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305.470.9306



### Navistar® - Engines

		LITER	ENGINE MODEL	CYL	SERIAL NUMBER	NOTES
		5.9	DT360	6		1987-1993
		6.0	VT365	8		2003-2007, DIT
		6.7	DT408	6	408G Prefix	1993-1997: PLN fuel system
		7.3	7.3 IDI / 444	8	Model year 1988-93	1.110 piston pin, Natural or Afterarket turbo
		7.3	7.3 IDI / 444	8	Model year 1994-95	1.308 piston pin, IDI Factory turbo
		7.3	7.3 DI / T444E	8	Model year 1994-03	1.308 piston pin, DI turbo "Powerstroke"
		7.6	DT466	6	466, 467, 468 prefix	1975-1993
		7.6	DT466 PLN	6	469G prefix; 850,654 ->	1993-1997: PLN fuel system; first built 9/27/93
		7.6	DT466 E	6	469H prefix; 933,834 ->	1995-2002: HEUI fuel system; first built 5/1/95
		7.6	DT466 Big bore	6		2000-2003: 4.587 bore
		8.7	I530	6	530G prefix	1993-2002: PLN fuel system, Direct injection
		8.7	I530E	6	530H prefix	1996-2002: HEUI fuel system
		9.0	9.0L / 551	8		1980-1988

<b>Navistar</b> Diesel 1987 - 1993	<b>DT360, 5.9L</b>	6 Cylinder Bore 4.010 Stroke 4.751	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> <b>305.470.9306</b>
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### ENGINE KITS

<b>IH-DT360-IF-1</b>	<b>InFrame kit</b>	esn -> 39374 [Cylinder kit 1809920-WR, piston 1809912]
<b>IH-DT360-OF-1</b>	<b>Overhaul kit</b>	esn -> 39374 [Cylinder kit 1809920-WR, piston 1809912]
<b>IH-DT360-IF-2</b>	<b>InFrame kit</b>	esn 39375 - 72706 [Cylinder kit 1811894, piston 1811749, rings 1809919]
<b>IH-DT360-OF-2</b>	<b>Overhaul kit</b>	esn 39375 - 72706 [Cylinder kit 1811894, piston 1811749, rings 1809919]
<b>IH-DT360-IF-3</b>	<b>InFrame kit</b>	esn 72707 - 90975 [Cylinder kit 1815404, piston 1815309, rings 1809919]
<b>IH-DT360-OF-3</b>	<b>Overhaul kit</b>	esn 72707 - 90975 [Cylinder kit 1815404, piston 1815309, rings 1809919]
<b>IH-DT360-IF-4</b>	<b>InFrame kit</b>	esn 90976 -> [Cylinder kit 1817250-WR, piston 1817178]
<b>IH-DT360-OF-4</b>	<b>Overhaul kit</b>	esn 90976 -> [Cylinder kit 1817250-WR, piston 1817178]

### CYLINDER KIT

<b>6 1809920-WR</b>	<b>Cylinder kit</b>	4.010 bore [1809912 piston, 1809914 pin, 326751 ret, 1809919 rings, 1809935 liner, 1809938 orings] esn -> 39374
<b>6 1811894</b>	<b>Cylinder kit</b>	4.010 bore, Does not include rings [1811749 piston, 1809914 pin, 326751 ret, 1809935 liner, 1809938] esn 39375 - 72706
<b>6 1815404</b>	<b>Cylinder kit</b>	4.010 bore, Does not include rings [1815309 piston, 1809914 pin, 326751 ret, 1809935 liner, 1809938] esn 72707 - 90975
<b>6 1817250-WR</b>	<b>Cylinder kit</b>	4.010 bore [1817178 piston, 1809914 pin, 326751 ret, 1817251 rings, 1809935 liner, 1809938 orings] esn 90976 ->
<b>6 1809912</b>	<b>Piston body</b>	esn -> 39375 Early 1989
<b>6 1811749</b>	<b>Piston body</b>	esn 39375 - 72706 Late 1989
<b>6 1815309</b>	<b>Piston body</b>	esn 72707 - 90975 1990
<b>6 1817178</b>	<b>Piston body</b>	esn 90976 -> 1990 and up
<b>6 1809914</b>	<b>Piston pin</b>	
<b>12 326751</b>	<b>Pin retainers</b>	2 per piston
<b>6 1809919</b>	<b>Ring set</b>	Use with pistons: 1809912, 1811749, 1815309 esn -> 90975
<b>6 1817251</b>	<b>Ring set</b>	Use with piston: 1817178 esn 90976 ->
<b>6 1809935</b>	<b>Cylinder liner</b>	Bare liner
<b>6 1809938</b>	<b>Cylinder liner oring kit</b>	Oring kit for one liner
<b>6 1809939</b>	<b>Oring kit</b>	Single oring
<b>1 7243661</b>	<b>Bearing main set</b>	3.3742/3.3755 journal; (6) MB2626P, (1) MB2627P flanged
<b>1 1823860</b>	<b>Bearing main set</b>	.010
<b>1 1823861</b>	<b>Bearing main set</b>	.020
<b>1 MS1342P30</b>	<b>Bearing main set</b>	.030
<b>6 684552</b>	<b>Bearing main pair</b>	Std; 6 contained in set 1823859
<b>6 684555</b>	<b>Bearing main pair</b>	.010; 6 contained in set 1823860
<b>6 687385</b>	<b>Bearing main pair</b>	.020; 6 contained in set 1823861
<b>1 684561</b>	<b>Bearing thrust pair</b>	Std, flanged; 1 contained in set 1823859
<b>1 684564</b>	<b>Bearing thrust pair</b>	.010, flanged; 1 contained in set 1823860
<b>1 687388</b>	<b>Bearing thrust pair</b>	.020, flanged; 1 contained in set 1823861

<b>Navistar</b> Diesel 1987 - 1993	<b>DT360, 5.9L</b> (Continued)	6 Cylinder Bore 4.010 Stroke 4.751	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> 305.470.9306
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6	1823863	Bearing rod pair	Std
6	1823864	Bearing rod pair	.010
6	1823865	Bearing rod pair	.020
6	1823866	Bearing rod pair	.030
1	680117	Bearing cam set	
6	3144740R2	Bushing con rod	1.500 ID

### GASKET & SEALS

1	1823140	Set overhaul	
1	PGN360-IF	Set inframe	
1	1817255	Set cylinder head	
1	674399	Set conversion	Does not include crankshaft seals
1	1813933	Set front cover	
1	OS34105	Gasket oil pan	
1	690437	Seal crankshaft front	Includes wear sleeve
1	1809964	Seal crankshaft rear	Includes wear sleeve
1	99298	Sleeve crank seal	Rear, speedi sleeve; 2.990 - 2.996 shaft, .563 width
1	678527	Seal crankshaft rear	Double lip, with sleeve
1	675389	Gasket valve cover	
6	677692	Grommet valve cvr	
1	675812	Gasket front plate	
esn -> 54458			
1	682945	Gasket rear cover	
1	682444C1	Camshaft seal ring	

### CAMSHAFT

1	2292198	Camshaft	[OE# 1809910C91, 1809909C1]
esn -> 72706			
1	2292175	Camshaft	[OE# 1815336C91, 181558C11]
esn 72707 ->			
12	71802340	Lifter	1.12 diameter
1	675600	Gear camshaft	66 teeth
1	675764C1	Grear idler	[OEM] Gear, 77 teeth
1	676144	Thrust plate	
1	218211	Key woodruff	1/4 x 3/4

### VALVE TRAIN

	<b>CYLHEAD</b>	<b>NOTE</b>	For complete and bare cylinder heads - Refer to Cylinder Head Catalog or Call with casting
1	HKNAV360E	Cylinder head kit	esn -> 72706; 2.750 OAL valve guide
1	HKNAV360ES	Cylinder head kit	Same as HKNAV360E - with seats; esn -> 72706; 2.750 OAL valve guide
1	HKNAV360L	Cylinder head kit	esn 72707 ->; 2.610 OAL valve guide
1	HKNAV360LS	Cylinder head kit	Same as HKNAV360L - with seats; esn 72707 ->; 2.610 OAL valve guide
6	01520	Valve intake	1.710 head dia; 5.689 length; 0.3721 stem dia; 30 degree; 1G
6	01574S	Valve exhaust	1.455 head dia, 5.688 length, 0.3713T stem dia, 0.2252 tip to grv, 45 deg, 1G
12	675439C1	Valve guide	0.374 ID, 2.756 length
esn -> 72706			
12	1815264	Valve guide	2.61 length, cut for seal
esn 72707 ->			
12	682064	Valve spring	1.474 OD, 2.343 free length, 0.192 wire dia, 6.8 coils
24	41339D	Valve lock	
12	1811581	Rotocap	
esn -> 72706			

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12	1817661	Rotator	
esn 72707 ->			
12	681234	Oil shield rotator	
esn -> 72706			
12	1815374	Valve stem seal	
esn 72707 ->			
6	SB1782E-1	Valve insert	Intake, 1.490T ID, 1.623 ID top, 1.7825 OD, .3400 depth, 30 degree
	SB1782E-1+15	Valve insert	Intake, .015 OS [OE# 671604C1]
6	SB1536E-2N	Valve insert	Exhaust, 1.255T ID, 1.405 ID top, 1.5365 OD, .3585 depth, 45 degree
	SB1536E-2N+15	Valve insert	Exhaust, .015 OS [OE# 671601C1]

### CRANKSHAFT

1	1809953C91	Crankshaft	
1	83315	Gear crankshaft	33 teeth [OE# 675406]

### OIL / LUBE SYSTEM

1	71802666	Oil pump	New, 1 rotor
1	675364C1	Oil pump drive gear	
2	675860	Oring pump housing	

### FUEL / INJECTOR

	INJECTOR	INJECTOR	New or remanufactured available, call for pricing
6	675477	Injector washer	Copper sealing washer
6	682810	Injector sleeve seal	Seal
1	675609	Gasket injection pump	Mounting
1	675816	Gasket fuel pump	Access

### COOLING SYSTEM

1	7301X	Water pump	Reman; OE# 685155; Cast# 677856C1
esn -> 108649			
1	7310X	Water pump	Reman; OE# 1815538; Cast# 677856C1; LH reverse threads
esn 108649 ->			
1	675808	Gasket water pump	Mounting
1	685153	Water pump shaft	
esn -> 108649			
1	1801191	Thermostat	180 degree, includes seal
1	675384	Gasket thermostat	

### TURBO / AIR

	TURBO	TURBOCHARGER	New or remanufactured available, call for pricing
1	670073	Gasket turbo mtg	
1	253660	Gasket turbo oil	Oil inlet

<b>Navistar</b> Diesel 363 CID	<b>6.0L: VT365</b>	8 Cylinder Bore 95mm Stroke 105mm
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Ford: F-250, F-550, F-650, F-750, Excursion, E-Series

### CYLINDER KIT

<b>8</b>	<b>2243454</b>	<b>Piston</b>	Std [1847023C91, 1840955C1, 3C3Z-6108-AA, XC3Z-6108-AA]
MY2003 for esn 1611 and Up only			
	<b>2243454020</b>	<b>Piston</b>	0.020
	<b>2243454030</b>	<b>Piston</b>	0.030
	<b>2243454040</b>	<b>Piston</b>	0.040
<b>8</b>	<b>2243455</b>	<b>Piston</b>	Destroyed 0.010
MY2003 for esn 1611 and Up only			
	<b>2243455020</b>	<b>Piston</b>	Destroyed 0.010; 0.020 bore
	<b>2243455030</b>	<b>Piston</b>	Destroyed 0.010; 0.030 bore
	<b>2243455040</b>	<b>Piston</b>	Destroyed 0.010; 0.040 bore
<b>8</b>	<b>2243503</b>	<b>Piston</b>	Std
MY2004-2006 (can replace 2243454 in sets)			
	<b>2243503020</b>	<b>Piston</b>	0.020
	<b>2243503030</b>	<b>Piston</b>	0.030
	<b>2243503040</b>	<b>Piston</b>	0.040
<b>8</b>	<b>2243504</b>	<b>Piston</b>	Destroyed 0.010, Std bore
MY2004-2006			
	<b>2243504020</b>	<b>Piston</b>	Destroyed 0.010; 0.020 bore
	<b>2243504030</b>	<b>Piston</b>	Destroyed 0.010; 0.030 bore
	<b>2243504040</b>	<b>Piston</b>	Destroyed 0.010; 0.040 bore
<b>1</b>	<b>41940</b>	<b>Ring set</b>	95mm bore; (8) 2.3Kmm, (8) 2.0mm, (8) 3.44mm; 8 cyl set
	<b>41940010</b>	<b>Ring set</b>	0.010, 8 cyl set
	<b>41940020</b>	<b>Ring set</b>	0.020, 8 cyl set
	<b>41940030</b>	<b>Ring set</b>	0.030, 8 cyl set

### BEARINGS

<b>1</b>	<b>MS2223P</b>	<b>Bearing main set</b>	Std, 3.1886 / 3.1894 std journal dia; [(4) MB3487P, (1) MB3788P flanged] [1843028C91, 3C3Z-6D309-A]
2003-2005			
	<b>MS2223P25MM</b>	<b>Bearing main set</b>	0.25mm [1843076C91, 3C3Z-6D308-BA]
	<b>MS2223P50MM</b>	<b>Bearing main set</b>	0.50mm [1843077C91, 3C3Z-6D308-CA]
	<b>MS2223P75MM</b>	<b>Bearing main set</b>	0.75mm [1843078C91, 3C3Z-6D308-DA]
<b>8</b>	<b>CB1814P</b>	<b>Bearing rod pair</b>	Std; 2.7165 / 2.7170 std journal dia, 2.8735 / 2.8744 housing bore, 0.7340 width [1843034C91, 1835094C1, 3C3Z-6211-AA]
	<b>CB1814P25MM</b>	<b>Bearing rod pair</b>	0.25mm [1843073C91, 3C3Z-6211-BA]
	<b>CB1814P50MM</b>	<b>Bearing rod pair</b>	0.50mm [1843074C91, 3C3Z-6211-CA]
	<b>CB1814P75MM</b>	<b>Bearing rod pair</b>	0.75mm [1843075C91, 3C3Z-6211-DA]
<b>8</b>	<b>CB1815P25MM</b>	<b>Bearing rod pair</b>	0.25mm, For rods with housing bore resized 0.002 larger than stock
	<b>CB1815P50MM</b>	<b>Bearing rod pair</b>	0.50mm, For rods with housing bore resized 0.002 larger than stock
	<b>CB1815P75MM</b>	<b>Bearing rod pair</b>	0.75mm, For rods with housing bore resized 0.002 larger than stock
<b>1</b>	<b>SH1996S</b>	<b>Bearing cam set</b>	Set of 5 [SH1996] 2.4404 / 2.4415 shaft dia, 2.5976 / 2.5992 OD, 0.7480 length [3C3Z-6A251-AA, 1828127C1]
2003-2005			

<b>Navistar</b> Diesel 363 CID	<b>6.0L: VT365</b> (Continued)	8 Cylinder Bore 95mm Stroke 105mm	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> <b>305.470.9306</b>
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8 2233671 Bushing con rod Requires boring; 1.3384 / 1.3413 ID, 1.0450 OAL [18403463C3]

2003-2005

### GASKET & SEALS

1 953629VR Set overhaul

1 HS54450 Set cylinder head Crankcase to head tubes not included [5C3Z-6079-C]

1 CS54450 Set conversion [3C3Z-6E078-BA]

1 54450 Gasket cylinder head [1840463C2, 4C3Z-6051-EA]

2 VS50395 Gasket valve cover Upper, lower and grommets [1838250C2, 1838250C1, 3C3Z-6584-BA]

1 MIS19311 Set manifold Intake and valve cover set: Contains all necessary gaskets for Intake manifold removal and reinstallation

1 MS19311 Gasket manifold intake Intake set [3C3Z-9433-AA]

1 MS19312 Gasket manifold exhaust Exhaust set [5C4Z-9448-A, 6C3Z-9448-A]

1 G31817 Gasket throttle body [3C3Z-9P457-AA]

1 JV5066 Set timing cover

1 67726 Seal crankshaft front [1837597C1, 3C3Z-6700-AA]

1 JV1684 Seal crankshaft rear Includes rear seal gasket [1834635C91, 3C3Z-6701-AA]

1 OS32271 Set oil pan

1 OS30773R Gasket oil pan Lower oil pan to bedplate

1 OS30774R Gasket oil pan Upper oil pan to bedplate

1 OS30775R Gasket oil pan Upper bedplate to block

### CAMSHAFT

32 VL114 Lifter Hydraulic

32 2154354 Push rod [3C3Z-6565-AA]

2003-2005

### VALVE TRAIN

16 02179 Valve intake 1.339 head dia, 5.019 OAL, 0.2737 stem dia, 1G, 30 deg [1837731C1, 3C3Z-6507-AA]

16 02180 Valve exhaust 1.102 head dia, 5.059 OAL, 0.2737 stem dia, 1G, 35 deg [1837732C1, 3C3Z-6505-AA]

64 121-1105 Valve lock 0.2740 ID, 0.2720 length, 1 grv RD [1828289C1, 3C3Z-6518-AA]

32 140-3055 Valve guide 0.2765 ID, 0.4395 OD, 2.331 OAL

32 160-1458 Valve spring 0.657 ID, 0.995 OD, 2.076 length, 0.169 wire dia, 1.377 solid hgt; closed 64 @ 1.880, open 207 @ 1.440 [1838034C1, 3C3Z-6513-AA]

32 B45952 Valve stem seal Intake and exhaust [3C3Z-6571-AA]

### FUEL / INJECTOR

8 AP60900 Injector Reman, white plastic wire guide [1843089C91, 1843481C95, 1845879C91, 1878282C91, 3C3Z-9E527-EBRM/EARM, 3CZ-9E527-AE / ABRM]

Ford: 2003 - 2004 (Engines built before 9/22/03); IH: 2002.5-2003

8 AP60901 Injector Reman, black plastic wire guide [1844751C2, 1845150C92, 1846692C92, 4C3Z-9E527-AA]

Ford: 2004 - 2007 (Engines built on or after 9/22/03); IH: 2004-2006

8 AP0002 Injector seal kit Contains: 2 inj oring, chamber gsk, connector outer & inner oring, high pressure oil seal & clip [1843682C91, 3C3Z-9229-AA]

1 AP63406 Glow plug module Glow plug control unit [YC3Z-12B533-AA, DY-876, 1828565C1]

F250/F550, Excursion: 2003-2007; E Series: 2004-2007

### COOLING SYSTEM

1 AP63502 Water pump New; 90mm impeller [5010100R92, 3C3Z-8501-A, 3C3Z-8501-ABRM, PW-480]

2002.5 - 7/19/2004: Except F650/F750

1 AP63503 Water pump New; 100mm impeller [5010118R91, 4C3Z-8501-AC, 4C3Z-8501-ABRM, PW-491]

After 7/19/2004: Except F650/F750

1 K31802 Gasket water pump [3C3Z-8507-AA]

to 9/22/2003

1 K31803 Gasket water pump [4C3Z-8507-AA]

from 9/22/2003

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<b>C31801</b>	<b>Gasket thermostat</b>	Seal [4C3Z-8255-AA]
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**TURBO / AIR**

<b>F31804</b>	<b>Gasket exhaust pipe</b>	Y pipe to turbo [3C3Z-6N640-AA, 1839620G4]
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**MISC**

<b>1 AP83006</b>	<b>Starter</b>	New [3C3Z-11002-AA, 3C3U-11000-AB, 2C3Z-11002-AA]
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2003-2006

<b>1 AP63403</b>	<b>Sensor EBP</b>	Exhaust back pressure sensor [4C3Z-9J460-A, 1850353C1, 1837012C1]
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F250/550, Excursion: 2003-2004 esn 6000000 - 6344942; E series 2004 esn prior to 149760

<b>1 AP63408</b>	<b>Sensor EBP</b>	Exhaust back pressure sensor [5C3Z-9J460-B, 5C3Z-9J460-A, 1850352C1]
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F250/500, Excursion: 2005-2007 esn 6344943 & Up; F650/750: 2003-2007; E Series 2005-2007 esn 149761 & up

<b>1 AP63407</b>	<b>Sensor ICP</b>	Ignition Control Pressure Sensor [4C3Z-9F838-AB, 1845428C91, 1843914C1, 1845274C92]
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F250/550, F650/750, Excursion: 2003-2007; E Series: 2004-2007

<b>1 71263</b>	<b>Gasket EGR valve</b>	EGR cooler, oval gasket
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<b>1 71265</b>	<b>Gasket EGR valve</b>	EGR cooler, round seal
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<b>Navistar</b> Diesel PLN fuel system, Direct inject; 408G Prefix	<b>DT408, 6.7L</b>	6 Cylinder Bore 4.301 Stroke 4.680	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> <b>305.470.9306</b>
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### CYLINDER KIT

6	1817247	Ring set	4.3005 bore; (2) 1/8, (1) 5/32, wide gap [1 cyl set] Both compression rings keystone
6	1818552	Piston pin	1.8250 diameter
12	1818702	Retainer piston pin	
6	1815674	Cylinder liner	without seal rings
6	1822322	Cylinder liner oring kit	contains (1) 1817000, (1) 1817633
6	1817000	Cylinder liner oring	
6	1817633	Cylinder liner oring	contains (3) 675774 oring

### BEARINGS

6	1822321	Bearing main pair	Std, position 1, 2, 3, 4, 5, 6
	1822490	Bearing main pair	.010, position 1, 2, 3, 4, 5, 6
	1822491	Bearing main pair	.020, position 1, 2, 3, 4, 5, 6
	1822492	Bearing main pair	.030, position 1, 2, 3, 4, 5, 6
1	1822379	Bearing thrust pair	Std, position 7
	1822494	Bearing thrust pair	.010, position 7
	1822495	Bearing thrust pair	.020, position 7
	1822496	Bearing thrust pair	.030, position 7
6	1822389	Bearing rod pair	Std
6	1822486	Bearing rod pair	.010 u/s
6	1822487	Bearing rod pair	.020 u/s
6	1822488	Bearing rod pair	.030 u/s
6	1818598	Bushing con rod	
1	680117	Bearing cam set	[680117C1]

### GASKET & SEALS

1	431251	Set upper	[1822328C94]
1	431275	Set lower	Does not include crankshaft seals or pan gasket [1830374C93]
1	1817562	Gasket cylinder head	
1	1817510	Gasket valve cover	
1	1826587	Gasket oil pan	
1	1816722	Gasket oil sump	
1	7690437	Seal crankshaft front	
1	1817867	Seal crankshaft rear	

### CAMSHAFT

1	1820850C93	Camshaft	with gear; Call for price and availability for remanufactured
12	1809570	Lifter	roller type [Discontinued]

### VALVE TRAIN

	CYLHEAD	NOTE	
1	HKNAV466PE	Cylinder head kit	For complete and bare cylinder heads - Refer to Cylinder Head Catalog or Call with casting engine sn to 956463; 5/16 valve stem diameter
Following parts for esn to 956463			
6	1818580	Valve intake	1.970 head dia, 5.789 length, 0.3124 stem dia, 30 degree, 1 groove
6	1824838	Valve exhaust	1.600 head dia, 5.787 length, 0.3714 stem dia, 45 degree, 1 groove
12	140-8476	Valve guide	0.3146 ID, .5625 OD, 2.440 length, 1-P (use with 5/16 valve stem) [1820264C1, 1822862C1]
24	1810944	Valve lock	for .3125 (5/16) valve stem diameter
12	161-1049	Rotocap	for 5/16 valve stem, 1.505 OD, 0.305 ID, 0.594 height; includes oil shield (OEM 1820826C91)
12	1819380C1	Seal rotator	
12	122-1300	Valve stem seal	use with 5/16 stem diameter; positive, viton, top hat style; 0.565/0.575 nominal guide OD [1822245C1]
1	HKNAV466PL	Cylinder head kit	engine sn from 956464; 3/8 valve stem diameter
Following parts for esn 956464 & up			
6	01943	Valve intake	1.970 head dia, 5.787 length, 0.3722 stem dia, 30 degree, 1 groove [1824642C2, 1824642C1]
6	01944S	Valve exhaust	1.600 head dia, 5.787 length, 0.3714 stem dia, 45 degree, 1 groove [1824842C1]
12	140-3006	Valve guide	0.3745 ID, .6265 OD, 2.395 length (use with 3/8 valve stem) [1824646C1]



<b>Navistar</b> Diesel PLN fuel system, Direct inject; 408G Prefix	<b>DT408, 6.7L</b> (Continued)	6 Cylinder Bore 4.301 Stroke 4.680	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> <b>305.470.9306</b>
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<b>24</b>	<b>121-1091</b>	<b>Valve lock</b>	for 3/8 stem valve; 0.3720 ID, 0.2980 length, 1 round [1824644C1]
<b>12</b>	<b>161-1046</b>	<b>Rotocap</b>	for 3/8 valve stem (OEM 1824680C1)
<b>12</b>	<b>1824683</b>	<b>Seal rotator</b>	
<b>12</b>	<b>122-1320</b>	<b>Valve stem seal</b>	use with 3/8 stem diameter; positive, viton, top hat style; 0.610/0.620 nominal guide OD [1823925C1]
<b>6</b>	<b>160-1416</b>	<b>Valve spring</b>	1.063 ID, 1.477 OD, 2.357 free length, 0.207 wire dia, 1.370 solid height
<b>Intake</b>			
<b>6</b>	<b>160-1417</b>	<b>Valve spring</b>	1.068 ID, 1.482 OD, 2.580 free length, 0.207 wire dia, 1.370 solid height
<b>Exhaust</b>			
<b>6</b>	<b>675043</b>	<b>Valve insert</b>	Intake
<b>6</b>	<b>675450</b>	<b>Valve insert</b>	Exhaust
<b>6</b>	<b>675442</b>	<b>Injector sleeve</b>	Copper

**OIL / LUBE SYSTEM**

<b>1</b>	<b>431271</b>	<b>Set oil cooler mounting</b>	Includes: (1)431270 (1)431208 (2)421228 (2)421227 (4)421226 (1)421224 (1)421241 (1)MSL-4134-006 [1823182C95]
<b>1</b>	<b>431270</b>	<b>Gasket oil cooler</b>	Oil filter head [1817849C3]
<b>2</b>	<b>421228</b>	<b>Oring</b>	Oil cooler [1807563C1]
<b>2</b>	<b>421227</b>	<b>Oring</b>	Oil cooler [1804414C1]
<b>4</b>	<b>421226</b>	<b>Oring</b>	Oil line [1821098C2]
<b>1</b>	<b>421224</b>	<b>Oring</b>	Pressure regulator valve [1820907C2]
<b>1</b>	<b>421241</b>	<b>Seal ring</b>	Cooler header [1830362C1] [repl 1818401C2]
<b>1</b>	<b>421272</b>	<b>Seal ring</b>	Coolant filter head [1820353C1]

**FUEL / INJECTOR**

	<b>INJECTOR</b>	<b>INJECTOR</b>	New or remanufactured available, call for pricing
<b>6</b>	<b>675477</b>	<b>Injector washer</b>	Copper sealing washer
<b>6</b>	<b>682810</b>	<b>Injector sleeve seal</b>	Seal

**COOLING SYSTEM**

<b>1</b>	<b>7313X</b>	<b>Water pump</b>	Reman; Cast: 1821935C1/C3; OEM 1817687C92
<b>1</b>	<b>421205</b>	<b>Oring water pump</b>	[1819099C1]
<b>1</b>	<b>481832</b>	<b>Thermostat</b>	Kit, includes Oring 421215 [1830256C93] [repl 1822575C92]
<b>1</b>	<b>421215</b>	<b>Oring thermostat</b>	[1820951C1]
<b>1</b>	<b>480890</b>	<b>Tensioner belt</b>	[1830033C1] [repl 1814719C1]

**TURBO / AIR**

	<b>TURBO</b>	<b>TURBOCHARGER</b>	New or remanufactured available, call for pricing
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**BLOCK**

<b>1</b>	<b>431267</b>	<b>Set front cover</b>	Includes: 431260, 431259, 431262, 431253, 431258, 131294, 421221, 421224, 421225, 421205, 421273 [1822365C98]
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<b>Navistar</b> Diesel 1.110 piston pin, Natural/Aft Turbo	<b>7.3L IDI: 1988-93</b>	8 Cylinder Bore 4.110 Stroke 4.180	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> <b>305.470.9306</b>
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### ENGINE KITS

<b>1</b>	<b>IH-7.3-BASIC</b>	<b>Overhaul kit</b>	Pistons, rings, rods, main, full gasket set
Non turbo, 1.110 piston pin			
<b>1</b>	<b>IH-7.3-BASIC+</b>	<b>Overhaul kit</b>	Pistons, rings, rods, main, full gasket set, cam bearings, pin bushings
Non turbo, 1.110 piston pin			
<b>1</b>	<b>IH-7.3-PREM</b>	<b>Overhaul kit</b>	Pistons, rings, rods, main, full gasket set, cam bearings, pin bushings, cam, lifters, oil pump, timing s
Non turbo, 1.110 piston pin			
<b>1</b>	<b>IH-7.3-AT-BASIC</b>	<b>Overhaul kit</b>	Pistons, rings, rods, main, full gasket set
Aftermarket turbo, 1.110 piston pin			
<b>1</b>	<b>IH-7.3-AT-B+</b>	<b>Overhaul kit</b>	Pistons, rings, rods, main, full gasket set, cam bearings, pin bushings
Aftermarket turbo, 1.110 piston pin			
<b>1</b>	<b>IH-7.3-AT-PREM</b>	<b>Overhaul kit</b>	Pistons, rings, rods, main, full gasket set, cam bearings, pin bushings, cam, lifters, oil pump, timing s
Aftermarket turbo, 1.110 piston pin			

### CYLINDER KIT

<b>8</b>	<b>144170 0WR</b>	<b>Piston kit</b>	Non-turbo, Std; Piston, pin, retainers, ring set
<b>8</b>	<b>144170 2WR</b>	<b>Piston kit</b>	Non-turbo, .020; Piston, pin, retainers, ring set
<b>8</b>	<b>144170 3WR</b>	<b>Piston kit</b>	Non-turbo, .030; Piston, pin, retainers, ring set
<b>8</b>	<b>144170 4WR</b>	<b>Piston kit</b>	Non-turbo, .040; Piston, pin, retainers, ring set
<b>8</b>	<b>144170 0</b>	<b>Piston</b>	Non-turbo, Std; 4.110 bore, 1.950 CD, 1.110 pin, flat w/ricardo cup, (1) 3.0mm, (1) 2.0mm, (1) 3.5mm
<b>8</b>	<b>144170 2</b>	<b>Piston</b>	Non-turbo, .020; 1.950 CD, 1.110 pin, flat w/ricardo cup, (1) 3.0mm, (1) 2.0mm, (1) 3.5mm
<b>8</b>	<b>144170 3</b>	<b>Piston</b>	Non-turbo, .030; 1.950 CD, 1.110 pin, flat w/ricardo cup, (1) 3.0mm, (1) 2.0mm, (1) 3.5mm
<b>8</b>	<b>144170 4</b>	<b>Piston</b>	Non-turbo, .040; 1.950 CD, 1.110 pin, flat w/ricardo cup, (1) 3.0mm, (1) 2.0mm, (1) 3.5mm
<b>8</b>	<b>144171HA 0WR</b>	<b>Piston kit</b>	Aftermarket turbo, Std; Piston, pin, retainers, ring set (Annodized crown)
<b>8</b>	<b>144171HA 2WR</b>	<b>Piston kit</b>	Aftermarket turbo, .020; Piston, pin, retainers, ring set (Annodized crown)
<b>8</b>	<b>144171HA 3WR</b>	<b>Piston kit</b>	Aftermarket turbo, .030; Piston, pin, retainers, ring set (Annodized crown)
<b>8</b>	<b>144171HA 4WR</b>	<b>Piston kit</b>	Aftermarket turbo, .040; Piston, pin, retainers, ring set (Annodized crown)
<b>8</b>	<b>144171HA 0</b>	<b>Piston</b>	Aftermarket turbo, Std; 4.110 bore, 1.94 CD, 1.110 pin, flat w/ricardo cup, (1) 3.0mm, (1) 2.0mm, (1) 3.5mm
<b>8</b>	<b>144171HA 2</b>	<b>Piston</b>	Aftermarket turbo, .020; 1.94 CD, 1.110 pin, flat w/ricardo cup, (1) 3.0mm, (1) 2.0mm, (1) 3.5mm
<b>8</b>	<b>144171HA 3</b>	<b>Piston</b>	Aftermarket turbo, .030; 1.94 CD, 1.110 pin, flat w/ricardo cup, (1) 3.0mm, (1) 2.0mm, (1) 3.5mm
<b>8</b>	<b>144171HA 4</b>	<b>Piston</b>	Aftermarket turbo, .040; 1.94 CD, 1.110 pin, flat w/ricardo cup, (1) 3.0mm, (1) 2.0mm, (1) 3.5mm
<b>8</b>	<b>14417N</b>	<b>Ring set</b>	Std, 4.110 bore; (1) 3.0mm, (1) 2.0mm, (1) 3.5mm [1 cyl set]
<b>8</b>	<b>14417N 2</b>	<b>Ring set</b>	.020; (1) 3.0mm, (1) 2.0mm, (1) 3.5mm [1 cyl set]
<b>8</b>	<b>14417N 3</b>	<b>Ring set</b>	.030; (1) 3.0mm, (1) 2.0mm, (1) 3.5mm [1 cyl set]
<b>8</b>	<b>14417N 4</b>	<b>Ring set</b>	.040; (1) 3.0mm, (1) 2.0mm, (1) 3.5mm [1 cyl set]
<b>8</b>	<b>1809146</b>	<b>Ring set</b>	To sn 598758; Std
<b>8</b>	<b>1809147</b>	<b>Ring set</b>	To sn 598758; .010
<b>8</b>	<b>1809148</b>	<b>Ring set</b>	To sn 598758; .020
<b>8</b>	<b>1809149</b>	<b>Ring set</b>	To sn 598758; .030
<b>8</b>	<b>ML2274</b>	<b>Cylinder liner</b>	Repair sleeve: 1/8 thick; 4.3630 OD, 4.080 semi ID, 6.875 OAL
<b>8</b>	<b>ML1174</b>	<b>Cylinder liner</b>	Repair sleeve: 3/32 thick; 4.3005 OD, 4.080 semi ID, 6.875 OAL

### BEARINGS

<b>4</b>	<b>1802216</b>	<b>Bearing main pair</b>	Std; Position 1, 2, 4, 5 [requires (4) 1802216, (1) 1802220]
<b>1</b>	<b>5110M 1</b>	<b>Bearing main set</b>	.001
<b>1</b>	<b>5110M 2</b>	<b>Bearing main set</b>	.002
<b>4</b>	<b>1802217</b>	<b>Bearing main pair</b>	.010; Position 1, 2, 4, 5 [requires (4) 1802217, (1) 1802221]
<b>4</b>	<b>1802218</b>	<b>Bearing main pair</b>	.020; Position 1, 2, 4, 5 [requires (4) 1802218, (1) 1802222]

<b>Navistar</b> Diesel 1.110 piston pin, Natural/Aft Turbo	<b>7.3L IDI: 1988-93</b> (Continued)	8 Cylinder Bore 4.110 Stroke 4.180	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> <b>305.470.9306</b>
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4	1802219	Bearing main pair	.030; Position 1, 2, 4, 5 [requires (4) 1802219, (1) 1802223]
1	5110M 40	Bearing main set	.040
1	1802220	Bearing thrust pair	Std; Position 3 [requires (4) 1802216, (1) 1802220]
1	1802221	Bearing thrust pair	.010; Position 3 [requires (4) 1802217, (1) 1802221]
1	1802222	Bearing thrust pair	.020; Position 3 [requires (4) 1802218, (1) 1802222]
1	1802223	Bearing thrust pair	.030; Position 3 [requires (4) 1802219, (1) 1802223]
1	7219M 10	Bearing main set	.010; With .010 oversize length flange bearing; 3.1228/3.1236 journal
1	7219M 20	Bearing main set	.020; with .010 oversize length flange bearing
1	7219M 30	Bearing main set	.030; with .010 oversize length flange bearing
8	1802200	Bearing rod pair	Std
8	3810CP 1	Bearing rod pair	.001
8	3810CP 2	Bearing rod pair	.002
8	1802201	Bearing rod pair	.010
8	1802202	Bearing rod pair	.020
8	1802203	Bearing rod pair	.030
8	3810CP 40	Bearing rod pair	.040
8	1804000	Bushing con rod	1.111 ID, 1.2355 OD, 1.078 length
1	1804475	Bearing cam set	

### GASKET & SEALS

1	PGN7.3C	Set overhaul	With crank seals and valley pan gasket
1	1811050	Set cylinder head	With valley pan gasket
1	1802213	Set conversion	With lip type seals
1	381-8056	Freeze plug kit	7 centerless ground OD, stainless steel block plugs
2	GS33348	Bolt cylinder head set	
2	9047PT	Gasket cylinder head	
1	VS50247R	Set valve cover	(2) 1804052 gaskets
1	1813067	Gasket manifold intake	Valley pan set
1	MS91242	Gasket manifold exhaust	Set of 2
1	1804480	Set front cover	No crank seal
1	1804377C3	Gasket oil cooler	Oil filter adapter, 4 bolt small, 3 passage cutout
1	E3TZ-6A636-G	Gasket oil cooler	Oil filter adapter, 4 bolt large, 2 passage cutout (1800881C4)
1	1804378C2	Gasket oil cooler	Coolant front header (E3TZ-6A636-C)
2	1807563C1	Oring oil cooler	0.21 thick; adapter oring
2	1804451C1	Oring oil cooler	0.13 thick
4	1804414C1	Oring oil cooler	0.31 thick
1	OS34200C	Gasket oil pan	
1	1804009	Seal crankshaft front	2.500 shaft, 3.505 OD (National 3894V)
1	3893V	Seal crankshaft rear	3.750 shaft, 4.756 OD, .500 width, lip type (seal in gsk set; use with speedi sleeve, not wear sleeve)
1	1816559	Seal crankshaft rear	Teflon seal
1	1819733	Seal crankshaft rear	Sleeve and seal kit; 1816559 teflon seal, 1816569 wear sleeve
1	99372	Sleeve crank seal	Rear: Speedi sleeve: 3.750/3.756 shaft, .688 width
1	1816569	Sleeve crank seal	Rear: Use with 1819733 teflon seal

### CAMSHAFT

1	KC-771	Camshaft kit	(1) CS-771, (16) HT-2104 lifters
1	CS-771	Camshaft	
16	VL114	Lifter	Hydraulic
1	221-3342	Gear camshaft	108 teeth
1	221-3341	Gear crankshaft	

<b>Navistar Diesel</b> 1.110 piston pin, Natural/Aft Turbo	<b>7.3L IDI: 1988-93</b> (Continued)	8 Cylinder Bore 4.110 Stroke 4.180	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> <b>305.470.9306</b>
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1	221-3342S	<b>Gear set</b>	Cam and crank matched set; 221-3342, 221-341
1	221-3347	<b>Gear inj pump</b>	106 teeth

**VALVE TRAIN**

CYLHEAD	NOTE	
8 01543	<b>Valve intake</b>	1.877 head dia, 5.687 length, 0.3719 stem dia, 1G, valve has 0.010 larger margin
Early head that use C1 valve with large margin will need seat replacement to attain correct installed height		
8 01542	<b>Valve exhaust</b>	1.595 head dia, 5.670 length, 0.3720T stem dia, 1G, 37 deg, 0.010 larger margin
8 01542S	<b>Valve exhaust</b>	1.595 head dia, 5.670 length, 0.3720T stem dia, 1G, 37 deg, stellite; 0.010 larger margin
Recommended for turbo updated engine.		
16 VG-804	<b>Valve guide</b>	0.3750 ID, 0.6250 OD, 2.600 length, plain
16 140-7712	<b>Valve guide</b>	0.3740 ID, 0.6270 OD, 2.600 length, plain; For use with 5/8 rearmor
1 SS72628-1	<b>Valve stem seal</b>	Set fo (8) intake seals, (8) exhaust shields
16 1804420	<b>Valve stem seal</b>	Umbrella type; .315 ID, .718 OAL, .890 OD; fits std to .015 oversize stem
32 41339D	<b>Valve lock</b>	
16 160-1206	<b>Valve spring</b>	2.050 free, 1.260 solid, 1.400 OD, 1.000 ID, 0.200 wire, 6.5 coils
16 E3TZ-6514-A	<b>Valve spring cap</b>	
16 RP-3237	<b>Push rod</b>	9.993 OAL; intall with copper colored ball up
8 R-1119	<b>Rocker arm kit</b>	Contains: 2 arms, 2 pivots, 1 retainer
16 R-949	<b>Rocker arm</b>	
8 SB1937-23	<b>Valve insert</b>	Intake: 1-11/16 ID, 1-15/16 OD, 3/16 depth; use with 1.811 valve head dia
nor for A or B castings		
8 SBI1875-38	<b>Valve insert</b>	Intake: 1-5/8 ID X 1-7/8 OD
for A or B castings		
8 SB1669E-1	<b>Valve insert</b>	Exhaust: 1.372T ID, 1.669 OD, .272 depth

**CONNECTING ROD**

8	1805616C91RX	<b>Connecting rod</b>	Remanufactured; 1.110" pin diameter
16	1804003	<b>Bolt connecting rod</b>	
16	1805866	<b>Nut connecting rod</b>	

**OIL / LUBE SYSTEM**

1	M165	<b>Oil pump</b>	Gear type
1	1805865C1	<b>Oil cooler</b>	Remanufactured; Cast# 1816626C1, 15" OAL

**FUEL / INJECTOR**

INJECTOR	INJECTOR	
1 DPE69120	<b>Injector installation kit</b>	3/16 hose: (8) injector caps, (8) copper washers, (16) orings, springs clamps, 6' hose
1 DPE73120	<b>Injector installation kit</b>	1/4 hose: (8) injector caps, (8) copper washers, (16) orings, springs clamps, (6) precut 4' hose
1 FS0442E1	<b>Glow plug control</b>	
1 1804495	<b>Fuel pump</b>	

**COOLING SYSTEM**

1	7304X	<b>Water pump</b>	Reman: Big hub, 1989-94: E & F 250/350; Cast: 446430C2, 446430C4
1	7305X	<b>Water pump</b>	Reman: Small hub (2.46 dia) 88-91: Navistar
1	1804136	<b>Gasket water pump</b>	
1	1807974	<b>Thermostat</b>	Kit: 192 degree, includes gasket
1	1807945	<b>Thermostat</b>	192 degree
1	1804032	<b>Gasket thermostat</b>	
1	35193	<b>Gasket water outlet</b>	Left

**TURBO / AIR**

<b>TURBO</b>	<b>TURBOCHARGER</b>	New or remanufactured available, call for pricing
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<b>Navistar Diesel</b> 1.308 piston pin, Factory turbo	<b>7.3L IDI: 1994-95</b>	8 Cylinder Bore 4.110 Stroke 4.180	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> <b>305.470.9306</b>
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### ENGINE KITS

1	IH-7.3-IDI-BASIC	Overhaul kit	Pistons, rings, rods, main, full gasket set
1	IH-7.3-IDI-B+	Overhaul kit	Pistons, rings, rods, main, full gasket set, cam bearings, pin bushings
1	IH-7.3-IDI-PREM	Overhaul kit	Pistons, rings, rods, main, full gasket set, cam bearings, pin bushings, cam, lifters, oil pump, timing s

### CYLINDER KIT

NOTE: Pistons for sn from 598754; For sn before 598754 only replace in full sets

8	144180HAWR 0	Piston kit	Std; Piston, pin, retainers, ring set
8	144180HAWR 2	Piston kit	.020; Piston, pin, retainers, ring set
8	144180HAWR 3	Piston kit	.030; Piston, pin, retainers, ring set
8	144180HAWR 4	Piston kit	.040; Piston, pin, retainers, ring set
8	144180HA 0	Piston	Std; 4.1102 bore, 1.950 CD, 1.3085 pin, flat, ricardo cup, annodized (1)3.16mm, (1)2.52mm, (1)3.5mm
8	144180HA 2	Piston	.020; 1.950 CD, 1.3085 pin, flat w/ ricardo cup, annodized (1)3.16mm, (1)2.52mm, (1)3.5mm
8	144180HA 3	Piston	.030; 1.950 CD, 1.3085 pin, flat w/ ricardo cup, annodized (1)3.16mm, (1)2.52mm, (1)3.5mm
8	144180HA 4	Piston	.040; 1.950 CD, 1.3085 pin, flat w/ ricardo cup, annodized (1)3.16mm, (1)2.52mm, (1)3.5mm
8	144181HA 0	Piston	Std; 4.1102 bore, 1.940 CD, 1.3085 pin, flat w/ricardo cup, annodized; reduced comp .010
8	144181HA 2	Piston	.020; 1.940 CD, 1.3085 pin, flat w/ ricardo cup, annodized; reduced comp .010
8	144181HA 3	Piston	.030; 1.940 CD, 1.3085 pin, flat w/ ricardo cup, annodized; reduced comp .010
8	144181HA 4	Piston	.040; 1.940 CD, 1.3085 pin, flat w/ ricardo cup, annodized; reduced comp .010
8	14418N	Ring set	4.110 (104.4mm) bore; Std (1) 3.0mm, (1) 2.0mm, (1) 3.5mm [1 cyl set]
8	14418N 2	Ring set	.020 (1) 3.0mm, (1) 2.0mm, (1) 3.5mm [1 cyl set]
8	14418N 3	Ring set	.030 (1) 3.0mm, (1) 2.0mm, (1) 3.5mm [1 cyl set]
8	14418N 4	Ring set	.040 (1) 3.0mm, (1) 2.0mm, (1) 3.5mm [1 cyl set]
8	ML2274	Cylinder liner	Repair sleeve: 1/8 thick; 4.3630 OD, 4.080 semi ID, 6.875 OAL
8	ML1174	Cylinder liner	Repair sleeve: 3/32 thick; 4.3005 OD, 4.080 semi ID, 6.875 OAL

### BEARINGS

4	1802216	Bearing main pair	Std; Position 1, 2, 4, 5 [requires (4) 1802216, (1) 1802220]
1	5110M 1	Bearing main set	.001
1	5110M 2	Bearing main set	.002
4	1802217	Bearing main pair	.010; Position 1, 2, 4, 5 [requires (4) 1802217, (1) 1802221]
4	1802218	Bearing main pair	.020; Position 1, 2, 4, 5 [requires (4) 1802218, (1) 1802222]
4	1802219	Bearing main pair	.030; Position 1, 2, 4, 5 [requires (4) 1802219, (1) 1802223]
1	5110M 40	Bearing main set	.040
1	1802220	Bearing thrust pair	Std; Position 3 [requires (4) 1802216, (1) 1802220]
1	1802221	Bearing thrust pair	.010; Position 3 [requires (4) 1802217, (1) 1802221]
1	1802222	Bearing thrust pair	.020; Position 3 [requires (4) 1802218, (1) 1802222]
1	1802223	Bearing thrust pair	.030; Position 3 [requires (4) 1802219, (1) 1802223]
1	7219M 10	Bearing main set	.010; With .010 oversize length flange bearing; 3.1228/3.1236 journal
1	7219M 20	Bearing main set	.020; with .010 oversize length flange bearing
1	7219M 30	Bearing main set	.030; with .010 oversize length flange bearing
8	1802200	Bearing rod pair	Std
8	3810CP 1	Bearing rod pair	.001
8	3810CP 2	Bearing rod pair	.002
8	1802201	Bearing rod pair	.010

<b>Navistar Diesel</b> 1.308 piston pin, Factory turbo	<b>7.3L IDI: 1994-95</b> (Continued)	8 Cylinder Bore 4.110 Stroke 4.180	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> <b>305.470.9306</b>
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8	1802202	Bearing rod pair	.020
8	1802203	Bearing rod pair	.030
8	3810CP 40	Bearing rod pair	.040
8	3814YA20	Bushing con rod	1.3092 ID, 1.4337 OD, 1.1620 OAL
1	1804475	Bearing cam set	

### GASKET & SEALS

1	PGN7.3C	Set overhaul	With crank seals and valley pan gasket
1	1811050	Set cylinder head	With valley pan gasket
1	1802213	Set conversion	With lip type seals
1	381-8056	Freeze plug kit	7 centerless ground OD, stainless steel block plugs
2	GS33348	Bolt cylinder head set	
2	9047PT	Gasket cylinder head	
1	VS50247R	Set valve cover	(2) 1804052 gaskets
1	1813067	Gasket manifold intake	Valley pan set
1	MS91242	Gasket manifold exhaust	Set of 2
1	1804480	Set front cover	No crank seal
1	1804377C3	Gasket oil cooler	Oil filter adapter, 4 bolt small, 3 passage cutout
1	E3TZ-6A636-G	Gasket oil cooler	Oil filter adapter, 4 bolt large, 2 passage cutout (1800881C4)
1	1804378C2	Gasket oil cooler	Coolant front header (E3TZ-6A636-C)
2	1807563C1	Oring oil cooler	0.21 thick; adapter oring
2	1804451C1	Oring oil cooler	0.13 thick
4	1804414C1	Oring oil cooler	0.31 thick
1	OS34200C	Gasket oil pan	
1	1804009	Seal crankshaft front	2.500 shaft, 3.505 OD (National 3894V)
1	3893V	Seal crankshaft rear	3.750 shaft, 4.756 OD, .500 width, lip type (seal in gsk set; use with speedi sleeve, not wear sleeve)
1	1816559	Seal crankshaft rear	Teflon seal
1	1819733	Seal crankshaft rear	Sleeve and seal kit; 1816559 teflon seal, 1816569 wear sleeve
1	99372	Sleeve crank seal	Rear: Speedi sleeve: 3.750/3.756 shaft, .688 width
1	1816569	Sleeve crank seal	Rear: Use with 1819733 teflon seal

### CAMSHAFT

1	KC-771	Camshaft kit	(1) CS-771, (16) HT-2104 lifters
1	CS-771	Camshaft	
16	VL114	Lifter	Hydraulic
1	221-3342	Gear camshaft	108 teeth
1	221-3341	Gear crankshaft	
1	221-3342S	Gear set	Cam and crank matched set; 221-3342, 221-341
1	221-3347	Gear inj pump	106 teeth

### VALVE TRAIN

	CYLHEAD	NOTE	For complete and bare cylinder heads - Refer to Cylinder Head Catalog or Call with casting
8	01543	Valve intake	1.877 head dia, 5.687 length, 0.3719 stem dia, 1G, valve has 0.010 larger margin
Early head that use C1 valve with large margin will need seat replacement to attain correct installed height			
8	01754	Valve exhaust	1.595 head dia, 5.674 length, .3719T stem dia, 1G, chrome plated stem; 0.010 larger margin
16	VG-804	Valve guide	0.3750 ID, 0.6250 OD, 2.600 length, plain
16	140-7712	Valve guide	0.3740 ID, 0.6270 OD, 2.600 length, plain; For use with 5/8 rearmor
1	SS72628-1	Valve stem seal	Set fo (8) intake seals, (8) exhaust shields
16	1804420	Valve stem seal	Umbrella type; .315 ID, .718 OAL, .890 OD; fits std to .015 oversize stem
32	41339D	Valve lock	
16	160-1206	Valve spring	2.050 free, 1.260 solid, 1.400 OD, 1.000 ID, 0.200 wire, 6.5 coils
16	E3TZ-6514-A	Valve spring cap	
16	RP-3237	Push rod	9.993 OAL; intall with copper colored ball up
8	R-1119	Rocker arm kit	Contains: 2 arms, 2 pivots, 1 retainer

<b>Navistar</b> Diesel 1.308 piston pin, Factory turbo	<b>7.3L IDI: 1994-95</b> (Continued)	8 Cylinder Bore 4.110 Stroke 4.180	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> <b>305.470.9306</b>
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16	R-949	Rocker arm	
8	SB1937-23	Valve insert	Intake: 1-11/16 ID, 1-15/16 OD, 3/16 depth; use with 1.811 valve head dia
8	SB1957ST	Valve insert	Intake: Alternate stepped OD; 1.563 ID, 1.755/1.957 OD, .313 depth
8	SB1669E-1	Valve insert	Exhaust: 1.372T ID, 1.669 OD, .272 depth

**CONNECTING ROD**

16	1804003	Bolt connecting rod	
16	1805866	Nut connecting rod	

**OIL / LUBE SYSTEM**

1	M165	Oil pump	Gear type
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**FUEL / INJECTOR**

	INJECTOR	INJECTOR	New or remanufactured available, call for pricing
1	DPE73120	Injector installation kit	1/4 hose: (8) injector caps, (8) copper washers, (16) orings, springs clamps, (6) precut 4' hose
1	FS0442E1	Glow plug control	
1	1804495	Fuel pump	

**COOLING SYSTEM**

1	7304X	Water pump	Reman: Big hub, 1989-94: E & F 250/350; Cast: 446430C2, 446430C4
1	7305X	Water pump	Reman: Small hub (2.46 dia) 88-91: Navistar
1	1804136	Gasket water pump	
1	1807974	Thermostat	Kit: 192 degree, includes gasket
1	1807945	Thermostat	192 degree
1	1804032	Gasket thermostat	
1	35193	Gasket water outlet	Left

**TURBO / AIR**

	TURBO	TURBOCHARGER	New or remanufactured available, call for pricing
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<b>Navistar</b> Diesel 1.308 piston pin, DI Turbo "Powerstroke"	<b>7.3L DI: T444E; 1994-2003</b>	8 Cylinder Bore 4.110 Stroke 4.180	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> <b>305.470.9306</b>
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### ENGINE KITS

1	IH-7.3-DI	Overhaul kit	Pistons, rings, rods, main, full gasket set
1	IH-7.3-DITOPPED	Overhaul kit	Pistons, rings, rods, main, full gasket set; piston has 0.010 reduced compression height

### CYLINDER KIT

8	144190WR020	Piston kit	1999-03: .020; Piston, pin, retainers, ring set (OE piston# 1824284C1)
8	144190 2	Piston	1999-03: .020; 2.142 CD, 1.3085 pin, .0067 min clr, reent bowl; (1) 3.0m, (1)2.52m, (1)3.5m
8	144190WR030	Piston kit	1999-03: .030; Piston, pin, retainers, ring set
8	144190 3	Piston	1999-03: .030; 2.142 CD, 1.3085 pin, .0067 min clr, reent bowl; (1) 3.0m, (1)2.52m, (1)3.5m
8	144191WR020	Piston kit	1999-03: .020; Piston, pin, retainers, ring set
8	144191 2	Piston	1999-03: .020; 2.132 CD, 1.3085 pin, .0067 min clr, reentrant bowl; .010 reduced comp ht
8	144191WR030	Piston kit	1999-03: .030; Piston, pin, retainers, ring set
8	144191 3	Piston	1999-03: .030; 2.132 CD, 1.3085 pin, .0067 min clr, reentrant bowl; .010 reduced comp ht
8	144200 0WR	Piston kit	1996-98: Std; Piston, pin, retainers, ring set
8	2767PN	Piston	1994-03: Std; 4.1102 bore, 2.141 CD, 1.3085 pin, .0050 min clr, reentrant bowl; (1)1/8,(1)5/64,(1).136
8	1830954	Piston kit	1994-03: .010; Piston, pin, retainers, ring set
8	1830898	Piston	1994-03: .010; 2.141 CD, 1.3085 pin, .0050 min clr, reentrant bowl; (1)1/8,(1)5/64,(1).136
8	144200 2WR	Piston kit	1996-98: .020; Piston, pin, retainers, ring set
8	2767PN 20	Piston	1994-03: .020; 2.141 CD, 1.3085 pin, .0050 min clr, reentrant bowl; (1)1/8,(1)5/64,(1).136
8	144200 3WR	Piston kit	1996-98: .030; Piston, pin, retainers, ring set
8	2767PN 30	Piston	1994-03: .030; 2.141 CD, 1.3085 pin, .0050 min clr, reentrant bowl; (1)1/8,(1)5/64,(1).136
8	144200 4WR	Piston kit	1996-98: .040; Piston, pin, retainers, ring set
8	2767PN 40	Piston	1994-03: .040; 2.141 CD, 1.3085 pin, .0050 min clr, reentrant bowl; (1)1/8,(1)5/64,(1).136
8	144201 0	Piston	1996-98: Std; 4.1102 bore, 2.141 CD, 1.3085 pin, .0050 min clr, reentrant bowl;.010 reduced comp ht
8	144201 2	Piston	1996-98: .020; 2.141 CD, 1.3085 pin, .0050 min clr, reentrant bowl;.010 reduced comp ht
8	144201 3	Piston	1996-98: .030; 2.141 CD, 1.3085 pin, .0050 min clr, reentrant bowl;.010 reduced comp ht
8	144201 4	Piston	1996-98: .040; 2.141 CD, 1.3085 pin, .0050 min clr, reentrant bowl;.010 reduced comp ht
8	1830949	Ring set	4.110 bore, Std; (1) 1/8K, (1) 5/64, (1) .136 [1 cyl set] 2nd ring gap is .060-.075 like OE ring
1	E-651K	Ring set	4.110 bore, Std; (1) 1/8K, (1) 5/64, (1) .136 [8 cyl set] 2nd ring gap is .060-.075 like OE ring
8	1830950	Ring set	.010; (1) 1/8K, (1) 5/64, (1) .136 [1 cyl set] 2nd ring gap is .060-.075 like OE ring
8	1830951	Ring set	.020; (1) 1/8K, (1) 5/64, (1) .136 [1 cyl set] 2nd ring gap is .060-.075 like OE ring
1	E-651K 20	Ring set	.020; (1) 1/8K, (1) 5/64, (1) .136 [8 cyl set] 2nd ring gap is .060-.075 like OE ring
8	1830952	Ring set	.030; (1) 1/8K, (1) 5/64, (1) .136 [1 cyl set] 2nd ring gap is .060-.075 like OE ring
1	E-651K 30	Ring set	.030; (1) 1/8K, (1) 5/64, (1) .136 [8 cyl set] 2nd ring gap is .060-.075 like OE ring
8	S41768040	Ring set	.040, 4.110 bore; (1) 1/8K, (1) 5/64, (1) .136 [1 cyl set]
1	E-651K 40	Ring set	.040; (1) 1/8K, (1) 5/64, (1) .136 [8 cyl set] 2nd ring gap is .060-.075 like OE ring
8	1809339	Piston pin	
16	1814326	Retainer piston pin	

### BEARINGS

4	1812321	Bearing main pair	Std; Position 1, 2, 4, 5 [requires (4) 1812321, (1) 1812325]
4	1812322	Bearing main pair	.010; Position 1, 2, 4, 5 [requires (4) 1812322, (1) 1812326]
4	1812323	Bearing main pair	.020; Position 1, 2, 4, 5 [requires (4) 1812323, (1) 1812327]
4	1812324	Bearing main pair	.030; Position 1, 2, 4, 5 [requires (4) 1812324, (1) 1812328]
1	1812325	Bearing thrust pair	Std; position 3 [requires (4) 1812321, (1) 1812325]
1	1812326	Bearing thrust pair	.010; position 3 [requires (4) 1812322, (1) 1812326]
1	1812327	Bearing thrust pair	.020; position 3 [requires (4) 1812323, (1) 1812327]
1	1812328	Bearing thrust pair	.030; position 3 [requires (4) 1812324, (1) 1812328]
8	3810CPA	Bearing rod pair	Std; 2.4980/2.4990 journal, 0.964 width



<b>Navistar</b> Diesel 1.308 piston pin, DI Turbo "Powerstroke"	<b>7.3L DI: T444E; 1994-2003</b> (Continued)	8 Cylinder Bore 4.110 Stroke 4.180	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> <b>305.470.9306</b>
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8	3810CPA 10	Bearing rod pair	.010
8	3810CPA 20	Bearing rod pair	.020
8	3810CPA 30	Bearing rod pair	.030
8	3814YA20	Bushing con rod	1.3092 ID, 1.4337 OD, 1.1620 OAL
1	1885M	Bearing cam set	Set of 6, 2.0990/2.1000 std shaft, 2.2305/2.2320 bore; (1) 3731DRI, (4) 3732DRI

### GASKET & SEALS

1	HS9239PT	Set cylinder head	1994-2003: Valve cover gaskets AND injector sealing parts not included
1	1830826	Set cylinder head	1994-2003: Contains head gaskets & valve stem seals only
1	CS9239	Set conversion	1994-1999: To 3/31/99
1	CS9239-1	Set conversion	1999-2003: From 4/01/99
1	CS542042	Set conversion	1994-1995
1	CS542043	Set conversion	1996
1	CS542044	Set conversion	1997-2001
1	381-8088	Freeze plug kit	1993-2004: 7 centerless ground OD, stainless steel block plugs
2	9239PT	Gasket cylinder head	1994-2003
2	ES72161	Bolt cylinder head set	1994-2003: 1 set per head, replacement recommended
36	1818092	Bolt cylinder head	
2	VS50483R	Gasket valve cover	1994-1997: PermaDry molded rubber gasket, 5 pin dual connectors
2	VS50484R	Gasket valve cover	1998-2003: PermaDry molded rubber gasket, 9 pin single connector
1	AP0010	Harness repair kit	Valve Cover Harness Connector Repair Kit
1994-1997			
1	AP0009	Harness repair kit	Valve Cover Harness Connector Repair Kit
1998-2003			
2	MS93489	Gasket manifold set	Exhaust
1	TCS45016	Set timing cover	1994-1995
1	TCS45017	Set timing cover	1996-1999: To 3/31/99
1	TCS45050	Set timing cover	1999-2003: From 4/01/99
1	1812376C92	Seal crankshaft front	Seal & sleeve; 2.383 shaft; seal:1816046 (3894VRP) 3.505 OD, 0.40 width; slv: 1814607 .56 width]
1	1816046C2	Seal crankshaft front	Seal: 2.500 shaft, 3.505 OD, 0.40 width (National 3894VRP)
1	1812329	Seal crankshaft rear	Seal & sleeve, mounting plate (seal: National 5723)

### CAMSHAFT

1	1818365C93	Camshaft	
sn -> 400766			
1	1830821C91	Camshaft	
sn 400767 ->			
16	VL114	Lifter	Hydraulic
1	AP63400	Cam position sensor	[1825899C93, F7TZ-12K073A / B]

### VALVE TRAIN

	CYLHEAD	NOTE	For complete and bare cylinder heads - Refer to Cylinder Head Catalog or Call with casting
8	01785	Valve intake	1.680 head dia, 5.805 length, 0.3122 stem dia, 30 deg, 1G, chrome plated stem
8	01786	Valve exhaust	1.680 head, 5.799 length, .3122 stem, 37 deg, 1G, chrome plated stem, wafer tip
16	140-8476	Valve guide	0.3146 ID, .5625 OD, 2.440 length, 1-P (use with 5/16 valve stem)
OEM replacement w/ .5649 OD, check press fit			
16	140-8562	Valve guide	0.3145 ID, 0.5640 OD, 2.440 length, 1-SR
Use with std 9/16 tooling			
16	160-1206	Valve spring	2.050 free, 1.260 solid, 1.400 OD, 1.000 ID, 0.200 wire, 6.5 coils
32	VK-144	Valve lock	0.298 stem dia, SG, 7 degree
1	SS72893	Valve stem seal	Set of 16, top hat style; (16) 72893
16	122-1333	Valve stem seal	Top hat style; 0.3125 nominal stem dia, 0.562/0.572 nominal guide OD
16	161-1048	Rotocap	
8	1814259C91	Rocker arm	Intake: with ball and clip
8	1814258C91	Rocker arm	Exhaust: with ball and clip

<b>Navistar</b> Diesel 1.308 piston pin, DI Turbo "Powerstroke"	<b>7.3L DI: T444E; 1994-2003</b> (Continued)	8 Cylinder Bore 4.110 Stroke 4.180	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> <b>305.470.9306</b>
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<b>16 1814279C1</b>	<b>Push rod</b>	
<b>8 SB1750-4</b>	<b>Valve insert</b>	Intake, 1-7/16 ID, 1-3/4 OD, 1/4 depth, 45 degree
<b>8 SB1750-4N</b>	<b>Valve insert</b>	Exhaust: 1-71/6 x 1-3/4 (cut to 37.5 degree)

**CONNECTING ROD**

<b>16 1812451C1</b>	<b>Bolt connecting rod</b>	
<b>16 1818258C1</b>	<b>Nut connecting rod</b>	

**OIL / LUBE SYSTEM**

<b>1 M208</b>	<b>Oil pump</b>	Rotor type; 1994-2002
<b>1 HP004X</b>	<b>Oil pump HP</b>	High pressure fuel, reman [1825247C91, 1825260C91, 1825271C93, 2503701C91, 991936C95, F4TZ9A543BRM, R98620004R]
1994-95 Ford Powerstroke; Navistar T444E esn 005500 - 216543		
<b>1 HP005X</b>	<b>Oil pump HP</b>	High pressure fuel, reman [1825248C91, 1825259C91, 1826794C93, 2503703C91, 991935C94, F6TZ9A543ARM, R98620005R]
1996-97 Ford Powerstroke; Navistar T444E esn 216544 - 661894		
<b>1 HP007X</b>	<b>Oil pump HP</b>	High pressure fuel, reman [1830857C91, 2503704C91, 991964C93, F81Z9A543BRM, R98620007R]
1998-99 1/2 Ford Powerstroke; Navistar T444E esn 661895 - 843989		
<b>1 HP008X</b>	<b>Oil pump HP</b>	High pressure fuel, reman [1831449C91, 501009R91, F81Z9A543CRM, R98620008R]
1999 1/2 - 2003 Ford Powerstroke; Navistar T444E esn 843990 and up		
<b>1 AP0011</b>	<b>Seal kit hp oil pump</b>	Oring replacement for lines: (2) discharge orings, (2) engine galley orings (1) pump end plug oring
<b>1 AP63401</b>	<b>IPR valve</b>	with Edge Filter [1824982C91, F4TZ9C968C / CB]
1994-1995.5		
<b>1 AP63402</b>	<b>IPR valve</b>	without Edge Filter [1829856C91, F81Z9C968-AA / AB]
1995.5-2003		
<b>1 AP0003</b>	<b>IPR valve seal kit</b>	[1825806C91, F6TZ9C977AN]
<b>1 1815899</b>	<b>Gasket oil pickup</b>	Inlet tube gasket
<b>1 1823671</b>	<b>Gasket oil pickup</b>	Suction tube to pump
from sn 375549		
<b>1 1831665</b>	<b>Gasket oil filter</b>	Lube oil filter adapter gasket
<b>1 1815898</b>	<b>Gasket oil pump</b>	High pressure pump flange gasket
<b>1 1831516</b>	<b>Gasket oil pump</b>	Pump mounting
<b>1 1815904C1</b>	<b>Oil cooler</b>	Remanufactured

**FUEL / INJECTOR**

<b>8 AP63800AA</b>	<b>Injector</b>	New, HEUI, code AA [F81Z9E527DRM, 1822801C99]
1994-1996 F-Series and E-Series		
<b>8 AP63802AC</b>	<b>Injector</b>	New, HEUI, code AC [1824456C96]
1994-1996 IH T444E High output		
<b>8 AP63801AB</b>	<b>Injector</b>	New, HEUI, code AB [F81Z9E527BRM, 1824583C97]
1999 F-Series, 1997-98 E-Series, 1997-1999 IH T444E		
<b>8 AP63803AD</b>	<b>Injector</b>	New, HEUI, code AD [F81Z9E527CRM, 1831487C92]
1999-2003 F-Series and E-Series, IH T444E		
<b>8 AP63804AE</b>	<b>Injector</b>	New, HEUI, code AE [F81Z9E527EARM, 1833646C92]
1999-2003 F-Series and E-Series, IH T444E		
<b>1 1824415</b>	<b>Fuel pump</b>	Mechanical lift pump [repl 1821657C93]
MY through 1998, esn to 843989		
<b>1 F81Z-9C407-AC</b>	<b>Fuel pump</b>	Mechanical lift pump
MY 1998 - 2003, esn 843990 and up		
<b>1 1822708</b>	<b>Seal fuel pump</b>	
<b>8 1830742C92</b>	<b>Injector seal kit</b>	External, for 1 injector, contains: Blue upper, Pink center, Orange lower, Backup steel, Gasket aluminum
<b>8 1814695</b>	<b>Injector oring</b>	Lower seal
<b>1 AP63405</b>	<b>Glow plug relay</b>	without pigtail [F81Z-12B533-AC, DY-861, 1831646C1]
F-250 / F-550, E Series: 1997-2003; F-650/F-750: 2000-2002		
<b>8 80033</b>	<b>Glow plug</b>	[F4TZ-12A342-A, ZD10, ZD11, 1820697C2]
F-250 / F-550: 1994-2002; E Series: 1994-2003; F-650/F-750, Excursion: 2000-2002		

<b>Navistar</b> Diesel 1.308 piston pin, DI Turbo "Powerstroke"	<b>7.3L DI: T444E; 1994-2003</b> (Continued)	8 Cylinder Bore 4.110 Stroke 4.180	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> <b>305.470.9306</b>
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1 **AP63409** **Heater element fuel filter** [F5TZ-9J294-A, 1825186C91]

1994-1997

1 **AP63410** **Heater element fuel filter** [F81Z-9J294-AA, 1831196C92]

1998-2003

1 **AP0008** **Fuel filter drain valve kit** [1823645C91, 1825753C91, F5TZ-9157-A, F6TZ-9157-BA]

1994-1997

1 **AP0007** **Fuel filter drain valve kit** Grommets included [F81Z-9C065-AA]

1999-2003 (not compatible with van applications)

### COOLING SYSTEM

1 **AP63501** **Water pump** New, kit with elbow; universal applictaion [F81Z8501CRM]

1994-2003

1 **7314X** **Water pump** Reman: 1994-1996; Cast: 1822823C1

F5TZ8501A, B, CRM

1 **7315X** **Water pump** Reman: IH applications after 10/7/94, sn from 58559, right side inlet; Cast: 1822851C1, 1831676C

1823669C92

1 **7316X** **Water pump** Reman: Ford & IH before 10/7/94, sn to 58558 left side inlet; Cast: 1818182C3,4

F4TZ8501ARM

1 **7317X** **Water pump** Reman: 1997; Cast: 1823423C2

E7TZ8501ARM

1 **7320X** **Water pump** Reman: 1996 & up, 2-piece design, aluminum housing

E6TZ-8501AA, F7TZ8501-BRM, 8I28501ARM

1 **7318X** **Water pump** Reman: 1998 & up; Cast: 1823611C1

E6TZ8501A, BRM

1 **1831713** **Seal ring** Water pump

1 **1818397** **Seal ring** Water pump inlet

1 **1821880** **Gasket water pump** Outlet

### TURBO / AIR

**TURBO** **TURBOCHARGER** New or remanufactured available, call for pricing

1 **1822120** **Gasket turbo mtg**

1 **1818372** **Seal turbo outlet** Square seal ring for compressor outlet

1 **1815561** **Oring turbo drain**

1 **1815560** **Oring turbo supply**

### MISC

1 **AP83000** **Starter** New [F4TZ-11002-A, F5TU-11000-AA/AB/AD]

1994-2003

1 **AP83006** **Starter** New [3C3Z-11002-AA, 3C3U-11000-AB, 2C3Z-11002-AA]

2003-2006

1 **AP63403** **Sensor EBP** Exhaust back pressure sensor [4C3Z-9J460-A, 1850353C1, 1837012C1]

F250/F550: 1994-2002 esn 501 to 2030402; F650/F750: 2000-2002 esn 1026248 to end; Excursion: 2000-2002 esn 896813 to 2030402; E-Series: 1994-2003 esn 35651 to 2030402

1 **AP63404** **Tube assy EBP** Tube exhaust back pressure [1C3Z-9D477-AA, 1837875C1]

1995.5-2003

<b>Navistar</b> Diesel 466, 467, 468 prefix	<b>DT466 / 7.6L</b>	6 Cylinder Bore 4.3005 Stroke 5.35	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> <b>305.470.9306</b>
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### ENGINE KITS

<b>1</b>	<b>IH-DT466-4N</b>	<b>Overhaul kit</b>	esn 439618 & below (narrow bearings)
<b>1</b>	<b>IH-DT466-4N-IF</b>	<b>InFrame kit</b>	esn 439618 & below (narrow bearings)
<b>1</b>	<b>IH-DT466-4W</b>	<b>Overhaul kit</b>	esn 439619 & above (wide bearings)
<b>1</b>	<b>IH-DT466-4W-IF</b>	<b>InFrame kit</b>	esn 439619 & above (wide bearings)

### CYLINDER KIT

<b>6</b>	<b>687432</b>	<b>Cylinder kit</b>	4.3005 bore, 1/4 oil ring, narrow gap [684255 piston, 684256 rings, 1810504 liner] [687432C91] esn -> 74999; Can use DT466-2PSR
<b>6</b>	<b>DT466-2PSR</b>	<b>Cylinder kit</b>	4.3005 bore, 5/32" oil ring, narrow gap rings, w/ block mounted breather [1817520C2 piston, 1817555C99 rings] esn 74999 - 76439 (replacement for 1/4" oil, replace in sets)
<b>6</b>	<b>71802581</b>	<b>Cylinder kit</b>	4.3005 bore, 1/4" oil ring esn 76440 - 594840 [can use DT466-1PSR in sets]
<b>6</b>	<b>31817646C92</b>	<b>Cylinder kit</b>	4.3005 bore, 5/32" oil ring, wide gap rings, w/valve cover mounted breather [1817520C2 piston, 1817247 rings] [1817645C91, 1810359C92] esn 76440 - 594840; 618496 & up except DINA; DINA sn 685484 -> (replacement for 1/4" oil, replace in sets)
<b>6</b>	<b>1810359-4R</b>	<b>Cylinder kit</b>	4.3005 bore, 4-ring piston [1809683-4R piston, 1810358-4R rings, 1810504-WS liner] esn 76440 - 594840; 618496 & up except DINA; DINA sn 685484 ->
<b>6</b>	<b>2261850</b>	<b>Cylinder kit</b>	4.3005 bore, 1/4" oil ring, wide gap rings [2243272, 2264448, S41894]; 210 hp, radius bowl design [1815396C91] esn 594841 - 618495, 1/4" oil ring
<b>6</b>	<b>1817189</b>	<b>Cylinder kit</b>	4.3005 bore, 5/32" oil ring [1817188 piston, 1817247 rings, 1810504-WS liner] [1817339C91] DINA esn -> 645484
<b>6</b>	<b>684255-WP</b>	<b>Piston</b>	4.3005 bore, 1/4 oil ring, 15.2:1 CR; Piston with pin and retainers [684255C3] esn -> 74999
<b>6</b>	<b>2632PN</b>	<b>Piston</b>	4.3005 bore, 3.406 CD, 5.030 length, 1.625 pin, cup .864 x 2.58 with insert; (2) 1/8, (1) 1/4 [688835C3] esn 76440 - 594840
<b>6</b>	<b>1817520-WP</b>	<b>Piston</b>	4.3005 bore, 5/32 oil ring; Piston with pin and retainers [1817520C2] esn 74999 - 594840; 618496 & up except DINA; DINA sn 685484 -> (replacement for 1/4" oil, replace in sets)
<b>6</b>	<b>1809683-4R</b>	<b>Piston body</b>	4.3005 bore, 4-ring piston with retainers esn 74999 - 594840; 618496 & up except DINA; DINA sn 685484 ->
<b>6</b>	<b>2243272</b>	<b>Piston</b>	(use 2243296) 4.3005 dia, 3.407 CD, 5.020 length, 1.625 pin, cup 0.978 x 2.58, 2 vlv rlf; (2) 1/8, (1) 1/4 [1815345C1] esn 594841 - 618495, 1/4" oil ring
<b>6</b>	<b>1817188-WP</b>	<b>Piston kit</b>	4.3005 bore, 16.5:1 CR, 5/32 oil ring DINA esn -> 645484
<b>6</b>	<b>670675</b>	<b>Piston pin</b>	[670675C1]
<b>12</b>	<b>326874</b>	<b>Retainer piston pin</b>	[326874R1]
<b>6</b>	<b>684256</b>	<b>Ring set</b>	4.3005 bore; (2) 1/8, (1) 1/4 [1 cyl set] narrow gap [repl by 1346908C91] esn -> 74999
<b>6</b>	<b>NSD466RSNGT</b>	<b>Ring set</b>	4.3005 bore; (2) 1/8, (1) 5/32 [1 cyl set] narrow gap esn 74999 - 76439 (check oil ring size, original piston may have 1/4 oil ring)
<b>6</b>	<b>1810358</b>	<b>Ring set</b>	4.3005 bore; (2) 1/8, (1) 1/4 [1 cyl set] wide gap [repl by 1346906C91, repl 687429C92] esn 76440 - 618495 (check oil ring size, piston may have been replaced with 5/32 oil ring)
<b>6</b>	<b>1817247</b>	<b>Ring set</b>	4.3005 bore; (2) 1/8, (1) 5/32, wide gap [1 cyl set] Both compression rings keystone esn 618496 -> (check oil ring size, original piston may have 1/4 oil ring)
<b>6</b>	<b>1810504-WS</b>	<b>Cylinder liner</b>	4.3005 bore, with orings [Bare liner: A77692, 1810504C1, 682720C1, 675024C2]
<b>6</b>	<b>680086</b>	<b>Cylinder liner oring kit</b>	Set of 3 orings (for 1 liner) [680086C1]

<b>Navistar</b> Diesel 466, 467, 468 prefix	<b>DT466 / 7.6L</b> (Continued)	6 Cylinder Bore 4.3005 Stroke 5.35	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> <b>305.470.9306</b>
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### BEARINGS

<b>1</b>	<b>71823847</b>	<b>Bearing main set</b>	Std, 3.3742/3.3755 journal, 1.230 width, narrow [repl (6) 684570C93 (1) 684579C92; set 243649A1]
DT466C: esn to 440035; DTI466C: esn to 439617 (Crankshaft casting C1 or C2)			
<b>1</b>	<b>71823848</b>	<b>Bearing main set</b>	0.010, narrow [repl (6) 684573C93 (1) 684582C93; set 243650A1]
<b>1</b>	<b>71823849</b>	<b>Bearing main set</b>	0.020, narrow [repl (6) 687391C3 (1) 687394C3; set 243651A1]
<b>1</b>	<b>71823850</b>	<b>Bearing main set</b>	0.030, narrow [repl (6) 684576C93 (1) 684585C93; set 243652A1]
<b>1</b>	<b>71823843</b>	<b>Bearing main set</b>	Std, 3.3742/3.3755 journal, 1.294 width, wide [repl (6) 1808069C92 (1) 684579C93; 243640A1 set]
DT466C: esn from 44036; DTI466C: esn from 439618 (Crankshaft casting C3)			
<b>1</b>	<b>71823844</b>	<b>Bearing main set</b>	0.010, wide [repl (6) 1808070C92 (1) 684582C93; set 243641A1]
<b>1</b>	<b>MS1642P20</b>	<b>Bearing main set</b>	0.020; wide [repl (6) 1808071C92 (1) 687394C93; set 243646A1]
<b>1</b>	<b>MS1642P30</b>	<b>Bearing main set</b>	0.030; wide [.012 flange os length on 30 undersize] [repl (6) 1808072C92 (1) 684585C93; set 243648A1]
<b>6</b>	<b>71823855</b>	<b>Bearing rod pair</b>	Std, 2.9977/2.9990 journal, 1.200 length (narrow) [repl 1823855C91, 681314C3]
DT466C: esn to 440035; DTI466C: esn to 439617 (Crankshaft casting C1 or C2)			
<b>6</b>	<b>71823856</b>	<b>Bearing rod pair</b>	0.010; narrow [repl 681315C3]
<b>6</b>	<b>71823857</b>	<b>Bearing rod pair</b>	0.020; narrow [repl 687382C3]
<b>6</b>	<b>71823858</b>	<b>Bearing rod pair</b>	0.030; narrow [repl 681316C3]
<b>6</b>	<b>71823851</b>	<b>Bearing rod pair</b>	Std, 2.9977/2.9990 journal, 1.2600 length (wide) [repl 1808059C92]
DT466C: esn from 44036; DTI466C: esn from 439618 (Crankshaft casting C3)			
<b>6</b>	<b>71823852</b>	<b>Bearing rod pair</b>	0.010, wide [repl 1808060C91]
<b>6</b>	<b>71823853</b>	<b>Bearing rod pair</b>	0.020, wide [repl 1808061C92]
<b>6</b>	<b>71823854</b>	<b>Bearing rod pair</b>	0.030, wide [repl 1808062C91]
<b>6</b>	<b>675006</b>	<b>Bushing con rod</b>	1.625 ID, 1.7255 OD, 1.390 length [675006C2]
<b>1</b>	<b>680117</b>	<b>Bearing cam set</b>	[680117C1]

### GASKET & SEALS

<b>1</b>	<b>1808973</b>	<b>Set cylinder head</b>	
<b>1</b>	<b>674399</b>	<b>Set conversion</b>	Does not include crankshaft seals
<b>G1</b>			
<b>UPPER GASKETS</b>			
<b>1</b>	<b>1819547</b>	<b>Gasket cylinder head</b>	[repl 1806226C1, 676108C2]
<b>1</b>	<b>675109</b>	<b>Gasket valve cover</b>	
<b>6</b>	<b>677692</b>	<b>Grommet valve cvr</b>	
<b>1</b>	<b>615175C91</b>	<b>Thermostat seal</b>	
<b>G2</b>			
<b>FRONT GASKETS</b>			
<b>1</b>	<b>680084</b>	<b>Set front cover/hsg</b>	Does not include front seal
S-Series and Paystar: esn below 532980; Cargostar			
<b>1</b>	<b>1813933</b>	<b>Set front cover</b>	
esn 532981 & above			
<b>1</b>	<b>675813</b>	<b>Gasket front cover</b>	
S-Series and Paystar: esn below 532980			
<b>1</b>	<b>677082</b>	<b>Gasket front cover</b>	
Cargostar with alternator mounting bracket			
<b>1</b>	<b>1810510</b>	<b>Gasket front cover</b>	
S-Series esn 532981 - 567491; esn 567492 & up			
<b>1</b>	<b>675812</b>	<b>Gasket front plate</b>	
S-Series esn below 567491; Paystar esn below 532980			
<b>1</b>	<b>683791</b>	<b>Gasket front plate</b>	
Cargostar with alternator mounting bracket			

<b>Navistar</b> Diesel 466, 467, 468 prefix	<b>DT466 / 7.6L</b> (Continued)	6 Cylinder Bore 4.3005 Stroke 5.35	
<b>1 1813962</b>	<b>Gasket front plate</b>		
esn 567492 & up			
<b>G3</b>	<b>CRANK SEALS</b>		
<b>1 7690437</b>	<b>Seal crankshaft front</b>		
<b>1 71809964</b>	<b>Seal crankshaft rear</b>		
<b>1 678527</b>	<b>Seal crankshaft rear</b>	Double lip, with sleeve	
<b>G4</b>	<b>LOWER GASKETS</b>		
<b>1 PGN466PS</b>	<b>Set oil pan</b>	Pan gasket and pickup tube gasket	
<b>1 671827</b>	<b>Gasket oil pan</b>		
<b>1 671821</b>	<b>Gasket oil sump</b>		
esn 466775 & below			
<b>1 1802867</b>	<b>Gasket oil sump</b>		
esn 466776 & above			
<b>1 682945C3</b>	<b>Gasket rear cover</b>		
Except 170 HP engine with MT654CR & FC bus			
<b>1 1815483</b>	<b>Gasket flywheel hsg</b>		
For 170 HP engine with MT654CR & FC bus			
<b>1 682444C1</b>	<b>Camshaft seal ring</b>		
CAM RING			
<b>CAMSHAFT</b>			
<b>1 71802337</b>	<b>Camshaft</b>		
esn 143536 - 532980			
<b>1 2292171</b>	<b>Camshaft</b>	Roller [OE# 1810744C1] (requires 83312 gear, 676144C1 plate, 218211 key)	
esn 532981 - 850053			
<b>1 676144</b>	<b>Thrust plate</b>		
<b>12 7684729</b>	<b>Lifter</b>	0.997 diameter	
esn 140086 & below			
<b>12 71802340</b>	<b>Lifter</b>	1.12 diameter	
esn 140087 - 532980			
<b>12 1809570</b>	<b>Lifter</b>	roller type [Discontinued]	
esn 532981 & above			
<b>12 RP-3239</b>	<b>Push rod</b>	11.375 length, .375 dia; OE# 675621C1	
without valve train improvement pkg			
<b>12 1802507C1</b>	<b>Push rod</b>	9.682 length	
<b>1 675600</b>	<b>Gear camshaft</b>	66 teeth	
<b>1 675764C1</b>	<b>Grear idler</b>	[OEM] Gear, 77 teeth	
<b>1 327185R91</b>	<b>Bearing idler</b>	Bearing assembly	
<b>VALVE TRAIN</b>			
<b>1 680426C1</b>	<b>Cylinder head</b>	Reman assembly, non- B & C series	
<b>1 688833C1</b>	<b>Cylinder head</b>	Reman assembly, for B & C series	
<b>1 HKIH286</b>	<b>Valve kit</b>	Guide with 2.756 OAL; Spring: 2.389 length, 0.192 wire	
esn -> 532980			
<b>1 HKIH286S</b>	<b>Valve kit</b>	Same as HKIH286 - with seats	
esn -> 532980			
<b>1 HKIH288</b>	<b>Valve kit</b>	Guide with 2.756 OAL; Spring: 2.357 length, 0.207 wire	
esn 532981 - 594839			
<b>1 HKIH290</b>	<b>Valve kit</b>	Guide with 2.610 OAL; Spring: 2.357 length, 0.207 wire	
esn 594840 ->			
<b>6 675046</b>	<b>Valve intake</b>	1.970 head dia; 5.787 length; 0.3721 stem dia; 60 degree; 1G with seal groove [675046C4]	
<b>6 676865C2</b>	<b>Valve exhaust</b>	1.600 head dia; 5.803 length; 0.3712 stem dia; 45 degree; 1G	
<b>12 675439C1</b>	<b>Valve guide</b>	0.374 ID, 2.756 length	
esn 594839 & below (can use 1815264)			



<b>Navistar</b> Diesel 466, 467, 468 prefix	<b>DT466 / 7.6L</b> (Continued)	6 Cylinder Bore 4.3005 Stroke 5.35	
<b>12 1815264</b>	<b>Valve guide</b>	2.61 length, cut for seal	
esn 594840 & above			
<b>12 682064</b>	<b>Valve spring</b>	1.474 OD, 2.343 free length, 0.192 wire dia, 6.8 coils [682064C1]	
esn 532980 & below			
<b>12 1802507</b>	<b>Push rod</b>	9.625 length	
with valve train improvemnet pkg			
<b>12 1809589</b>	<b>Push rod</b>	10.60 length	
esn 532981 & above			
<b>12 1811581</b>	<b>Rotocap</b>	for 3/8 valve stem, 1.513 OD, 0.365 ID, 0.614 height; includes 681234C1 oil shield	
esn 594839 & below			
<b>12 1817661</b>	<b>Rotator</b>	for 3/8 valve stem, 1.510 OD, 0.368 ID, 0.495 height; includes oil shield 1815374C1	
esn 594840 & above			
<b>12 681234</b>	<b>Oil shield rotator</b>	[681234C1, repl by 1342827C1]	
esn 594839 & below			
<b>12 1815374</b>	<b>Valve stem seal</b>		
esn 594840 & above			
<b>6 675442</b>	<b>Injector sleeve</b>	Copper	
<b>6 671563C1</b>	<b>Valve insert</b>	Exhaust	
<b>6 671559C1</b>	<b>Valve insert</b>	Exhaust, .002 O.S.	
<b>CRANKSHAFT</b>			
<b>1 675669C93</b>	<b>Crankshaft</b>		
<b>1 83315</b>	<b>Gear crankshaft</b>	33 teeth [OE# 675406]	
<b>1 677781</b>	<b>Vibration damper</b>	Use with 681761 or 689421 pulley	
DT466B/C			
<b>1 1808800</b>	<b>Vibration damper</b>	Use with 689421 pulley	
<b>1 1810746</b>	<b>Vibration damper</b>		
esn 567942 - 594839; esn 594840 -> except codes 12NCX and 12NCY			
<b>1 681761C91</b>	<b>Pulley crankshaft</b>	Cargostar, 3 groove; includes sleeve and pin [may have to cut pulley to fit 1-1/4 oil pump]	
<b>1 689421C92</b>	<b>Pulley crankshaft</b>	S-series and Paystar; with pulley, 4 groove, includes sleeve and drive screw	
except as listed for: 1810392C91, 1802393C93, 1810746C91			
<b>1 1810392C91</b>	<b>Pulley crankshaft</b>	S-series, 3 groove, includes sleeve and drive screw	
Check codes and sn			
<b>1 1802393C93</b>	<b>Pulley crankshaft</b>	S-series, 4 groove, includes sleeve, drive screw, damper [may have to cut pulley to fit 1-1/4 oil pump]	
Check codes and sn			
<b>1 1810746C92</b>	<b>Pulley crankshaft</b>	S-series, 3 groove, includes sleeve, drive screw, damper	
Check codes and sn			
<b>CONNECTING ROD</b>			
<b>6 688922C1RX</b>	<b>Connecting rod</b>	Remanufactured	
<b>12 676679</b>	<b>Bolt connecting rod</b>		
<b>OIL / LUBE SYSTEM</b>			
<b>1 71802666</b>	<b>Oil pump</b>	New, 1 rotor	
esn 466775 & below			
<b>1 NSD466LOP</b>	<b>Oil pump</b>	1-1/4 inch rotor [repl 1808832C92 New, 735324C91 Reman]	
esn 466776 & above			
<b>1 675364C1</b>	<b>Oil pump drive gear</b>		
<b>2 675860</b>	<b>Oring pump housing</b>		
<b>1 441410</b>	<b>Oil cooler</b>	Oil cooler with gaskets and orings [1810171C2]	
<b>2 431221</b>	<b>Gsk oil cooler mtg</b>	[675513C1]	
<b>4 252483</b>	<b>Oil cooler tube oring</b>	[252483R1]	
<b>FUEL / INJECTOR</b>			
<b>INJECTOR</b>	<b>Injector</b>	New or remanufactured available, call for pricing	
<b>6 749039C91R</b>	<b>Injector</b>	Remanufactured, Code "D" [Holder: AKN90M6425A, Nozzle: ADB150M168-7]	
<b>6 749945C91R</b>	<b>Injector reman</b>	Remanufactured, Code "P" [Holder: AKN90M6425A, Nozzle: ADB152M213-7]	

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6	749763C91	Injector	Remanufactured, Code "N"
6	735194C91	Injector	Remanufactured, Code "S"
6	735349C91	Injector	Remanufactured, Code "X"
6	735426C91	Injector	Remanufactured, Code "18"
6	675477	Injector washer	Copper sealing washer
6	682810	Injector sleeve seal	Seal
1	DPE46620	Fuel return line kit	

**COOLING SYSTEM**

1	7302X	Water pump	Reman; OE# 680899; Cast# 677137C1
Cabover: Cargostar esn 642459 & below			
1	7301X	Water pump	Reman; OE# 685155; Cast# 677856C1
Conventional: S-Series & Payster esn 638215 & below			
1	7310X	Water pump	Reman; OE# 1815538; Cast# 677856C1; LH reverse threads
esn 642460 & above, except LPE engines			
1	400THERM	Thermostat	180 degree: thermostat, seal, gasket [1801191C91]
1	684739C1	Thermostat	190 degree: thermostat

**TURBO / AIR**

	<b>TURBO</b>	<b>TURBOCHARGER</b>	New or remanufactured available, call for pricing
1	675317C2	Exhaust sleeve	3.500 OD, 3.00 ID, 1.500 OAL; requires (2) 702299C1 seal rings
2	702299C1	Turbo seal ring	
12	682840	Stud exh manifold	
12	682987C1	Nut exh manifold stud	
12	684034C1	Washer exh man stud	



<b>Navistar</b> Diesel PLN fuel system; 469G prefix; 850,654 ->	<b>DT466 PLN / 7.6L</b>	6 Cylinder Bore 4.3005 Stroke 5.35	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> <b>305.470.9306</b>
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### ENGINE KITS

<b>1</b>	<b>IH-DT466P-E-IF</b>	<b>Inframe kit</b>	PLN [1822340 cylinder kit, 1822097 piston] [OE# 1830063C94]
esn 850654 to 888340: ALL torque and ALL horsepower engines			
<b>1</b>	<b>IH-DT466P-L-IF</b>	<b>Inframe kit</b>	PLN, 16.7:1 CR [1824823 cylinder kit, 1824810 piston] [OE# 1824824C99]
esn 888341 to 933833: 175, 210, 230 HP Standard torque (ST)			
<b>1</b>	<b>466104-001</b>	<b>InFrame kit</b>	PLN; [1824820C92 cylinder kit (401014), 1823930C1 Piston (410022)] [OE# 1824821C98]
esn 888341 and above: 230 HT and all 250HP			

### CYLINDER KIT

<b>6</b>	<b>31822329</b>	<b>Cylinder kit</b>	[1822097C1 piston, 1817247 rings, 1818552 pin, 1818702 retainers, 1815674 liner, 1822322 seal kit]
esn 850654 to 888340; contains piston for all HP; can replace 1822329 cylinder kit			
<b>6</b>	<b>1822097</b>	<b>Piston body</b>	
esn 850654 to 888340			
<b>6</b>	<b>1817247</b>	<b>Ring set</b>	4.3005 bore; (2) 1/8, (1) 5/32, wide gap [1 cyl set] Both compression rings keystone
esn 850654 to 888340			
<b>6</b>	<b>31824823</b>	<b>Cylinder kit</b>	[1824810C1 piston, 1825461 rings, 1818552 pin, 1818702 retainers, 1815674 liner, 1822322 seal kit]
esn 888341 to 933833: 175, 210, 230 HP Standard torque (ST)			
<b>6</b>	<b>1824810</b>	<b>Piston body</b>	
esn 888341 to 933833: 175, 210, 230 HP Standard torque (ST)			
<b>6</b>	<b>1825461</b>	<b>Ring set</b>	Top compression ring keystone
esn 888341 to 933833: 175, 210, 230 HP Standard torque (ST)			
<b>6</b>	<b>1824820</b>	<b>Cylinder kit</b>	[1823930 piston, 1817247 rings, 1818552 pin, 1818702 retainers, 1815674 liner, 1822322 seal kit] [1824820C92]
esn 888341 and above: 230 HT and all 250HP			
<b>6</b>	<b>1823930</b>	<b>Piston</b>	
esn 888341 and above: 230 HT and all 250HP			
<b>6</b>	<b>1818552</b>	<b>Piston pin</b>	1.8250 diameter
<b>12</b>	<b>1818702</b>	<b>Retainer piston pin</b>	
<b>6</b>	<b>1815674</b>	<b>Cylinder liner</b>	without seal rings
<b>6</b>	<b>1822322</b>	<b>Cylinder liner oring kit</b>	contains (1) 1817000, (1) 1817633
<b>6</b>	<b>1817000</b>	<b>Cylinder liner oring</b>	
<b>6</b>	<b>1817633</b>	<b>Cylinder liner oring</b>	contains (3) 675774 oring

### BEARINGS

<b>6</b>	<b>1822321</b>	<b>Bearing main pair</b>	Std, position 1, 2, 3, 4, 5, 6
	<b>1822490</b>	<b>Bearing main pair</b>	.010, position 1, 2, 3, 4, 5, 6
	<b>1822491</b>	<b>Bearing main pair</b>	.020, position 1, 2, 3, 4, 5, 6
	<b>1822492</b>	<b>Bearing main pair</b>	.030, position 1, 2, 3, 4, 5, 6
<b>1</b>	<b>1822379</b>	<b>Bearing thrust pair</b>	Std, position 7
	<b>1822494</b>	<b>Bearing thrust pair</b>	.010, position 7
	<b>1822495</b>	<b>Bearing thrust pair</b>	.020, position 7
	<b>1822496</b>	<b>Bearing thrust pair</b>	.030, position 7
<b>6</b>	<b>1822389</b>	<b>Bearing rod pair</b>	Std
<b>6</b>	<b>1822486</b>	<b>Bearing rod pair</b>	.010 u/s
<b>6</b>	<b>1822487</b>	<b>Bearing rod pair</b>	.020 u/s
<b>6</b>	<b>1822488</b>	<b>Bearing rod pair</b>	.030 u/s
<b>6</b>	<b>1818598</b>	<b>Bushing con rod</b>	
<b>1</b>	<b>680117</b>	<b>Bearing cam set</b>	[680117C1]

### GASKET & SEALS

<b>1</b>	<b>PGN466NGDIF</b>	<b>Set inframe</b>	Also order: 1816722 pickup tube gasket
<b>1</b>	<b>431251</b>	<b>Set upper</b>	[1822328C94]

<b>Navistar</b> Diesel PLN fuel system; 469G prefix; 850,654 ->	<b>DT466 PLN / 7.6L</b> (Continued)	6 Cylinder Bore 4.3005 Stroke 5.35	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> <b>305.470.9306</b>
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1	431275	Set lower	Does not include crankshaft seals or pan gasket [1830374C93]
1	1817562	Gasket cylinder head	
1	1817510	Gasket valve cover	
1	1826587	Gasket oil pan	
1	1816722	Gasket oil sump	
1	7690437	Seal crankshaft front	
1	1817867	Seal crankshaft rear	

### CAMSHAFT

1	1820850C93	Camshaft	with gear; Call for price and availability for remanufactured
12	1809570	Lifter	roller type [Discontinued]

### VALVE TRAIN

	CYLHEAD	NOTE	For complete and bare cylinder heads - Refer to Cylinder Head Catalog or Call with casting
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1	HKNAV466PE	Cylinder head kit	engine sn to 956463; 5/16 valve stem diameter
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Following parts for esn to 956463

6	1818580	Valve intake	1.970 head dia, 5.789 length, 0.3124 stem dia, 30 degree, 1 groove
6	1824838	Valve exhaust	1.600 head dia, 5.787 length, 0.3714 stem dia, 45 degree, 1 groove
12	140-8476	Valve guide	0.3146 ID, .5625 OD, 2.440 length, 1-P (use with 5/16 valve stem) [1820264C1, 1822862C1]
24	1810944	Valve lock	for .3125 (5/16) valve stem diameter
12	161-1049	Rotocap	for 5/16 valve stem, 1.505 OD, 0.305 ID, 0.594 height; includes oil shield (OEM 1820826C91)
12	1819380C1	Seal rotator	
12	122-1300	Valve stem seal	use with 5/16 stem diameter; positive, viton, top hat style; 0.565/0.575 nominal guide OD [1822245C1]

1	HKNAV466PL	Cylinder head kit	engine sn from 956464; 3/8 valve stem diameter
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Following parts for esn 956464 & up

6	01943	Valve intake	1.970 head dia, 5.787 length, 0.3722 stem dia, 30 degree, 1 groove [1824642C2, 1824642C1]
6	01944S	Valve exhaust	1.600 head dia, 5.787 length, 0.3714 stem dia, 45 degree, 1 groove [1824842C1]
12	140-3006	Valve guide	0.3745 ID, .6265 OD, 2.395 length (use with 3/8 valve stem) [1824646C1]
24	121-1091	Valve lock	for 3/8 stem valve; 0.3720 ID, 0.2980 length, 1 round [1824644C1]
12	161-1046	Rotocap	for 3/8 valve stem (OEM 1824680C1)
12	1824683	Seal rotator	
12	122-1320	Valve stem seal	use with 3/8 stem diameter; positive, viton, top hat style; 0.610/0.620 nominal guide OD [1823925C1]

6	160-1416	Valve spring	1.063 ID, 1.477 OD, 2.357 free length, 0.207 wire dia, 1.370 solid height
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Intake

6	160-1417	Valve spring	1.068 ID, 1.482 OD, 2.580 free length, 0.207 wire dia, 1.370 solid height
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Exhaust

6	675043	Valve insert	Intake
6	675450	Valve insert	Exhaust
6	675442	Injector sleeve	Copper

### OIL / LUBE SYSTEM

1	431271	Set oil cooler mounting	Includes: (1)431270 (1)431208 (2)421228 (2)421227 (4)421226 (1)421224 (1)421241 (1)MSL-4134-006 [1823182C95]
1	431270	Gasket oil cooler	Oil filter head [1817849C3]
2	421228	Oring	Oil cooler [1807563C1]
2	421227	Oring	Oil cooler [1804414C1]
4	421226	Oring	Oil line [1821098C2]
1	421224	Oring	Pressure regulator valve [1820907C2]
1	421241	Seal ring	Cooler header [1830362C1] [repl 1818401C2]
1	421272	Seal ring	Coolant filter head [1820353C1]

### FUEL / INJECTOR

	INJECTOR	Injector	New or remanufactured available, call for pricing
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<b>Navistar</b>	<b>DT466 PLN / 7.6L</b>	6 Cylinder	
Diesel	(Continued)	Bore 4.3005	
PLN fuel system; 469G prefix; 850,654 ->		Stroke 5.35	
<b>6</b>	<b>1820834C91R</b>	<b>Injector reman</b>	Code B
esn to 874582: 195HP, 210HP			
<b>6</b>	<b>1820838C91R</b>	<b>Injector reman</b>	Code D, F
esn to 888340: 230HP, 250HP			
<b>6</b>	<b>1820844C91R</b>	<b>Injector reman</b>	Code G
esn to 888340: 275HP			
<b>6</b>	<b>1823757C91R</b>	<b>Injector reman</b>	Code AB
esn 888341 & up: 175HP, 190HP			
<b>6</b>	<b>1823761C91R</b>	<b>Injector reman</b>	Code AD
esn 888341 & up: 195HP, 210HP			
<b>6</b>	<b>1823763C91R</b>	<b>Injector reman</b>	Code AE
esn 888341 & up: 230HP, 250HP			
<b>6</b>	<b>1823765C91</b>	<b>Injector reman</b>	Code AF
esn 88341 & up: 275HP			
<b>6</b>	<b>1823759C91R</b>	<b>Injector reman</b>	Code AC
Engine Code 12NGC: 210HP; Engine Code 12NGD: 230HP			
<b>6</b>	<b>675477</b>	<b>Injector washer</b>	Copper sealing washer
<b>6</b>	<b>682810</b>	<b>Injector sleeve seal</b>	Seal
<b>COOLING SYSTEM</b>			
<b>1</b>	<b>7313X</b>	<b>Water pump</b>	Reman; Cast: 1821935C1/C3; OEM 1817687C92
<b>1</b>	<b>421205</b>	<b>Oring water pump</b>	[1819099C1]
<b>1</b>	<b>481832</b>	<b>Thermostat</b>	Kit, includes Oring 421215 [1830256C93] [repl 1822575C92]
<b>1</b>	<b>421215</b>	<b>Oring thermostat</b>	[1820951C1]
<b>1</b>	<b>480890</b>	<b>Tensioner belt</b>	[1830033C1] [repl 1814719C1]
<b>TURBO / AIR</b>			
<b>TURBO</b>	<b>TURBOCHARGER</b>	New or remanufactured available, call for pricing	
<b>BLOCK</b>			
<b>1</b>	<b>431267</b>	<b>Set front cover</b>	Includes: 431260, 431259, 431262, 431253, 431258, 131294, 421221, 421224, 421225, 421205, 421273 [1822365C98]

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305.470.9306

<b>Navistar</b>	<b>DT466E / 7.6L</b>	6 Cylinder	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a>
Diesel		Bore 4.3005	<b>305.470.9306</b>
HEUI fuel system; 469H: 933,834 - 1,194,038		Stroke 5.35	

### ENGINE KITS

<b>1</b>	<b>IH-DT466E-E-IF</b>	<b>Inframe kit</b>	HEUI [1824966 cylinder kit, 1823313 piston] [OE# 1833446C94]
esn to 1126948: 210 High Torque (HT) & 230 to 250HP			
<b>1</b>	<b>IH-DT466E-L-IF</b>	<b>Inframe kit</b>	HEUI [1825690 cylinder kit, 1825585 piston] [OE# 1841391C91]
esn 980820 to 1194038: 175-210 HP Standard torque (ST) engines			
<b>1</b>	<b>IH-DT466E-LH-IF</b>	<b>Inframe kit</b>	HEUI [1830565 cylinder kit, 1830375 piston] [OE# 1830566C95]
esn 1126949 - 1194038: 230HP & 250HP: High Torque & Standard torque			

### CYLINDER KIT

<b>6</b>	<b>31825690</b>	<b>Cylinder kit</b>	[1825585C2 piston, 1825461 rings, 1818552 pin, 1818702 retainers, 1815674 liner, 1822322 seal kit]
esn 980820 to 1194038: 175-210 HP Standard Torque (ST)			
<b>6</b>	<b>1825585</b>	<b>Piston body</b>	
esn 980820 to 1194038: 175-210 HP Standard Torque (ST)			
<b>6</b>	<b>1825461</b>	<b>Ring set</b>	Top compression ring keystone
esn 980820 to 1194038: 175-210 HP Standard Torque (ST)			
<b>6</b>	<b>31824966</b>	<b>Cylinder kit</b>	[1823313C1 piston, 1817247 rings, 1818552 pin, 1818702 retainers, 1815674 liner, 1822322 seal kit]
esn to 1126948: 210 High Torque (HT) & 230 to 250HP			
<b>6</b>	<b>1823313</b>	<b>Piston body</b>	
esn to 1126948: 210 High Torque (HT) & 230 to 250HP			
<b>6</b>	<b>31830564</b>	<b>Cylinder kit</b>	[1830375C1 piston, 1817247 rings, 1818552 pin, 1818702 retainers, 1815674 liner, 1822322 seal kit]
esn 1126949 - 1194038: 230HP & 250HP: High Torque & Standard torque			
<b>6</b>	<b>1830375C1</b>	<b>Piston body</b>	
<b>6</b>	<b>1817247</b>	<b>Ring set</b>	4.3005 bore; (2) 1/8, (1) 5/32, wide gap [1 cyl set] Both compression rings keystone
esn to 1126948: 210 High Torque (HT) & 230 to 250HP			
<b>6</b>	<b>1818552</b>	<b>Piston pin</b>	1.8250 diameter
<b>12</b>	<b>1818702</b>	<b>Retainer piston pin</b>	
<b>6</b>	<b>1815674</b>	<b>Cylinder liner</b>	without seal rings
<b>6</b>	<b>1822322</b>	<b>Cylinder liner oring kit</b>	contains (1) 1817000, (1) 1817633
<b>6</b>	<b>1817000</b>	<b>Cylinder liner oring</b>	
<b>6</b>	<b>1817633</b>	<b>Cylinder liner oring</b>	contains (3) 675774 oring

### BEARINGS

<b>6</b>	<b>1822321</b>	<b>Bearing main pair</b>	Std, position 1, 2, 3, 4, 5, 6
	<b>1822490</b>	<b>Bearing main pair</b>	.010, position 1, 2, 3, 4, 5, 6
	<b>1822491</b>	<b>Bearing main pair</b>	.020, position 1, 2, 3, 4, 5, 6
	<b>1822492</b>	<b>Bearing main pair</b>	.030, position 1, 2, 3, 4, 5, 6
<b>1</b>	<b>1822379</b>	<b>Bearing thrust pair</b>	Std, position 7
	<b>1822494</b>	<b>Bearing thrust pair</b>	.010, position 7
	<b>1822495</b>	<b>Bearing thrust pair</b>	.020, position 7
	<b>1822496</b>	<b>Bearing thrust pair</b>	.030, position 7
<b>6</b>	<b>1822389</b>	<b>Bearing rod pair</b>	Std
<b>6</b>	<b>1822486</b>	<b>Bearing rod pair</b>	.010 u/s
<b>6</b>	<b>1822487</b>	<b>Bearing rod pair</b>	.020 u/s
<b>6</b>	<b>1822488</b>	<b>Bearing rod pair</b>	.030 u/s
<b>6</b>	<b>1818598</b>	<b>Bushing con rod</b>	
<b>1</b>	<b>680117</b>	<b>Bearing cam set</b>	[680117C1]

### GASKET & SEALS

<b>1</b>	<b>PGN466EIF</b>	<b>Set inframe</b>	Also order: 1816722 pickup tube gasket; Does not include valve stem seals [Order (12) 122-1320]
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<b>Navistar</b> Diesel HEUI fuel system; 469H: 933,834 - 1,194,038	<b>DT466E / 7.6L</b> (Continued)	6 Cylinder Bore 4.3005 Stroke 5.35	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> <b>305.470.9306</b>
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1	1824970	Set cylinder head	Does not include valve stem seals [Order (12) 122-1320]
1	431273	Set lower	Does not include crank seals of pan gasket [1824985C99] [repl 1874865C91]
1	1817562	Gasket cylinder head	
1	1825602	Set valve cover	Includes: Valve cover gasket, oring
1	1826587	Gasket oil pan	
1	1816722	Gasket oil sump	
1	7690437	Seal crankshaft front	
1	1817867	Seal crankshaft rear	

### CAMSHAFT

1	1820208C93	Camshaft	with gear
12	1809570	Lifter	roller type [Discontinued]

### VALVE TRAIN

1	1823882C92	Cylinder head	Assembly, remanufactured
1	HKNAV466HE	Cylinder head kit	Intake valve with 1.786 head diameter
6	01945	Valve intake	1.786 head dia, 5.992 length, 0.3722 stem dia, 60 degree, 1 groove
6	1824840	Valve exhaust	1.786 head dia, 45 degree
12	140-8188	Valve guide	0.3745 ID, .6265 OD, 2.610 length, 3-SR
6	160-1416	Valve spring	1.063 ID, 1.477 OD, 2.357 free length, 0.207 wire dia, 1.370 solid height
Intake			
6	160-1417	Valve spring	1.068 ID, 1.482 OD, 2.580 free length, 0.207 wire dia, 1.370 solid height
Exhaust			
24	121-1091	Valve lock	for 3/8 stem valve; 0.3720 ID, 0.2980 length, 1 round [1824644C1]
12	161-1046	Rotocap	for 3/8 valve stem (OEM 1824680C1)
12	1824683	Seal rotator	
12	122-1320	Valve stem seal	use with 3/8 stem diameter; positive, viton, top hat style; 0.610/0.620 nominal guide OD [1823925C1]
6	SB1823E-1	Valve insert	Intake, 1.560T ID, 1.823 OD, .273 depth, 30 deg [1821901C1]
6	SB1811E-2N	Valve insert	Exhaust, 1.548T ID, 1.811 OD, .334 depth, 45 deg [1821903C3]

### OIL / LUBE SYSTEM

1	1822326C92	Oil pump	
1	HP021X	Oil pump HP	High pressure fuel, 5.3cc, reman [1825681C94, 1825681C95, 1842721C91, R98620021R]
esn 1194038 and below: All HP			
1	431271	Set oil cooler mounting	Includes: (1)431270 (1)431208 (2)421228 (2)421227 (4)421226 (1)421224 (1)421241 (1)MSL-4134-006 [1823182C95]
1	431270	Gasket oil cooler	Oil filter head [1817849C3]
2	421228	Oring	Oil cooler [1807563C1]
2	421227	Oring	Oil cooler [1804414C1]
4	421226	Oring	Oil line [1821098C2]
1	421224	Oring	Pressure regulator valve [1820907C2]
1	421241	Seal ring	Cooler header [1830362C1] [repl 1818401C2]
1	421272	Seal ring	Coolant filter head [1820353C1]

### FUEL / INJECTOR

6	AP63805BA	Injector	New, HEUI, code BA [1824928C94]
DT466E: 230HP and 250HP; esn -> 1084867			
6	AP63806BB	Injector	New, HEUI, code BA [1824929C94]
DT466E: 175HP and 190HP; esn -> 1028710			
6	AP63807BC	Injector	New, HEUI, code BC [1824930C94]
DT466E: 195HP, 210HP, 230HP; esn -> 1028710			
6	AP63809BE	Injector	New, HEUI, code BE [1829839C93, 1829839C94]
DT466E: 175HP to 210HP and 230HP; esn 1028711 - 1194038			
6	AP63811BI	Injector	New, HEUI, code BI [1830741C92, 1830741C93]
DT466E: 250HP; esn 1125228 ->			

<b>Navistar</b> Diesel HEUI fuel system; 469H: 933,834 - 1,194,038	<b>DT466E / 7.6L</b> (Continued)	6 Cylinder Bore 4.3005 Stroke 5.35	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> <b>305.470.9306</b>
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<b>6</b>	<b>AP63814BP</b>	<b>Injector</b>	New, HEUI, code BP [1836251C91]
DT466E: Transit			
<b>1</b>	<b>AP0006</b>	<b>Chamber gasket</b>	Stainless seal, package of 6; Must use with in conjunction with stainless steel injector sleeve [1830317C1] esn 1194039 and up; Also used with early sn if injector sleeves have been changed to stainless steel
<b>6</b>	<b>1815378</b>	<b>Injector gasket</b>	
<b>6</b>	<b>1818778</b>	<b>Injector sleeve</b>	
<b>6</b>	<b>1830742C92</b>	<b>Injector seal kit</b>	External, for 1 injector, contains: Blue upper, Pink center, Orange lower, Backup steel, Gasket aluminum

**COOLING SYSTEM**

<b>1</b>	<b>7313X</b>	<b>Water pump</b>	Reman; Cast: 1821935C1/C3; OEM 1817687C92
<b>1</b>	<b>421205</b>	<b>Oring water pump</b>	[1819099C1]
<b>1</b>	<b>481832</b>	<b>Thermostat</b>	Kit, includes Oring 421215 [1830256C93] [repl 1822575C92]
<b>1</b>	<b>421215</b>	<b>Oring thermostat</b>	[1820951C1]
<b>1</b>	<b>480890</b>	<b>Tensioner belt</b>	[1830033C1] [repl 1814719C1]

**TURBO / AIR**

<b>TURBO</b>	<b>TURBOCHARGER</b>	New or remanufactured available, call for pricing
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**BLOCK**

<b>1</b>	<b>431263</b>	<b>Set front cover</b>	Gasket set kit [1824984C92]
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<b>Navistar</b> Diesel Big Bore 470: 1,194,039 - 2,000,00	<b>DT466 BigBore / 7.6L</b>	6 Cylinder Bore 4.5870 Stroke 4.680	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> <b>305.470.9306</b>
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### ENGINE KITS

<b>1</b>	<b>1836195C94</b>	<b>InFrame kit</b>	HEUI [1836192 cylinder kit, 1836321 piston]
esn 1194039 & above: 215HP High Torque (HT) and below			

### CYLINDER KIT

<b>6</b>	<b>1836192</b>	<b>Cylinder kit</b>	[1836321 piston] [1836192C92]
esn 1194039 & above: 215 High Torque and below			

<b>6</b>	<b>1836321</b>	<b>Piston body</b>	[1836321C1]
esn 1194039 & above: 215 High Torque and below			

<b>6</b>	<b>405025</b>	<b>Ring set</b>	[1830724C92]
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<b>6</b>	<b>405024</b>	<b>Ring set</b>	[1830723C92]
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<b>6</b>	<b>410031</b>	<b>Piston pin</b>	[1830060C1]
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<b>12</b>	<b>1818702</b>	<b>Retainer piston pin</b>	
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<b>6</b>	<b>400025</b>	<b>Cylinder liner</b>	Includes liner & seal [1842553C91]
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<b>6</b>	<b>400003</b>	<b>Cylinder liner</b>	[1841326C1] [repl 1830706C1, 1815648C1]
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<b>6</b>	<b>1822322</b>	<b>Cylinder liner oring kit</b>	contains (1) 1817000, (1) 1817633
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<b>6</b>	<b>1817000</b>	<b>Cylinder liner oring</b>	
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<b>6</b>	<b>1817633</b>	<b>Cylinder liner oring</b>	contains (3) 675774 oring
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### BEARINGS

<b>1</b>	<b>470150</b>	<b>Bearing main set</b>	Std
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<b>6</b>	<b>470140</b>	<b>Bearing main pair</b>	Std (#1-6) (6 Req'd) [1830725C91]
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<b>1</b>	<b>470145</b>	<b>Bearing main pair</b>	Std (#7) (1 Req'd) [1830726C91]
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<b>6</b>	<b>470130</b>	<b>Bearing rod pair</b>	Std [1836020C91] [repl 1830149C1]
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### GASKET & SEALS

<b>1</b>	<b>1830720</b>	<b>Set cylinder head</b>	
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<b>1</b>	<b>1830327</b>	<b>Gasket cylinder head</b>	
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<b>1</b>	<b>431273</b>	<b>Set lower</b>	Does not include crank seals of pan gasket [1824985C99] [repl 1874865C91]
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<b>1</b>	<b>431272</b>	<b>Gasket rear hsg</b>	[1841974C1]
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<b>1</b>	<b>1826587</b>	<b>Gasket oil pan</b>	
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<b>1</b>	<b>1816722</b>	<b>Gasket oil sump</b>	
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<b>1</b>	<b>7690437</b>	<b>Seal crankshaft front</b>	
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<b>1</b>	<b>1817867</b>	<b>Seal crankshaft rear</b>	
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### VALVE TRAIN

<b>1</b>	<b>1830346C93</b>	<b>Cylinder head</b>	Assembly, remanufactured
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<b>1</b>	<b>HKNAV466HL</b>	<b>Cylinder head kit</b>	Intake valve with 1.970 head diameter
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<b>6</b>	<b>02131</b>	<b>Valve intake</b>	1.970 head dia, 5.992 length, 0.3722 stem dia, 30 degree, 1G [1826471C2, 1826471C1, 1842913C1]
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<b>6</b>	<b>1824840</b>	<b>Valve exhaust</b>	1.786 head dia, 45 degree
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<b>12</b>	<b>140-8188</b>	<b>Valve guide</b>	0.3745 ID, .6265 OD, 2.610 length, 3-SR
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<b>6</b>	<b>160-1416</b>	<b>Valve spring</b>	1.063 ID, 1.477 OD, 2.357 free length, 0.207 wire dia, 1.370 solid height
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Intake

<b>6</b>	<b>160-1417</b>	<b>Valve spring</b>	1.068 ID, 1.482 OD, 2.580 free length, 0.207 wire dia, 1.370 solid height
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Exhaust

<b>24</b>	<b>121-1091</b>	<b>Valve lock</b>	for 3/8 stem valve; 0.3720 ID, 0.2980 length, 1 round [1824644C1]
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<b>12</b>	<b>161-1046</b>	<b>Rotocap</b>	for 3/8 valve stem (OEM 1824680C1)
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<b>12</b>	<b>1824683</b>	<b>Seal rotator</b>	
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<b>12</b>	<b>122-1320</b>	<b>Valve stem seal</b>	use with 3/8 stem diameter; positive, viton, top hat style; 0.610/0.620 nominal guide OD [1823925C1]
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### OIL / LUBE SYSTEM

<b>1</b>	<b>1833356C91</b>	<b>Oil pump</b>	
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<b>Navistar</b> Diesel Big Bore 470: 1,194,039 - 2,000,00	<b>DT466 BigBore / 7.6L</b> (Continued)	6 Cylinder Bore 4.5870 Stroke 4.680	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> <b>305.470.9306</b>
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<b>1</b>	<b>HP021X</b>	<b>Oil pump HP</b>	High pressure fuel, 5.3cc, reman [1825681C94, 1825681C95, 1842721C91, R98620021R]
esn 1194039 and above: 175HP - 215HP (Std torque)			
<b>1</b>	<b>HP020X</b>	<b>Oil pump HP</b>	High pressure fuel, 6.5cc, reman [1826458C92, 1830177C91, 1830177C92, 1842722C91, R98620020R]
exn 1194039 and above: 230HP - 250HP (High torque)			

**FUEL / INJECTOR**

<b>6</b>	<b>AP63811BI</b>	<b>Injector</b>	New, HEUI, code BI [1830741C92, 1830741C93]
<b>6</b>	<b>AP0006</b>	<b>Chamber gasket</b>	Stainless seal, package of 6; Must use with in conjunction with stainless steel injector sleeve [1830317C1]
<b>6</b>	<b>1823382C1</b>	<b>Injector sleeve</b>	

**COOLING SYSTEM**

<b>1</b>	<b>7313X</b>	<b>Water pump</b>	Reman; Cast: 1821935C1/C3; OEM 1817687C92
<b>1</b>	<b>421205</b>	<b>Oring water pump</b>	[1819099C1]
<b>1</b>	<b>481832</b>	<b>Thermostat</b>	Kit, includes Oring 421215 [1830256C93] [repl 1822575C92]
<b>1</b>	<b>421215</b>	<b>Oring thermostat</b>	[1820951C1]
<b>1</b>	<b>480890</b>	<b>Tensioner belt</b>	[1830033C1] [repl 1814719C1]

**TURBO / AIR**

<b>TURBO</b>	<b>TURBOCHARGER</b>	New or remanufactured available, call for pricing
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**BLOCK**

<b>1</b>	<b>431263</b>	<b>Set front cover</b>	Gasket set kit [1824984C92]
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<b>Navistar</b> Diesel PLN fuel system, Direct inject; 530G Prefix	<b>I530, 8.7L</b>	6 Cylinder Bore 4.5866 Stroke 5.350	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> <b>305.470.9306</b>
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### CYLINDER KIT

6	1818552	Piston pin	1.8250 diameter
12	1818702	Retainer piston pin	
6	400025	Cylinder liner	Includes liner & seal [1842553C91]
6	400003	Cylinder liner	[1841326C1] [repl 1830706C1, 1815648C1]
6	1822322	Cylinder liner oring kit	contains (1) 1817000, (1) 1817633
6	1817000	Cylinder liner oring	
6	1817633	Cylinder liner oring	contains (3) 675774 oring

### BEARINGS

6	1822321	Bearing main pair	Std, position 1, 2, 3, 4, 5, 6
	1822490	Bearing main pair	.010, position 1, 2, 3, 4, 5, 6
	1822491	Bearing main pair	.020, position 1, 2, 3, 4, 5, 6
	1822492	Bearing main pair	.030, position 1, 2, 3, 4, 5, 6
1	1822379	Bearing thrust pair	Std, position 7
	1822494	Bearing thrust pair	.010, position 7
	1822495	Bearing thrust pair	.020, position 7
	1822496	Bearing thrust pair	.030, position 7
6	1822389	Bearing rod pair	Std
6	1822486	Bearing rod pair	.010 u/s
6	1822487	Bearing rod pair	.020 u/s
6	1822488	Bearing rod pair	.030 u/s
6	1818598	Bushing con rod	
1	680117	Bearing cam set	[680117C1]

### GASKET & SEALS

1	431251	Set upper	[1822328C94]
1	1817562	Gasket cylinder head	
1	1817510	Gasket valve cover	
1	1822577	Gasket fuel manifold	
1	1826587	Gasket oil pan	
1	1816722	Gasket oil sump	
1	7690437	Seal crankshaft front	
1	1817867	Seal crankshaft rear	

### CAMSHAFT

12	1809570	Lifter	roller type [Discontinued]
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### VALVE TRAIN

CYLHEAD	NOTE	
1	HKNAV466PE	Cylinder head kit engine sn to 956463; 5/16 valve stem diameter
Following parts for esn to 956463		
6	1818580	Valve intake 1.970 head dia, 5.789 length, 0.3124 stem dia, 30 degree, 1 groove
6	1824838	Valve exhaust 1.600 head dia, 5.787 length, 0.3714 stem dia, 45 degree, 1 groove
12	140-8476	Valve guide 0.3146 ID, .5625 OD, 2.440 length, 1-P (use with 5/16 valve stem) [1820264C1, 1822862C1]
24	1810944	Valve lock for .3125 (5/16) valve stem diameter
12	161-1049	Rotocap for 5/16 valve stem, 1.505 OD, 0.305 ID, 0.594 height; includes oil shield (OEM 1820826C91)
12	1819380C1	Seal rotator
12	122-1300	Valve stem seal use with 5/16 stem diameter; positive, viton, top hat style; 0.565/0.575 nominal guide OD [1822245C1]
1	HKNAV466PL	Cylinder head kit engine sn from 956464; 3/8 valve stem diameter
Following parts for esn 956464 & up		
6	01943	Valve intake 1.970 head dia, 5.787 length, 0.3722 stem dia, 30 degree, 1 groove [1824642C2, 1824642C1]
6	01944S	Valve exhaust 1.600 head dia, 5.787 length, 0.3714 stem dia, 45 degree, 1 groove [1824842C1]
12	140-3006	Valve guide 0.3745 ID, .6265 OD, 2.395 length (use with 3/8 valve stem) [1824646C1]
24	121-1091	Valve lock for 3/8 stem valve; 0.3720 ID, 0.2980 length, 1 round [1824644C1]

<b>Navistar</b> Diesel PLN fuel system, Direct inject; 530G Prefix	<b>I530, 8.7L</b> (Continued)	6 Cylinder Bore 4.5866 Stroke 5.350	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> <b>305.470.9306</b>
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12	161-1046	Rotocap	for 3/8 valve stem (OEM 1824680C1)
12	1824683	Seal rotator	
12	122-1320	Valve stem seal	use with 3/8 stem diameter; positive, viton, top hat style; 0.610/0.620 nominal guide OD [1823925C1]
6	160-1416	Valve spring	1.063 ID, 1.477 OD, 2.357 free length, 0.207 wire dia, 1.370 solid height
Intake			
6	160-1417	Valve spring	1.068 ID, 1.482 OD, 2.580 free length, 0.207 wire dia, 1.370 solid height
Exhaust			
6	675043	Valve insert	Intake
6	675450	Valve insert	Exhaust
6	675442	Injector sleeve	Copper

### OIL / LUBE SYSTEM

1	431271	Set oil cooler mounting	Includes: (1)431270 (1)431208 (2)421228 (2)421227 (4)421226 (1)421224 (1)421241 (1)MSL-4134-006 [1823182C95]
1	431270	Gasket oil cooler	Oil filter head [1817849C3]
2	421228	Oring	Oil cooler [1807563C1]
2	421227	Oring	Oil cooler [1804414C1]
4	421226	Oring	Oil line [1821098C2]
1	421224	Oring	Pressure regulator valve [1820907C2]
1	421241	Seal ring	Cooler header [1830362C1] [repl 1818401C2]
1	421272	Seal ring	Coolant filter head [1820353C1]

### FUEL / INJECTOR

	INJECTOR	INJECTOR	New or remanufactured available, call for pricing
6	675477	Injector washer	Copper sealing washer
6	682810	Injector sleeve seal	Seal

### COOLING SYSTEM

1	7313X	Water pump	Reman; Cast: 1821935C1/C3; OEM 1817687C92
1	421205	Oring water pump	[1819099C1]
1	481832	Thermostat	Kit, includes Oring 421215 [1830256C93] [repl 1822575C92]
1	421215	Oring thermostat	[1820951C1]
1	480890	Tensioner belt	[1830033C1] [repl 1814719C1]

### TURBO / AIR

	TURBO	TURBOCHARGER	New or remanufactured available, call for pricing
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<b>Navistar</b> Diesel HEUI fuel system; 530H Prefix	<b>I530E, 8.7L</b>	6 Cylinder Bore 4.5866 Stroke 5.350	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> <b>305.470.9306</b>
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### CYLINDER KIT

6	400025	Cylinder liner	Includes liner & seal [1842553C91]
6	400003	Cylinder liner	[1841326C1] [repl 1830706C1, 1815648C1]
6	1822322	Cylinder liner oring kit	contains (1) 1817000, (1) 1817633
6	1817000	Cylinder liner oring	
6	1817633	Cylinder liner oring	contains (3) 675774 oring

### BEARINGS

	BRG530	NOTE:	Following main & rod bearing for esn 980820 to 1194038
6	1822321	Bearing main pair	Std, position 1, 2, 3, 4, 5, 6
	1822490	Bearing main pair	.010, position 1, 2, 3, 4, 5, 6
	1822491	Bearing main pair	.020, position 1, 2, 3, 4, 5, 6
	1822492	Bearing main pair	.030, position 1, 2, 3, 4, 5, 6
1	1822379	Bearing thrust pair	Std, position 7
	1822494	Bearing thrust pair	.010, position 7
	1822495	Bearing thrust pair	.020, position 7
	1822496	Bearing thrust pair	.030, position 7
6	1822389	Bearing rod pair	Std
6	1822486	Bearing rod pair	.010 u/s
6	1822487	Bearing rod pair	.020 u/s
6	1822488	Bearing rod pair	.030 u/s
	BRG530L	NOTE:	Following main & rod bearing for esn 1194039 to 2000000
	470150	Bearing main set	Std
6	470140	Bearing main pair	Std (#1-6) (6 Req'd) [1830725C91]
1	470145	Bearing main pair	Std (#7) (1 Req'd) [1830726C91]
6	470130	Bearing rod pair	Std [1836020C91] [repl 1830149C1]
6	1818598	Bushing con rod	
1	680117	Bearing cam set	[680117C1]

### GASKET & SEALS

1	1824970	Set cylinder head	Does not include valve stem seals [Order (12) 122-1320]
esn 933834 - 1194038			
1	1830720	Set cylinder head	
esn 1194039 - 2000000			
1	431273	Set lower	Does not include crank seals of pan gasket [1824985C99] [repl 1874865C91]
1	1817562	Gasket cylinder head	
esn 933834 - 1194038			
1	1830327	Gasket cylinder head	
esn 1194039 - 2000000			
1	1825602	Set valve cover	Includes: Valve cover gasket, oring
1	1822577	Gasket fuel manifold	
1	1826587	Gasket oil pan	
1	1816722	Gasket oil sump	
1	7690437	Seal crankshaft front	
1	1817867	Seal crankshaft rear	

### CAMSHAFT

12	1809570	Lifter	roller type [Discontinued]
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<b>Navistar</b> Diesel HEUI fuel system; 530H Prefix	<b>I530E, 8.7L</b> (Continued)	6 Cylinder Bore 4.5866 Stroke 5.350	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> <b>305.470.9306</b>
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### VALVE TRAIN

CYLHEAD	NOTE	For complete and bare cylinder heads - Refer to Cylinder Head Catalog or Call with casting
1 HKNAV466HE	Cylinder head kit	Intake valve with 1.786 head diameter
esn to 1194038		
1 HKNAV466HL	Cylinder head kit	Intake valve with 1.970 head diameter
esn 1194039 ->		
6 01945	Valve intake	1.786 head dia, 5.992 length, 0.3722 stem dia, 60 degree, 1 groove
esn to 1194038		
6 02131	Valve intake	1.970 head dia, 5.992 length, 0.3722 stem dia, 30 degree, 1G [1826471C2, 1826471C1, 1842913C1]
esn 1194039 ->		
6 1824840	Valve exhaust	1.786 head dia, 45 degree
12 140-8188	Valve guide	0.3745 ID, .6265 OD, 2.610 length, 3-SR
12 160-1416	Valve spring	1.063 ID, 1.477 OD, 2.357 free length, 0.207 wire dia, 1.370 solid height
Intake		
12 160-1417	Valve spring	1.068 ID, 1.482 OD, 2.580 free length, 0.207 wire dia, 1.370 solid height
Exhaust		
24 121-1091	Valve lock	for 3/8 stem valve; 0.3720 ID, 0.2980 length, 1 round [1824644C1]
12 161-1046	Rotocap	for 3/8 valve stem (OEM 1824680C1)
12 1824683	Seal rotator	
12 122-1320	Valve stem seal	use with 3/8 stem diameter; positive, viton, top hat style; 0.610/0.620 nominal guide OD [1823925C1]

### OIL / LUBE SYSTEM

1 1822390C92	Oil pump	
esn to 1194038		
1 1833357C92	Oil pump	
esn 1194039 and above		
1 HP021X	Oil pump HP	High pressure fuel, 5.3cc, reman [1825681C94, 1825681C95, 1842721C91, R98620021R]
esn 933834 to 1075288: All		
1 HP020X	Oil pump HP	High pressure fuel, 6.5cc, reman [1826458C92, 1830177C91, 1830177C92, 1842722C91, R98620020R]
esn 1075289 & up: All		
1 431271	Set oil cooler mounting	Includes: (1)431270 (1)431208 (2)421228 (2)421227 (4)421226 (1)421224 (1)421241 (1)MSL-4134-006 [1823182C95]
esn to 1194038: This set and following components		
1 431270	Gasket oil cooler	Oil filter head [1817849C3]
2 421228	Oring	Oil cooler [1807563C1]
2 421227	Oring	Oil cooler [1804414C1]
4 421226	Oring	Oil line [1821098C2]
1 421224	Oring	Pressure regulator valve [1820907C2]
1 421241	Seal ring	Cooler header [1830362C1] [repl 1818401C2]
1 421272	Seal ring	Coolant filter head [1820353C1]

### FUEL / INJECTOR

6 AP63808BD	Injector	New, HEUI, code BD [1824931C94]
530E: 250HP, 275HP, 300HP; esn -> 1084028		
6 AP63810BF	Injector	New, HEUI, code BF [1830146C92, 1830416C93, 1830416C94]
530E: 250HP to 320HP; esn 1084029 - 1134350		
6 AP63812BJ	Injector	New, HEUI, code BJ [1830156C91]
530E: 250HP to 320HP; esn 1134351 - 1194038		
6 AP63813BN	Injector	New, HEUI, code BN [1830692C91]
530E: esn 1194039 ->		
6 1830742C92	Injector seal kit	External, for 1 injector, contains: Blue upper, Pink center, Orange lower, Backup steel, Gasket aluminum

### COOLING SYSTEM

1 7313X	Water pump	Reman; Cast: 1821935C1/C3; OEM 1817687C92
1 421205	Oring water pump	[1819099C1]

<b>Navistar I530E, 8.7L</b> Diesel (Continued) HEUI fuel system; 530H Prefix	6 Cylinder Bore 4.5866 Stroke 5.350	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> <b>305.470.9306</b>
<b>1 481832 Thermostat</b>	Kit, includes Oring 421215 [1830256C93] [repl 1822575C92]	
<b>1 421215 Oring thermostat</b>	[1820951C1]	
<b>1 480890 Tensioner belt</b>	[1830033C1] [repl 1814719C1]	
<b>TURBO / AIR</b>		
<b>TURBO</b>	<b>TURBOCHARGER</b>	New or remanufactured available, call for pricing

<b>Navistar</b> Diesel 1980 - 1988	<b>9.0L / 551</b>	8 Cylinder Bore 4.510 Stroke 4.313	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> <b>305.470.9306</b>
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**ENGINE KITS**

1	IFK-9.0-OH	Overhaul kit	
1	IFK-9.0	InFrame kit	
1	RR-9.0	ReRing kit	

**CYLINDER KIT**

8	1700236-WR	Piston kit	Std [1700203 piston, 427231 pin, 160094 retainers, 434466 ring set]
8	1700237-WR	Piston kit	.010 [1700233 piston, 427231 pin, 160094 retainers, 434467 ring set]
8	1700238-WR	Piston kit	.020 [1700234 piston, 427231 pin, 160094 retainers, 434468 ring set]
8	1700239-WR	Piston kit	.030 [1700235 piston, 427231 pin, 160094 retainers, 434469 ring set]
8	1700236	Piston	Std [1700203 piston, 427231 pin, 160094 retainers]
8	1700237	Piston	.010 [1700233 piston, 427231 pin, 160094 retainers]
8	1700238	Piston	.020 [1700234 piston, 427231 pin, 160094 retainers]
8	1700239	Piston	.030 [1700235 piston, 427231 pin, 160094 retainers]
8	1700203	Piston body	Std
8	1700233	Piston body	.010
8	1700234	Piston body	.020
8	1700235	Piston body	.030
8	427231	Piston pin	
16	160094	Retainer piston pin	
8	434466	Ring set	Std: (1) 1/8, (1) 3/32, (1) 3/16 [1 cyl set]
8	434467	Ring set	.010 [1 cyl set]
8	434468	Ring set	.020 [1 cyl set]
8	434469	Ring set	.030 [1 cyl set]

**BEARINGS**

1	5032M	Bearing main set	Std; 3.1230/3.1240 shaft, 3.3160/3.3170 hsg bore, 1.010 and 1.354 length
1	5032M 10	Bearing main set	.010
1	5032M 20	Bearing main set	.020
1	5032M 30	Bearing main set	.030
4	480842	Bearing main pair	Std
4	480843	Bearing main pair	.010
4	480844	Bearing main pair	.020
4	480845	Bearing main pair	.030
1	448064	Bearing thrust pair	Std, flanged
1	480847	Bearing thrust pair	.010, flanged
1	480848	Bearing thrust pair	.020, flanged
1	480849	Bearing thrust pair	.030, flanged
8	3595CPA	Bearing rod pair	Std; 2.7530/2.7540 shaft, 2.9455/2.9460 hsg bore, 0.852 length
8	3595CPA 10	Bearing rod pair	.010
8	3595CPA 20	Bearing rod pair	.020
8	3595CPA 30	Bearing rod pair	.030
8	CB1266P40	Bearing rod pair	.040
1	1479M	Bearing cam set	Set of 4 [2197DR, 2198DR, 3596DR, 3597DR]

<b>Navistar</b> Diesel 1980 - 1988	<b>9.0L / 551</b> (Continued)	8 Cylinder Bore 4.510 Stroke 4.313	<a href="http://www.DetroitDieselMiami.com">www.DetroitDieselMiami.com</a> <b>305.470.9306</b>
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### GASKET & SEALS

1	PGN9.0L	Set overhaul	
1	HS8873PT	Set cylinder head	
1	CS8873	Set conversion	
1	OS34203C	Gasket oil pan	
2	9543PT	Gasket cylinder head	
1	VS50226A	Gasket valve cover	Upper valve cover set
1	ES72100	Gasket valve cover	Lower valve cover set, cylinder head extension
1	PS11808	Gasket push rod cover	
1	MS91589	Gasket manifold set	Intake
1	MS91593	Gasket manifold exhaust	
1	1808751	Seal crankshaft front	Kit: 1804009 seal and sleeve
1	1804009	Seal crankshaft front	2.500 shaft, 3.505 OD (National 3894V)
1	BS40395	Seal crankshaft rear	Kit: Rubber one-piece seal with wear sleeve
1	1810508	Sleeve crankshaft rear	Redi-Sleeve

### CAMSHAFT

1	489172	Camshaft	
16	259070C92	Lifter	
16	280623	Push rod	

### VALVE TRAIN

	CYLHEAD	NOTE	For complete and bare cylinder heads - Refer to Cylinder Head Catalog or Call with casting
8	V-2361	Valve intake	1.924 head dia, 6.024 length, 0.3728 stem, 45 deg, 1G with seal grv, chrome plated stem
8	V-2360	Valve exhaust	1.727 head dia, 6.044 length, 0.3723 stem, 45 deg, 1G with seal grv, chrome plated stem
16	VG-756	Valve guide	0.3753 ID, 0.6888 OD, 2.960 length, plain
16	VS-693	Valve spring	1.400 OD, 6.5 coils, 0.20 wire dia, 1.260 solid height; includes damper
32	41339D	Valve lock	
8	RC-126SA	Rotator	Exhaust
16	MV-1233	Valve seal	Oring type; 0.2969 ID, 0.420 OD, 0.08 Thick
8	1700591	Valve insert	Intake, .002
	1700608	Valve insert	Intake, .030
8	1700609	Valve insert	Exhaust, .002
	1700610	Valve insert	Exhaust, .015
	1700611	Valve insert	Exhaust, .030

### OIL / LUBE SYSTEM

1	448427	Gasket oil cooler	
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### FUEL / INJECTOR

	INJECTOR	INJECTOR	New or remanufactured available, call for pricing
8	489120	Injector seal	
1	489256	Oring fuel pump	Injector to cylinder head

### COOLING SYSTEM

1	7308X	Water pump	Reman
1	1700594	Water pump	New
1	446437	Thermostat	180F degree
1	489193	Gasket thermostat	

### BLOCK

8	2268068	Cylinder liner	Salvage slv; 4.5000 bore, 120.00mm length, 0.937 thick wall, 4.4700 ID semi finish, 4.6910 OD finish
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