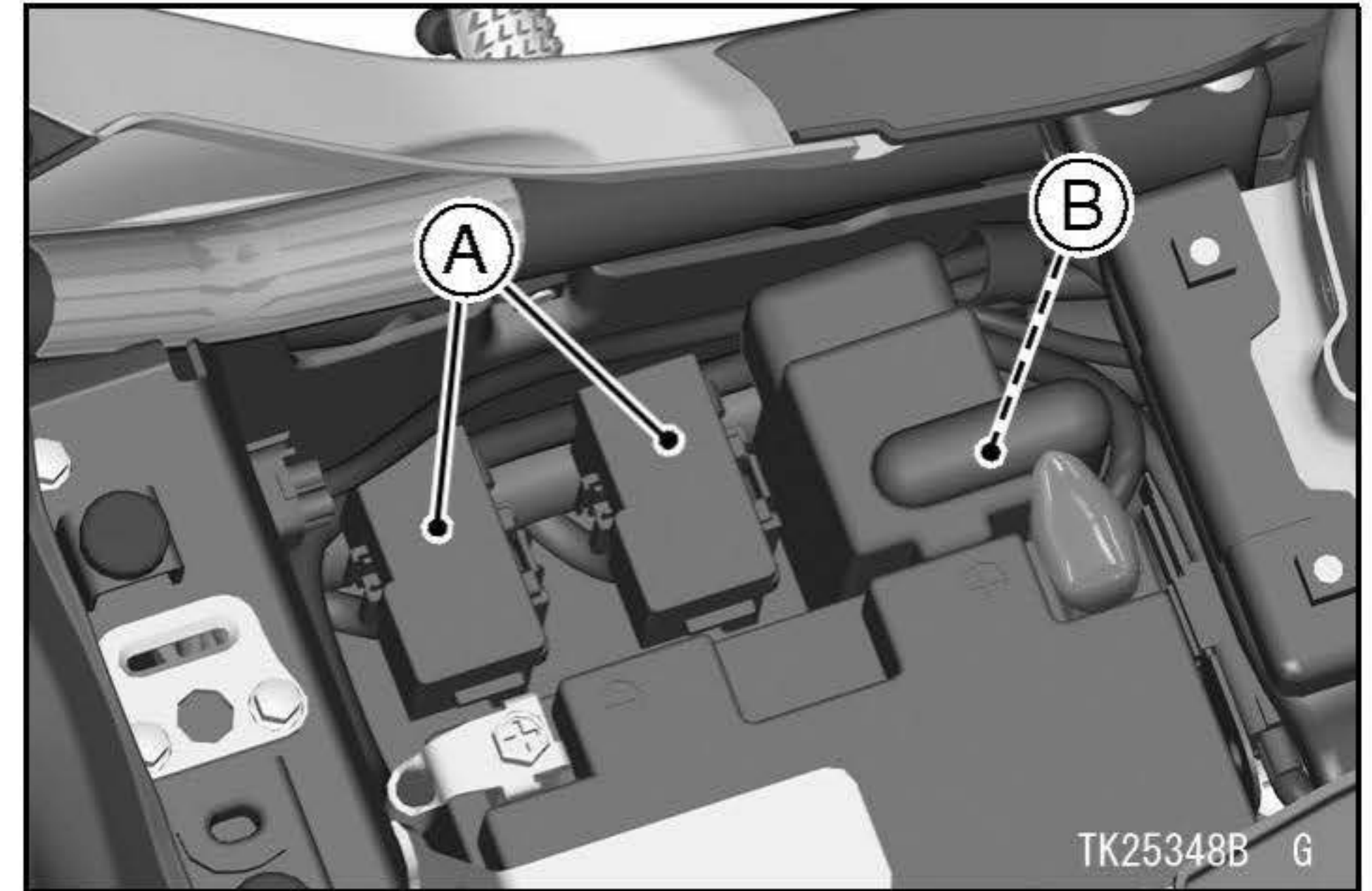
Fuses

Fuses are arranged in the fuse boxes located under the rider's seat. The

main fuse is located under the rider's seat. If a fuse fails during operation, inspect the electrical system to determine the cause, and then replace it with a new fuse of proper amperage.

If the fuse fails repeatedly, there is something wrong with the electrical system. Have the motorcycle checked by an authorized Kawasaki dealer.

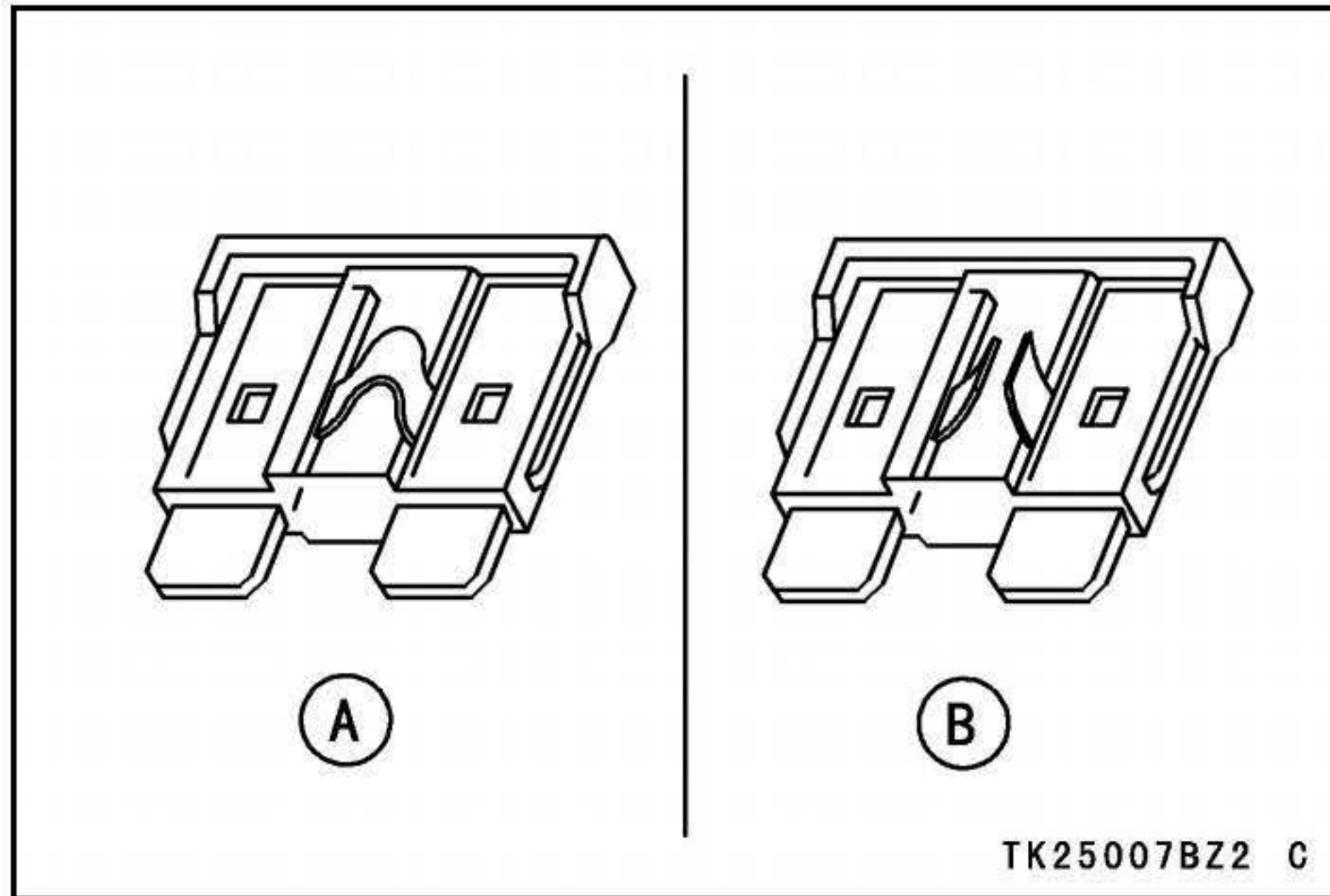
The main fuse removal should be done by an authorized Kawasaki dealer.



A. Fuse Boxes
B. Main Fuse

WARNING

Substituting fuses can cause wiring to overheat, catch fire and/or fail. Do not use any substitute for the standard fuse. Replace the blown fuse with a new one of the correct capacity, as specified on the fuse boxes and main fuse.



A. Normal
B. Failed

General Lubrication

Lubricate the points shown below, with either engine oil or regular grease, in accordance with the Periodic Maintenance Chart or whenever the vehicle has been operated under wet or rainy conditions.

Before lubricating each part, clean off any rusty spots with rust remover and wipe off any grease, oil, dirt, or grime.

Apply motor oil to the following pivots

- Side Stand
- Clutch Lever
- Front Brake Lever
- Rear Brake Pedal

Lubricate the following cables with a pressure cable luber

- (K) Clutch Inner Cables

Apply grease to the following points

- (K) Clutch Inner Cable Upper Ends

(K): Should be serviced by an authorized Kawasaki dealer.

NOTE

- *After connecting the cables, adjust them.*

Cleaning

General Precautions

Frequent and proper care of your vehicle will enhance its appearance, optimize overall performance, and extend its useful life. Covering your vehicle with a high quality, breathable vehicle cover will help protect its finish from harmful UV rays, pollutants, and reduce the amount of dust reaching its surfaces.



WARNING

Build-up of debris or flammable material in and around the vehicle chassis, engine, and exhaust can cause mechanical problems and increase the risk of fire. When operating the vehicle in conditions that allow debris or flammable material to collect in and around the vehicle, inspect the engine, electrical component and exhaust areas frequently. If debris or flammable materials have collected, park the vehicle outside and stop the engine. Allow the engine to cool, then remove any collected debris. Do not park or store the vehicle in an enclosed space prior to inspecting for build-up of debris or flammable materials.

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- Be sure the engine and exhaust are cool before washing.
- When washing the vehicle, always use a mild neutral detergent and water.
- Avoid applying all harsh chemicals, solvents, degreaser, oil remover, electrical contact cleaner, and household cleaning products such as ammonia-based window cleaners. They will damage or deteriorate painted parts, plastic parts, rubber parts and other synthetic parts including covers and headlight lens.
- Avoid applying degreaser to seals, brake pads, and tires.
- Gasoline, brake fluid, and coolant will damage the finish of painted and plastic surfaces: wash them off immediately.
- Avoid wire brushes, steel wool, and all other abrasive pads or brushes.

- Take care when washing the headlight lens and other plastic parts as they can easily be scratched.

NOTE

- *After riding in an area where the roads are salted or near the ocean, immediately wash your vehicle with cold water. Do not use warm water as it accelerates the chemical reaction of the salt. After drying, apply a corrosion protection spray on all metal and chrome surfaces to prevent corrosion.*
- *Condensation may form on the inside of the headlight lens after riding in the rain, washing the vehicle or in humid weather. To remove the moisture, start the engine and turn on the headlight. Gradually the condensation on the inside of the lens will clear off.*

Radiator

Clean off any obstructions with a stream of low-pressure water.

NOTICE

Using high-pressure water, as from a car wash facility, could damage the radiator fins and impair the radiator's effectiveness. Do not obstruct or deflect airflow through the radiator by installing unauthorized accessories in front of the radiator or behind the cooling fan. Interference with the radiator airflow can lead to overheating and consequent engine damage.

Matte Paint Parts

- When washing the vehicle, always use a mild neutral detergent and water, or cleaners for matte paint.
- The matte paint effect may be lost when the paint is excessively rubbed.
- If any doubt, consult an authorized Kawasaki dealer.

Plastic Parts

After washing, use a soft cloth to gently dry plastic parts. When dry, treat the headlight lens and other non painted plastic parts with an approved plastic cleaner/polisher product.

NOTICE

Plastic parts may deteriorate and break if they come in contact with chemical substances or household cleaning products such as gasoline, brake fluid, window cleaners, thread-locking agents, or other harsh chemicals. If a plastic part comes in contact with any harsh chemical substance, wash it off immediately with water and a mild neutral detergent, and then inspect for damage. Avoid using abrasive pads or brushes to clean plastic parts, as they will damage the part's finish.

Chrome and Aluminum

Chrome and uncoated aluminum parts can be treated with a chrome/aluminum polish. Coated aluminum

should be washed with a mild neutral detergent and finished with a spray polish. Aluminum wheels, both painted and unpainted can be cleaned with special non-acid based wheel spray cleaners.

Leather, Vinyl, and Rubber

If your vehicle has leather accessories, special care must be taken. Use a leather cleaner/treatment to clean and care for leather accessories. Washing leather parts with detergent and water will damage them, shortening their life.

Vinyl parts should be washed with the rest of the vehicle, then treated with a vinyl treatment.

The sidewalls of tires and other rubber components should be treated with a rubber protectant to help prolong their useful life.

Where to be Careful

Avoid spraying water with any great force near the following places.

- Disc brake master cylinder and caliper.
- Under the rider's seat - if water gets into the fuse box or battery, it can ground out the spark. When this happens the vehicle will not operate properly and the affected parts must be wiped dry.

NOTICE

Coin operated, high pressure spray washers are not recommended. Water may be forced into bearings and other components causing eventual failure from rust and corrosion. Some soaps are highly alkaline and may leave a residue or cause spotting.

NOTE

- *Abrasive cleanser or high pressure washer will damage the surface finish on the bodywork.*

Washing Your Vehicle

- Before washing, precautions must be taken to keep water off the following parts.

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Muffler rear opening - cover with a plastic bag.

Ignition switch - cover the keyhole with tape.

- Rinse your vehicle with cold water from a garden hose to remove any loose dirt.
- Mix a mild neutral detergent (designed for motorcycles or automobiles) and water in a bucket. Use a soft cloth or sponge to wash your vehicle.
- After washing, rinse your vehicle thoroughly with clean water to remove any residue (residue from the

detergent can damage parts of your vehicle).

- Remove the plastic bag and tape.
- Use a soft cloth to dry your vehicle. As you dry, inspect your vehicle for chips and scratches. Do not let the water air dry as this can damage the painted surfaces.
- Carefully ride your vehicle at a slow speed and apply the brakes several times. This helps dry the brakes and restores them to normal operating performance.

APPENDIX

Storage

Whenever your motorcycle will not be in use for a long period, proper storage is essential.

It consists of checking and replacing missing or worn parts; lubricating parts to ensure that they do not corrode and, in general, preparing the motorcycle so that when the time comes to use it again, it will be in top condition.

See your authorized Kawasaki dealer for this service or do the following.

Preparation for Storage

Make sure the area is well ventilated and free from any source of flame.

DANGER

Exhaust gas contains carbon monoxide, a colorless, odorless poisonous gas. Inhaling carbon monoxide can cause serious brain injury or death. DO NOT run the engine in enclosed areas. Operate only in a well-ventilated area.

 WARNING

Gasoline is extremely flammable and can be explosive under certain conditions, creating the potential for serious burns.

- Turn the ignition key off.
- Do not smoke.
- Make sure the area is well ventilated and free from any source of flame or sparks; this includes any appliance with a pilot light.

 WARNING

Gasoline is a toxic substance. Dispose of gasoline properly. Contact your local authorities for approved disposal methods.

- Clean the entire vehicle thoroughly.
- Run the engine for about five minutes to warm the oil, shut it off, and drain the engine oil. (see Engine Oil section in the MAINTENANCE AND ADJUSTMENT chapter)

 WARNING

Engine oil is a toxic substance. Dispose of used oil properly. Contact your local authorities for approved disposal methods or possible recycling.

- Put in fresh engine oil.
- Empty the fuel from the fuel tank using a pump or syphon.
- Remove the spark plugs and add fogging oil into the combustion chambers. If the spark plugs cannot be removed, take the motorcycle to an authorized Kawasaki dealer.
- Set the motorcycle on a stand so that both wheels are raised off the ground. (If this cannot be done, put boards under the front and rear wheels to keep dampness away from the tire rubber.)
- Spray oil on all unpainted metal surfaces to prevent rusting. Avoid getting oil on rubber parts or in the brakes.
- Lubricate the drive chain and all the cables.
- Remove the battery, and store it where it will not be exposed to direct sunlight, moisture, or freezing temperatures. During storage it should be given a slow charge (one ampere or less) about once a month. Keep the battery well charged especially during cold weather.
- Tie plastic bag over the muffler to prevent moisture from entering.
- Put a cover over the motorcycle to keep dust and dirt from collecting on it.

Preparation after Storage

- Remove the plastic bag from the muffler.
- Charge the battery if necessary and install the battery in the motorcycle.
- Fill the fuel tank with fresh fuel.
- Check all the points listed in the Daily Checks section.
- Lubricate the pivots, bolts, and nuts.

Troubleshooting Guide

If any warning indicators go on or blink, see the General Information for proper action. The following trouble shooting guide may also help you in case you experience any of the listed problems. If these checks don't help you to solve the situation, consult an authorised Kawasaki dealer.

If the starter turns but the engine does not start:

- Try turning the ignition key off and on again.
- Check the fuel level in the tank.
- Try refilling with fresh fuel if the vehicle has been stored for a while.
- Check the battery voltage.
- Check the immobilizer key does not have anything attached which could prevent communication in the immobilizer system, such as spare key, other vehicle key, or any metal parts.

If the starter does not turn:

- Check the ignition key is switched on.
- Check the engine stop switch.
- Check the transmission is in neutral.
- Check the battery voltage.
- Check the battery terminals are tightly attached.
- Check the fuse.

If the engine stalls:

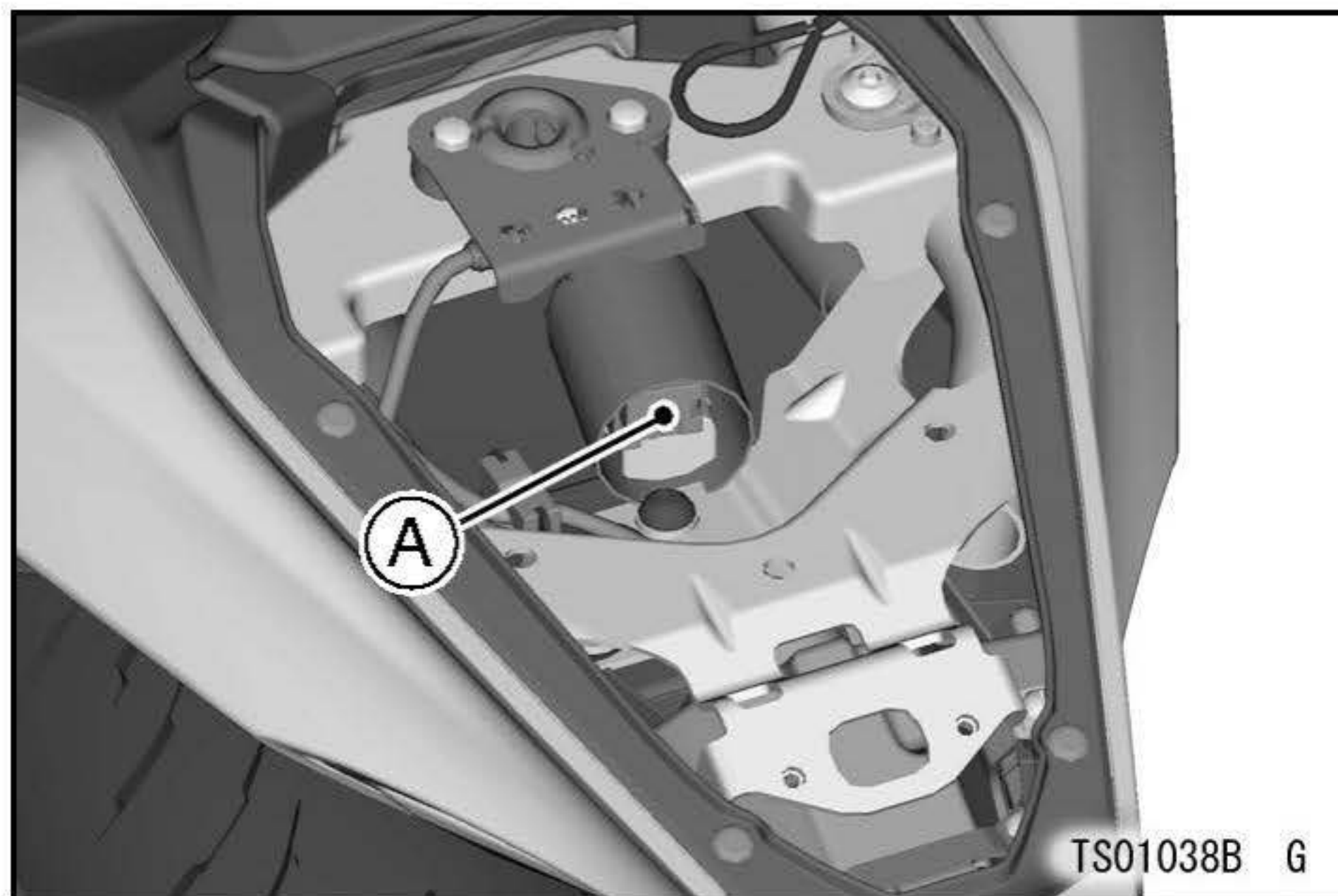
- Check the clutch is engaged/disengaged correctly.
- Check the side stand is up.
- Check the engine is warmed up enough.
- Check the fuel level in the tank.
- Try refilling with fresh fuel if the vehicle has been stored for a while.
- Check the idling speed is not too low.

Environmental Protection

To help preserve the environment, properly discard used batteries, tires, oils and fluids, or other vehicle components that you might dispose of in the future. Consult your authorized Kawasaki dealer or local environmental waste agency for their proper disposal procedure. This also applies to disposal of the entire vehicle at the end of its life.

Location of DFI System Diagnostic Connector

The DFI system diagnostic connector is located under the passenger's seat lock bracket.



A. DFI System Diagnostic Connector

Vehicle Data Recordings

This vehicle's ECU stores certain data to assist in problem diagnosis, and for other purposes such as periodic technical inspection, regulatory compliance, and research and development.

Although the recorded data varies according to the vehicle model and region, the main information types are as follows:

- Data about the vehicle's status and settings.
- Performance of the engine and electric control equipment on the engine and chassis.
- Information related to the fuel injection system and emissions.

The vehicle's ECU does not record conversations or images.

This data can only be collected when the Kawasaki special diagnostic tool is connected to the vehicle, such as when maintenance checks or other service procedures are performed.

The acquired information will not be disclosed to a third party except in following cases:

- With the consent of the vehicle owner or user
- In case of a legal request by a government agency or judicial body
- For various research purposes using processed information that do not identify the vehicle owner, user, or individual vehicle.

MAINTENANCE RECORD

Owner Name.....

Address

Phone Number

Engine Number

Vehicle Number.....

Key Code

Selling Dealer Name

Phone Number

Warranty Start Date

Note: Keep this information and a spare key in a secure location.

Date	Odometer Reading	Maintenance Performed	Dealer Name	Dealer Address

ZX250EN/FN/GN



Kawasaki Heavy Industries, Ltd. Motorcycle & Engine Company

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GB