# SERVICE BULLETIN



M1615 2024-01-18

# M1615: 2024 REVOLUTION MAX CHARGING SYSTEM CHANGES

# Reason for Revision

Refer to Table 1.

**Table 1. Document History** 

Date	Rev	Revision (Rev) Description				
2024-01-18	Α	Parts numbers were transposed 26900175 and 26900252 were 29600175 and 29600252.  * Updated: Affected Part Numbers				
2024-01-02	-	Initial release				

# **Purpose for Service Bulletin**

This bulletin informs dealers of updates made to the charging system on 2024 Revolution® Max powered vehicles. For 2024, the charging system has been updated to improve electrical output at idle and low Revolutions Per Minute (rpm). Maximum output has remained the same.

The following components have been changed:

- Stator and Stator Screws: The stator has increased in thickness, adding more wire length and longer stator screws.
- Cooling Manifold: The cooling manifold needed to be machined deeper to accommodate the stator size change.
- Alternator Cover Screws: The screws were shortened to prevent breaking through the new cooling manifold.
- Rotor Assembly: The magnets were moved, re-centering them over the new stator windings.

#### NOTE

Using any of these parts in a 2021-2023 Revolution® Max motor can result in catastrophic engine failure.

#### NOTE

All Parts Catalogs have been updated to show correct service part numbers.

# **Vehicles Affected**

2021-2023: Pan America (RA1250/S), Sportster S (RH1250S), Nightster (RH975/S)

## **Markets Affected**

All markets affected except Brazil.

## **Affected Part Numbers**

Refer to Table 2.

**Table 2. Superseded Part Numbers** 

Original Part No.	Models	Superseded Kit Part No.		
29900096A	RA1250/S & RH1250S	29900144		
29900078	RA1250/S & RH1250S	29900144		
26900175	RA1250/S & RH1250S	29900144		
29900096A	RH975/S	29900143		
29900078	RH975/S	29900143		
26900252	RH975/S	29900143		

# **Required Dealer Action**

#### Table 3.

Action Required	Resolution				
NO	Actionable: Any vehicle, component or software related issues				
YES 🗹	must be performed according to the service bulletin procedure.				

## NOTE

Mixing components on 2024 models with 2021-2023 models, will cause catastrophic damage and could result in the need for a powertrain replacement.

When servicing the charging system on 2021-2023 Revolution® Max powered vehicle, the 2021-2023 components **are not individually** interchangeable with 2024 components.

When servicing the charging system on 2024 Revolution® Max powered vehicle, service the components individually from the 2024 Parts Catalog.

When servicing the charging system or coolant manifold on a 2021-2023 Revolution® Max vehicle, use up all old stock (Part No's 29900096A, 29900078, 26900175 & 26900252). See the appropriate Parts Catalog.

Complete Charging Assembly Kits have been created to retrofit 2021-2023 Revolution® Max powered vehicles once individual components become unavailable. Refer to Table 2 for specific fitment.

#### NOTE

In the interest of preserving customer safety and satisfaction, always check for outstanding recalls whenever any motorcycle is brought into your dealership for either maintenance or service

ROUTING	SERVICE MANAGER	SALES MANAGER	PARTS MANAGER	WARRANTY PROCESS MANAGER	LEADTECHNICIAN	TECHNICIAN NO. 1	TECHNICIAN NO. 2	TECHNICIAN NO. 3	RETURN THIS TO
INITIAL HERE									

## Component Identifiers:

If a 2021-2023 vehicle can be identified as having the kit installed, replace parts individually using the 2024 parts catalog. Replacing the complete kit will not be necessary again. Verify that all of the components have been retrofitted. Partial mixing of components will cause engine damage.

2021-2023 vehicles that have had the Revolution® Max charging kit already installed can be identified by the parts below:

 See Figure 1. The rotor part number (1) on outer diameter of component.

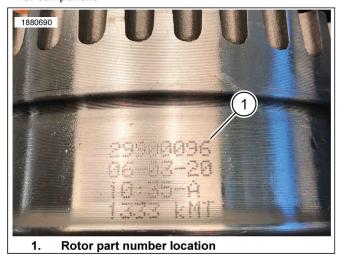


Figure 1. Engraved Rotor Part Number

 See Figure 2. The stator part number (1) on outer diameter of component. The first line is the first portion of the part number. The second line is the remainder of the part number.



Figure 2. Engraved Stator Part Number

 See Figure 3. The 2024 cooling manifold has a single drill spot face (1) on the inside pad of the component.

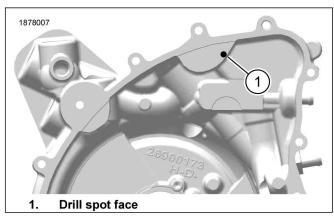


Figure 3. Coolant Manifold Designator

# **Dealer Inventory Instructions**

Reference the Revolution® Max powered vehicle with the appropriate 2021-2023 Parts Catalog.

Use up all old stock (Part No's. 29900096A, 29900078, 26900175 and 26900252) on 2021-2023 Revolution® Max powered vehicles.

A Revolution Max Charging System Service Kit is available to retro fit 2021-2023 Revolution® Max models.

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