

SERVICE MANUAL
Grader

845
865
885

6-46503

1. Trim along dashed line.
2. Slide into pocket on Binder Spine.

TYPE 1-4

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TYPE 1-4

845 - 865 - 885 GRADER

Service Manual

Brz 6-46503

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845 - 865 - 885 GRADER Service Manual Brz 6-46503

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NOTE: CNH Latino Americana reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.

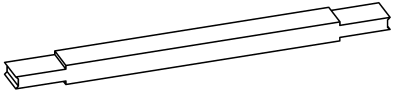
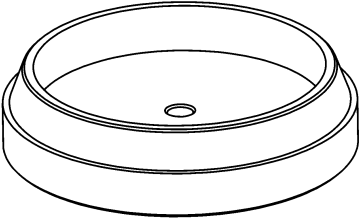
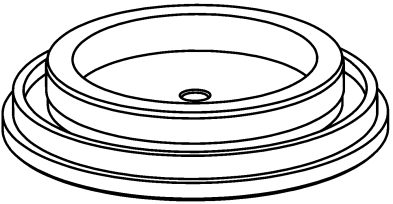
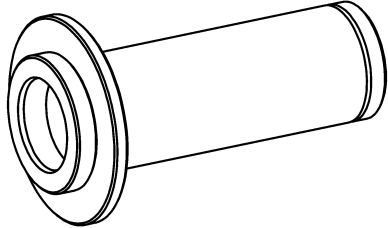
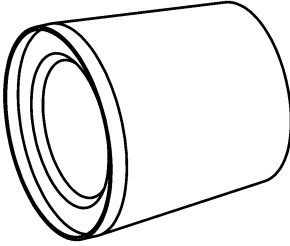
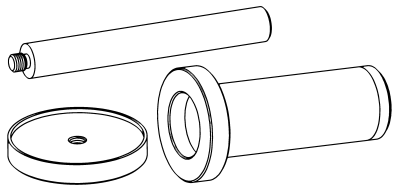
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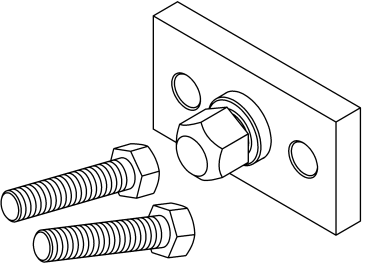
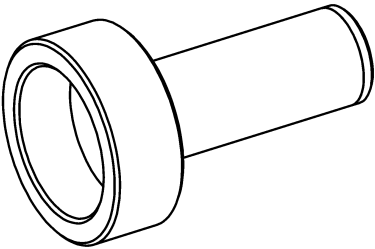
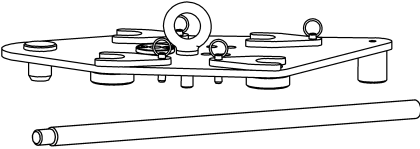
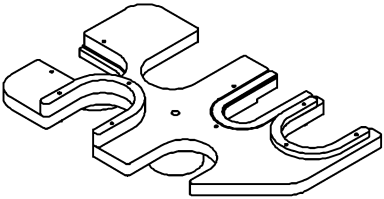
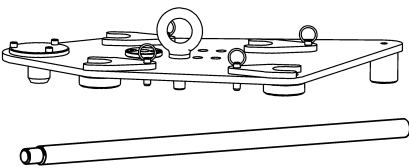
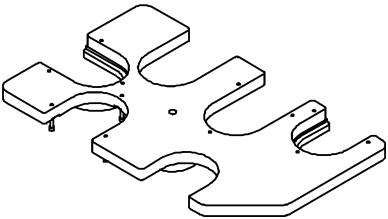
GENERAL

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Special Tools - Cross Reference Guide	1000
Standard Torque Specifications	1001
Fluid and Lubricants	1002
Metric Conversion Chart	1003
Loctite Product Chart	
Service Tools	1005

Section 1000

SPECIAL TOOLS Cross Reference Guide

	Description	Old Number	New Number
	Axle Brake Disc Go/No Go Gauge	75301703	380000378
	Axle Seal Installer	75301704	380000379
	Axle Seal Installer	75301705	380000380
	Transmission Input Seal Installer	75310180	380000387
	Transmission Oil Seal Guide	75310181	380000388
	Transmission Seal Driver	75310185	380000391

	Description	Old Number	New Number
	Hub Remover	75312684	380000394
	Seal Driver	75310190	380000397
	Lifting Device	75289947	380000374
	Stack Nest	75289948	380000375
	Lifting Device	75289949	380000376
	Stack Nest	75289950	380000377

Section 2002

CHARGE AIR COOLER SYSTEM

845

P.I.N. HBZ020101 AND AFTER

865

P.I.N. HBZ022101 AND AFTER

885

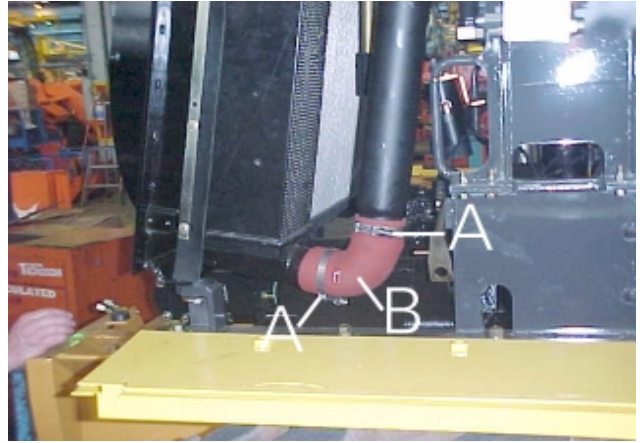
P.I.N. HBZ024101 AND AFTER

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Charge Air Cooler Removal

Removal of the air cooler to turbocharger outlet piping

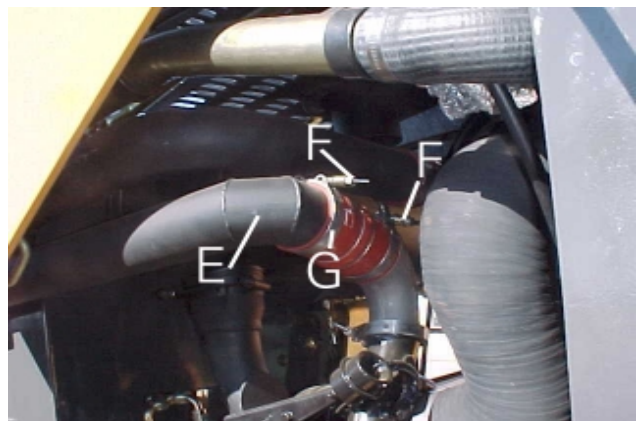
- 1 - Remove clamps (A)
- 2 - Remove hose (B)



- 3 - Remove bolt (C) and remove clamp (D)



- 4 - Remove clamps (F) then remove tube (E) and hose (G).



2002- 5

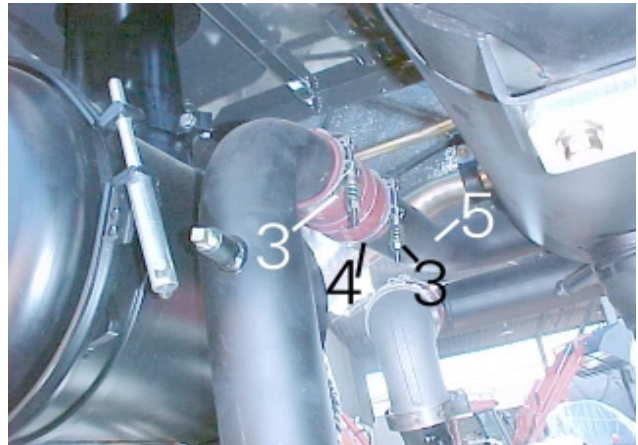
Charge Air Cooler Removal

Air inlet to cooler pipe removal

- 1 - Remove clamps (1)
- 2 - Remove hose (2)



- 3 - Remove clamps (3)
- 4 - Remove hose (4)
- 5 - Remove tube (5)



- 6 - Remove bolts (6)
- 7 - Remove tube (7)
- 8 - Remove gasket (8)



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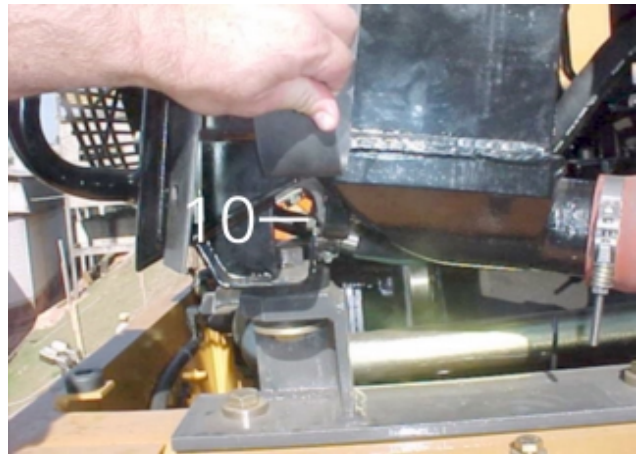
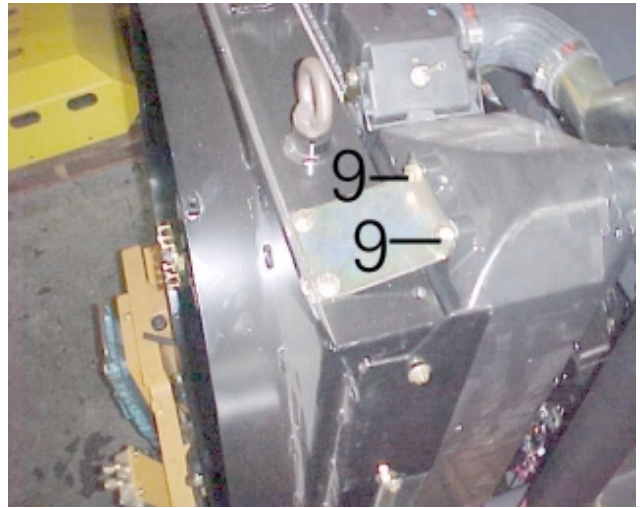
Charge Air Cooler Removal

Air cooler removal

1 - Remove top bolts (9)

1

2 - Remove bottom bolts (10)



Air cooler assembly.

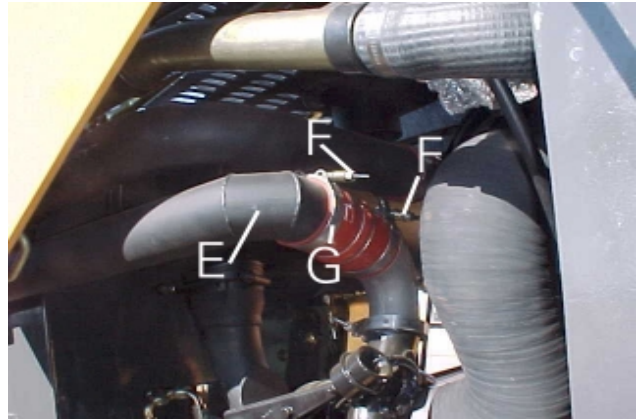
- 1 - Place air cooler in the correct position.
- 2 - Fit top bolts (9) and torque to 2,8 kfg.
- 3 - Fit bottom bolts (10) and torque to 2,8 kfg.

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Charge Air Cooler Installation

Assembly of air cooler outlet to turbocharger pipe

- 1 - Fit hose (B) to the cooler outlet opening. Then fit clamps (A) in place and fit tube (E) to hose (B). Adjust clamps until the clamp springs are fully compressed.
- 2 - Fit hose (A) to tube (E). Then fit hoses (F) in place and fit hose (G) to the turbocharger inlet tube. Adjust clamps until the clamp springs are fully compressed.

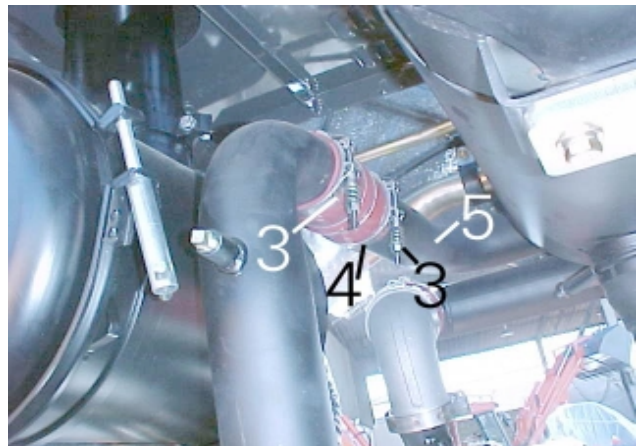


Cooler air inlet pipe assembly.

- 1 - Fit hose (2) to the cooler inlet opening. Then fit clamps (1) in place and fit tube (5).
- Adjust clamps until the clamp springs are fully compressed.



- 2 - Fit hose (4) to tube (5). Then fit clamps (3) in place and fit tube (7).
- Adjust clamps until the clamp springs are fully compressed.



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3 - Fit gasket (4) between tube (7) and engine cover.
Then fit bolts (6) in place and torque to 2,8 kgf.



4 - Fit clamp (d) in place and torque bolts (C) to 2,8 kgf.



STARTER

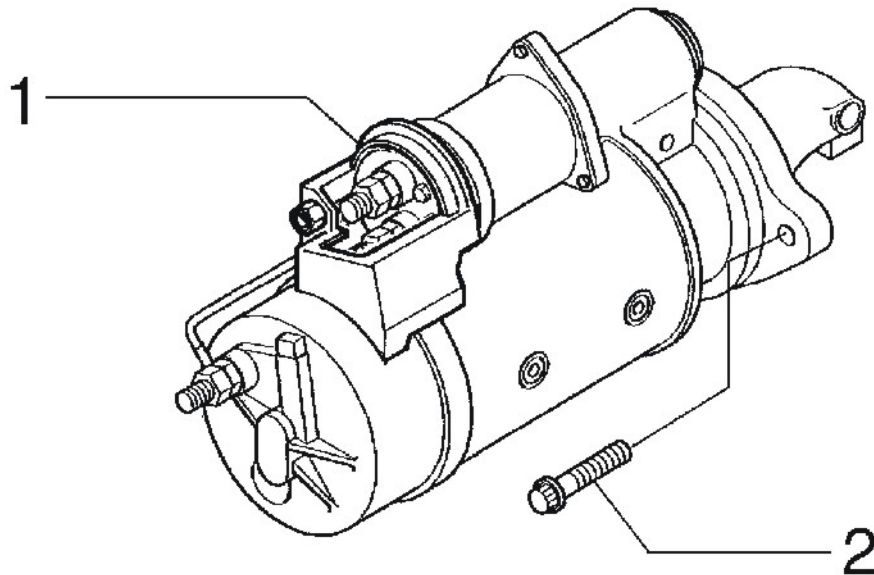
Removal

NOTE: *The starter is located on the left side of the engine, mounted to the engine flywheel housing.*

1. Turn the master disconnect switch to the OFF position.
2. Remove the air cleaner and the air cleaner bracket.
3. Move the cover to gain access to the bolt (2). Refer to the illustration below.

Installation

1. Install the starter (1), and bolts (2) to the machine. Torque the bolt (2) to 41 to 74 Nm (30 to 54 pound-feet).
2. Install the positive cables.



1. STARTER
2. BOLT

STARTER REMOVAL AND INSTALLATION

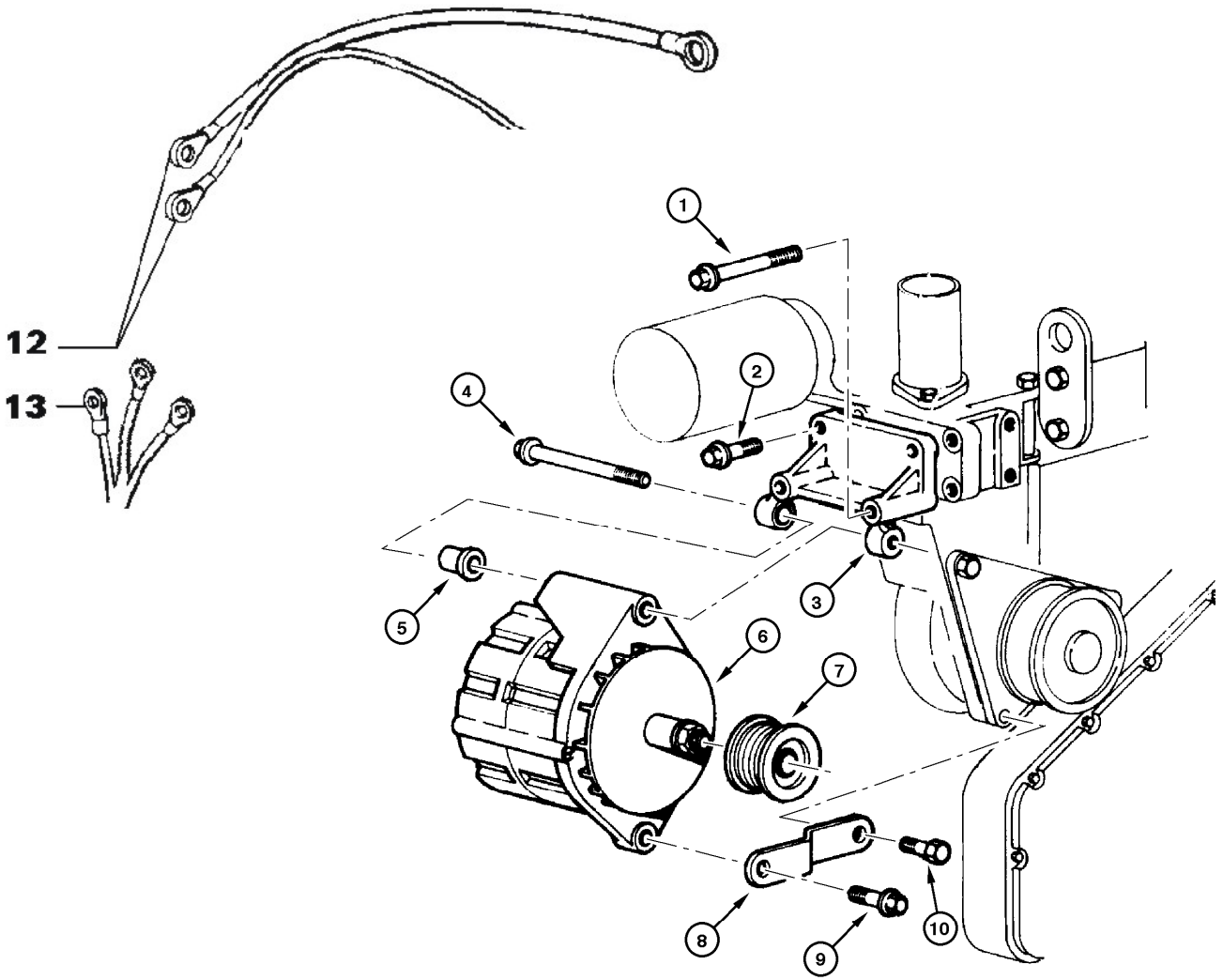
ALTERNATOR 45A

Removal

1. Turn the master disconnect switch to the OFF position.
2. Use a wrench to move the belt tensioner (15) and loosen the tension on the belt (17). Refer to the illustration on the following page.
3. Remove the belt (17).
4. Remove the boots (4 and 5). Tag and disconnect wires (12 and 13) from the alternator (6).
5. Remove the bolt (8), and washer (9) from the support bracket (7) and the alternator (6).
6. Remove the alternator (6) and shield (3) from the machine.
- .
- .

Installation

1. Install the alternator (4), on the machine. Torque the bolt (0) to 60 to 104 Nm (42.5 to 76 pound-feet). Refer to the illustration on the following page.
2. Install the washer (9), and bolt (8). Torque the bolt (8) to 60 to 104 Nm (42.5 to 76 pound-feet).
3. Use a wrench to move the belt tensioner (2) until the belt (1) can be installed.
4. Install the belt (17).
5. Install the wire (12), lockwasher and nut to the alternator's D+ terminal. Torque the nut to 3.5 to 3.9 Nm (2.6 to 2.9 pound-feet).
6. Install the boot.
7. Install the wire (13), lockwasher and nut to the alternator's B+ terminal. Torque the nut to 15 to 27 Nm (11 to 20 pound-feet).
8. Install the boot.
9. Turn the master disconnect switch to the ON position.



- 1. BOLT
- 2. BOLT
- 3. SUPPORT
- 4. BOLT
- 5. ARM
- 6. BOLT
- 7. BOLT
- 8. ALTERNADOR 45 A
- 9. PULLEY
- 10. BELT

ALTERNATOR 45 A TO MODEL 845 ENGINE CUMMINS SERIES B REMOVAL AND INSTALLATION ILLUSTRATION

ALTERNATOR 70A

Removal

1. Turn the master disconnect switch to the OFF position.
2. Use a wrench to move the belt tensioner (15) and loosen the tension on the belt (17). Refer to the illustration on the following page.
3. Remove the belt (17).
4. Remove the boots (4 and 5).
Tag and disconnect wires (12 and 13) from the alternator (6).
5. Remove the bolt (8), and washer (9) from the support bracket (7) and the alternator (6).
6. Remove the alternator (6) and shield (3) from the machine.

.
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Installation

1. Install the alternator (4), on the machine.
Torque the bolt (0) to 60 to 104 Nm (42.5 to 76 pound-feet).
Refer to the illustration on the following page.
2. Install the washer (9), and bolt (8).
Torque the bolt (8) to 60 to 104 Nm (42.5 to 76 pound-feet).
3. Use a wrench to move the belt tensioner (2) until the belt (1) can be installed.
4. Install the belt (17).
5. Install the wire (12), lockwasher and nut to the alternator's D+ terminal. Torque the nut to 3.5 to 3.9 Nm (2.6 to 2.9 pound-feet).
6. Install the boot.
7. Install the wire (13), lockwasher and nut to the alternator's B+ terminal. Torque the nut to 15 to 27 Nm (11 to 20 pound-feet).
8. Install the boot.
9. Turn the master disconnect switch to the ON position.



Suggest:

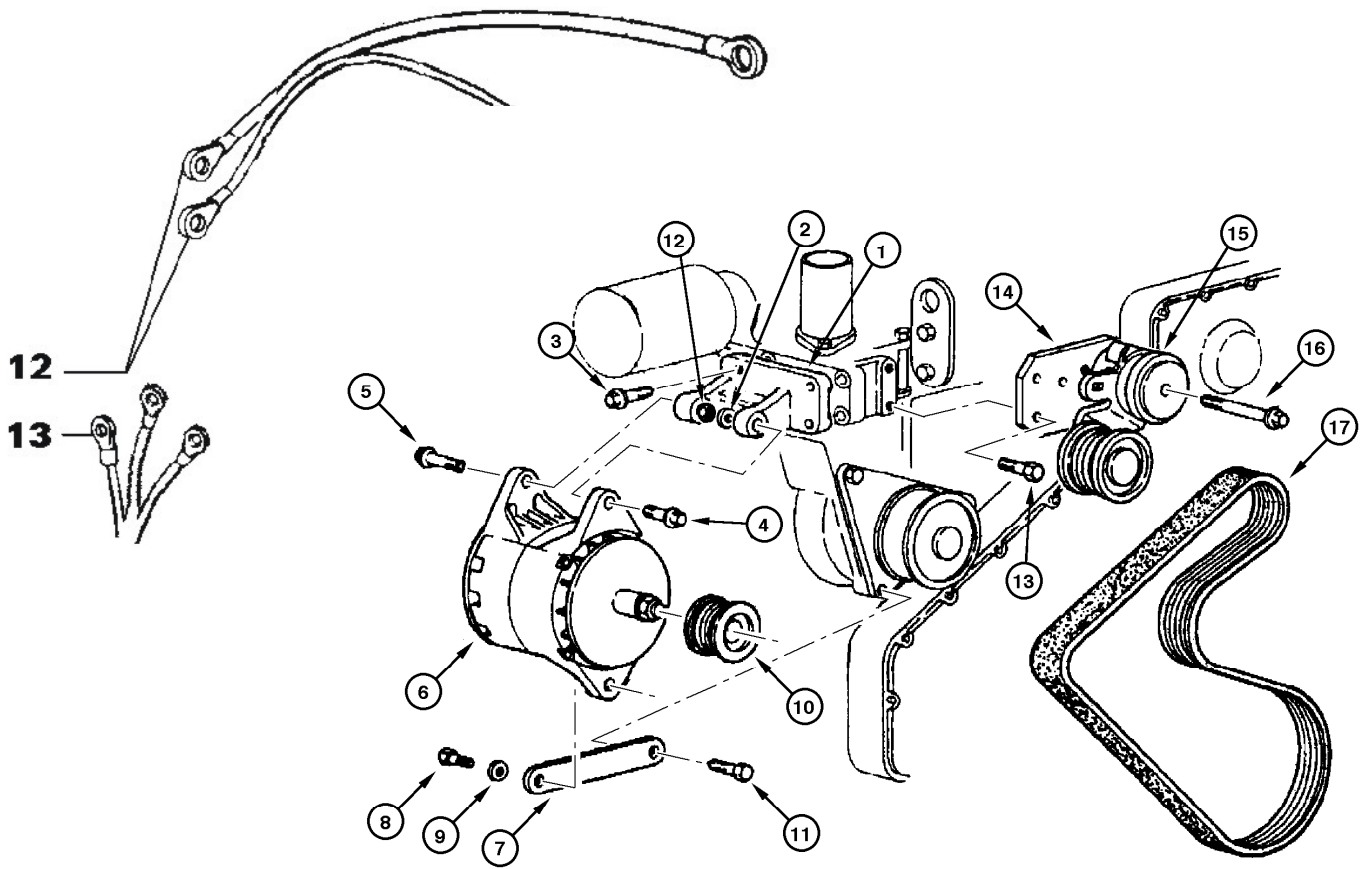
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- | | |
|------------|--------------------|
| 1. BOLT | 8. ALTERNATOR 70 A |
| 2. BRACKET | 9. BRACKET |
| 3. BOLT | 10. BOLT |
| 4. BOLT | 11. BOLT |
| 5. BELT | 12. and 13. WIRES |
| 6. PULLEY | |
| 7. WASHER | |

ALTERNATOR 70 A TO MODELS 845 ENGINE CUMMINS SERIES B REMOVAL AND INSTALLATION ILLUSTRATION

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