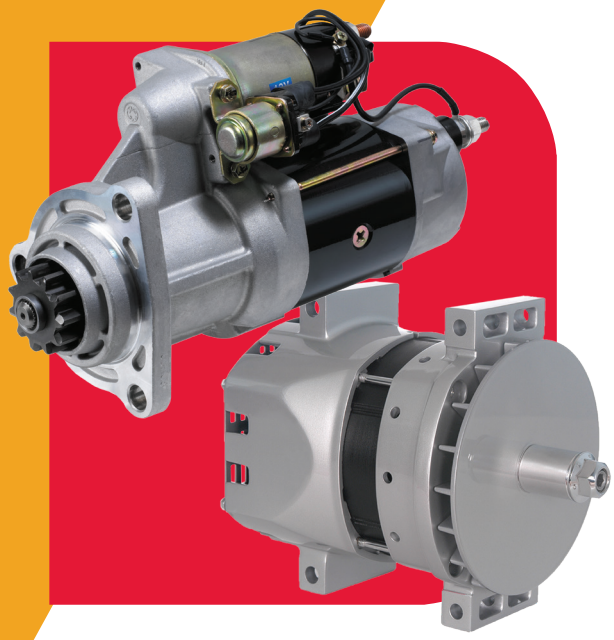
SCHOOL BUS

STARTERS & ALTERNATORS



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SCHOOL BUS STARTER & ALTERNATOR

SCHOOL BUSES PRESENT A UNIQUE SET OF CHALLENGES.

A school bus performs the majority of its workday at slow speeds. At the same time, lighting and equipment associated with safety and passenger mobility add electrical loads that must be met at these same slow speeds.

TECHNOLOGY SOLUTIONS THAT ADDRESS THE CHALLENGES

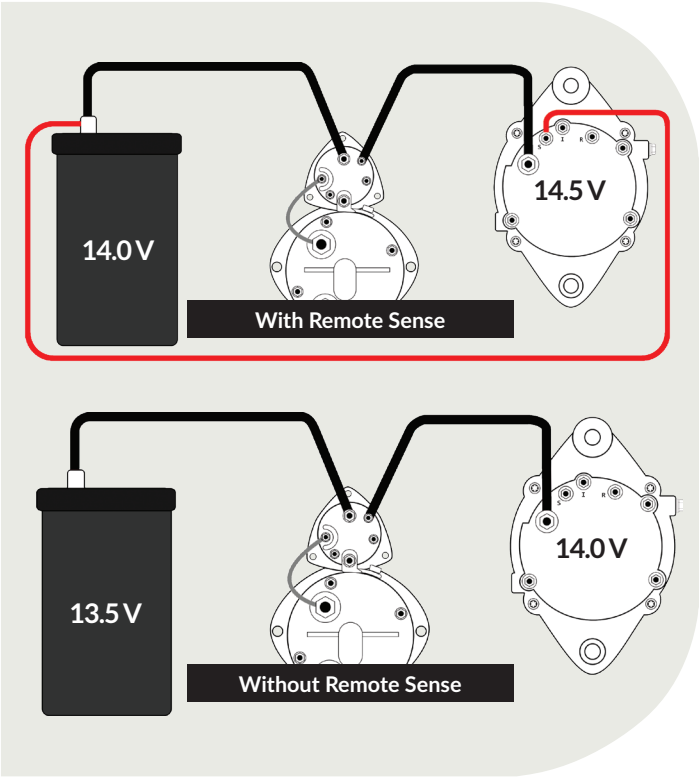
Delco Remy high output alternators are specially designed to contend with the demanding electrical loads of school bus operating routines. Add to that the fuel savings opportunity, high temperature ratings and proven technologies like Remote Sense and you've got alternators in a class by themselves.

Remote Sense Can Reduce Battery Charge Time by 50% The Delco Remy high output alternators are equipped with Remote Sense which utilizes a second wire that reads the actual voltage at the battery. This signals the alternator to boost its output to compensate for the voltage drop, ensuring 14 volts at the battery. The proper voltage at the battery forces more current into the battery bringing the battery up to a full state of charge during the school bus runs between stops.

Designed for Extreme Temperatures & Long Life No other school bus alternator on the market today can perform like the Delco Remy high output alternators. Both the 28SI and 40SI models withstand extreme underhood temperature demands of up to 257°F – that's over 25°F above the competition – and still keep running.

High-Efficiency Alternators Equals 20% Fuel Savings An efficient alternator on a school bus can more than pay for itself in less than one year. Over the life of the vehicle, these savings can reach in the thousands of dollars.

As the alternator becomes more efficient in the process of converting mechanical power into electrical power, less fuel is consumed. And even though the power demands of the alternator are generally small in comparison to the overall vehicle, the impact on fuel cost is remarkable.



Operating data was collected on school bus applications in order to identify what was actually occurring over the course of the school week and the impact it had on the electrical system. Delco Remy high output alternators were installed and compared to other standard industry models. The results were amazing:

Fuel cost with base efficiency alternator = $7533*
Fuel cost savings with high efficiency alternator = $1507*

Increasing alternator efficiency can, and will, measurably reduce fuel costs.

* Based on $4 / gal diesel fuel cost and 250k mi.

ALTERNATOR APPLICATIONS

School Bus Application	Amps	Part Number	Model	Style	Mount Type	Leece-Neville
Base bus without AC prior to 2000	160	8600308	**28SI**	Brush	J180 - Long	2800LC
		8600312			J180 - Short	
		8600315			Pad	
Base bus without AC after 2000	180	8600311	**28SI**	Brush	J180 - Long	4836LGH, 4833LGH
		8600223			J180 - Short	
		8600316			Pad	4939PGH, 4943PGH
Bus with factory AC or an electromagnetic brake retarder prior to 2002	200	8600307	**28SI**	Brush	J180 - Long	
		8600313			J180 - Short	
		8600314			Pad	
Bus with factory AC or an electromagnetic brake retarder after 2002	240	8600390	**40SI**	Brushless	J180 - Long	4887JB, 4885JB
		8600339			J180 - Short	
		8600338			Pad	4959PA, 4958PA
Bus with factory AC and additional add on AC OR bus with factory AC and an electromagnetic brake retarder	275	8600280	**40SI**	Brushless	J180 - Long	4867JB
		8600279			J180 - Short	
		8600094			Pad	4949PA
	320	8600634			J180 - Long	
		8600628			Pad	4962PA

Note: When replacing some competitive alternators on a Navistar/IC Bus, a different pulley may be required. Please use Navistar pulley part number 3611883C1 for DT and MaxxForce 9 & 10 engines, 3615037C1 for MaxxForce 7 engines and 3716856C1 for ISB engines.

ALTERNATOR COMPETITIVE COMPARISON

	Delco Remy 28SI	Delco Remy 40SI	Leece-Neville	Bosch
Remote Sense	Yes	Yes	No	No
Peak Efficiency	68%	72%	60%	68%
Output at Temperature Ratings	Full Output 125°C (257°F)	Full Output 240 & 275 Amp: 125°C (257°F) 300 & 320 Amp: 115°C (239°F)	Full Output 110° C (230° F)	No Output 125°C (257°F)*
All Three Industry Mounting Styles	Yes	Yes	No	No**

* Bosch regulator will shut down before 125°C, resulting in no alternator output
** Requires additional purchase of installation kit in order to accommodate the long hinge mount style

ALTERNATOR SPECIFICATIONS

	28SI	40SI
Performance Output	160, 180, 200	240, 275, 300, 320
Rotation	Clockwise	Clockwise
Temperature Ratings	Low: -40°C (-40°F) High: 125°C (257°F)	Low: -25°C (-13°F) High: 240 & 275 Amp: 125°C (257°F) High: 300 & 320 Amp: 115°C (239°F)
Mounting	J180 Short Hinge Mount J180 Long Hinge Mount Pad Mount	J180 Short Hinge Mount* J180 Long Hinge Mount Pad Mount
Weight	18.7 lbs (8.5 kg)	31 lbs (14.1 kg)
School Bus Aftermarket Warranty**	2 Years/Unlimited Miles	3 Years/Unlimited Miles

*320 Amp not available in short hinge mount **Applicable to U.S. and Canada only

NEW BUS SPECIFICATION CODES

ALTERNATORS

Blue Bird Bus

40SI 275 Amps 4013203
40SI 300 Amps 4013204

Freightliner/Thomas Built

C2
28SI 160 Amps FL-124-1D6*
28SI 200 Amps FL-124-1E0
40SI 275 Amps FL-124-1E7

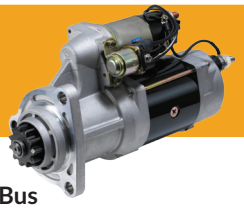
HDX
28SI 200 Amps C1370-00-000

EFX
40SI 275 Amps C1371-00-000

Navistar/IC Bus

BE/CE/RE
28SI 200 Amps 08GHV*

STARTERS



Navistar/IC Bus

BE & CE
29MT 08WYD
38MT 08WTK*
39MT 08WTU
39MT OCP 08WTL

RE
38MT 08WTK*
39MT 08WTU
39MT OCP 08WTL

*Standard Position

STARTER APPLICATIONS

			BEST REPLACEMENT OPTION								
OEM	ENGINE	OEM PART #	28MT	29MT (up to 8L)	35MT (up to 8L)	31MT (up to 8L)	38MT/38MT+ (up to 13L)	39MT (up to 16L)	LEECE NEVILLE PART #	MITSUBISHI PART #	DENSO PART #
Thomas Built Bus	Cummins ISB, 5.9L	1113276 90024059	LH MOUNT: 10465151 10479615 10479638 RH MOUNT: 1113276 10465043 10461481	LH MOUNT: 19011402 10461771 RH MOUNT: 19011400 19011409 10461770	N/A	**LH MOUNT: 61005264 RH MOUNT: 61005265**	**N/A**	**N/A**	N/A	N/A	428000-1600 228000-1953 228000-7301 428000-8400 228000-3811
	Cummins ISB, 6.7L	8200077		8200571 8300064 8200796	8200959 8200371 8200834 8200375	**61006211**	**8200077**		M105610	M009T71779 PC1779	428000-5310 428000-7090 438000-3110
	Cummins ISB, 6.7L No Ground Stud (Low Profile Turbo)	8200796 8200989		8200796 8200989	N/A	**61006209**	**N/A**		N/A	N/A	N/A
	Cummins ISC, 8.3L & ISL 8.9L	10478999 10461171 3921012 90027707	N/A	N/A	8200836 8200958 8200374	**N/A**	**8200005**	**8200433**	M105302 M105602	M009T71379 M009T72679 PC1379 PC2679 PC72679	28000-2690 228000-5311
	Cat 3126 7.2L Cat C7, 7.2L, with 3000 Allison	1993994 19026027 10461768 8300021 61230359			N/A		**8200076**	**N/A**	M105611	N/A	228000-5851
	Cat C7, 7.2L with 2000 Allison	8200055 10479207					**8201002**		M105612		N/A
	MBE 900, 7.2L MBE 904, 4.3L & MBE 906, 6.4L	10461772 19011403 8200570 8200565 61231341 A0061515001	10461454 10479648 10479645 10479637 10479651	8200103		**61006208**	**N/A**		N/A		428000-8470 428000-1881
	MBE 926, 7.2L	19026035 8300026	N/A	N/A	8200394	**N/A**	**8200075**		N/A		N/A
IC Bus	MaxxForce 7, 6.4L VT365, 6.0L	8200271 19011407 10461764 3591688C91 3804470C92	1113285 10461450	8200972	N/A	**61005266**	**N/A**	**N/A**	N/A	N/A	428000-0071
	Cummins ISB, 6.7L	8200077 8201039 4041862C91	N/A	8200571 8300064 8200796	8200959 8200371 8200834 8200375	**61006210**	**8200077**		M105610	M009T71779 PC1779	428000-7090 438000-3110
	T444E, 7.3L	10478890 10461170 1688615C91 2508912C91 3520840C91		N/A	N/A	**N/A**	**8200007**		M105617	N/A	228000-7371
	MaxxForce DT, 7.6L	8200217 10478999 10461171 8200251 8200252 8300005 3804471C91					**8200005**	**8200433**	M110610 M110606 M105302 M105602	MITIN3179 IN3179 MITIN1378 IN1378 MITIN2178 IN2178	428000-8370 228000-8510
Blue Bird Bus	Cummins ISB, 5.9L	1113276 90024059 90022947 2585095C91	LH MOUNT: 10465151 10479615 RH MOUNT: 1113276 10465043 10461481	LH MOUNT: 19011402 10461771 RH MOUNT: 19011400 19011409 10461770	N/A	**LH MOUNT: 61005264 RH MOUNT: 61005265**	**N/A**	**N/A**	N/A	N/A	428000-1600 228000-1953 228000-7301 428000-8400 228000-3811
	Cummins ISB, 6.7L	8200077 90032414		8200571 8300064 8200796	8200959 8200371 8200834 8200375	**61006211**	**8200077**		M105610	M009T71779 PC1779	428000-5120 428000-7090 438000-3110
	Cummins ISC 8.3L	10478999 10461171 8300005	N/A	N/A	8200836 8200958 8200374	**N/A**	**8200005**	**8200433**	M105302 M105602	M009T71379 M009T72679 PC1379 PC2679 PC72679	228000-5311 428000-7870
	Cat 3126 7.2L Cat C7, 7.2L, with 3000 Allison	1993994 19026027 10461768 8300021 1454651 90022950			N/A		**8200076**	**N/A**	M105611	N/A	228000-5851
	Cat C7, 7.2L, with 2000 Allison	8200055 10479207					**8201002**		M105612		N/A

STARTER SPECIFICATIONS

	29MT	31MT	38MT	39MT
Engine Size	12V up to 6.6L	12V up to 8L	12V up to 10L	12V up to 15L
Performance	3.3 kW	4.1 kW	4.6 kW	7.2 kW
Weight	17.6 lbs (8 kg)	18.5 lbs (8.4 kg)	27.6 lbs (12.5 kg)	30.21 lbs (13.7 kg)
Mounting	SAE #1	SAE #1	SAE #1, SAE #3	SAE #1, SAE #3
Pinions	9-tooth/Module 3 10-tooth/8-10 pitch 10-tooth/10-12 pitch 11-tooth/Module 3	10-tooth/10-12 pitch 10-tooth/8-10 pitch 9 -tooth/Module 3	10-tooth/8-10 pitch 12-tooth/8-10 pitch 11-tooth/Module 3	11-tooth/6-8 pitch 12-tooth/8-10 pitch 12-tooth/Module 3
Supports Wet & Dry Clutch Applications	✓			
School Bus Aftermarket Warranty	Minimum 2 Years/Unlimited Miles (Applicable to U.S. and Canada only)			

Delco Remy®

For Customer Service or
Technical Assistance call 800-372-0222

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