



## Application Guide for Alternator Kits

Sales Technical Support  
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### CATERPILLAR

| Engine     | Chassis                    | Years         | PennTex Part #      | Notes  |
|------------|----------------------------|---------------|---------------------|--|
| 3126 (C-7) | Freightliner FB-65 / FS-65 | 2001 - and up | PX-627SF or PX-627Q | J180 mount style or Quad Pad Mount. Replaces L/N 270 amp.            |
| C12 / C13  | Transit Bus and Motorcoach | 2006 - and up | PX-833****          | Upgrade air-cooled replacement for the belt-driven oil-cooled 50-DN. |

\*\*\*\*PX-833 series is a 28-volt, 330-amp air-cooled upgrade replacement for the oil-cooled 50-DN.

### CHEVROLET / GMC

| Engine                      | Chassis                   | Years              | PennTex Part #                   | Notes  |
|-----------------------------|---------------------------|--------------------|----------------------------------|--|
| 5.3L Gas                    | Cadillac Escalade Limo    | 2002 - and up      | PX-422V-10                       | Harness connection modification may be necessary on 2002 model.              |
| 5700 Vortec                 | G-Van Shuttle Bus         | 1997-98 (some 96)  | PX-421V superceded to PX-422V-10 | Harness modification necessary (Early 1996 models may require 96-inch belt). |
| 5.7L Gas                    | Express & Savanna Vans    | 1999 - 2002        | PX-420G-5                        | Uses PX-1128 K6 pulley.  |
| 6.0L Gas                    | Cadillac Escalade Limo    | 2003 - and up      | PX-422V-10                       | Drop in fit in the OEM alternator location.                                  |
| 6.0L Gas                    | H-2 Humvee Limo           | 2003 - and up      | PX-422V-10                       | Drop in fit in the OEM alternator location.                                  |
| 6.0L Gas                    | Suburban Limo             | 2003 - and up      | PX-422V-10                       | Drop in fit in the OEM alternator location.                                  |
| 6.0L Gas (C3500 chassis)    | Express & Savanna Vans    | 2003 - and up      | PX-422V-10* or PX-422V-2 & 4**   | Drop in fit in the OEM alternator location. (See footnotes * and ** below)   |
| 6.0L Gas                    | Tahoe and Yukon           | 2003 - and up      | PX-422V-10                       | Drop in fit in the OEM alternator location.                                  |
| 6.5L Turbo Diesel           | G-Van & Express / Savanna | 1997- 02 (some 96) | PX-420G-5                        | Equipped with PX-1128 K6 pulley, May require a 102.62-inch belt on G-vans.   |
| 6.6L Diesel (C4500 chassis) | GMT-540 Shuttle Bus       | 2006 - and up      | PX-422V-10                       | Drop in fit in the OEM alternator location.                                  |
| 6.6L Diesel (C5500 chassis) | GMT-560 Shuttle Bus       | 2006 - and up      | PX-422V-10                       | Drop in fit in both OEM alternator locations. (See special note)             |

**Special Note** - Earlier C4500 & C5500 chassis prior to 2006 with 6.6L diesel engine may require harness connection modification.

|                             |                           |                      |                              |  |
|-----------------------------|---------------------------|----------------------|------------------------------|--|
| 6.6L Diesel (C3500 chassis) | GMT-610 Shuttle Bus       | 2006 - and up        | PX-422V-10* or PX-422V-2/4** | Drop in fit in the OEM alternator location. (See footnotes * and ** below)           |
| 7400 Vortec                 | G-Van & Express / Savanna | 1997- 2000 (some 96) | PX-420G-5                    | Equipped with PX-1128 K6 pulley. Older models may require a 100.62-inch belt.        |
| 8.1L Gas (C4500 & C5500)    | GMT-540 / 560 Shuttle Bus | 2005 - and up        | PX-422V-10                   | Drop in for the OEM alternator location. Earlier years require harness modification. |
| 8.1L Gas                    | Suburban Limo             | 2003 - and up        | PX-422V-10                   | Drop in fit in the OEM alternator location.  |

\* PX-422V-10 is the standard OEM 10:00 output post position. Some late model applications may have a two-wire plug connection and require minor harness connection modification.

\*\* PX-422V-2 and PX-422V-4 are used when a special output post clocking is needed to allow for special clearance needs when the alternator is relocated to a secondary A/C compressor bracket.

### CUMMINS

| Engine         | Chassis                | Years         | PennTex Part #               | Notes   |
|----------------|------------------------|---------------|------------------------------|---|
| 6BT 5.9 Diesel | Misc. Shuttle & School | 1995 - and up | PX-320S, PX-325S, PX-328S*** | Fits standard large J180 mount. Use PX-1355 K8 pulley on PX-328S. |

\*\*\* PX-320S is a 14-volt, 200-amp charging system, PX-325S is a 14-volt, 250-amp charging system, and PX-328S is a 14-volt, 285-amp charging system.

**Special note** - several engine manufacturers have upgrade alternator mounting brackets to replace the factory equipped Delco 21si and 22si alternators with the higher output PX-3 series.

|                 |                            |                  |                     |  |
|-----------------|----------------------------|------------------|---------------------|--|
| ISB / ISC       | Freightliner FB-65         | 2002 - and up    | PX-627SF            | Must have large J180 mount bracket. Use PX-1355 K8 pulley.           |
| ISB / ISC       | Thomas / Bluebird          | Most model years | PX-627S and PX-635S | Fits standard large J180 mount. Use PX-1355 K8 pulley.               |
| ISC / ISL / ISM | Transit Bus and Motorcoach | 1998 - and up    | PX-833****          | Upgrade air-cooled replacement for the belt-driven oil-cooled 50-DN. |

\*\*\*\* PX-833 series is a 28-volt, 330-amp air-cooled upgrade replacement for the oil-cooled 50-DN.

### DETROIT DIESEL

| Engine              | Chassis                    | Years            | PennTex Part #      | Notes  |
|---------------------|----------------------------|------------------|---------------------|--|
| Series 40 / 50 / 60 | Thomas / Bluebird          | Most model years | PX-627S and PX-635S | Fits standard large J180 mount. Use PX-1355 K8 pulley.               |
| Series 50 / 60      | Transit Bus and Motorcoach | Most model years | PX-833****          | Upgrade air-cooled replacement for the belt-driven oil-cooled 50-DN. |

\*\*\*\*PX-833 series is a 28-volt, 330-amp air-cooled upgrade replacement for the oil-cooled 50-DN.



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### DODGE/CHRYSLER

| Engine      | Chassis           | Years         | PennTex Part # | Notes  |
|-------------|-------------------|---------------|----------------|--|
| 360 Gas     | Ram Van           | 1995-2003     | PX-220P2D-5    | Equipped with PX-1155 K7 pulley. Bracket kit PX-3600 required.             |
| 5.9L Diesel | Ram Pick-up Truck | Various years | PX-421-SMD     | Equipped with PX-1155 K7 pulley. Must use PX-1199 Field Wire Resistor Kit. |

### FORD

| Engine  | Chassis                    | Years             | PennTex Part #                 | Notes  |
|---|----------------------------|-------------------|--------------------------------|--|
| 4.6L Gas  | Ford Police / Lincoln Limo | 1996 - 2002       | PX-220RL-5T                    | Equipped with PX-1353 K6 pulley and PX-1335 rear support bracket.                                |
| 4.6L Gas  | E-250 series               | Late 2001 - 2008  | PX-220R-5T                     | For single OEM A/C compressor and a tied in rear condenser. (Tie-in Systems)                     |
| 5.4L v8 Gas   | E-350 / 450 series         | 1997 - late 2001  | PX-220R-5 or PX-220R-5T        | Equipped with PX-1130 K8 pulley and PX-1258T rear support bracket.                               |
| 5.4L v8 Gas   | E-350 / 450 series         | Late 2001 - 2008  | PX-220R-5A (7/16" bolt holes)  | Used with dual A/C compressors & mount bracket (Max-A/C sys.)-K6 pulley.                         |
| 5.4L v8 Gas   | E-350 / 450 series         | 2009 - 2010       | PX-220RC-A (7/16" bolt holes)  | Used with dual A/C compressors & mount bracket (Max-A/C sys.)-K6 pulley.                         |
| 5.4L v8 Gas   | E-350 / 450 series         | Late 2001 - 2008  | PX-220R-5T (8mm bolt holes)    | Used w/single OEM A/C comp (Tie-in Syst.) - K6 pulley & PX-1258T rear brace.                     |
| 5.4L v8 Gas   | E-350 / 450 series         | 2009 - 2010       | PX-220RC-T (8mm bolt holes)    | Used w/single OEM A/C comp (Tie-in Syst.) - K6 pulley & PX-1258T rear brace.                     |
| 5.4L v8 Gas   | F-250 / 350 series         | 1998 - 2006       | PX-220R-5T                     | 1998-01 use PX-1130 K8 pulley - 2002-06 uses PX-1129 K6 pulley.                                  |
| 5.4L v8 Gas   | F-250 / 350 series         | 2007 - 2010       | PX-220RM-5T (8mm bolt holes)   | Works with PCM monitored system. Equipped with PX-1129 K6 pulley.                                |
| 6.0L Diesel   | E-350 / 450 series         | 2004 - 2010 * (1) | PX-520TD6 and PX-525TD6        | <b>Must use with BSI</b> alternator support bracket & belt kit #A1-0052 for Max-A/C sys.         |
| 6.0L Diesel   | E-350 / 450 series         | 2004 - 2010 * (2) | PX-520TD6C and PX-525TD6C      | <b>Must use with Carrier</b> bracket & belt kit <b>PX-5806</b> for single A/C comp.& Tie-in sys. |
| 6.0L Diesel   | E-350 / 450 series         | 2004 - 2010 * (3) | PX-520TD12 and PX-525TD12      | <b>Must use with Carrier</b> bracket & belt kit #72-62035-02 for Max- A/C system.                |
| 6.0L Diesel   | F-250 / 550 series         | 2003 - 2010 * (4) | PX-220TF-6.0L                  | F- series diesel truck chassis only.   |
| <b>* Application note:</b> 2009-10 6.0L diesel applications require a PCM monitored style charging system. See part numbers referenced below or contact PennTex for additional application assistance.          |                            |                   |                                |  |
| <b>(1) PX-520TDM6, PX-525TDM6 (2) PX-520TDM6C, PX-525TDM6C (3) PX-520TDM12, PX-525TDM12 (4) PX-220TFM-6.0L</b>  |                            |                   |                                |  |
| 6.8L v10 Gas  | E-350 / 450 series         | 1997 - 2001       | PX-520RD and PX-525RD          | Equip. w/ PX-1130 K8 pulley. Special mounting bracketry req. (See footnotes*,**)                 |
| 6.8L v10 Gas  | E-350 / 450 series         | 2002 - 2008       | PX-520RD and PX-525RD          | Equip. w/ PX-1130 K8 pulley. Special mounting bracketry req. (See footnotes*,**)                 |
| 6.8L v10 Gas  | E-350 / 450 series         | 2009              | PX-520RDC and PX-525RDC        | Equip. w/ PX-1130 K8 pulley. Special mounting bracketry req. (See footnotes*,**)                 |
| 6.8L v10 Gas  | E-350 / 450 series         | 2010              | <b>PX-723RDC and PX-725RDC</b> | Equip. w/ PX-1130 K8 pulley. Special mounting bracketry req. (See footnotes*,**)                 |
| <b>* For Max-A/C system chassis (two A/C compressors), the PX-5RD and PX-7RD series usually mounts onto the second A/C compressor bracketry.</b>  |                            |                   |                                |  |
| <b>** For single A/C compressor chassis-use the following bracket kits: (1997-01) use <b>PX-2517-3</b> - (2002-07) use <b>PX-2517-4</b> - (2008) use <b>PX-2517-08</b> - (2009-2010) use <b>PX-2517-09</b>.</b> |                            |                   |                                |  |
| 6.8L v10 Gas  | E-350 / 450 series         | 2002 - 2008       | PX-220R-5 or PX-220R-5T        | Only used when support bracketry for PX-5RD series is not available.                             |
| 6.8L v10 Gas  | E-350 / 450 series         | 2009 - 2010       | PX-220RC-T                     | Only used when support bracketry for PX-5RD series is not available.                             |
| 6.8L v10 Gas  | F-250 / 550 series         | 1998 - 2006       | PX-220R-5 or PX-220R-5T        | 1998-01 uses PX-1130 K8 pulley - 2002-06 uses PX-1129 K6 pulley.                                 |
| 6.8L v10 Gas  | F-250 / 550 series         | 2007 - 2010       | PX-220RM-5 or PX-220RM-5T      | Works with PCM monitored system. Equipped with PX-1129 K6 pulley.                                |
| 7.3L Diesel   | E-350 series               | 1988 - Feb. 1992  | PX-220P-5                      | <b>Needs a special double groove pulley</b> - 3-5/16"OD x 1/2" x 3/8" grooves.                   |
| 7.3L Diesel   | E-350 series               | Mar. 1992 - 1994  | PX-220T-5                      | 1992 uses a K6 or K7 pulley; 93-94 uses a K8 pulley.   |
| 7.3L Diesel   | E-350 / 450 series         | 1995 - 2003       | PX-520TD / PX-627T/ PX-635T    | The PX-5T uses PX-1130 K8 pulley; the PX-6T uses PX-1238 K8 pulley.                              |
| 7.3L Diesel   | F-250 / 450 series         | 1995 - 2003       | PX-220TF or PX-520TFD          | Equipped with PX-1130 K8 pulley.   |
| 7.5L 460 Gas  | E-350 series               | 1988 - 1996       | PX-220P-5                      | Equipped with PX-1129 K6 pulley. May require modifications to OEM bracket.                       |
| 7.5L 460 Gas  | E-350 series               | 1994 - 1996       | PX-520PD                       | Equipped with PX-1129 K6 pulley. May require modifications to OEM bracket.                       |



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### FREIGHTLINER

| Engine                | Chassis             | Years         | PennTex Part #      | Notes   |
|-----------------------|---------------------|---------------|---------------------|---|
| Caterpillar 3126 (C7) | FB-65, MB-45, MB-55 | 2001 - and up | PX-627SF or PX-627Q | J180 mount style or Quad Pad Mount. Replaces L/N 270 amp. |
| Cummins ISB / ISC     | FB-65, MB-45, MB-55 | 2001 - and up | PX-627Q and PX-635Q | Quad pad mount for Cummins.                               |
| Mercedes 6.4L         | FB-65, MB-45, MB-55 | 2001 - and up | PX-627SF            | J180 mount style. Replaces L/N 270 amp.                   |

### INTERNATIONAL/NAVISTAR

| Engine                       | Chassis                  | Years            | PennTex Part #             | Notes   |
|------------------------------|--------------------------|------------------|----------------------------|---|
| T444E                        | 3400, 3000RE, 3800       | 1994 - 2002      | PX-320S, PX-325S, PX-328S* | Fits standard large J180 mount. Use PX-1355 K8 pulley. (See footnote*)    |
| T444E                        | 3400 / 3800              | 1995 - 2002      | PX-627S and PX-635S        | Fits standard large J180 mount. Use PX-1355 K8 pulley.                    |
| DT466                        | International / Bluebird | Most model years | PX-627S and PX-635S        | Fits standard large J180 mount. Use PX-1355 K8 pulley.                    |
| 7.6L Maxx-force D7           | IC School Bus - RE300    | 2008 - and up    | PX-627Q and PX-635Q        | Fits standard large quad pad mount. Use PX-1355 K8 pulley.                |
| T444E, DT-466, VT-365        | 3200, 3400, 3800 chassis | 2003 - and up    | PX-627S and PX-635S        | Fits standard large J180 mount. Use PX-1355 K8 pulley.                    |
| Misc. Eng. w/Delco 21 / 22si | Misc. chassis            | Most model years | PX-421JM**                 | Delco 21si and 22si replacement. Use PX-1131 K8 pulley on Cummins engine. |
| Misc. Eng. w/Delco pad mnt.  | Misc. chassis            | 2003 - and up    | PX-421PM**                 | Delco pad mount replacement. Use PA-4020 K8 pulley. (See footnote*)       |

\* PX-320S is a 14-volt, 200-amp charging system, PX-325S is a 14-volt, 250-amp charging system, and PX-328S is a 14-volt, 285-amp charging system.

\*\* Special note - several engine manufactures have upgrade alternator mounting brackets to replace the factory equipped Delco 21si and 22si alternators with the higher output PX-3 series.

### ISUZU

| Engine        | Chassis       | Years       | PennTex Part # | Notes                                       |
|---------------|---------------|-------------|----------------|---|
| 6.0L Gas (GM) | NPR HD Series | 2008 - 2010 | PX-422V-10     | Drop in fit in the OEM alternator location. |

### WORKHORSE CHASSIS

| Engine            | Chassis                    | Years         | PennTex Part # | Notes  |
|-------------------|----------------------------|---------------|----------------|--|
| 6.5L Diesel       | Workhorse Worktruck        | 2002 - 2004   | PX-422V        | Harness plug modification may be necessary on some older models. |
| 6.6L Diesel       | Workhorse Worktruck        | 2005 - and up | PX-422V        | Drop in fit in the OEM alternator location.                      |
| 8.1L Gas          | Workhorse Worktruck        | 2002 - 2004   | PX-422V        | Harness plug modification may be necessary on some older models. |
| 8.1L Gas          | Workhorse Worktruck        | 2005 - and up | PX-422V        | Fits in OEM location with plug in harness.                       |
| Cummins ISB / ISC | Workhorse Bus Chassis with | 2002 - and up | PX-627Q (275A) | Large frame four bolt Pad Mount style for Cummins.               |
|                   | Quad Pad Mount alternators |               | PX-635Q (350A) |  |

For Batteryless 28-volt A/C applications the 140-amp (PX-614S) is available.

For normal 28-volt applications the 175-amp PX-317 series, 160-amp PX-616 series, and 190-amp PX-619 series alternators are also available.