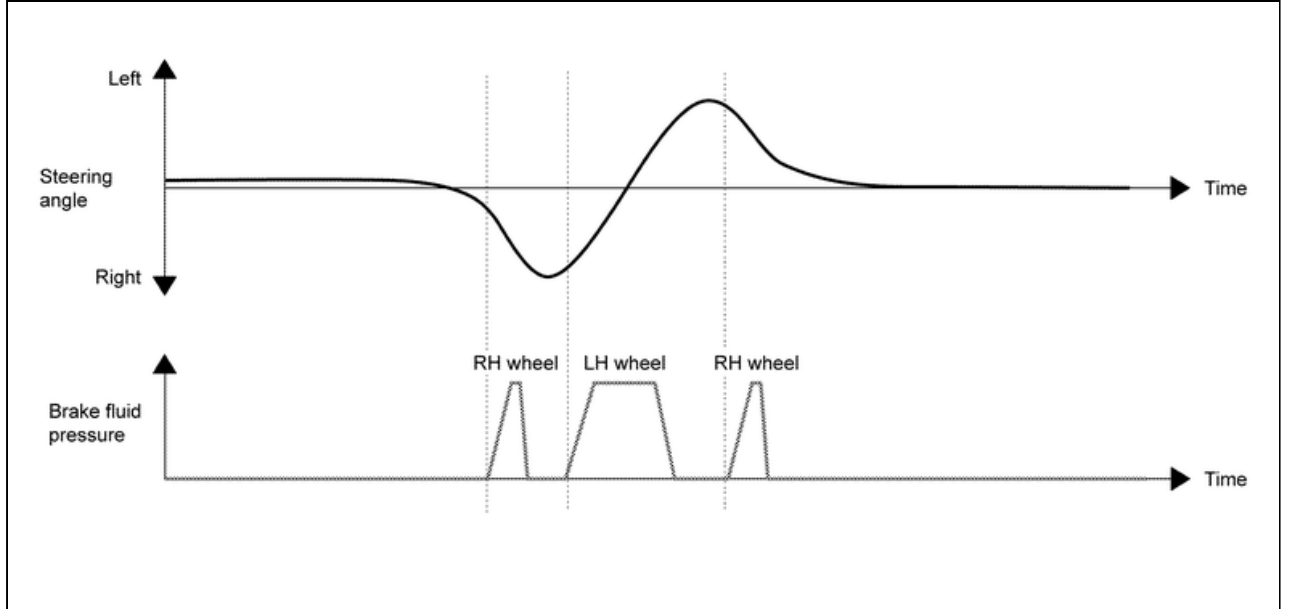


Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

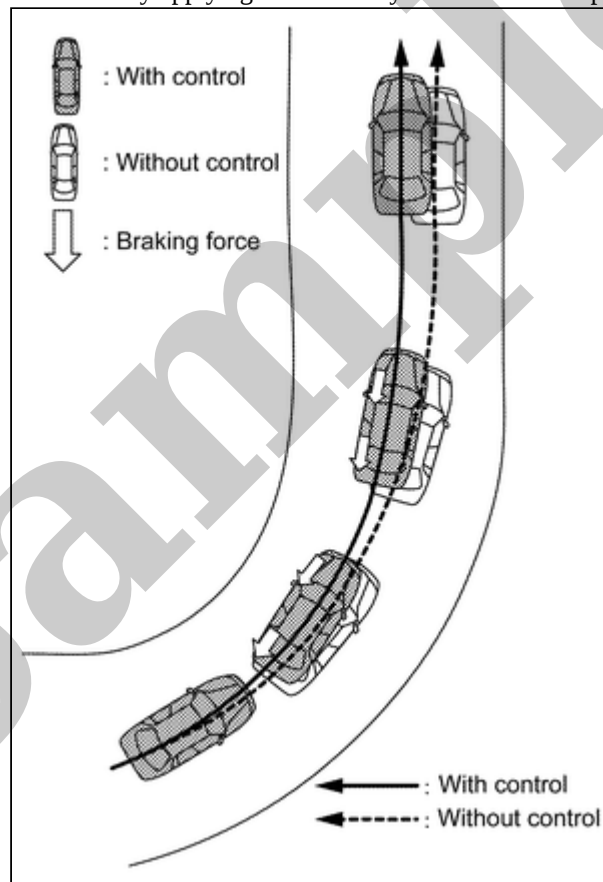
2018 Nissan Leaf Service Manual & Repair Guide

[Go to manual page](#)



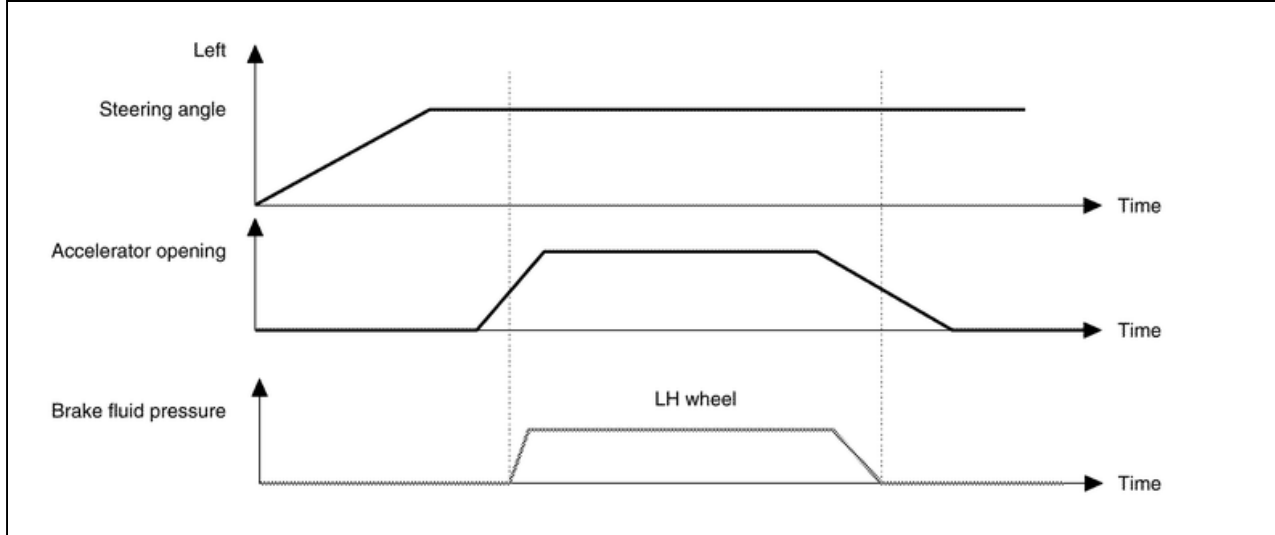
SIEMD-7267328-MD-16360732304770-04-000283986On-9829E732-000283986

- Acceleration at corners - Restrains understeer by applying the necessary amount of brake pressure to the inner wheels.



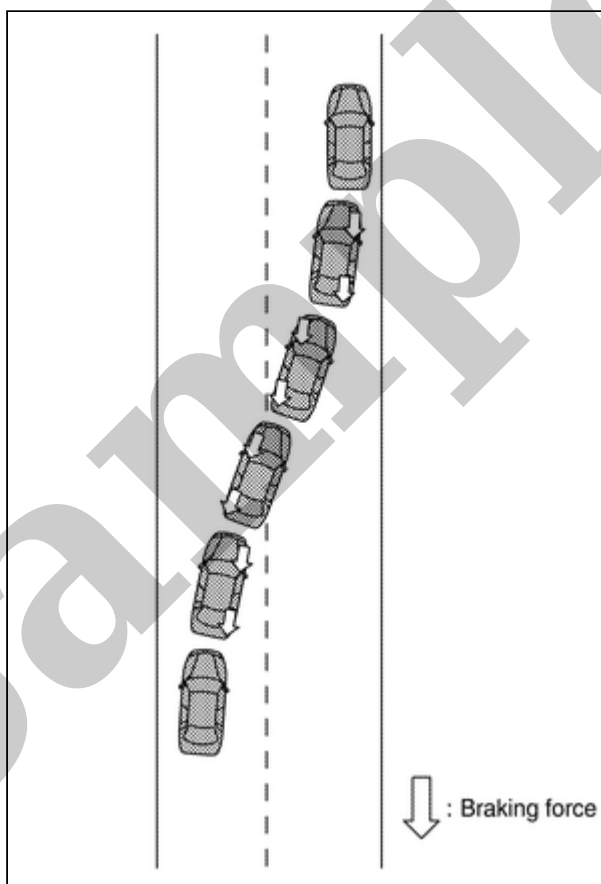
SIEMD-7267328-MD-16360732304770-05-000328122On-9829E74F-000328122

- The brake is controlled according to the steering operation condition of the driver and the cornering condition of the vehicle.



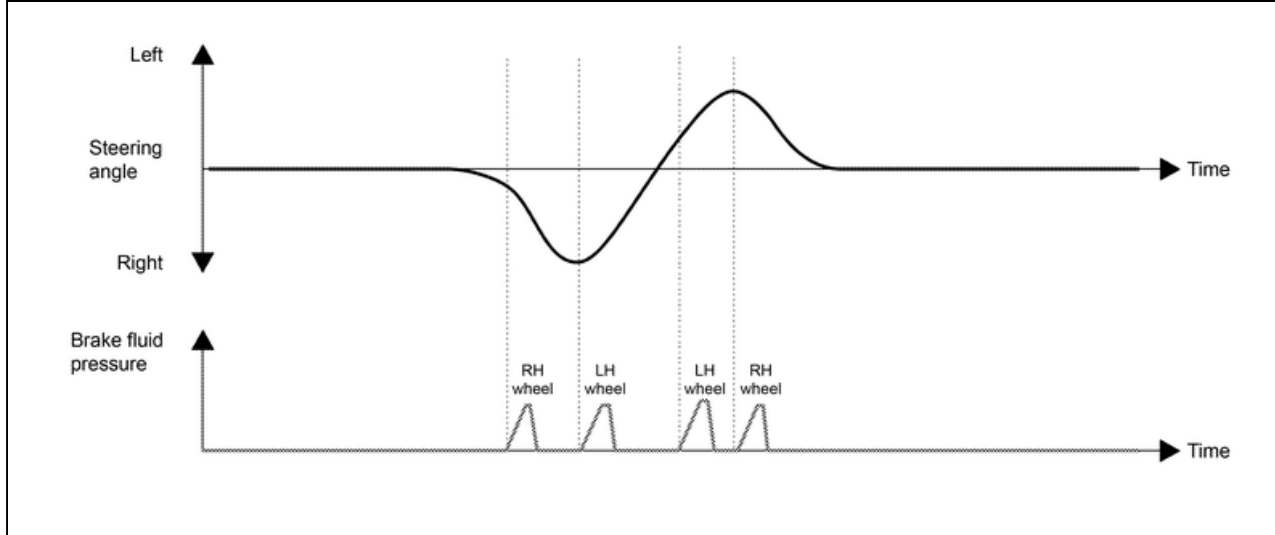
SIEMD-7267328-MD-16360732304770-06-SOIA1453GBO-9829E76A-SOIA1453GB

- Quick lane change - achieves stable vehicle behavior at quick steering operation by applying the necessary amount of brake pressure to the appropriate wheels



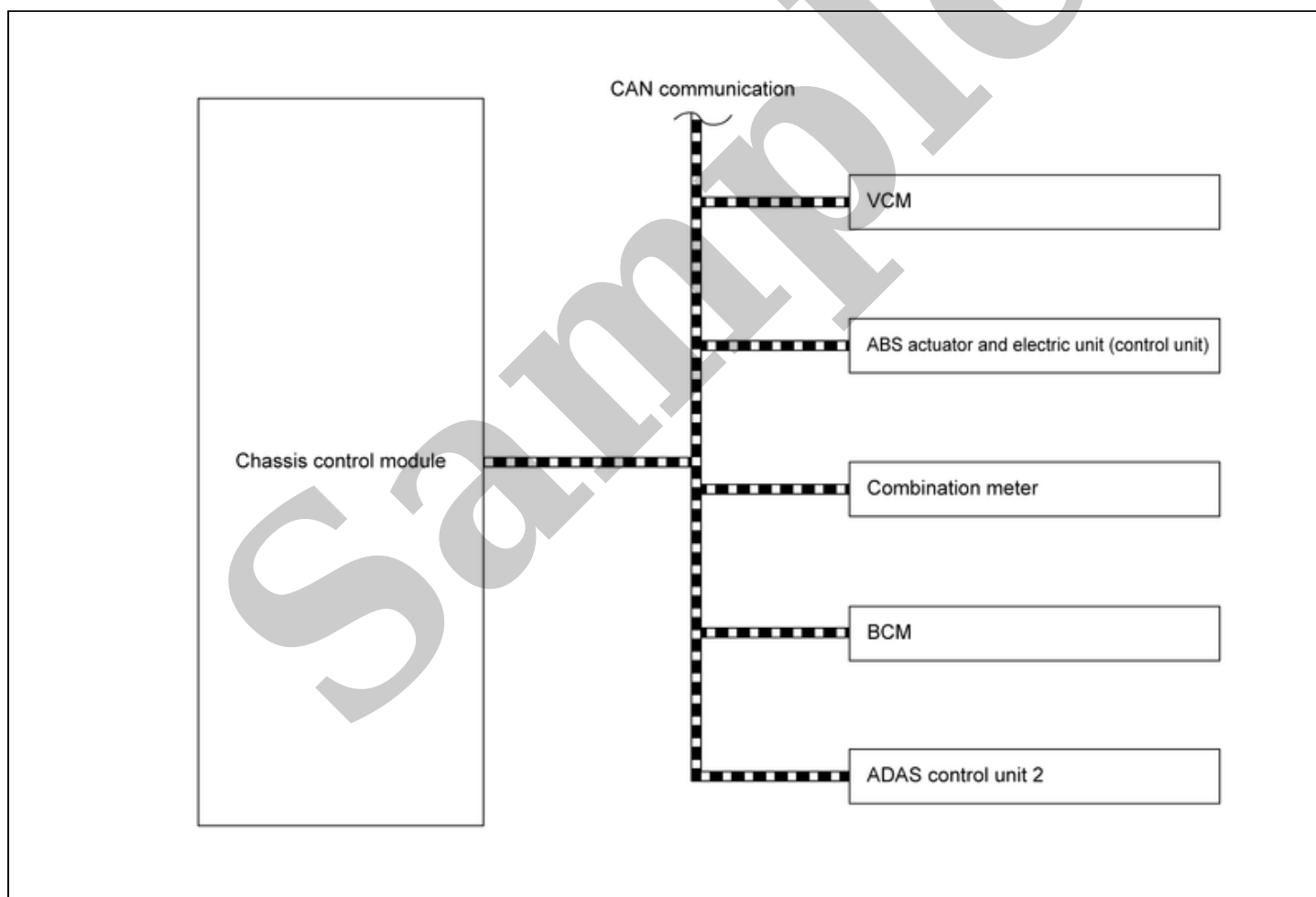
SIEMD-7267328-MD-16360732304770-07-SOIA1454GBO-9829E786-SOIA1454GB

- The brake is controlled according to the steering operation condition of the driver and the cornering condition of the vehicle.



SIEMD-7267328-MD-16360732304770-08-SOIA2107GBO-9829E7A5-SOIA2107GB

SYSTEM DIAGRAM



SIEMD-7267328-MD-16360732304770-09-000382342On-9829E7C1-000382342

INPUT SIGNAL AND OUTPUT SIGNAL

Major signal transmission between each unit via communication lines is shown in the following table.

Component parts	Signal description
VCM	<p>Mainly transmits the following signals to chassis control module via CAN communication.</p> <ul style="list-style-type: none"> • Accelerator pedal position signal • Estimate drive torque signal
ABS actuator and electric unit (control unit)	<p>Mainly transmits the following signals to chassis control module via CAN communication.</p> <ul style="list-style-type: none"> • Vehicle speed signal • Rear LH wheel speed signal • Front LH wheel speed signal • Rear RH wheel speed signal • Front RH wheel speed signal • Steering angle sensor signal • Side G sensor signal • Brake fluid pressure signal • Regenerative brake signal • VDC status signal • VDC operation signal • TCS operation signal • Driver brake signal • VDC OFF signal • ABS malfunction signal • TCS malfunction signal • VDC malfunction signal <p>Mainly receives the following signals from chassis control module via CAN communication.</p> <ul style="list-style-type: none"> • Brake torque request signal • Yaw moment request signal • Stop lamp cancel request signal
Combination meter	<p>Mainly transmits the following signals to chassis control module via CAN communication.</p> <ul style="list-style-type: none"> • Intelligent trace control setting signal <p>Mainly receives the following signals from chassis control module via CAN communication.</p> <ul style="list-style-type: none"> • Meter display signal
BCM	<p>Mainly transmits the following signals to chassis control module via CAN communication.</p>

Component parts	Signal description
	<ul style="list-style-type: none"> • Stop lamp malfunction signal
ADAS control unit 2	<p>Mainly transmits the following signals to chassis control module via CAN communication.</p> <ul style="list-style-type: none"> • Brake torque request signal • Yaw moment request signal

AWD MODELS

- This function senses driving based on the driver's steering and acceleration/braking patterns, and controls brake pressure, driving torque control, and driving torque distribution control at individual wheels to aid tracing at corners and help smooth vehicle response.
- When cornering, driver operation is reduced and vehicle behavior is smoothened.
- The intelligent trace control function can be turned ON/OFF by operating the steering switch. (Even if the intelligent trace control function is turned OFF, driving torque distribution control will not be turned OFF. This ON/OFF function is for the customers who feel control is unnecessary, but driving torque distribution control cannot be felt unnecessary.)
- Amount of brake control is changed based on drive mode select switch.
- When the turn OFF the VDC function, intelligent trace control function is also turned OFF. (Even if the VDC is turned OFF to escape muddy or snowy roads, driving torque distribution control will not be turned OFF to ensure traction.)
- When intelligent trace control function is not functioning properly, the master warning lamp illuminates, and warning message will also appear on information display.

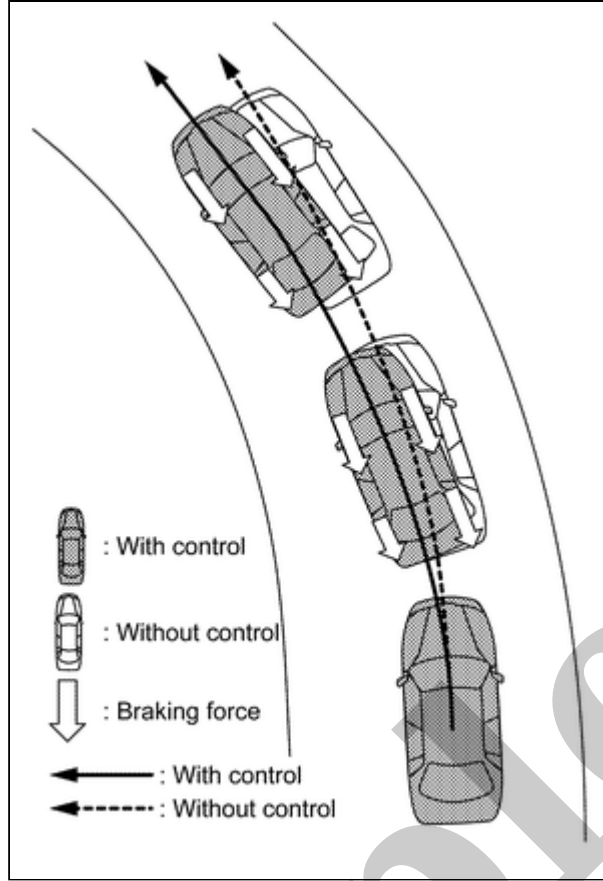


NOTE:

- **Intelligent trace control function is not always activated in any driving conditions.**
- **When the intelligent trace control function is activated, the driver may feel some vibration on the brake pedal, hear operating sound, or have feel of the deceleration. This is not a malfunction because it is caused by intelligent trace control function that is normally operated.**

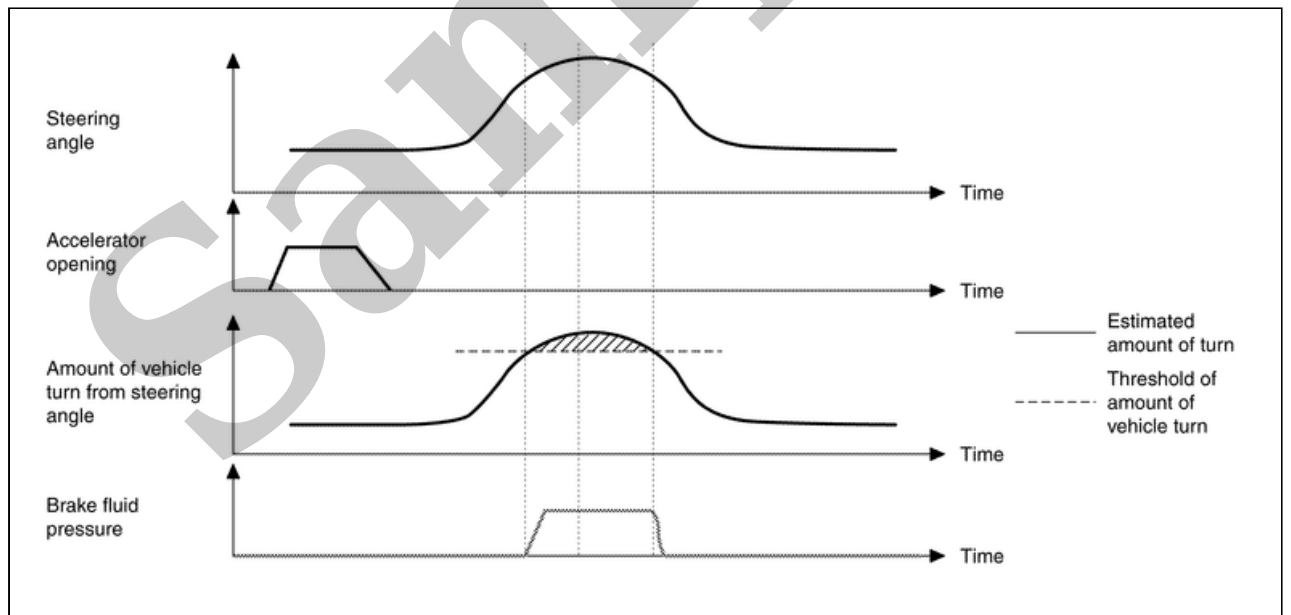
OPERATION CHARACTERISTICS

- **Steady cornering** - The change of forward and lateral acceleration is smoothened by applying the necessary amount of brake pressure.



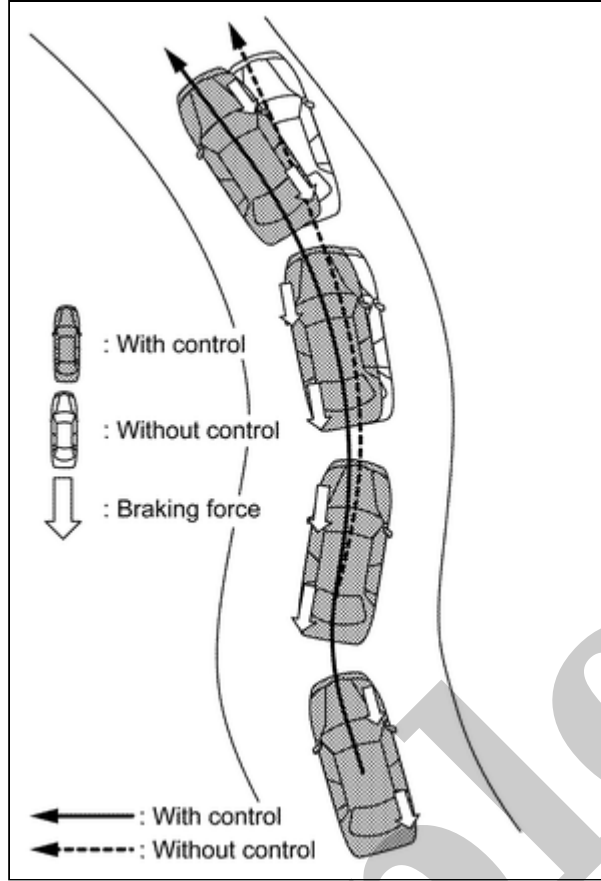
SIEMD-7267328-MD-16360732304770-01-000301436On-982A2995-000301436

- The brake is controlled according to the steering operation condition of the driver and the cornering condition of the vehicle.



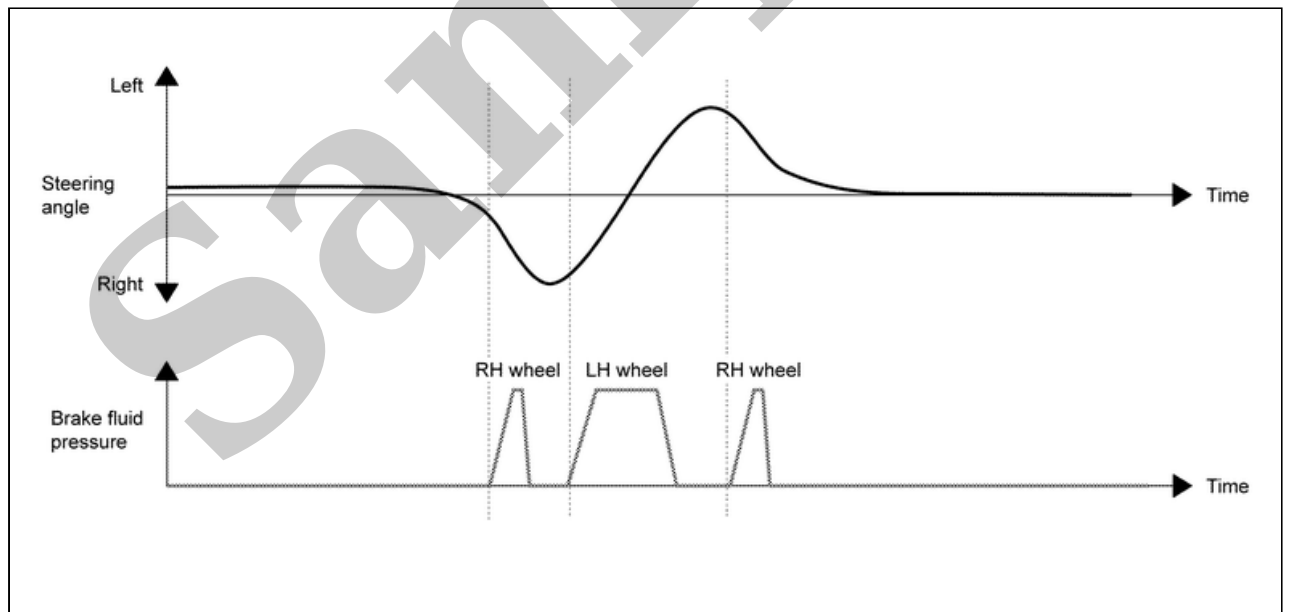
SIEMD-7267328-MD-16360732304770-02-SOIA1449GBO-982A29A6-SOIA1449GB

- Transient steering input - Reduces lag of yaw rate against steering operation.



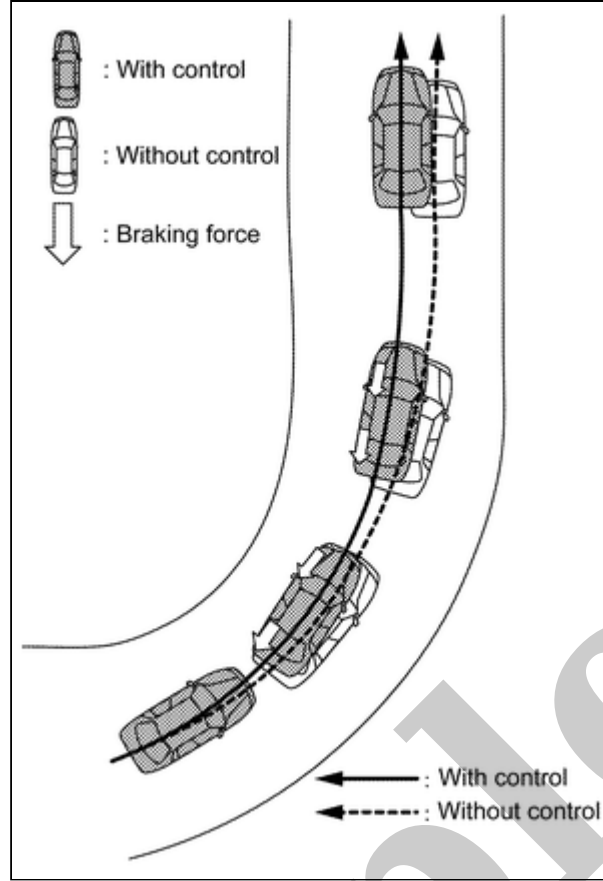
SIEMD-7267328-MD-16360732304770-03-000283519On-982A29BB-000283519

- The brake is controlled according to the steering operation condition of the driver and the cornering condition of the vehicle.



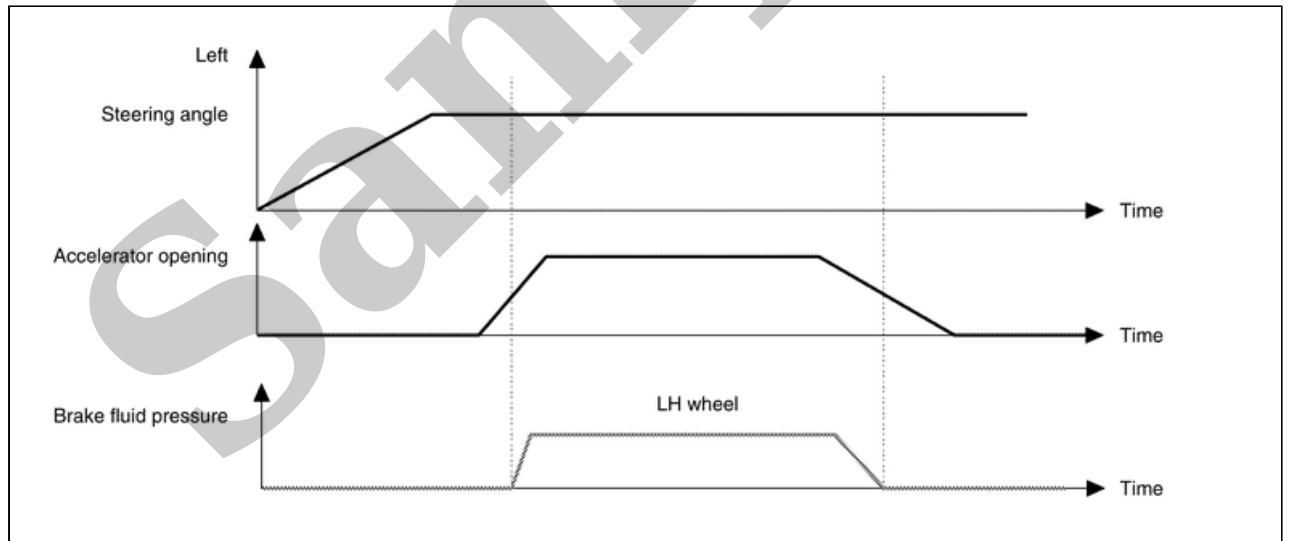
SIEMD-7267328-MD-16360732304770-04-000283986On-982A29CD-000283986

- Acceleration at corners - Restrains understeer by applying the necessary amount of brake pressure to the inner wheels.



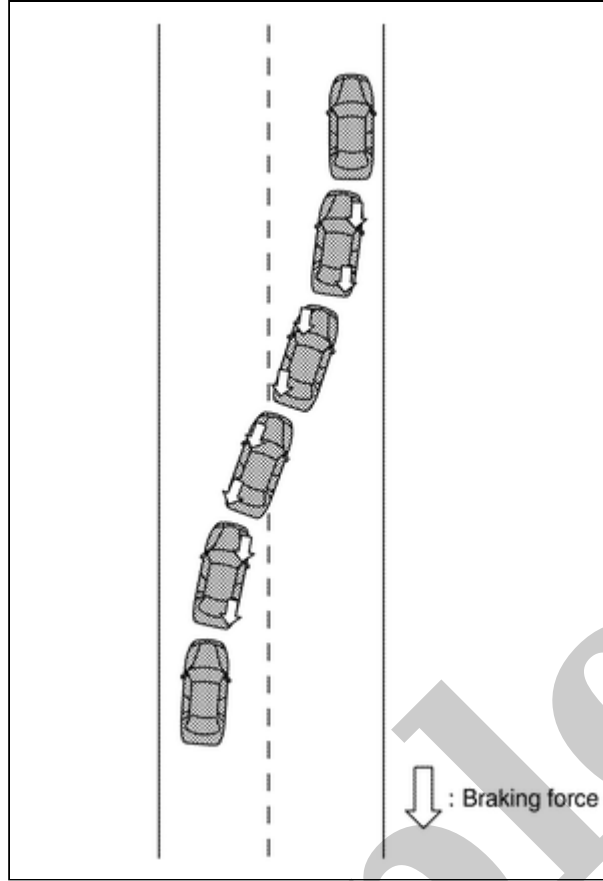
SIEMD-7267328-MD-16360732304770-05-000328122On-982A29DE-000328122

- The brake is controlled according to the steering operation condition of the driver and the cornering condition of the vehicle.



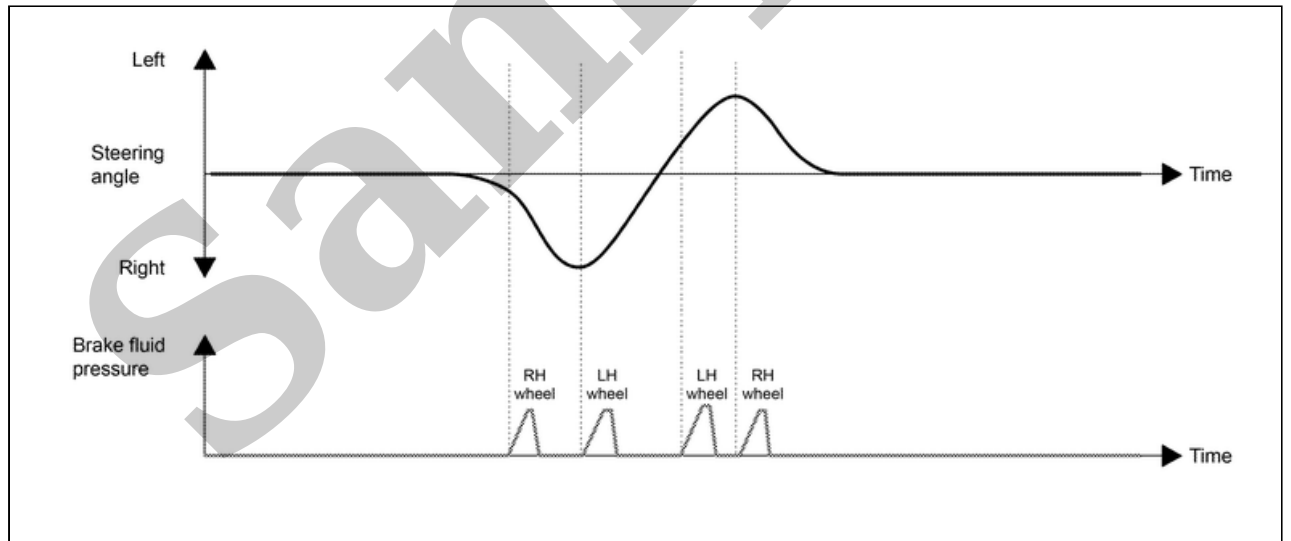
SIEMD-7267328-MD-16360732304770-06-SOIA1453GBO-982A29F1-SOIA1453GB

- Quick lane change - achieves stable vehicle behavior at quick steering operation by applying the necessary amount of brake pressure to the appropriate wheels.



SIEMD-7267328-MD-16360732304770-07-SOIA1454GBO-982A2A02-SOIA1454GB

- The brake is controlled according to the steering operation condition of the driver and the cornering condition of the vehicle.



SIEMD-7267328-MD-16360732304770-08-SOIA2107GBO-982A2A14-SOIA2107GB

- Stable cornering at slippery road - Suppress the sudden vehicle behavior change due to tire slip by estimating tire friction circle and the reducing driving torque before tire slip.