





## ABS Check

Refer to the description after the following general flow for details of each step.

Step	Action	Yes	No
<b>1</b>	<b>Malfunction analysis</b> 1) Perform <a href="#">Customer Complaint Analysis</a> . 2) Perform <a href="#">Problem Symptom Confirmation</a> . 3) Perform <a href="#">DTC Check, Record and Clearance</a> and recheck DTC.  <i>Is the same DTC detected again after performing the DTC clearance?</i>	Inspect and repair referring to the applicable DTC troubleshooting, and then go to Step 6.	Go to Step 2.
<b>2</b>	<b>Visual inspection</b> 1) Perform <a href="#">Visual Inspection</a> .  <i>Is there any faulty condition?</i>	Repair or replace the malfunction part, and then go to Step 6.	Go to Step 3.
<b>3</b>	<b>Riding test</b> 1) Perform <a href="#">Riding Test</a> .  <i>Is the malfunction detected?</i>	Repair or replace the malfunction part, and then go to Step 6.	Go to Step 4.
<b>4</b>	<b>Brakes diagnosis</b> 1) Inspect and repair the ABS.   <i>Is the malfunction detected?</i>	Repair or replace the malfunction part, and then go to Step 6.	Go to Step 5.
<b>5</b>	<b>Intermittent problem check</b> 1) Check for intermittent troubles.   <i>Is the malfunction detected?</i>	Repair or replace the malfunction part, then go to step 6.	Go to Step 6.
<b>6</b>	<b>Final confirmation test</b> 1) Perform <a href="#">Final Confirmation Test</a> .  <i>Does the trouble recur?</i>	Go to Step 4.	End.

## Customer Complaint Analysis

Record details of the problem (failure, complaint) and how it occurred as described by the customer. For this purpose, use of such a questionnaire form as shown in the following table will facilitate collecting the information to the point required for the proper analysis and diagnosis.

**EXAMPLE: CUSTOMER PROBLEM INSPECTION FORM**

User name:	Model:	VIN:	Date of issue:
Date Reg.	Date of problem:	Mileage:	

PROBLEM SYMPTOMS	
ABS operation	Past malfunctions and repairs
ABS does not work	
ABS works so often with	
Too long stopping distance	
Other	

CONDITION WHEN MALFUNCTION OCCURRED	
ABS indicator light	Riding conditions
Does not light up	While stopping
Lights up	Over 5 km/h (3.1 mile/h)
Goes off after running over 5 km/h (3.1 mile/h): Yes / No	When turning
Flashes	Others
Tires	Brake operating conditions
Abnormal air pressure	Usual braking
Less thread depth	Quick/hard braking
No specified tires installed	
	Interface
Road surface	Too big pulsations at brake lever and pedal
Paved road:	Too large brake lever and pedal strokes
Dry / Wet / Others	Others
Unpaved road:	
Gravel / Muddy / Uneven / Others	Others
	Abnormal noise from the ABS control unit/HU
	Skid noise from the calipers
	Vibration at the brake lever and pedal
NOTE:	

**NOTE:**

This form is a standard sample. The form should be modified according to conditions and characteristic of each market.

## Problem Symptom Confirmation

If a symptom in "Customer Questionnaire" is found or reproduced in the vehicle, confirm the symptom is problem or not. (This step should be done with the customer if possible.) Check the ABS indicator light.

## DTC Check, Record and Clearance

Perform [DTC \(Diagnostic Trouble Code\) Output](#) procedure, record it and then clear it.

Recheck DTC.

**NOTE:**

After deleting the DTC, perform [Riding Test](#) and then recheck the DTC.

## Riding Test

Ride the motorcycle at more than 30 km/h (19 mile/h) and quickly apply the brakes to check that

the ABS activates correctly.

### **Final Confirmation Test**

Confirm that the problem symptom is not observed any more and ABS is free from any abnormal conditions. If what has been repaired is related to the malfunction DTC, clear the DTC referring to [\*\*DTC \(Diagnostic Trouble Code\) Deleting\*\*](#) and perform test riding and confirm that the DTC is not indicated.