



ARAS (Advanced Rider Assistance System) activation

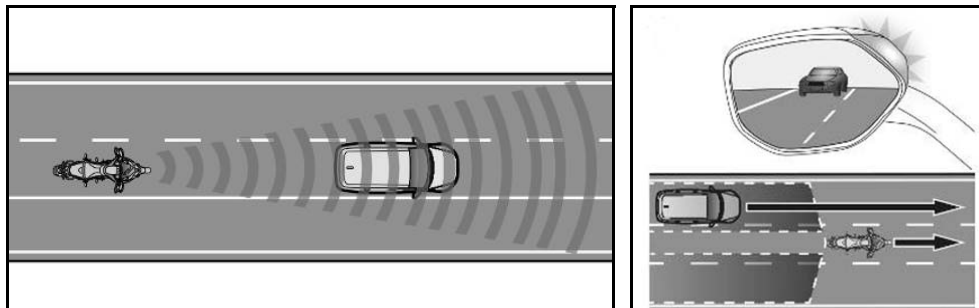
Multistrada V4 S and Sport Model Year 2021 (USA-
CDN-MEX country versions)

Service Repair Bulletin SRV-SRB-21-041

Date: June 30, 2021
To: Dealer Principal, General Manager, Service Manager, North American Dealer
Network
From: Richard Kenton, Technical Director
Dan Schwartz, Service Area Manager

Dear Dealers,

We would like to inform you that **starting Thursday July 1st, 2021 it will be possible to activate the "ARAS" system** (Advanced Rider Assistance Systems) installed on Multistrada V4S and Multistrada V4S Sport Model Year 2021 with "TRAVEL & RADAR" or "FULL" equipment package. Beginning in August, the 2022 Model Year versions equipped with "ARAS" will have the system already activated.



NOTE

Activation of the ARAS system is subject to a charge and can be purchased in the DCS Accessory Catalogue by selecting part no. 97981091AA (the price shown on the DCS does NOT include the cost of labor and therefore the time required to enable the ARAS system and the road test). The suggested labor time is **60 minutes**. More detail on what is included can be found on page 10.



NOTE

Activation of the ARAS system is free of charge for Customers whose vehicles have been subject to the CR207 Safety Recall Campaign for engine replacement (a list of frame numbers for which the ARAS activation is free of charge is attached with this bulletin). Details on how to perform activation for these VINs can be found on page 5 and reimbursement for the associated labor can be found on page 10.



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Multistrada V4 S and Sport Model Year 2021 (USA-
CDN-MEX country versions)

Service Repair Bulletin SRV-SRB-21-041

Supplementary Booklet

In the DCS Part Catalogue it is necessary to order the **Supplementary Booklet part no. 91375551US** where general information, operation, and limits of the ARAS system are reported. The document is to be delivered to the Customer who owns the vehicle on which the system is activated and integrates into the Owner's manual already in their possession.



NOTE

The Supplementary Booklet must already be in your possession before scheduling the appointment with the Customer for the activation of the ARAS system because it must be delivered together with the "Multistrada V4 - ARAS Activation & Delivery Form".



NOTE

As added reference, a PDF version of the Supplementary Booklet is attached and available for download with this bulletin in DCS.



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Multistrada V4 S and Sport Model Year 2021 (USA-CDN-MEX country versions)

Service Repair Bulletin SRV-SRB-21-041


Multistrada V4 - ARAS Activation & Delivery Form

Together with the supplementary booklet, it is necessary to print, fill in and have the Customer sign the "Multistrada V4 - ARAS activation & delivery form" that you will find attached to this bulletin. This form is to be printed in two copies, one to be delivered to the Customer and the other to be attached to the Work Order. Additionally, this Form must also be attached to a dedicated Youtech.



NOTE

A dedicated Youtech is required for all ARAS Activations for the purpose of attaching a copy of the completed and Customer signed ARAS Activation & Delivery Form.



Multistrada V4 - ARAS activation & delivery form

With this document, I, the undersigned _____
 born on ____/____/____, resident in _____
 State _____, telephone number _____,
 declare to have requested to the authorized Ducati dealer
 of _____ (hereinafter
 "Dealer") on ____/____/____ the activation of the ARAS Rider Assistance Systems ("ARAS
 System's") on MY 2021 (model year) Ducati motorcycle model Multistrada V4 S,
 chassis n. VIN _____ (the "Motorcycle").

I declare I have received from the Dealer clear information about the functioning of the ARAS
 Systems on my Motorcycle, as well as the Owner's Manual dedicated to the ARAS Systems,
 which I agree to read carefully before using the ARAS Systems on my Motorcycle. I have been
 informed by the Dealer that the ARAS Systems are convenience systems, not safety systems,
 and therefore are not a substitute for active involvement of the rider in the operation of the
 Motorcycle. I have been informed, and acknowledge and confirm, that I am responsible for
 the operation, riding, and maneuvering of the Motorcycle and that these intelligent driving
 aid systems are only designed to assist me in my operation of the Motorcycle and for
 improving the riding experience; they are not autonomous driving systems that replace the
 Motorcycle's rider.

I understand that I am responsible for choosing the riding style, and for adopting the level of
 caution and attention required by the specific environmental context.

The Dealer has confirmed to me that they have activated the ARAS Systems on my
 Motorcycle and that they have carried out the relative tests in accordance with Ducati's
 instructions, including specifically Technical Service Bulletin 21-041 - ARAS System's
 Activation number.

Date ____/____/____

CUSTOMER DEALER

NOTE: one copy delivered to the Customer and one attached to the work order



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Multistrada V4 S and Sport Model Year 2021 (USA-CDN-MEX country versions)

Service Repair Bulletin SRV-SRB-21-041

ARAS Activation Check List

Attached to this bulletin you will also find the "ARAS Activation Check List", which contains the list of operations to be carried out, in chronological order. For the correct activation of the ARAS system, be sure to print and always use this document, filling it out and signing it, then attach it to the Work Order.

 Multistrada V4 - ARAS Activation Check List 	
Model:	VIN number:
Plate number:	Registration date:
Customer Name:	Current Date:
Check List Multistrada V4 - ARAS Activation	
<input type="checkbox"/> Purchase voucher no. 97981091AA from the DCS accessory catalogue (this operation should not be performed for motorbikes involved in the Safety Recall Campaign CR207)	
<input type="checkbox"/> Purchase the supplementary booklet part no. 91375551US from the spare part catalogue (once you have received the booklet, you can make an appointment with the Customer to carry out the work)	
<input type="checkbox"/> Check that the OEM (Original Equipment Manufacturer) rear-view mirrors with BSD (Blind Spot Detection) are present.	
<input type="checkbox"/> Check that no additional components are installed on the motorbike that could obstruct, even partially, the action field of the front and/or rear radar (e.g. GoPro mount, video recorder, etc.)	
<input type="checkbox"/> Check that all vehicle components close to the front radar are original equipment (front fairing, headlight, radar cover) as well as for the rear radar (number plate holder, radar cover, tail light)	
Using the DDS 3.0 diagnosis instrument, enter the BBS control unit diagnosis and check that the system is NOT active:	
<input type="checkbox"/> > CC (Cruise Control) function enabled <input type="checkbox"/> > FCW (Forward Collision Warning) function disabled <input type="checkbox"/> > ACC (Adaptive Cruise Control) function disabled <input type="checkbox"/> > BSD (Blind Spot Detection) function disabled	
<input type="checkbox"/> Proceed with the activation of the ARAS system by following the instructions in the SRV-ESB-21-001 bulletin "DDS 3.0 diagnosis instrument – New function for configuring accessories for the Multistrada V4 model"	
<input type="checkbox"/> Once the activation procedure has been completed, use the DDS 3.0 diagnosis instrument to perform a Global Scan, making sure that there are no errors in the memory.	
Using the DDS 3.0 diagnosis instrument, enter the BBS control unit diagnosis and check that the ARAS system has been activated correctly:	
<input type="checkbox"/> > CC (Cruise Control) function disabled <input type="checkbox"/> > FCW (Forward Collision Warning) function disabled <input type="checkbox"/> > ACC (Adaptive Cruise Control) function enabled <input type="checkbox"/> > BSD (Blind Spot Detection) function enabled	
For the front radar, use the DDS 3.0 diagnosis instrument to enter ABS diagnosis and check that:	
<input type="checkbox"/> > Error C107B is not active <input type="checkbox"/> > Error C177B is not active <input type="checkbox"/> > the value of the "Front Radar Horizontal Alignment" parameter is between -1.5° and +1.5° <input type="checkbox"/> > the value of the "Front Radar Vertical Alignment" parameter is between -1.5° and +1.5°	
<input type="checkbox"/> For the rear radar, if error C177B is active, check the rear radar correct mounting/support.	
<input type="checkbox"/> Carry out a road test to verify the correct operation of the front and rear radar	
<input type="checkbox"/> Print, fill in and sign the "Multistrada V4 - ARAS activation & delivery form"	
<input type="checkbox"/> Explain to the Customer the operation and the limits of the ARAS system, deliver the supplementary booklet part no. 91375551US and a copy of the "Multistrada V4 - ARAS activation & delivery form" (the second copy signed by the Customer must be attached to the Work Order)	
<input type="checkbox"/> Tick the operations performed	



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Multistrada V4 S and Sport Model Year 2021 (USA-
CDN-MEX country versions)

Service Repair Bulletin SRV-SRB-21-041

ARAS Activation Procedure

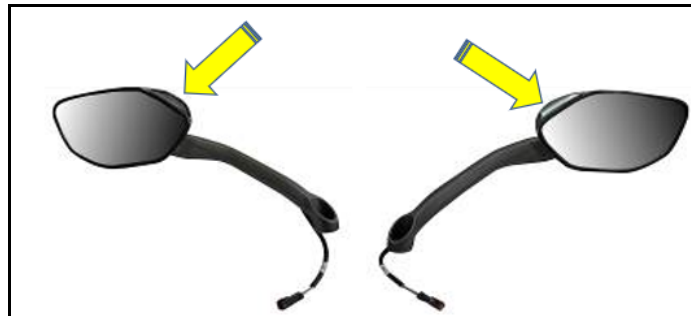
Once the voucher part no. 97981091AA has been purchased in the DCS accessory catalogue, it is required to follow the chronological order of the operations carried out to activate the ARAS system.



NOTE

For the ARAS activation procedure for the frame numbers involved in the CR207 engine replacement, DO NOT purchase voucher no. 97981091AA from the DCS Accessory Catalogue, but proceed directly with system activation using the DDS 3.0 diagnosis instrument (Ducati has already associated each frame number from the list attached to the pre-entered free order).

1. Before proceeding with the activation of the ARAS system, it is necessary to carry out the following operations:
 - A. Check that the OEM (Original Equipment Manufacturer) Rear-View Mirrors with BSD (Blind Spot Detection) are present.



- B. Check that no additional components are installed on the vehicle that could obstruct, even partially, the action field of the front and/or rear radar (e.g., GoPro mount, video recorder, decals, etc.).
 - C. Check that all vehicle components near the front radar are original equipment (Front Fairing, Headlight, Radar Cover) as well as for the rear radar (Number Plate Holder, Radar Cover, Taillight).





ARAS (Advanced Rider Assistance System) activation

Multistrada V4 S and Sport Model Year 2021 (USA-
CDN-MEX country versions)

Service Repair Bulletin SRV-SRB-21-041

D. Using the DDS 3.0 diagnosis instrument, enter the BBS control unit diagnosis and check that the following systems are NOT active:

- CC (Cruise Control) function enabled
- FCW (Forward Collision Warning) function disabled
- ACC (Adaptive Cruise Control) function disabled
- BSD (Blind Spot Detection) function disabled

The screenshot shows the 'Self-diagnosis' screen with the 'STATUS' tab selected. The table below lists the systems and their status:

System	Status
Cruise control (CC)	Present
Integrated Connectivity Cluster (ICC)	Present
Headlamp unit (HLU)	Present
Connectivity Control Unit (CCU)	Not present
Heated seats	Present
Blind spot detection (BSD)	Not present
Ducati Wheely Control (DWC)	Present
Reduced high beam power	Not present

The screenshot shows the 'Self-diagnosis' screen with the 'STATUS' tab selected. The table below lists the systems and their status:

System	Status
Performance Brakes	Present
Adaptive cruise control (ACC)	Not present
Forward collision warning (FCW)	Not present
Zero Preload	Not present
Auto leveling	Present
Stability control	Present
Emergency brake light	Not present



ARAS (Advanced Rider Assistance System) activation

Multistrada V4 S and Sport Model Year 2021 (USA-
CDN-MEX country versions)

Service Repair Bulletin SRV-SRB-21-041

2. After checking the above points, you can proceed with the activation by following the instructions in SRV-ESB-21-001 "DDS 3.0 Diagnosis Instrument – New function for configuration of Multistrada V4 accessories" that you can find in the attachment.

In summary, after purchasing the voucher 97981091AA you need to:

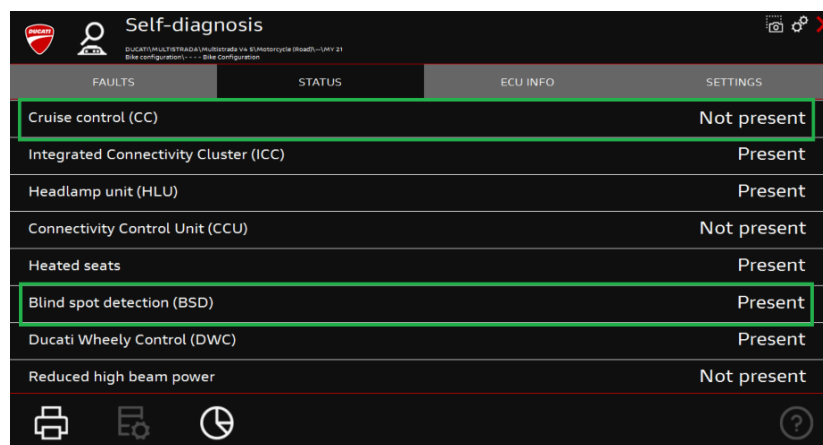
- Reserve the frame number on DCS in the DPSP section
- Using the DDS 3.0 diagnosis instrument, access the "Special Functions" menu and select "Ducati Accessories Manager - accessory activation with order verification and VIN reservation on DCS".



NOTE

To use the accessory configuration function, you need an active internet connection: the operation is performed in online mode.

3. Once the ARAS activation procedure has been completed, use the DDS 3.0 diagnosis instrument to:
 - A. Perform a Global Scan, making sure that there are no errors in the memory
 - B. ARAS correct activation check - Enter the BBS control unit diagnosis verifying that:
 - The CC (Cruise Control) function is disabled
 - The FCW (Forward Collision Warning) function is disabled
 - The ACC (Adaptive Cruise Control) function is enabled
 - The BSD (Blind Spot Detection) function is enabled

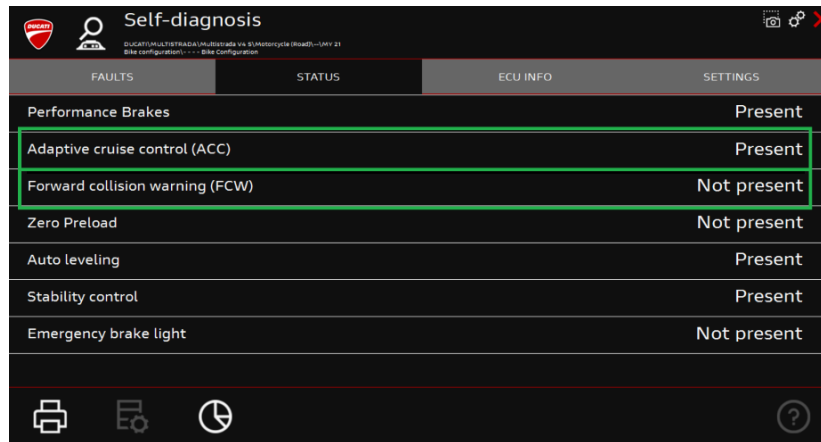




ARAS (Advanced Rider Assistance System) activation

Multistrada V4 S and Sport Model Year 2021 (USA-
CDN-MEX country versions)

Service Repair Bulletin SRV-SRB-21-041



C. Front Radar check - Enter the ABS control unit diagnosis and check that:

- Fault C1078 is not active
- Fault C1778 is not active
- The value of the "Front Radar Horizontal Alignment" parameter is between -1.5° and $+1.5^{\circ}$
- The value of the "Front Radar Vertical Alignment" parameter is between -1.5° and $+1.5^{\circ}$.



WARNING

If the parameters detected do not fall within the range of the indicated values, it is necessary to check the front radar mounting/support and carry out the radar alignment procedure in the ABS control unit diagnosis section – "Adjustments - Front Radar calibration procedure".

D. Rear Radar check - Enter the ABS control unit diagnosis and check:

- If error C1778 is active, inspect the Rear Radar mounting/support.



ARAS (Advanced Rider Assistance System) activation

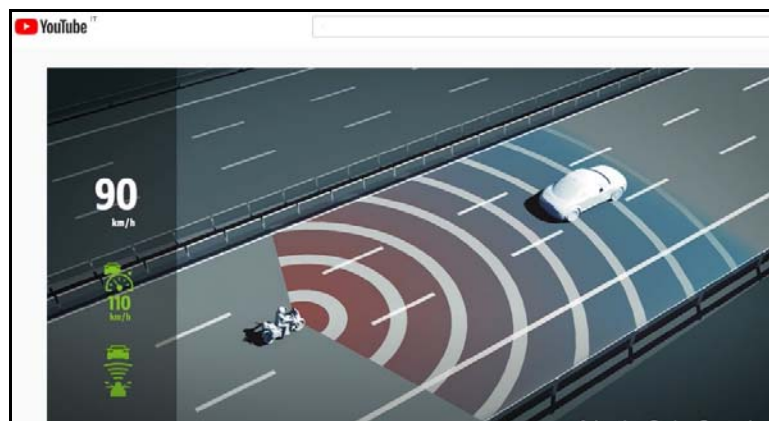
Multistrada V4 S and Sport Model Year 2021 (USA-
CDN-MEX country versions)

Service Repair Bulletin SRV-SRB-21-041

4. Carry out a road test to verify the correct operation of the Front and Rear Radar, in particular:
 - A. For the **“ACC” function** check that:
 - The buttons on the switch work correctly
 - The icon on the instrument panel is green and grey when the system is switched on, but the speed control is not active (if no speed is stored, dashes are shown otherwise the last stored cruise speed is shown)
 - The icon on the instrument panel is green when the system is on, and speed control is active
 - The radar reacts to a vehicle ahead of the motorcycle
 - B. For the **“BSD” function** check that:
 - When the key is turned ON, the Blind Spot Detection system is activated on both Rear-View Mirrors for 2 seconds
 - On a non-urban road, riding at a steady speed in the middle of your lane and at a moderate speed, safely allow yourself to be caught up and overtaken by a vehicle from behind. If the overtaking vehicle is not too fast compared to the motorcycle, maximum 23 mph (36 km/h) speed difference, the LED on the Rear-View Mirror on the motorcycle's side should light up. The test can be considered successful as soon as the LED lights up at least once.

For more details on the correct operation of the ARAS system, Ducati encourages you to watch the tutorial available at the following **YouTube** link:

<https://www.youtube.com/watch?v=ifMNPwtJTzk>.





ARAS (Advanced Rider Assistance System) activation

Multistrada V4 S and Sport Model Year 2021 (USA-
CDN-MEX country versions)

Service Repair Bulletin SRV-SRB-21-041

Labor Reimbursement – Qualified VINs only

Activation of the ARAS system is free of charge for Customers whose vehicles have been subject to the CR207 Safety Recall Campaign for engine replacement (a list of frame numbers for which the ARAS activation is free of charge is attached with this bulletin).

Reimbursement for this flat rate time may be available through the regular warranty claims process, so long as full compliance with the procedures laid out in SLS-21-008 U.S. (21-009 CAN, 21-005 MEX) are adhered to. A copy of the completed and Customer signed ARAS Activation & Delivery Form must be attached to the Warranty Claim.



NOTE

A dedicated Youtech is required for all ARAS Activations for the purpose of attaching a copy of the completed and Customer signed ARAS Activation & Delivery Form.

Flat Rate Operation Code

To activate the “ARAS” system, the specific operation to be used **3-999-084** has been created in the flat rate tables and valued with a labor time equal to **60 min (10 LU)** that includes:

- Vehicle reception and delivery
- The checks to be made on the vehicle
- System enabling
- Final road test
- Compilation of the ARAS Activation Check List
- Explanation to the Customer of the operation and limitations of the ARAS system
- Compensation for the cost of the Supplementary Booklet part no. 91375551US.

Further Information

Below are additional reference documents that have been created on the “ARAS” which are available on DCS:

- SRV-SRB-20-049: “Introducing Multistrada V4S Model Year 2021”
- SRV-SRB-20-042: “Assembly of radar alignment adjustment tool part no. 889450124 and relevant calibration procedure using DDS 3.0”
- SRV-SRB-21-023: “Video of radar adjustment procedure with tool Part no. 889450124 and DDS 3.0 diagnosis instrument”

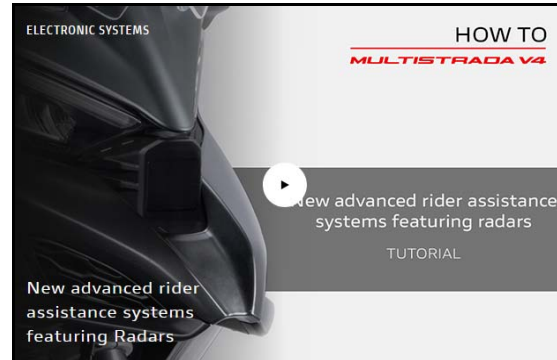
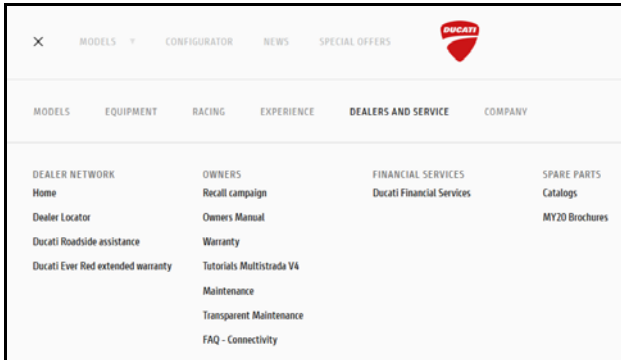


ARAS (Advanced Rider Assistance System) activation

Multistrada V4 S and Sport Model Year 2021 (USA-
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Service Repair Bulletin SRV-SRB-21-041

There are also very detailed tutorials available on the Ducati.com website in the “Dealers and Service – Multistrada V4S Tutorials – Electronic System” section that show how to activate, deactivate and/or modify the “ARAS” settings.



For questions about this Service Bulletin,
please contact your Service Area Manager.