

# National N300 Master Parts Rev 8A: See N300 IPL Dwg. Rev 8

Print Date: 09/16/2003

N300 Master Parts & Price List R8.123 Issued 08/25/2003 MPM8 (Master Parts Manual Rev. 8)

#	National Number	Part Description
1	<b>1-GA</b>	Custom Drive End, 0.381 Foot and Link bore. BLACK Powdercoat. For Option "GA" ONLY
1	<b>1-MA</b>	Replaces 1-2PS. Prestolite retrofit DE, MODIFIED UNIVERSAL Ear; REQUIRED for Option "MA" DUAL FOOT
1	<b>1-PA</b>	Prestolite retrofit drive end for Piper Super 700 w/factory air conditioning; dual foot use. BLACK
1	<b>1-TC</b>	Option "TC" DE Frame, 5/16" Mounting Bolt, 5/16-18 adjusting link: BLACK
1	<b>1-2C</b>	Chrysler/Prestolite retrofit DE Frame, 3/8" Mounting Bolt, 5/16-18 adjusting link: BLACK
1	<b>1-2L</b>	Prestolite Retrofit, Delco SHORT FOOT, for OPTIONS "L" and "D"
1	<b>1-2F</b>	Ford retrofit DE Frame, 7/16" Mounting Bolt, 3/8-16 adjusting link: BLACK
1	<b>1-2FR</b>	Ford retrofit DE Frame, 7/16" Mounting Bolt, 3/8-16 adjusting link: ROTAX ONLY
1	<b>1-2P</b>	Prestolite retrofit DE, UNIVERSAL Ear; for "RN" DUAL FOOT applications: BLACK
1	<b>1-RF2</b>	Rear Foot for use with 1-2P & 1-2PS above; Prestolite Dual Foot Configuration for AeroStar, Navajo
2	<b>45020</b>	Rotor, 12 volts Hi Output ( 2.1-3.2 ohms nominal); optional on standard 12 volt units
2	<b>50021</b>	Rotor, 12 volts; STANDARD (4 ohms nominal)
2	<b>75022</b>	Rotor, 24 volts, 70 AMPS; STANDARD (8 ohms nominal)
2	<b>75022K</b>	Rotor, 24 volts, 70 AMPS; Log shaft w/keyway; Standard on Opt "MA" & "PA"
2	<b>60021</b>	Rotor, 24 volts, Standard on 85 & 100 A. 24 v. units; OPTIONAL all other 24v.(5.2 ohms)
2	<b>30018</b>	Rotor, Option "GA"; custom application NOT for use on standard general aviation alternators
2	<b>103023</b>	Rotor, 24 volts, for 2 - 2.5 amp FIELD current requirements. Matches original Delco, Prestolite
3	<b>47Y</b>	Replaces P/N 3-1: Stator, STANDARD + OPTIONS "LW" & "L", 24 volts, 70 amps (GREEN-BLACK) "WYE"
3	<b>47D</b>	Replaces P/N 3-1: Stator, STANDARD + OPTIONS "LW" & "L", 12 volts, 70 amps (GREEN) "DELTA"
3	<b>43D</b>	Replaces P/N 3-2: Stator , 12 volt, 70 - 100 amps (WHITE DOT ON STATOR SLOT)
3	<b>43DH</b>	Replaces P/N 3-2: Stator, 24 volt 85/110 Amps (RED STRIPE ON STATOR SLOT)
3	<b>43YH</b>	Replaces P/N 3-3: Stator , 24 volt, 70 amps; (WHITE STRIPE ON STATOR SLOT)
3	<b>58</b>	Stator, Heavy Stack; 14 volts, 130 Amps (2 RED DOTS ON STATOR SLOT)
3	<b>58D</b>	Replaces P/N 3-4: Stator (HEAVY : 5-plate center stack), 24 volt, 100/120 amps (3-RED DOTS ON STATOR SLOT)
4	<b>4-0</b>	Slip Ring End (SRE) Hsg, Ford/Chrysler/Delco and Prestolite retrofit Style: BLACK
4	<b>4-1</b>	Slip Ring End (SRE) Hsg, Ford/Chrysler/Delco and Prestolite retrofit Style: ROTAX
4	<b>4-2</b>	Slip Ring End (SRE) Hsg, New Style, optional (Limited Production Item)
5	<b>8-1</b>	Fan pkg., cast aluminum; Bi Directional
5	<b>8-1B</b>	Fan pkg., cast aluminum; Bi Directional, BLACK Powder Coated; REQUIRED on Option "GA"
5	<b>8-2</b>	Fan pkg., machined 1-piece 6061T6 aluminum, natural finish, Bi Directional
5	<b>8-2A</b>	Fan pkg., machined 1-piece 6061T6 aluminum, hard anodized, Bi Directional
5	<b>8-2B</b>	Fan pkg., machined 1-piece 6061T6 aluminum, BLACK powder coated, Bi Directional
6	<b>8-ATI</b>	Serpentine Pulley, 6061T6 stock w/black hard-coat anodizing, Option GA ONLY
6	<b>8-C/CL</b>	Chrysler retrofit pulley
6	<b>8-F</b>	3" x 3/8" groove Ford retrofit pulley
6	<b>8-FB</b>	2.5" x 3/8" groove pulley for use on Beech Baron Option "BB" 70 & 100 Amp replacement alternators
6	<b>8-FC</b>	3" Serpentine Ford retrofit pulley

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6	<b>8-FCS</b>	2.5" Serpentine Ford retrofit pulley for H.O. alternators
6	<b>8-FC2AC</b>	Dual 3/8" belt airconditioning pulley, Ford retrofit for Cessna 210 with Keith engine driven compressor
6	<b>8-FS</b>	2.5" x 3/8" groove Ford retrofit pulley
6	<b>8-G</b>	Prestolite retrofit pulley (2.5" dia.) for OPTION TC generator conversions; C-310 & C-182
6	<b>8-GE</b>	Prestolite EXTENDED retrofit pulley (2.5" dia.) for OPTION TC generator conversions; C-310 & C-182
6	<b>8-GS</b>	Prestolite SHORT retrofit pulley (2.5" dia.) for OPTION TC generator conversions; C-310 & C-182
6	<b>8-M</b>	Prestolite retrofit pulley, 3" x 1/2" belt groove; Generator conversion
6	<b>8-MS</b>	Prestolite retrofit pulley, 2.5" x 1/2" belt groove; Generator conversion
6	<b>8-P</b>	Prestolite retrofit pulley, 3/8" belt groove (8P Revision 1; Previously 8D)
6	<b>8-PAL</b>	Prestolite retrofit pulley, single groove, AeroStar application, non-keyed, for standard P324RN
6	<b>8-PAL-K</b>	Prestolite retrofit pulley, single groove, AeroStar application, KEYED; PiperSuper 700 w/AC, replaces OEM
6	<b>8-PAR</b>	Prestolite retrofit, DUAL BELTS, for Piper Super 700 w/AC; KEYED, replaces OEM/STC'd unit
6	<b>8-PL</b>	Prestolite Retrofit Pulley, light weight, for Option LW (8P rev 2)
6	<b>8-S</b>	Prestolite retrofit pulley, 3" dia. x 7/16" belt groove
7	<b>NB X-3416</b>	Drive End (DE) Bearing; National NB X-3416 PMA bearing
8	<b>NB 471S</b>	Slip Ring End (SRE) bearing
9	<b>9-1</b>	Retainer, D.E. bearing
10	<b>N-52A</b>	Positive Heat Sink: no rectifiers or hardware
10	<b>N-52B</b>	100 Amp Heat Sink ass'y, w/ complete POSITIVE & NEG rectifier package
10	<b>N-52</b>	70 Amp Heat Sink ass'y (STANDARD), w/3 POSITIVE & 3 NEG rectifiers
11	<b>N-53</b>	DIODE PKG of 3: Positive rectifier, 70 Amp Alternator Applications (RED DOT)
11	<b>N-53A</b>	DIODE PKG of 3: Positive rectifier, 100 Amp Alternator Applications (RED LEADS)
11	<b>N-55</b>	DIODE Rectifier PAIR; 1 Positive and 1 Negative diode for 100 Amp Alternators
12	<b>N-54A</b>	DIODE PKG of 3: Negative rectifier, 100 Amp Alternator Applications (BLACK LEADS)
12	<b>N-54</b>	DIODE PKG of 3: Negative rectifier, 70 Amp Alternator Applications (BLACK DOT)
13	<b>N-60</b>	Brush Holder Ass'y, Delco w/"R" Terminal
13	<b>N-60S</b>	Brush Holder Ass'y, Ford/Chrysler/Delco
13	<b>N-61S</b>	Brush Holder Ass'y; Prestolite ISOLATED FIELD
13	<b>N-62S</b>	Brush Holder Ass'y; ISOLATED FIELD, P/N 81367XL Brush; OPTION "GA" ONLY
13	<b>N-63S</b>	Brush Holder Ass'y; ISOLATED FIELD, P/N 81367XLR-2220 Brush, OPTION "GA" ONLY
13	<b>N-64S</b>	Brush Holder Ass'y; ISOLATED FIELD, P/N 63914618 Brushes, Option "GA" ONLY.
14	<b>14-1</b>	Nut, Rotor
15	<b>15-1</b>	Washer, Rotor
16	<b>16-1</b>	Spacer, DE Bearing, Outside (SUPERSEDED ITEM; used with 8-1X FAN, only)
16	<b>16-2</b>	Spacer, DE Bearing-to-Pulley (RED STRIPE); MOONEY NO-FAN APPLICATION
17	<b>13-29</b>	Washer, split lock
18	<b>13-3</b>	Screw Kit, Bearing Retainer (pkg. of 3; includes lock washers, P/N 13-29)

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19	<b>13-4</b>	Spacer, Fan-To-Pulley (SUPERSEDED ITEM, used with 8-1X FAN, only)
20	<b>13-11</b>	Nut, Stator Terminal
21	<b>13-10</b>	Stud, Stator Terminal
22	<b>12-1</b>	Insulator, Stator Terminal
23	<b>13-28</b>	Screw, Positive Heat Sink or Brush Holder Retainer
24	<b>13-30</b>	Washer, Positive Heat Sink or Brush Retainer (AN-969C-10)
25A	<b>12-10</b>	Insulator, (Top) Positive Heat Sink
25B	<b>12-13</b>	Insulator (Bottom), Positive Heat Sink
26		RESERVED
27	<b>N93</b>	Capacitor
27	<b>N91</b>	Capacitor, Optional HD Rear Case
28	<b>12-15</b>	Retainer, Capacitor
29	<b>13-31</b>	Flat Washer, SS
30	<b>13-B</b>	Thru Bolt, High Strength, Stainless Steel
30	<b>13-BL</b>	Thru Bolt, High Strength, Stainless Steel; Use 2 ea. P/N 13-BL & 2 ea. P/N 13-B for "RN" alternators with RF-2 rear foot
30A	<b>13-A</b>	Washer, Thru Bolt Head, SS
30B	<b>13-BB</b>	Washer, Case (under locking nut); AN960C10
30C	<b>13-BBB</b>	Locknut, thru bolt (MS21042-3C)
31	<b>13-40</b>	Stud, Ground Terminal
32	<b>12-5</b>	Split Lockwasher, SS
33	<b>S-636</b>	Insulator, Battery or Ground Term; per insulator
34	<b>13-38</b>	Nut, SS, Battery & Ground Terminal
35	<b>13-34</b>	Bolt, Battery Terminal
35	<b>13-34L</b>	Bolt, Battery Terminal, EXTENDED: For use with BLAST TUBE
36	<b>NI-3</b>	Insulator, AUX Terminal
37	<b>NI-2</b>	Insulator, Sleeve; BAT Terminal in Blast Tube
38	<b>NI-1</b>	Insulator, Sleeve: GND Terminal
39	<b>13-36</b>	Flat Washer, SS
40	<b>13-37</b>	Nut, SS, BAT Terminal; Superseded Item, replace with P/N 13-38
41	<b>13-1</b>	Terminal Kit, GROUND
42	<b>13-7</b>	Terminal Kit, BATTERY
42	<b>13-7L</b>	Terminal Kit, BATTERY; Long stud for use with BT-1 Blast Tube installation
43	<b>13-2</b>	Terminal Kit, AUXILIARY TERMINAL
44	<b>13-44</b>	Bolt, AUXILIARY TERMINAL
44	<b>13-44L</b>	Bolt, Extra Length, AUXILIARY TERMINAL, used with BT-1 Blast Tube installation
45	<b>13-45</b>	Washer, Flat SS, Thin (AN960C-8L)
	<b>AL-1</b>	Adjusting Link, Alternator (Prestolite)

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	<b>AL-1A</b>	Adjusting Link, Alternator (Prestolite, used on TCM 470/520 engines); Superseded by P/N AL-5A
	<b>AL-1B</b>	Adjusting Link, Alternator (Prestolite); Light Weight for Option LW
*	<b>AL-1E</b>	Adjusting Link Adapter UNIVERSAL EAR (Prestolite); REQUIRES MACHINING/FACTORY FIT
	<b>AL-2</b>	Adjusting Link, Alternator (Ford used on TCM 470/520 engines)
	<b>AL-2A</b>	Adjusting Link, Alternator (Prestolite, used on PA-28/32 aircraft with A/C)
	<b>AL-3</b>	Adjusting Link, Alternator (Chrysler)
	<b>AL-3A</b>	Adjusting Link, Alternator (Chrysler); STANDARD
	<b>AL-5</b>	Adjusting Link, Alternator (Prestolite used on C-310/320 conversion) Option TC
	<b>AL-5A</b>	Adjusting Link, Alternator (Prestolite used on some C-180 conversion) Option TC; no bushings used
	<b>AL-5S</b>	Adjusting Link, Alternator (SHORT ) used on C-310/320 conversion, w/bushing
	<b>AL-5E</b>	Adjusting Link, Alternator (Prestolite used on C-310/320 conversion), Engine Attached w/bushing
	<b>AP-1</b>	Plug Ass'y, Alternator Field, "F" Terminal ONLY: Chrysler, Delco & Ford
	<b>AP-1A</b>	Plug Ass'y, Alternator Field, "F1" & "F2" Terminals: Prestolite retrofit applications
	<b>BT-1</b>	Blast Tube
	<b>RF-2</b>	Rear Leg mount, Dual-Foot Alternators
	<b>N502</b>	Housing (AP-1), Field Connector; no terminals
	<b>N1340</b>	Terminal (AP-1), Field Connector
	<b>158</b>	Mount, Alternator; Lycoming NARROW DECK, use with P312/P342 R-series alternator: NET
	<b>474</b>	Mount, Alternator; Lycoming WIDE DECK, use with P312/P324 R-series alternator: NET
	<b>643935NM</b>	Mount, Alternator; Cast Mount, No leg; TCM O-470 series with F312R & F324R alternators: NET
	<b>643935N</b>	Mount, Alternator; Cast Mount, W/leg; TCM O-470 series with F312R & F324R alternators: NET
	<b>632357N</b>	Spacer for TCM Cast Mounts above: NET
	<b>AN6-43A</b>	Bolt, Alternator Foot, for use with 474 and 158 Mount
	<b>FS-1</b>	Spacer, Ford Alternator retrofit adjusting ear
	<b>NS-2</b>	Spacer, Option TC Kit
	<b>NS-3</b>	Spacer, Option TC Kit
	<b>FB-3</b>	Foot Bolt, with hardware; Option TC Kit
	<b>74323</b>	Strut, Alternator
	<b>630519</b>	Bushing, Generator Mount, Rubber
	<b>SB-1</b>	Alternator adjusting ear bolt, Option TC Kit
	<b>BCM-1</b>	Alternator Brush Change Manual
	<b>CPP-C</b>	Advanced Corrosion & Current Leakage Protection Package: Double-seal STATOR and ROTOR with
	<b>CPP-R</b>	Class "F" Insulating Varnish (2,100 Volts Per Mil); Note: "-C" = CLEAR "-R" = RED