

1.7000B ACCESSORY DRIVE

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	3 8	4 7	5 7	6 0	6 1	7 6	7 7	8 2	9 2	9 5	1 1 8	1 3 1
1.7645 - RETAINER ASSY., ACCESSORY DRIVE (CONT'D)														
8A	5131402	RETAINER ASSY.				1		1	1		1	1	1	2
8A	179857	BOLT, 7/16"-14X7/8"(12.9001)		1		1		1			1			
8A	179858	BOLT, 7/16"-14X1"(12.9001)							1		1			
8A	122408	BOLT, 1/2"-13X1"(12.9001)	4	4		4		4						
8A	179882	BOLT, 1/2"-13X1 1/8"(12.9001)							1		4			
8A	5150568	WASHER, 7/16" COPPER(12.9190)	1	1		1		1						
8A	103323	LOCKWASHER, 1/2"(12.9200)	4	4		4		4						
1.7650 - LOCKRING, ACCESSORY DRIVE														
8A	5155783	LOCKRING		1										
8A	9415285	LOCKRING (2.7470)				1		1	1		1	1	1	1
1.7655 - BEARING, ACCESSORY DRIVE														
8A	954469	+ BEARING (N.D.4605L)		1										
8A	907191	BEARING (5206WX1C) + OBSOLETE.				1		1	1		1	1	1	1
1.7660 - SEAL, ACCESSORY DRIVE OIL														
8A	5131329	SEAL		1		1		1	1		1	1	1	1
	5131131	SPACER (1.3665)				1		1	1		1	1	1	2

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PART		TYPES														
FIG	NUMBER	NAME AND DESCRIPTION	1 3 8	1 4 0	1 4 7	1 7 0	1 7 1	1 7 3	1 7 4	1 7 5	1 7 6	1 7 8	1 7 9	1 9 0	1 9 1	1 9 2
1.7605 - PULLEY, ACCESSORY DRIVE																
		• FOR TYPE 148 USE TYPE 401.■														
		• FOR TYPE 180 USE TYPE 402.■														
3A	5168696	PULLEY (5 1/2" DIA., DOUBLE GROOVE)		1				1								
3B	5164291	PULLEY (5 1/2" DIA., SINGLE GROOVE)									1					
	5133838	PULLEY (5 1/2" DIA., DOUBLE GROOVE) (12.4015)								1						
3B	124548	KEY, 5/32"X3/4" WOODRUFF (12.9350)									1					
3A	124549	KEY, 3/16"X3/4" WOODRUFF (12.9350)		1				1		1						
3B	193221	BOLT, 7/16"-14X1 1/4" (12.9001)									1					
3B	5132987	WASHER, 7/16"									1					
3B	103322	LOCKWASHER, 7/16" (12.9200)									1					
3A	272906	NUT, 3/4"-16 LOCK (12.9140)		1				1		1						
1.7610 - HUB, DRIVE PULLEY																
3B	5164286	HUB									1					
3B	5176474	BOLT, 3/8"-24 X 1.12" (1.7630)									4					
1.7615 - RETAINER, DRIVE PULLEY HUB OIL SEAL																
		A RETAINER ASSY. INCLUDES OIL SEAL.														
3B	5102565	RETAINER ASSY.									1					
1.7620 - SEAL, DRIVE PULLEY HUB OIL																
B	5102456	SEAL									1					
1.7622 - ADAPTOR, ACCESSORY DRIVE																
	5122386	ADAPTOR (HYDRAULIC PUMP)(12.5020)			1		1									
	5131332	ADAPTOR (HYDRAULIC PUMP)(12.5020)											1			
	5131308	ADAPTOR (HYDRAULIC PUMP)(12.5020)										1		1		
	5135907	ADAPTOR (HYDRAULIC PUMP)													1	
	5139376	ADAPTOR (HYDRAULIC PUMP) (12.5020)				1										
	5130822	WASHER, RETAINING (5.4140)									1					
	103196	STUD, 3/8"X1 9/16" (12.9117)		2												
	103197	STUD, 3/8"X1 13/16" (12.9117)					2									
	179839	BOLT, 3/8"-16X1" (12.9001)									2			2		
	186679	BOLT, 3/8"-16X1 1/4" (12.9001)											2			
	179858	BOLT, 7/16"-14X1" (12.9001)			1	1	1				1	1	1	1		
	179882	BOLT, 1/2"-13X1 1/8" (12.9001)		4	4	4					4	4	4	4		
	103321	LOCKWASHER, 3/8" (12.9200)		2		2	2				2	2	2	2		
	117049	NUT, 3/8"-24 (12.9120)		2		2	2									
1.7623 - GASKET, ACCESSORY DRIVE ADAPTOR																
	5104506	GASKET, ADAPTOR TO FLYWHEEL HOUSING (12.5021)											1			
	5188755	GASKET, HYDRAULIC PUMP TO ADAPTOR (12.5005)			1	1	1						1			

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PART			TYPES														
FIG	NUMBER	NAME AND DESCRIPTION	1 3 8	1 4 0	1 4 7	1 7 0	1 7 1	1 7 3	1 7 4	1 7 5	1 7 6	1 7 8	1 7 9	1 9 0	1 9 1	1 9 2	
		1.7623 - GASKET, ACCESSORY DRIVE ADAPTOR (CONT'D)															
	5131396	GASKET, HYDRAULIC PUMP TO ADAPTOR (12.5005)										1		1			
	5168852	GASKET, HYDRAULIC PUMP TO ADAPTOR (12.5005)													1		
		1.7627 - HOUSING, ACCESSORY DRIVE															
	5121050	PLATE (2.2235)							1								
	5120274	NUT, PLUG (5/16"-18 SERRATED) (5.3015)							3								
		1.7630 - PLATE ASSY., ACCESSORY DRIVE															
8A	5170450	PLATE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	5140814	SPACER (12.5015)						1	1	1	1			1		1	
	5127266	ADAPTOR (2.2220)							1	1							
	9409035	BOLT, 3/8"-24X1" LOCK (12.9001)							2								
8A	5145092	BOLT, 3/8"-24 X 1.20" LOCK (12.5015)	4	4		4	4			4	4	4	4	4	3	4	
8A	5145091	BOLT, 3/8"-24X1.38" (12.5015)			3			4									
		1.7633 - RETAINER, CAM OR BALANCE GEAR															
	5122922	RETAINER (1.7207)								3							
	5108836	STUD, 3/8"-24X1 3/4" (12.9117)			1										1		
	9413533	NUT, 3/8"-24 HEX. THIN (12.9120)			1										1		
	5145431	NUT, 3/8"-24 JAM CAD. (12.4037)			1										1		
		1.7635 - COUPLING, ACCESSORY DRIVE															
	5143616	COUPLING (12.5010)			1	1	1					1	1	1	1		
	5144866	COUPLING, HUB (12.4040)														1	
	5141773	COUPLING (12.4050)														1	
	5102257	FORK (2.2220)							1								
	103375	PIN, 3/32"X1 1/4" (12.4001)					1									1	
	180176	BOLT, 1/2"-13X1 3/8"(12.9001)														4	
		1.7640 - SHAFT, ACCESSORY DRIVE															
8A	5131130	SHAFT		1				1		1							
		1.7645 - RETAINER ASSY., ACCESSORY DRIVE															
		A RETAINER ASSY. INCLUDES ITEMS IN 1.7650, 1.7655 AND SEAL IN 1.7660.															
8A	5131402	RETAINER ASSY.	1	1				1		1							

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			TYPES													
FIG	PART NUMBER	NAME AND DESCRIPTION	1 3 8	1 4 0	1 4 7	1 7 0	1 7 1	1 7 3	1 7 4	1 7 5	1 7 6	1 7 8	1 7 9	1 9 0	1 9 1	1 9 2
	1.7650 - LOCKRING, ACCESSORY DRIVE															
IA	9415285	LOCKRING (2.7470)		1				1		1						
	1.7655 - BEARING, ACCESSORY DRIVE															
IA	907191	BEARING (5206WX1C)		1				1		1						
	1.7660 - SEAL, ACCESSORY DRIVE OIL															
IA	5131329	SEAL		1				1		1						
	5131131	SPACER (1.3665)		1				1		1						
	1.7670 - GEAR, ACCESSORY DRIVE															
	5138079	GEAR, HYDRAULIC PUMP DRIVE (12.5030)			1											
	5131401	GEAR, HYDRAULIC PUMP DRIVE (12.5030)											1			
	5131313	GEAR, HYDRAULIC PUMP DRIVE (12.5030)										1		1		
	5168688	GEAR, HYDRAULIC PUMP DRIVE (12.5030)										1		1		
	5139378	GEAR, HYDRAULIC PUMP DRIVE (12.5030)													1	
	5127394	GEAR, HYDRAULIC PUMP DRIVE (12.5030)				1										
	455921	PIN, 1/8"X1 1/2" (3.3063)			1	1		1								
	5188756	NUT, 1/2"-28 SLOTTED (12.5030)			1	1		1								
	1.7700 - COVER ASSY., DRIVE															
	5152716	COVER, FUEL PUMP HOLE (3.4223)							1							
	5150193	GASKET (2.2007)							1							
	5118219	BOLT, 5/16"-18 X 7/8" W/SEAL WASHER (2.2001)							3							

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PART
FIG . . . NUMBER NAME AND DESCRIPTION

TYPES

		1 9 3	1 9 8	1 9 9	2 0 0	2 0 1	2 0 2	2 0 3	2 0 4	2 0 5	2 0 6	2 0 7	2 0 8	2 0 9	2 1 0
1.7622 - ADAPTOR, ACCESSORY DRIVE															
5122386	* ADAPTOR (HYDRAULIC PUMP)(12.5020)			AR			AR					AR		AR	AR
5131332	ADAPTOR (HYDRAULIC PUMP)(12.5020)				1				1						
5120828	ADAPTOR (HYDRAULIC PUMP)(12.5020)					1									
5123814	ADAPTOR (HYDRAULIC PUMP)(12.5020)							1					1		
5137472	ADAPTOR (HYDRAULIC PUMP)(12.5020)									1					
5122386	ADAPTOR (HYDRAULIC PUMP)(12.5020)		1								1				
103196	STUD, 3/8"X1 9/16"(12.9117)			4	2		2		2		2	2		2	2
179839	BOLT, 3/8"-16X1"(12.9001)		2			6		6		2			12		
179858	BOLT, 7/16"-14X1"(12.9001)		1	2	1	1	1			1	1	1		1	
179882	BOLT, 1/2"-13X1 1/8"(12.9001)		4	8	4	4	4		4	4	4	4		4	
103321	LOCKWASHER, 3/8"(12.9200)		2	4	2	6	2	6	2	2	2	2	12		2
117049	NUT, 3/8"-24 (12.9120)			4	2		2		2		2	2		2	2
	* USE "1" ON A THREE AND "2" ON A FOUR.														
1.7623 - GASKET, ACCESSORY DRIVE ADAPTOR															
5104506	GASKET, ADAPTOR TO FLYWHEEL HOUSING (1.5040)			2								1			
5188755	* GASKET, HYDRAULIC PUMP TO ADAPTOR (12.5005)		AR	AR	AR		AR		AR	AR	AR	AR		AR	AR
5111828	GASKET, HYDRAULIC PUMP TO ADAPTOR (12.5005)					1									
5168852	GASKET, HYDRAULIC PUMP TO ADAPTOR (12.5005)							1					2		
	* USE "1" ON A THREE AND "2" ON A FOUR.														
1.7630 - PLATE ASSY., ACCESSORY DRIVE															
8A 5170450	PLATE	1	1	2	1	1	1	1	1	1	1	1	2	1	1
5140814	SPACER (12.5015)	1				1	1	1	1	1	1	1	2	1	1
8A 5145091	@ BOLT, 3/8"-24X1.38"(12.5015)	4	3	6	3	4	4	4	4	4	3	4	8	AR	4
	@ USE 4 ON A THREE AND 3 ON A FOUR.														
1.7633 - RETAINER, CAM OR BALANCE GEAR															
5108836	STUD, 3/8"-24 X 1 3/4" (12.5015)		1	2	1						1				
9413533	NUT, 3/8"-24 THIN (12.9120)		1	2	1						1				
5145431	NUT, 3/8"-24 JAM CAD. (12.4037)		1	2	1						1				
1.7635 - COUPLING, ACCESSORY DRIVE															
5144866	COUPLING, HUB (12.4040)	1													
5141773	COUPLING (12.4050)	1													
5143616	COUPLING (12.5010)		1	2	1	1	1	1	1	1	1	1	2	1	1
103375	PIN, 3/32" X 1 1/4" (12.9250)	1	1	2	1		1		1		1			1	
180176	BOLT, 1/2"-13X1 3/8" (12.9001)	4													

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PART		TYPES														
FIG	NUMBER	NAME AND DESCRIPTION														
		1 9 3	1 9 8	1 9 9	2 0 0	2 0 1	2 0 2	2 0 3	2 0 4	2 0 5	2 0 6	2 0 7	2 0 8	2 0 9	2 1 0	
	1.7670 - GEAR, ACCESSORY DRIVE															
	5188848 GEAR, HYDRAULIC PUMP DRIVE (12.5030)			2			1				2					
	5168688 GEAR, HYDRAULIC PUMP DRIVE (12.5030)				1			1	1				2			
	5111829 GEAR, HYDRAULIC PUMP DRIVE (12.5030)					1										
	5138079 GEAR, HYDRAULIC PUMP DRIVE (12.5030)									1						
	5137403 GEAR, HYDRAULIC PUMP DRIVE (12.5030)											1				
	5127394 GEAR, HYDRAULIC PUMP DRIVE (12.5030)		1											1		
	5140971 GEAR, HYDRAULIC PUMP DRIVE (12.5030)													1		
	455921 PIN, 1/8"X1 1/2"(3.3063)									1		1			1	
	122761 NUT, 1/2"-20 (12.9130)			2	1		1				1					
	5188756 NUT, 1/2"-28 SLOTTED (12.5030)	1	2	1		1			1		1			1		

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			TYPES											
PART	FIG	NUMBER	NAME AND DESCRIPTION	211	212	213	214	215	216	217	218	219	220	221
1.7622 - ADAPTOR, ACCESSORY DRIVE														
5120828			ADAPTOR (HYDRAULIC PUMP)(12.5020)							1				
5123814			ADAPTOR (HYDRAULIC PUMP)(12.5020)			1								
5137472			ADAPTOR (HYDRAULIC PUMP)(12.5020)									1		
5122386			ADAPTOR (HYDRAULIC PUMP)(12.5020)	2			1		1				1	
5137222			ADAPTOR (HYDRAULIC PUMP)(12.5020)		1									
5131308			ADAPTOR (HYDRAULIC PUMP)(12.5020)					1						1
103196			STUD, 3/8"-16-24 X 1 9/16" (12.9117)	4			2		2				2	
5162793			STUD, 1/2"X1.76"(6.2115)		2									
179839			BOLT, 3/8"-16X1"(12.9001)			6				6				2
179858			BOLT, 7/16"-14X1"(12.9001)	2			1	1	1			1	1	
179882			BOLT, 1/2"-13X1 1/8"(12.9001)	8			4	4	4	4		4	4	
103321	*		LOCKWASHER, 3/8" (12.9200)	4		6	2	2	2	6			2	6
103323			LOCKWASHER, 1/2" (12.9200)		2									
117049			NUT, 3/8"-24 (12.9120)	4			2		2				2	
103028			NUT, 1/2"-20 (12.9120)		2									
* USE "6" FOR A SIX AND "2" FOR AN EIGHT.														
1.7623 - GASKET, ACCESSORY DRIVE ADAPTOR														
5104506			GASKET, ADAPTOR TO FLYWHEEL HOUSING (1.5040)		1				1				1	
5188755			GASKET, HYDRAULIC PUMP TO ADAPTOR (12.5005)	2			1		1			1	1	
5111828			GASKET, HYDRAULIC PUMP TO ADAPTOR (12.5005)							1				
5168852			GASKET, HYDRAULIC PUMP TO ADAPTOR (12.5005)			1								
5137221			GASKET, HYDRAULIC PUMP TO ADAPTOR (12.5005)		1									
5131396			GASKET, HYDRAULIC PUMP TO ADAPTOR (12.5005)					1						1
1.7630 - PLATE ASSY., ACCESSORY DRIVE														
8A	5170450		PLATE	2	1	1	1	1	1	1	1	1	1	1
	5140814		SPACER (12.5015)	2	1									
8A	5145091		BOLT, 3/8"-24X1.38"(12.5015)	8	4		3	3	3	3	3	3		
8A	5145092		BOLT, 3/8"-24X1.20"(12.5015)			4							4	4
1.7633 - RETAINER, CAM OR BALANCE GEAR														
5108836			STUD, 3/8"-24 X 1 3/4" (12.5015)				1	1	1	1	1	1		
9413533			NUT, 3/8"-24 HEX. THIN (12.9120)				1	1	1	1	1	1		
5145431			NUT, 3/8"-24 JAM CAD. (12.4037)				1	1	1	1	1	1		

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FIG	PART NUMBER	NAME AND DESCRIPTION	TYPES										
			2 1 1	2 1 2	2 1 3	2 1 4	2 1 5	2 1 6	2 1 7	2 1 8	2 1 9	2 2 0	2 2 1
		1.7635 - COUPLING, ACCESSORY DRIVE											
	5143616	COUPLING (12.5010)	2	1	1	1	1	1	1	1	1	1	1
	103375	PIN, 3/32"X1 1/4"(12.4001)	2					1				1	
		1.7670 - GEAR, ACCESSORY DRIVE											
	5111829	GEAR, HYDRAULIC PUMP DRIVE (12.5030)							1				
	5138079	GEAR, HYDRAULIC PUMP DRIVE (12.5030)									1		
	5188848	GEAR, HYDRAULIC PUMP DRIVE (12.5030)	2										
	5168688	GEAR, HYDRAULIC PUMP DRIVE (12.5030)			1								
	5140971	GEAR, HYDRAULIC PUMP DRIVE (12.5030)		1									
	5138709	GEAR, HYDRAULIC PUMP DRIVE (12.5030)				1							
	5131313	GEAR, HYDRAULIC PUMP DRIVE (12.5030)					1	1					1
	455921	PIN, 1/8"X1 1/2"(3.3063)		1		1					1		
	122761	NUT, 1/2"-20 (12.9130)	2									1	
	5188756	NUT, 1/2"-28 SLOTTED (12.5030)	2					1				1	

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PART		TYPES													
FIG	NUMBER	NAME AND DESCRIPTION	2 2 4	2 2 5	2 2 6	2 2 7	2 2 8	2 2 9	2 3 7	2 4 6	2 4 7	2 5 1	2 5 2	2 5 6	2 5 7
1.7605 - PULLEY, ACCESSORY DRIVE															
8921942	PULLEY (4.74" POLY-VEE) (7.1505)	1													
103904	KEY, 3/32"X1/2" WOODRUFF (12.9350)	1													
8927580	BOLT, 3/8"-16X1.015" (12.9001)	1													
5150230	WASHER, 3/8" (12.9190)	1													
103321	LOCKWASHER, 3/8"(12.9200)	1													
1.7609 - BRACKET, ACCESSORY MOUNTING															
216283	BOLT, 7/16"-10X1 3/4"(12.9001)	1													
181675	BOLT, 7/16"-20X2 1/2" CAD. (12.9001)	1													
103322	LOCKWASHER, 7/16"(12.9200)	2													
456939	NUT, 7/16"-20 (12.9120)	2													
1.7612 - PULLEY, ACCESSORY DRIVEN															
5143095	PULLEY (1.90" DIA., POLY-VEE) (7.1500)	1													
5131726	PULLEY (6 1/4" DIA., 2 GROOVES) (1.7605)		1												
5168696	PULLEY (5.50" DIA., 2 GROOVES) (1.7605)			1											
124549	KEY, 3/16"X3/4" WOODRUFF (12.7350)		1	1	1										
272906	NUT, 3/4"-16 LOCK (12.9140)		1	1	1										
1.7622 - ADAPTOR, ACCESSORY DRIVE															
5127266	ADAPTOR (HYDRAULIC PUMP)(12.5020)							1							
5122386	ADAPTOR (HYDRAULIC PUMP)(12.5020)								1						
5137222	ADAPTOR (HYDRAULIC PUMP)(12.5020)									1			1		
5137472	ADAPTOR (HYDRAULIC PUMP)(12.5020)											2			
5131332	ADAPTOR (HYDRAULIC PUMP)(12.5020)													1	
5139376	ADAPTOR (HYDRAULIC PUMP)(12.5020)														1
5104722	ADAPTOR (12.4020)							1							
8927270	STUD, 3/8"X1 9/16"(12.9117)								2						
186622	BOLT, 3/8"-14X1 1/4"(12.9001)													2	2
179839	BOLT, 3/8"-16X1"(12.9001)														
9409035	BOLT, 3/8"-24X1" LOCK (12.9001)							2							
179858	BOLT, 7/16"-14X1"(12.9001)		1							1	1	1	1	1	1
179882	BOLT, 1/2"-13X1 1/8"(12.9001)		4							4	4	8	4	4	4
138291	BOLT, 1/2"-13 X 1 1/4" (12.9027)								4						
103321	LOCKWASHER, 3/8"(12.9200)									1		4		2	2
117049	NUT, 3/8"-24 (12.9120)									2					
1.7623 - GASKET, ACCESSORY DRIVE ADAPTOR															
8922443	SEALANT, RTV (3.0 FL. OZ.) (12.8255)									AR					
8922442	SEALANT, RTV (10.3 FL. OZ.) (12.8255)									AR					
5137221	GASKET, HYDRAULIC PUMP TO ADAPTOR (12.5005)										1		1		
5188755	GASKET, HYDRAULIC PUMP TO ADAPTOR (12.5005)									1		2		1	1

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PART			TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	2 2 4	2 2 5	2 2 6	2 2 7	2 2 8	2 2 9	2 3 7	2 4 6	2 4 7	2 5 1	2 5 2	2 5 6	2 5 7
1.7625 - BELT, ACCESSORY DRIVE															
	5143319	BELT, POLY-VEE 36.00" L. (7.1575)	1												
1.7630 - PLATE ASSY., ACCESSORY DRIVE															
A	5170450	PLATE		1	1	1	2	1	1	1	1	2		1	1
A	5140814	SPACER (12.5015)			1			1		1		2			
A	5145092	BOLT, 3/8"-24X1.20"(12.5015)				4	8		4						4
	5145091	BOLT, 3/8"-24X1.38"(12.5015)		4	4					4	4	2	3	3	
1.7633 - RETAINER, CAM OR BALANCE GEAR															
	5108836	STUD, 3/8"-24 X 1 3/4" (12.5015)									1		1	1	
	5145431	NUT, 3/8"-24 JAM CAD. (12.4037)									1		1	1	
	9413533	NUT, 3/8"-24 HEX. THIN (12.9120)									1		1	1	
1.7635 - COUPLING, ACCESSORY DRIVE															
	5143616	COUPLING (12.5010)								1	1	2	1	1	1
	2394275	COUPLING (12.4050)							1						
	5144866	COUPLING, HUB (12.4050)							1						
	5102257	FORK (2.2220)						1							
1.7640 - SHAFT, ACCESSORY DRIVE															
A	5117920	SHAFT	1												
A	5131130	SHAFT		1	1	1									
	181596	BOLT, 5/16"-24X7/8" CAD. (12.9001)	3												
	103320	LOCKWASHER, 5/16"(12.9200)	3												
1.7645 - RETAINER ASSY., ACCESSORY DRIVE															
A RETAINER ASSY. INCLUDES ITEMS IN 1.7650, 1.7655 AND SEAL IN 1.7660.															
A	5131402	RETAINER ASSY.		1	1	1									
1.7650 - LOCKRING, ACCESSORY DRIVE															
A	9415285	LOCK RING (2.7470)		1	1	1									

1.7000B ACCESSORY DRIVE

PART			TYPES												
..FIG ..	NUMBER	NAME AND DESCRIPTION	2 2 4	2 2 5	2 2 6	2 2 7	2 2 8	2 2 9	2 3 7	2 4 6	2 4 7	2 5 1	2 5 2	2 5 6	2 5 7
1.7655 - BEARING, ACCESSORY DRIVE															
8A	907191	BEARING (5206WX1C)		1	1	1									
1.7660 - SEAL, ACCESSORY DRIVE OIL															
8A	5131329	SEAL		1	1	1									
1.7665 - SPACER, ACCESSORY DRIVE OIL SEAL															
	5131131	SEAL		1	1	1									
1.7670 - GEAR, ACCESSORY DRIVE															
	5131401	GEAR, HYDRAULIC PUMP DRIVE (12.5030)												1	
	5138709	GEAR, HYDRAULIC PUMP DRIVE (12.5030)								1		2			1
	8925563	GEAR, HYDRAULIC PUMP DRIVE (12.5030)									1				
	5140971	GEAR, HYDRAULIC PUMP DRIVE (12.5030)											1		
	455921	PIN, 1/8"X1 1/2"(3.3063)								1	1	2	1	1	1
1.7700 - COVER ASSY., DRIVE															
	5152716	COVER, FUEL PUMP HOLE (3.4223)						1							
	5150193	GASKET (2.2007)						1							
	5118219	BOLT, 5/16"-18X7/8" W/SEAL WASHER (2.2001)						3							

1.7000B ACCESSORY DRIVE

			TYPES													
PART	FIG	NUMBER	NAME AND DESCRIPTION	262	266	268	269	270	274	282	285	303	305	306	309	313
1.7604 - GASKET, ACCESSORY DRIVE																
• FOR TYPE 299 USE TYPE 403.■																
5104506			GASKET (1.5040)	1	1		1	1								
1.7622 - ADAPTOR, ACCESSORY DRIVE																
5122386			ADAPTOR (HYDRAULIC PUMP)(12.5020)			1	1	1			1			1		1
5139376			ADAPTOR (HYDRAULIC PUMP)(12.5020)	1	1							1				
5131332			ADAPTOR (HYDRAULIC PUMP) (12.5020)						1	1			1			
5137472			ADAPTOR (HYDRAULIC PUMP) (12.5020)												1	
103196			STUD, 3/8"-16-24X1 9/16" (12.9117)								2					
186622			BOLT, 3/8"-14X1 1/4" (12.9001)	2					2							
179858			BOLT, 7/16"-14X1" (12.9001)	1	1	1	1	1	1	1	1	1	1	1	1	1
179882			BOLT, 1/2"-13X1 1/8" (12.9001)	4	4	4	4	4	4	4	4	4	4	4	4	4
103321			LOCKWASHER, 3/8"(12.9200)	AR	AR				AR		2					
117049			NUT, 3/8"-24 (12.9120)								2					
1.7623 - GASKET, ACCESSORY DRIVE ADAPTOR																
5188755			GASKET, HYDRAULIC PUMP TO ADAPTOR (12.5005)	1	1	1	1	1	1	1	1		1	1	1	
5137221			GASKET, HYDRAULIC PUMP TO ADAPTOR (12.5005)									1				
5104506			GASKET, ADAPTOR TO FLYWHEEL HOUSING (1.5040)	1					1							
1.7630 - PLATE ASSY., ACCESSORY DRIVE																
A	5170450		PLATE	1	1	1	1	1	1	1	1	1	1	1	1	1
A	5140814		SPACER (12.5015)				1									1
A	5145092		BOLT, 3/8"-24X1.20"(12.5015)		7	4				4	4					
A	5145091		BOLT, 3/8"-24X1.38" (12.5015)				4	3	4			3	3	3	3	4
1.7633 - RETAINER, CAM OR BALANCE GEAR																
5108836			STUD, 3/8"-24X1 3/4"(12.9117)	1				1				1	1	1	1	
5145431			NUT, 3/8"-24 JAM CAD. (12.4037)	1				1				1	1	1	1	
9413533			NUT, 3/8"-24 HEX. THIN (12.9120)	1				1				1	1	1	1	
1.7635 - COUPLING, ACCESSORY DRIVE																
5143616			COUPLING (12.5010)	1	1	1	1	1	1	1	1	1	1	1	1	1
5138709			HUB (12.5030)	1												
5137473			HUB (12.5030)	1												
1.7670 - GEAR, ACCESSORY DRIVE																
5137392			GEAR, HYDRAULIC PUMP DRIVE(12.5030)			1	1	1								
5131401			GEAR, HYDRAULIC PUMP DRIVE (12.5030)						1							
5139378			GEAR, HYDRAULIC PUMP DRIVE (12.5030)							1		1	1	1		1
5168688			GEAR, HYDRAULIC PUMP DRIVE (12.5030)												1	

DETROIT DIESEL

53 MPC ENGINES

1.7000B ACCESSORY DRIVE

PART		TYPES												
..FIG ..	NUMBER	NAME AND DESCRIPTION												
		2 6 2	2 6 6	2 6 8	2 6 9	2 7 0	2 7 4	2 8 2	2 8 5	3 0 3	3 0 5	3 0 6	3 0 9	3 1 3
	1.7670 - GEAR, ACCESSORY DRIVE (CONT'D)													
	5140971 GEAR, HYDRAULIC PUMP DRIVE (12.5030)								1					
	455921 PIN, 1/8"X1 1/2" (12.9275)			1	1	1		1	1	1	1	1		1

1.7000B ACCESSORY DRIVE

PART		TYPES												
..FIG ..	NUMBER ..	NAME AND DESCRIPTION ..	3 1 4	3 1 6	3 1 7	3 1 9	3 2 8	3 2 9	3 3 2	3 3 3	3 3 7	3 4 2	3 4 7	
1.7622 - ADAPTOR, ACCESSORY DRIVE														
	5137472	ADAPTOR (HYDRAULIC PUMP) (12.5020)	1						1					
	5122386	ADAPTOR (HYDRAULIC PUMP) (12.5020)		2	1	1	1	1				1	1	
	5139376	ADAPTOR (HYDRAULIC PUMP) (12.5020)									1			
	103196	STUD, 3/8"-16-24 X 1 9/16" (12.9117)		4	2	2								
	5150362	STUD, 3/8"-16X1 5/8" (5.2020)					2	2				2	2	
	179858	BOLT, 7/16"-14 X 1" (12.9001)	1	2	1	1	1	1	1		1	1	1	
	179882	BOLT, 1/2"-13 X 1 1/8" (12.9001)	4	8	4	4	4	4	4		4	4	4	
	103321	LOCKWASHER, 3/8" (12.9200)		4	2	2	2	2				2	2	
	117049	NUT, 3/8"-24 (12.9120)		4	2	2	2	2				2	2	
1.7623 - GASKET, ACCESSORY DRIVE ADAPTOR														
	5188755	GASKET (HYDRAULIC PUMP TO ADAPTOR) (12.5005)	1	2	1	1	1	1	1			1	1	
	5104506	GASKET (ADAPTOR TO FLYWHEEL HOUSING) (1.5040)			1	1	1	1			1			
	5137221	GASKET (HYDRAULIC PUMP TO ADAPTOR) (12.5020)									1			
1.7630 - PLATE ASSY., ACCESSORY DRIVE														
8A	5170450	PLATE	1	2	1	1	1	1	1	1	1	1	1	
	5140814	SPACER (12.5015)	1				1			1	1		1	
8A	5145091	BOLT, 3/8"-24 X 1.38" (12.5015)	4	6	3		4	3	3	4	4		3	
8A	5145092	BOLT, 3/8"-24 X 1.20" (12.5015)				4						4		
1.7633 - RETAINER, CAM OR BALANCE GEAR														
	5108836	STUD, 3/8"-24 X 1 3/4" (12.5015)		2	1			1	1					
	9413533	NUT, 3/8"-24 THIN (12.9120)		2	1			1	1					
	5145431	NUT, 3/8"-24 JAM CAD. (12.4037)		6	1			1	1					
1.7635 - COUPLING, ACCESSORY DRIVE														
	5143616	COUPLING (12.5010)	1	2	1	1	1	1	1	1	1	1	1	
1.7670 - GEAR, ACCESSORY DRIVE														
	5168688	GEAR (HYDRAULIC PUMP DRIVE) (12.5030)	1	2										
	5137473	GEAR (HYDRAULIC PUMP DRIVE) (12.5030)					1		1					
	5107387	GEAR (HYDRAULIC PUMP DRIVE) (12.5030)									1			
	5138709	GEAR (HYDRAULIC PUMP DRIVE) (12.5030)						1				1	1	
	8922804	RETAINER, GEAR (12.5030)									1			
	103375	PIN, 3/32" X 1 1/4" COT. (12.9250)		2	1	1								
	455921	PIN, 1/8"X1/2" (12.9270)					1	1	1			1	1	
	5188756	NUT, 1/2"-28 SLOTTED (12.5030)		2	1	1								
	122761	NUT, 1/2"-20 (12.9130)		2										

1.7000B ACCESSORY DRIVE

PART		TYPES													
FIG	NUMBER	NAME AND DESCRIPTION	3 5 3	3 5 4	3 5 5	3 5 7	3 5 8	3 5 9	3 6 2	3 6 3	3 6 4	3 6 8	3 6 9	3 7 0	3 7 1
1.7622 - ADAPTOR, ACCESSORY DRIVE															
	5137222	ADAPTOR (HYDRAULIC PUMP) (12.5020)	1			1						1		1	1
	5122386	ADAPTOR (HYDRAULIC PUMP) (12.5020)		1			1		1						
	5137472	ADAPTOR (HYDRAULIC PUMP) (12.5020)			1										
	5139376	ADAPTOR (HYDRAULIC PUMP) (12.5020)						1		2	2				
	5131332	ADAPTOR (HYDRAULIC PUMP) (12.5020)											1		
	179839	BOLT, 3/8"-16X1" (12.9001)	6	6											
	179858	BOLT, 7/16"-14X1" (12.9001)			1	1		1	1	2	2	1	1	1	1
	8921936	BOLT, 7/16"-14X1 1/4" (12.9001)					1								
	179882	BOLT, 1/2"-13X1 1/8" (12.9001)			4	4	4	4	4	8	8	4	4	4	4
	103321	LOCKWASHER, 3/8" (12.9200)	6	6											
1.7623 - GASKET, ACCESSORY DRIVE ADAPTOR															
	5137221	GASKET, HYDRAULIC PUMP TO ADAPTOR (12.5005)	1							2				1	
	5188755	GASKET, HYDRAULIC PUMP TO ADAPTOR (12.5005)		1	1	1	1	1	1		2	1	1	1	
	5104506	GASKET, ADAPTOR TO FLYWHEEL HOUSING (1.5040)			1					2					
1.7630 - PLATE ASSY., ACCESSORY DRIVE															
8A	5170450	PLATE	1	1	1	1	1	1	1	2	2	1	1	1	1
8A	5140814	SPACER (12.5015)	1	1	1				1	2		1	1		
8A	5145091	BOLT, 3/8"-24X1.38" (12.5015)	4	4	4	3		3	4	8	6	4	4	3	3
8A	5145092	BOLT, 3/8"-24X1.20" (12.5015)				4									
1.7633 - RETAINER, CAM OR BALANCE GEAR															
	5108836	STUD, 3/8"-24X1 3/4" (12.5015)				1		1			2			1	1
	5145431	NUT, 3/8"-24 JAM CAD. (12.4037)				1		1			2			1	1
	9413533	NUT, 3/8"-24 HEX. THIN (12.9120)				1		1			2			1	1
1.7635 - COUPLING, ACCESSORY DRIVE															
	5143616	COUPLING (12.5010)	1	1	1	1	1	1	1	2	2	1	1	1	1

1.7000B ACCESSORY DRIVE

PART		TYPES													
FIG	NUMBER	NAME AND DESCRIPTION													
		3 5 3	3 5 4	3 5 5	3 5 7	3 5 8	3 5 9	3 6 2	3 6 3	3 6 4	3 6 8	3 6 9	3 7 0	3 7 1	
	1.7670 - GEAR, ACCESSORY DRIVE														
	5135263 GEAR, HYDRAULIC PUMP DRIVE (12.5030)	1													
	5138688 GEAR, HYDRAULIC PUMP DRIVE (12.5030)		1					1							
	5138079 GEAR, HYDRAULIC PUMP DRIVE (12.5030)			1											
	5111829 GEAR, HYDRAULIC PUMP DRIVE (12.5030)				1										
	5138709 GEAR, HYDRAULIC PUMP DRIVE (12.5030)					1									
	5107387 GEAR, HYDRAULIC PUMP DRIVE (12.5030)						1		2	2					
	5137392 GEAR, HYDRAULIC PUMP DRIVE (12.5030)													1	
	455921 PIN, 1/8"X1 1/2" (12.9275)			1	1		1		2	2				1	
	103375 PIN, 3/32"X1 1/4" (12.9275)					1		1							
	8922804 RETAINER, GEAR (12.5030)						1		2	2					
	5188756 NUT, 1/2"-28 SLOTTED (12.5030)					1		1							
	1.7700 - COVER ASSY., DRIVE														
	5189590 COVER, HYDRAULIC PUMP					1									
	8927270 STUD, 3/8"-16X1 5/8" (12.9117)					2		2							
	103321 LOCKWASHER, 3/8" (12.9200)					2		2							
	117049 NUT, 3/8"-24 (12.9120)					2		2							

1.7000B ACCESSORY DRIVE

PART		TYPES														
..FIG	NUMBER	NAME AND DESCRIPTION	3 7 7	3 9 1	3 9 4	4 0 1	4 0 2	4 0 3								
1.7622 - ADAPTOR, ACCESSORY DRIVE																
	5131332	ADAPTOR (HYDRAULIC PUMP) (12.5020)		2												
	8928645	ADAPTOR (FUEL PUMP DRIVE) (2.2260)			1											
	5137472	ADAPTOR (HYDRAULIC PUMP) (12.5020)					1									
	5137222	ADAPTOR (HYDRAULIC PUMP) (12.5020)						1								
	940973	BOLT, 1/4"-20X5/8" (12.9001)			2											
	179858	BOLT, 7/16"-14X1" (12.9001)		2			1	1								
	179882	BOLT, 1/2"-13X1 1/8" (12.9001)		8			4	4								
1.7623 - GASKET, ACCESSORY DRIVE ADAPTOR																
	5188755	GASKET, HYDRAULIC PUMP TO ADAPTOR (12.5005)		2			1									
	5137221	GASKET, HYDRAULIC PUMP TO ADAPTOR (12.5005)						1								
1.7630 - PLATE ASSY., ACCESSORY DRIVE																
8A	5170450	PLATE	1	2		1	1	1								
8A	5145092	BOLT, 3/8"-24X1.20" (12.5015)	4			4	4	4								
8A	5145091	BOLT, 3/8"-24X1.38" (12.5015)		6												
1.7633 - RETAINER, CAM OR BALANCE GEAR																
	5108836	STUD, 3/8"-24X1 3/4" (12.5015)		2												
	5145431	NUT, 3/8"-24 JAM CAD. (12.4037)		2												
	9413533	NUT, 3/8"-24 HEX. THIN (12.9120)		2												
1.7635 - COUPLING, ACCESSORY DRIVE																
	8926387	COUPLING	1													
	5143616	COUPLING (12.5010)		2		1	1	1								
1.7640 - SHAFT, ACCESSORY DRIVE																
	5131130	SHAFT	1													
	8928543	WOODRUFF KEY, 3/16"X3/4" (12.9350)		1												
	272906	NUT, 3/4"-16 LOCK (12.9140)		1												
1.7643 - HUB, ACCESSORY DRIVE GEAR																
	5125774	HUB, FUEL PUMP DRIVE GEAR (2.2292)			1											
	5126672	SPACER, THRUST OUTER (2.2292)			1											
	5125771	WASHER, THRUST INNER (2.2292)			2											
	9409203	BOLT, 1/2"-13X2 3/4" (12.9001)			1											
1.7645 - RETAINER ASSY., ACCESSORY DRIVE																
	5131402	RETAINER ASSY. (INCLUDES ITEMS IN 1.7645, 1.7655, 1.7656 AND 1.7660)		1												
	5131129	RETAINER		1												

1.7000B ACCESSORY DRIVE

PART		TYPES															
FIG	NUMBER	NAME AND DESCRIPTION	377	391	394	401	402	403									
		1.7655 - BEARING, ACCESSORY DRIVE															
	907191	BEARING	1														
		1.7656 - RETAINER, ACCESSORY DRIVE BEARING															
	9415285	RETAINER (2.7470)	1														
		1.7660 - SEAL, ACCESSORY DRIVE OIL															
	5131329	SEAL, OIL	1														
		1.7665 - SPACER, ACCESSORY DRIVE OIL SEAL															
	5131131	SPACER	1														
		1.7670 - GEAR, ACCESSORY DRIVE															
	5107088	GEAR, FUEL PUMP DRIVE (2.2290)			1												
	5138079	GEAR, HYDRAULIC PUMP DRIVE (12.5030)					1										
	5140971	GEAR, HYDRAULIC PUMP DRIVE (12.5030)						1									
	455921	PIN, 1/8"X1 1/2" (12.9275)					1	1									

1.8000 VALVE AND INJECTOR OPERATING MECHANISM

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	2 8	2 9	3 0	3 1	3 2	3 3	4 6	4 7	4 8	5 0	5 7	5 9
		1.8060 - ARM ASSY., EXHAUST VALVE ROCKER												
		INCLUDES ITEMS IN 1.8130, 1.8140, 1.8150 AND 1.8343.												
9A	5119307	ARM ASSY., 2,3,4-53 (LEFT) (ITEM 1) (2 VALVE)	2	3		4								
9A	5119308	ARM ASSY., 2,3,4-53 (RIGHT)(ITEM2) (2 VALVE)	2	3		4								
	5135268	ARM ASSY., 3,4,6,8V53 (RIGHT) (4 VALVE)			3		4	6	6	4	6	8	3	4
	5135267	ARM ASSY., 3,4,6,8V53 (LEFT) (4 VALVE)			3		4	6	6	4	6	8	3	4
		1.8080 - ARM ASSY., INJECTOR ROCKER												
		INCLUDES ITEMS IN 1.8110 THRU 1.8150.												
9A	5179954	ARM ASSY.	2	3	3	4	4	6	6	4	6	8	3	4
		1.8110 - BUSHING INJECTOR ROCKER ARM-LARGE												
9A	5150318	BUSHING	2	3	3	4	4	6	6	4	6	8	3	4
9A	8924355	BUSHING, .0015" U.S. I.D.	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
		1.8120 - BUSHING, INJECTOR AND EXHAUST VALVE ROCKER ARM-SMALL												
9A	5150311	BUSHING	2	3	3	4	4	6	6	4	6	8	3	4
9A	8924354	BUSHING, .0015" U.S. I.D.	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
		1.8130 - CLEVIS, INJECTOR AND EXHAUST VALVE ROCKER ARM												
9A	5150312	CLEVIS	6	9	9	12	12	18	18	12	18	24	9	12
		1.8140 - BUSHING, INJECTOR AND EXHAUST VALVE ROCKER ARM CLEVIS												
9A,C	5123700	BUSHING	6	9	15	12	20	30	30	20	30	40	15	20
		1.8150 - PIN, INJECTOR AND EXHAUST VALVE ROCKER ARM CLEVIS												
9A	5150314	PIN (CLEVIS END)	6	9	9	12	12	18	18	12	18	24	9	12
9A,C	5123711	PIN (BRIDGE END)			6		8	12	12	8	12	16	6	8

1.8000 VALVE AND INJECTOR OPERATING MECHANISM

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	2 8	2 9	3 0	3 1	3 2	3 3	4 6	4 7	4 8	5 0	5 7	5 9
1.8160 - SHAFT ASSY., ROCKER														
A SHAFT ASSY. INCLUDES PLUG IN 1.8160.														
3A	5116072	SHAFT ASSY.	2	3	3	4	4	6	6	4	6	8	3	4
	5151272	PLUG, 11/32" DIA. X 1/4" SPEC.	2	3	3	4	4	6	6	4	6	8	3	4
1.8170 - BRACKET, ROCKER SHAFT														
3A	5116128	BRACKET	4	6	6	8	8	12	12	8	12	16	6	8
3A	5119198	BOLT	4	6	6	8	8	12	12	8	12	16	6	8
1.8180 - ROD, PUSH														
3A	5128640	ROD	6	9	9	12	12	18	18	12	18	24	9	12
3A	5151601	LOCKNUT	6	9	9	12	12	18	18	12	18	24	9	12
1.8190 - SPRING, PUSH ROD														
3A	5186858	@ SPRING (VALVE AND INJECTOR)	6	9	9	12	12	18						
3A	5186858	# SPRING (VALVE)	4	6	6	8	8	12						
3A	5108918	# & SPRING (2 ORANGE STRIPES) (INJECTOR)	2	3	3	4	4	6						
3A	5108918	% & SPRING (2 ORANGE STRIPES)(VALVE AND INJECTOR)	6	9	9	12	12	18	18	12	18	24	9	12
@ THRU 2D-13452, 3D-3791, 4D-5322, 6D-1076.														
# EFFECTIVE WITH 2D-13453, 3D-3792, 4D-5323, 6D-1077 AND THRU 2D-14187, 3D-6127, 4D-3548, 6D-2708.														
& MUST BE USED WITH 5108919 SEAT.														
% EFFECTIVE WITH 2D-14188, 3D-6128, 4D-8549, 6D-2709.														
1.8200 - SEAT, PUSH ROD SPRING-UPPER														
3A	5150302	@ SEAT (VALVE AND INJECTOR)	6	9	9	12	12	18						
3A	5150302	# SEAT (VALVE)	4	6	6	8	8	12						
3A	5108919	# SEAT (INJECTOR)	2	3	3	4	4	6						
3A	5108919	% SEAT (VALVE AND INJECTOR)	6	9	9	12	12	18	18	12	18	24	9	12
@ THRU 2D-13452, 3D-3791, 4D-5322, 6D-1076.														
# EFFECTIVE WITH 2D-13453, 3D-3792, 4D-5323, 6D-1077 AND THRU 2D-14187, 3D-6127, 4D-3548, 6D-2708.														
% EFFECTIVE WITH 2D-14188, 3D-6128, 4D-8549, 6D-2709.														

1.8000 VALVE AND INJECTOR OPERATING MECHANISM

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	2 8	2 9	3 0	3 1	3 2	3 3	4 6	4 7	4 8	5 0	5 7	5 9
1.8210 - SEAT, PUSH ROD SPRING-LOWER														
9A	5123250	SEAT	6	9	9	12	12	18	18	12	18	24	9	12
1.8250 - RETAINER, PUSH ROD														
9A	5150303	RETAINER (SNAP RING)	6	9	9	12	12	18	18	12	18	24	9	12
1.8260 - FOLLOWER ASSY., CAM														
9A	8924439	FOLLOWER ASSY. (INCLUDES ROLLER SET)	6	9	9	12	12	18	18	12	18	24	9	12
1.8265 - ROLLER SET, CAM FOLLOWER														
		INCLUDES ROLLER WITH BUSHING AND PIN.												
	8923814	ROLLER SET (STANDARD)	6	9	9	12	12	18	18	12	18	24	9	12
1.8300 - GUIDE, CAM FOLLOWER														
9A	5116125	GUIDE	2	3	3	4	4	6	6	4	6	8	3	4
9A	138201	BOLT, 1/4"-20 X 3/4" SKT. HD. (12.9001)										12		
9A	443603	BOLT, 1/4"-20X3/4"(12.9001)	4	6	6	8	8	12	12	8	12	16	6	8
9A	103319	LOCKWASHER, 1/4"(12.9200)	4	6	6	8	8	12	12	8		16	6	8
1.8310 - VALVE, EXHAUST														
9B	5195948	VALVE, 2,3,4-53 (INCLUDES LOCKS)	4	6		8								
9C	5199323	VALVE, 3,4,6,8V53 (INCLUDES LOCKS)					16	24		16		32		
	5197176	VALVE, 3,4-53 (INCLUDES LOCKS)			12				24		24			16
9B	5198429	VALVE, 3-53											12	
1.8320 - GUIDE, EXHAUST VALVE														
		A VALVE GUIDE KIT INCLUDES 1-5131961 GUIDE AND 1-8921741 SEAL. INSTALLER (PKG.) CONSISTS OF 100 PIECES.												

1.8000 VALVE AND INJECTOR OPERATING MECHANISM

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	2 8	2 9	3 0	3 1	3 2	3 3	4 6	4 7	4 8	5 0	5 7	5 9
1.8320 - GUIDE, EXHAUST VALVE (CONT'D)														
2A,9B	5129919	GUIDE	4	6		8								
9C	5131961	GUIDE			12		16	24	24	16	24	32	12	16
	5198529	KIT, VALVE GUIDE AND SEAL			12		16	24	24	16	24	32	12	16
	8921741	SEAL, VALVE GUIDE (USE WITH 5131961)			12		16	24	24	16	24	32	12	16
	5129920	SEAL, VALVE GUIDE (USE WITH 5119992)	4	6		8								
	5199912	INSTALLER, EXHAUST VALVE SEAL (4 VALVE)			AR		AR	AR	AR	AR	AR	AR	AR	AR
	5199913	INSTALLER, EXHAUST VALVE SEAL (2 VALVE)	AR	AR		AR								
1.8330 - INSERT, EXHAUST VALVE														
9B	5116196	INSERT (STANDARD)	4	6		8								
9B	5196751	INSERT (.010" OVERSIZE ON O.D.)	AR	AR		AR								
9C	5116361	INSERT (STANDARD)			12		16	24	24	16	24	32		16
9C	5196752	INSERT (.010" OVERSIZE ON O.D.)			AR		16	AR	AR	AR	AR	AR	12	AR
	5131614	INSERT (4 VALVE MULTIFUEL)					16							
1.8340 - SPRING, EXHAUST VALVE														
9B	5116140	SPRING	4	6		8								
9C	5144019	# * SPRING (RED AND GREEN STRIPE)			12		16	24	24	16	24	32	12	16
9C	5147424	% = SPRING (BLUE AND WHITE STRIPE) * THRU 6D-60776 FOR ENGINES EQUIPPED WITH 5126933 AND 5126934 CAMSHAFTS (STAMPED "V-7") OR 5135902 AND 5135 903 CAMSHAFTS (STAMPED "V"). = USE EFFECTIVE WITH 6D-60777 FOR ENGINES EQUIPPED WITH 5199396 AND 5199397 CAMSHAFTS (STAMPED "V7L"). REPL ACE BOTH SPRINGS PER BRIDGE (QTY. OF TWO (2)). # 5144019 SPRING MUST BE USED WITH 5126929, 5126930, 5126931 AND 5126932 HI-LIFT CAMSHAFTS ON 4 VALVE ENGIN ES. % 5147424 SPRING MUST BE USED WITH 5149091, 5149093, 5149095 AND 5149097 LO-LIFT CAMSHAFTS ON 4 VALVE ENGIN ES.			12		16	24	24					
1.8343 - BRIDGE, EXHAUST VALVE														
9C	5122446	? BRIDGE			6		8							
9C	5135262	BRIDGE ? THRU 3D-508, 4D-891, NOT SERVICED, REPLACE WITH 5135268 RH OR 5135267 LH ROCKER ARM ASSY. (1.8060) WHICH INCLUDES 5135262 BRIDGE.			6		8	12	12	8	12	16	6	8
1.8350 - CAP, EXHAUST VALVE SPRING														
9B	5111338	CAP	4	6		8								
9C	5123330	CAP			12		16	24	24	16	24	32	12	16

1.8000 VALVE AND INJECTOR OPERATING MECHANISM

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	2 8	2 9	3 0	3 1	3 2	3 3	4 6	4 7	4 8	5 0	5 7	5 9
1.8360 - SEAT, EXHAUST VALVE SPRING														
9B	5116243	SEAT (TWO VALVE HEAD)	4	3		8								
9C	5111467	@ SEAT (.060" THICK)			12		16	24	24	16	24	32	12	16
	5125922	# SEAT (.150" THICK)			12		16	24		16				
		@ USE WHEN REPLACING SEAT ONLY IN 4 VALVE UNITS THRU 3D-056, 4D-317 AND UNITS EFFECTIVE WITH 3D-160, 4D-614 OR WHENEVER REPLACING VALVES IN ANY 4 VALVE UNIT.												
		# USE WHEN REPLACING SEAT ONLY IN 4 VALVE UNITS EFFECTIVE WITH 3D-057, 4D-318 AND THRU 3D-159, 4D-613.												
1.8370 - LOCK, EXHAUST VALVE SPRING														
9B	5111337	LOCK (HALVES)	8	12		16								
9C	5116341	LOCK (HALVES)			24		32	48	48	32	48	64	24	32

1.8000 VALVE AND INJECTOR OPERATING MECHANISM

FIG	PART NUMBER	NAME AND DESCRIPTION	TYPES											
			6 2	6 5	7 2	7 4	7 6	1 2 2	1 2 9	1 4 5	1 6 3	1 6 4	1 6 5	1 6 6
		1.8060 - ARM ASSY., EXHAUST VALVE ROCKER												
		INCLUDES ITEMS IN 1.8130, 1.8140, 1.8150 AND 1.8343.												
IA	5119307	ARM ASSY., 2,3,4-53 (LEFT)(ITEM 1) (2 VALVE)			3	4								
IA	5119308	ARM ASSY., 2,3,4-53 (RIGHT)(ITEM 2) (2 VALVE)			3	4								
	5135268	ARM ASSY., 3,4,6,8V53 (RIGHT) (4 VALVE)	4	6			3	4	3	3	4	6	6	4
	5135267	ARM ASSY., 3,4,6,8V53 (LEFT) (4 VALVE)	4	6			3	4	3	3	4	6	6	4
		1.8080 - ARM ASSY., INJECTOR ROCKER												
		INCLUDES ITEMS IN 1.8110 THRU 1.8150.												
IA	5179954	ARM ASSY.	4	6	3	4	3	4	3	3	4	6	6	4
		1.8110 - BUSHING INJECTOR ROCKER ARM-LARGE												
IA	5150318	BUSHING	4	6	3	4	3	4	3	3	4	6	6	4
IA	8924355	BUSHING, .0015" U.S. I.D.	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
		1.8120 - BUSHING, INJECTOR AND EXHAUST VALVE ROCKER ARM-SMALL												
IA	5150311	BUSHING	4	6	3	4	3	4	3	3	4	6	6	4
IA	8924354	BUSHING, .0015" U.S. I.D.	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
		1.8130 - CLEVIS, INJECTOR AND EXHAUST VALVE ROCKER ARM												
A	5150312	CLEVIS	12	18	9	12	9	12	9	9	12	18	18	12
		1.8140 - BUSHING, INJECTOR AND EXHAUST VALVE ROCKER ARM CLEVIS												
A,C	5123700	BUSHING	20	30	9	12	15	20	15	15	20	30	30	20
		1.8150 - PIN, INJECTOR AND EXHAUST VALVE ROCKER ARM CLEVIS												
A	5150314	PIN (CLEVIS END)	12	18	9	12	9	12	9	9	12	18	18	12
A,C	5123711	PIN (BRIDGE END)	8	12			6	8	6	6	8	12	12	8

1.8000 VALVE AND INJECTOR OPERATING MECHANISM

PART			TYPES											
..FIG ..	NUMBER	NAME AND DESCRIPTION	6 2	6 5	7 2	7 4	7 6	1 2 2	1 2 9	1 4 5	1 6 3	1 6 4	1 6 5	1 6 6
1.8160 - SHAFT ASSY., ROCKER														
		A SHAFT ASSY. INCLUDES PLUG IN 1.8160.												
9A	5116072	SHAFT ASSY.	4	6	3	4	3	4	3	3	4	6	6	4
	5151272	PLUG	4	6	3	4	3	4	3	3	4	6	6	4
1.8170 - BRACKET, ROCKER SHAFT														
9A	5116128	BRACKET	8	12	6	8	6	8	6	6	8	12	12	8
9A	5119198	BOLT	8	12	6	8	6	8	6	6	8	12	12	8
1.8180 - ROD, PUSH														
9A	5128640	ROD	12	18	9	12	9	12	9	9	12	18	18	12
9A	5151601	LOCKNUT	12	18	9	12	9	12	9	9	12	18	18	12
1.8190 - SPRING, PUSH ROD														
9A	5108918	* @ SPRING (2 ORANGE STRIPES)(VALVE AND INJECTOR)	12	18	9	12	9	12	9	9	12	18	18	12
		* EFFECTIVE WITH 2D-14188, 3D-6128, 4D-8549, 6D-2709.												
		@ MUST BE USED WITH 5108919 SEAT.												
1.8200 - SEAT, PUSH ROD SPRING-UPPER														
9A	5108919	* SEAT (VALVE AND INJECTOR)	12	18	9	12	9	12	9	9	12	18	18	12
		* EFFECTIVE WITH 2D-14188, 3D-6128, 4D-8549, 6D-2709.												
1.8210 - SEAT, PUSH ROD SPRING-LOWER														
9A	5123250	SEAT	12	18	9	12	9	12	9	9	12	18	18	12
1.8250 - RETAINER, PUSH ROD														
9A	5150303	RETAINER (SNAP RING)	12	18	9	12	9	12	9	9	12	18	18	9
1.8260 - FOLLOWER ASSY., CAM														
9A	8924439	FOLLOWER ASSY. (INCLUDES ROLLER SET)	12	18	9	12	9	12	9	9	12	18	18	9

1.8000 VALVE AND INJECTOR OPERATING MECHANISM

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	6 2	6 5	7 2	7 4	7 6	1 2 2	1 2 9	1 4 5	1 6 3	1 6 4	1 6 5	1 6 6
1.8265 - ROLLER SET, CAM FOLLOWER														
INCLUDES ROLLER WITH BUSHING AND PIN.														
8923814	ROLLER SET (STANDARD)		12	18	9	12	9	12	9	9	12	18	18	12
1.8300 - GUIDE, CAM FOLLOWER														
9A	5116125	GUIDE	4	6	3	4	3	4	3	3	4	6	6	3
9A	443603	BOLT, 1/4"-20X3/4"(12.9001)	8	12	6	8	6	8	6	6	8	12	12	6
9A	103319	LOCKWASHER, 1/4"(12.9200)	8	12	6	8		8	6	6	8	12	12	6
9A	103321	LOCKWASHER, 3/8"(12.9200)					6							
1.8310 - VALVE, EXHAUST														
9B	5195948	VALVE, 2,3,4-53 (INCLUDES LOCKS)			6	8								
9C	5199323	VALVE, 3,4,6,8V53 (INCLUDES LOCKS)		24				16	12	12	16	24		
	5197176	VALVE, 3,4-53 (INCLUDES LOCKS)	16				12						24	12
1.8320 - GUIDE, EXHAUST VALVE														
A VALVE GUIDE KIT INCLUDES 1-5131961 GUIDE AND 1-8921741 SEAL. INSTALLER (PKG.) CONSISTS OF 100 PIECES.														
2A,9B	5129919	GUIDE (2 VALVE)			6	8								
9C	5131961	GUIDE (4 VALVE)	16	24			12	16	12	12	16	24	24	12
	5198529	KIT, VALVE GUIDE AND SEAL	16	24			12	16	12	12	16	24	24	12
	8921741	SEAL, VALVE GUIDE (USE WITH 5131961) (4 VALVE)	16	24			12	16	12	12	16	24	24	12
	5129920	SEAL, VALVE GUIDE (USE WITH 5119992) (2 VALVE)			6	8								
	5199912	INSTALLER, EXHAUST VALVE SEAL (4 VALVE)	AR	AR			AR	AR	AR	AR	AR	AR	AR	AR
	5199913	INSTALLER, EXHAUST VALVE SEAL (2 VALVE)			AR	AR								
1.8330 - INSERT, EXHAUST VALVE														
9B	5116196	INSERT (STANDARD) (2 VALVE)			6	8								
9C	5116361	INSERT (STANDARD) (4 VALVE)		24			12	16	12	12	16	24	24	12
	5131614	INSERT (MULTIFUEL) (4 VALVE)	16											
9C	5196752	INSERT (.010" OVERSIZE ON O.D.) (4 VALVE)	AR	AR			AR	AR	AR	AR	AR	AR	AR	AR
9B	5196751	INSERT (.010" OVERSIZE ON O.D.) (2 VALVE)			AR	AR								
1.8340 - SPRING, EXHAUST VALVE														
9B	5116140	SPRING (2 VALVE)			6	8								
	5147424	% =+ SPRING (BLUE AND WHITE STRIPE)	16				16		12			24		
9C	5144019	# * SPRING (RED AND GREEN STRIPE)	16	24			12		12		16		24	12

1.8000 VALVE AND INJECTOR OPERATING MECHANISM

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	6 2	6 5	7 2	7 4	7 6	1 2 2	1 2 9	1 4 5	1 6 3	1 6 4	1 6 5	1 6 6
1.8340 - SPRING, EXHAUST VALVE (CONT'D)														
* THRU 6D-60776 FOR ENGINES EQUIPPED WITH 5126933 AND 5126934 CAMSHAFTS (STAMPED "V-7") OR 5135902 AND 5135 903 CAMSHAFTS (STAMPED "V").														
= USE EFFECTIVE WITH 6D-60777 FOR ENGINES EQUIPPED WITH 5199396 AND 5199397 CAMSHAFTS (STAMPED "V7L") REP LACE SPRINGS @ QTY. OF 2 PER BRIDGE.														
+ USE EFFECTIVE WITH 4D-112278 FOR ENGINES EQUIPPED WITH 5149095 CAMSHAFT (STAMPED "V7L")														
# 5144019 SPRING MUST BE USED WITH 5126929, 5126930, 5126931 AND 5126932 HI-LIFT CAMSHAFTS ON 4 VALVE ENGIN ES.														
% 5147424 SPRING MUST BE USED WITH 5149091, 5149093, 5149095 AND 5149097 LO-LIFT CAMSHAFTS ON 4 VALVE ENGIN ES.														
1.8343 - BRIDGE, EXHAUST VALVE														
9C	5135262	BRIDGE	8	12			6	8	6	6	8	12	12	8
1.8350 - CAP, EXHAUST VALVE SPRING														
9B	5111338	CAP			6	8								
9C	5123330	CAP	16	24			12	16	12	12	16	24	24	12
1.8360 - SEAT, EXHAUST VALVE SPRING														
9B	5116243	SEAT (TWO VALVE HEAD)			6	8								
9C	5111467	* SEAT (.060" THICK)	16	24			12	16	12	12	16	24	24	12
* USE WHEN REPLACING SEAT ONLY IN 4 VALVE UNITS THRU 3D-056, 4D-317 AND UNITS EFFECTIVE WITH 3D-160, 4D-614 OR WHENEVER REPLACING VALVES IN ANY 4 VALVE UNIT.														
1.8370 - LOCK, EXHAUST VALVE SPRING														
9B	5111337	LOCK (HALVES)			12	16								
9C	5116341	LOCK (HALVES)	32	48			24	32	24	24	32	48	48	24

1.8000 VALVE AND INJECTOR OPERATING MECHANISM

PART		TYPES											
FIG	NUMBER	NAME AND DESCRIPTION											
		1 6 7	1 6 8	1 6 9	1 7 0	1 7 1	1 7 2	1 7 3	1 7 4	1 7 5	1 7 6	1 8 0	1 8 1
	1.8060 - ARM ASSY., EXHAUST VALVE ROCKER												
	INCLUDES ITEMS IN 1.8130, 1.8140, 1.8150 AND 1.8343.												
A	5135268 ARM ASSY. (RIGHT) (4 VALVE) (ITEM 2)	4		3				3	3	3	4	4	6
A	5135267 ARM ASSY. (LEFT) (4 VALVE) (ITEM 1)	4		3				3	3	3	4	4	6
A	5119307 ARM ASSY. (LEFT) (2 VALVE) (ITEM 1)		3		3	4	4						
A	5119308 ARM ASSY. (RIGHT) (2 VALVE) (ITEM 2)		3		3	4	4						
	1.8080 - ARM ASSY., INJECTOR ROCKER												
	INCLUDES ITEMS IN 1.8110 THRU 1.8150.												
A	5179954 ARM ASSY.	4	3	3	3	4	4	3	3	3	4	4	6
	1.8110 - BUSHING INJECTOR ROCKER ARM-LARGE												
A	5150318 BUSHING	4	3	3	3	4	4	3	3	3	4	4	6
A	8924355 BUSHING, .0015" U.S. I.D.	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8120 - BUSHING, INJECTOR AND EXHAUST VALVE ROCKER ARM-SMALL												
A	5150311 BUSHING	4	3	3	3	4	4	3	3	3	4	4	6
A	8924354 BUSHING, .0015" U.S. I.D.	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8130 - CLEVIS, INJECTOR AND EXHAUST VALVE ROCKER ARM												
A	5150312 CLEVIS	12	9	9	9	12	12	9	9	9	12	12	18
	1.8140 - BUSHING, INJECTOR AND EXHAUST VALVE ROCKER ARM CLEVIS												
C	5123700 BUSHING	20	9	15	9	12	12	15	15	15	20	20	30
	1.8150 - PIN, INJECTOR AND EXHAUST VALVE ROCKER ARM CLEVIS												
C	5150314 PIN (CLEVIS END)	12	9	9	9	12	12	9	9	9	12	12	18
C	5123711 PIN (BRIDGE END)	8		6				6	6	6	8	8	12
	1.8160 - SHAFT ASSY., ROCKER												
	A SHAFT ASSY. INCLUDES PLUG IN 1.8160.												
	5116072 SHAFT ASSY.	4	3	3	3	4	4	3	3	3	4	4	6
	5151272 PLUG, 11/32" DIA. X 1/4" SPECIAL	4	3	3	3	4	4	3	3	3	4	4	6

1.8000 VALVE AND INJECTOR OPERATING MECHANISM

PART			TYPES											
..FIG ..	NUMBER	NAME AND DESCRIPTION	1 6 7	1 6 8	1 6 9	1 7 0	1 7 1	1 7 2	1 7 3	1 7 4	1 7 5	1 7 6	1 8 0	1 8 1
1.8170 - BRACKET, ROCKER SHAFT														
9A	5116128	BRACKET	8	6	6	5	8	7	6	6	6	8	8	12
9A	5141276	BRACKET				1	1							
9A	5119198	BOLT, 7/16"-14X3.38"	8	6	6	6	8	8	6	6	6	8	8	12
1.8180 - ROD, PUSH														
9A	5128640	ROD	12	9	9	9	12	12	9	9	9	12	12	18
9A	5151601	LOCKNUT	12	9	9	9	12	12	9	9	9	12	12	18
1.8190 - SPRING, PUSH ROD														
9A	5108918	SPRING (TWO ORANGE STRIPES) (INJECTOR & VALVE)	12	9	9	9	12	12	9	9	9	12	12	18
1.8200 - SEAT, PUSH ROD SPRING-UPPER														
9A	5108919	SEAT (INJECTOR & VALVE)	12	9	9	9	12	12	9	9	9	12	12	18
1.8210 - SEAT, PUSH ROD SPRING-LOWER														
9A	5123250	SEAT	12	9	9	9	12	12	9	9	9	12	12	18
1.8250 - RETAINER, PUSH ROD														
9A	5150303	RETAINER (SNAP RING)	12	9	9	9	12	12	9	9	9	12	12	18
1.8260 - FOLLOWER ASSY., CAM														
9A	8924439	FOLLOWER ASSY. (INCLUDES ROLLER SET)	12	9	9	9	12	12	9	9	9	12	12	18
1.8265 - ROLLER SET, CAM FOLLOWER														
		INCLUDES ROLLER WITH BUSHING AND PIN.												
	8923814	ROLLER SET (STANDARD)	12	9	9	9	12	12	9	9	9	12	12	18
1.8300 - GUIDE, CAM FOLLOWER														
9A	5116125	GUIDE	4	3	3	3	4	4	3	3	3	4	4	6
9A	443603	BOLT, 1/4"-20X3/4" (12.9001)	8	6	6	6	8	8	6	6	6	8	8	12
9A	103319	LOCKWASHER, 1/4" (12.9200)	8	6	6	6	8	8	6	6	6	8	8	12
1.8310 - VALVE, EXHAUST														
9C	5199323	VALVE (INCLUDES LOCK) (4 VALVE)	16		12				12	12	12	16		
9B	5195948	VALVE (INCLUDES LOCK) (2 VALVE)		6		6	8	8						
9C	5197176	VALVE (INCLUDES LOCK) (4 VALVE)											16	24

1.8000 VALVE AND INJECTOR OPERATING MECHANISM

PART		TYPES													
FIG	NUMBER	NAME AND DESCRIPTION	1 6 7	1 6 8	1 6 9	1 7 0	1 7 1	1 7 2	1 7 3	1 7 4	1 7 5	1 7 6	1 8 0	1 8 1	
		1.8320 - GUIDE, EXHAUST VALVE													
		A VALVE GUIDE KIT INCLUDES 1-5131961 GUIDE AND 1-5131973 SEAL. INSTALLER (PKG) CONSISTS OF 100 PIECES.													
C	5131961	GUIDE (4 VALVE)	16		12				12	12	12	16	16	24	
B	5129919	GUIDE (2 VALVE)		6		6	8	8							
	5198529	KIT, VALVE GUIDE AND SEAL	16		12				12	12	12	16	16	24	
C	8921741	SEAL, VALVE GUIDE (4 VALVE)	16		12				12	12	12	16	16	24	
B	5129920	SEAL, VALVE GUIDE (2 VALVE)		6		6	8	8							
	5199912	INSTALLER, EXHAUST VALVE SEAL (4 VALVE)	AR		AR				AR	AR	AR	AR	AR	AR	
	5199913	INSTALLER, EXHAUST VALVE SEAL (2 VALVE)		AR		AR	AR	AR							
		1.8330 - INSERT, EXHAUST VALVE													
C	5116361	INSERT (STANDARD) (4 VALVE)	16		12				12	12	12	16	16	24	
B	5116196	INSERT (STANDARD) (2 VALVE)		6		6	8	8							
C	5196752	INSERT (.010" O.S. O.D.) (4 VALVE)	AR		AR				AR	AR	AR	AR	AR	AR	
B	5196751	INSERT (.010" O.S. O.D.) (2 VALVE)		AR		AR	AR	AR							
		1.8340 - SPRING, EXHAUST VALVE													
C	5147424	SPRING (BLUE AND WHITE STRIPE) (4 VALVE)	16		12				12		12	16	16	24	
B	5116140	SPRING (2 VALVE)		6		6	8	8							
C	5144019	SPRING (RED AND GREEN STRIPE) (4 VALVE)								12					
		1.8343 - BRIDGE, EXHAUST VALVE													
C	5135262	BRIDGE	8		6				6	6	6	8	8	12	
		1.8350 - CAP, EXHAUST VALVE SPRING													
C	5123330	CAP (4 VALVE)	16		12				12	12	12	16	16	24	
B	5111338	CAP (2 VALVE)		6		6	8	8							
		1.8360 - SEAT, EXHAUST VALVE SPRING													
C	5111467	SEAT (.063" THICK) (4 VALVE)	16		12				12	12	12	16	16	24	
B	5116243	SEAT (2 VALVE)		6		6	8	8							
		1.8370 - LOCK, EXHAUST VALVE SPRING													
C	5116341	LOCK (HALVES) (4 VALVE)	32		24				24	24	24	32	32	48	
B	5111337	LOCK (HALVES) (2 VALVE)		12		12	16	16							

1.8000 VALVE AND INJECTOR OPERATING MECHANISM

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	1 8 2	1 8 5	1 8 6	1 8 7	1 8 8	1 9 2	1 9 3	2 0 3	2 0 4	2 7 0	2 8 4	2 8 7
1.8060 - ARM ASSY., EXHAUST VALVE ROCKER														
INCLUDES ITEMS IN 1.8130, 1.8140, 1.8150 AND 1.8343.														
9A	5135268	ARM ASSY. (RIGHT) (4 VALVE) (ITEM 2)	3	3				3		3	6	4	4	6
9A	5135267	ARM ASSY. (LEFT) (4 VALVE) (ITEM 1)	3	3				3		3	6	4	4	6
9A	5119307	ARM ASSY. (LEFT) (2 VALVE) (ITEM 1)			4	4	4		3					
9A	5119308	ARM ASSY. (RIGHT) (2 VALVE) (ITEM 2)			4	4	4		3					
1.8080 - ARM ASSY., INJECTOR ROCKER														
INCLUDES ITEMS IN 1.8110 THRU 1.8150.														
9A	5179954	+ ARM ASSY.	3	3	4	4	4	3	3	3	6			
9A	8923543	ARM ASSY. + NOT SERVICED. USE 8923543.										4	4	6
1.8110 - BUSHING INJECTOR ROCKER ARM-LARGE														
9A	5150318	BUSHING	3	3	4	4	4	3	3	3	6	4	4	6
9A	8924355	BUSHING, .0015" U.S. I.D.	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1.8120 - BUSHING, INJECTOR AND EXHAUST VALVE ROCKER ARM-SMALL														
9A	5150311	BUSHING	3	3	4	4	4	3	3	3	6	4	4	6
9A	8924354	BUSHING, .0015" U.S. I.D.	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1.8130 - CLEVIS, INJECTOR AND EXHAUST VALVE ROCKER ARM														
9A	5150312	CLEVIS	9	9	12	12	12	9	9	9	18	12	12	18
1.8140 - BUSHING, INJECTOR AND EXHAUST VALVE ROCKER ARM CLEVIS														
9A,C	5123700	BUSHING	15	15	12	12	12	15	9	15	30	20	20	30
1.8150 - PIN, INJECTOR AND EXHAUST VALVE ROCKER ARM CLEVIS														
9A	5150314	PIN (CLEVIS END)	9	9	12	12	12	9	9	9	18	12	12	18
9A,C	5123711	PIN (BRIDGE END)	6	6				6	6	6	12	8	8	12
1.8160 - SHAFT ASSY., ROCKER														
A SHAFT ASSY. INCLUDES PLUG IN 1.8160.														
9A	5116072	SHAFT ASSY.	3	3	4	4	4	3	3	3	6	4	4	6
9A	5151272	PLUG, 11/32" DIA. X 1/4" SPECIAL	3	3	4	4	4	3	3	3	6	4	4	6

1.8000 VALVE AND INJECTOR OPERATING MECHANISM

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	1 8 2	1 8 5	1 8 6	1 8 7	1 8 8	1 9 2	1 9 3	2 0 3	2 0 4	2 7 0	2 8 4	2 8 7
1.8170 - BRACKET, ROCKER SHAFT														
9A	5116128	BRACKET	6	6	8	8	7	6	6	6	12	8	8	12
9A	5141276	BRACKET					1							
9A	5119198	BOLT, 7/16"-14X3.38"	6	6	8	8	8	6	6	6	12	8	8	12
1.8180 - ROD, PUSH														
9A	5128640	ROD	9	9	12	12	12	9	9	9	18	12	12	18
9A	5151601	LOCKNUT	9	9	12	12	12	9	9	9	18	12	12	18
1.8190 - SPRING, PUSH ROD														
9A	5108918	SPRING (INJECTOR & VALVE)	9	9	12	12	12	9	9	9	18	12	12	18
1.8200 - SEAT, PUSH ROD SPRING-UPPER														
9A	5108919	SEAT (INJECTOR & VALVE)	9	9	12	12	12	9	9	9	18	12	12	18
1.8210 - SEAT, PUSH ROD SPRING-LOWER														
9A	5123250	SEAT	9	9	12	12	12	9	9	9	18	12	12	18
1.8250 - RETAINER, PUSH ROD														
9A	5150303	RETAINER (SNAP RING)	9	9	12	12	12	9	9	9	18	12	12	18
1.8260 - FOLLOWER ASSY., CAM														
9A	8924439	FOLLOWER ASSY. (INCLUDES ROLLER SET)	9	9	12	12	12	9	9	9	18	12	12	18
1.8265 - ROLLER SET, CAM FOLLOWER														
INCLUDES ROLLER WITH BUSHING AND PIN.														
	8923814	ROLLER SET (STANDARD)	9	9	12	12	12	9	9	9	18	12	12	18
1.8300 - GUIDE, CAM FOLLOWER														
9A	5116125	GUIDE	3	3	4	4	4	3	3	3	6	4	4	6
9A	443603	BOLT, 1/4"-20X3/4" (12.9001)	6	6	8	8	8	6	6	6	12	8	8	12
9A	103319	LOCKWASHER, 1/4" (12.9200)	6	6	8	8	8	6	6	6	12	8	8	12
1.8310 - VALVE, EXHAUST														
9C	5197176	VALVE (INCLUDES LOCK) (4 VALVE)	12					12				16		24
9C	5199323	VALVE (INCLUDES LOCK) (4 VALVE)		12						12	24		16	
9B	5195948	VALVE (INCLUDES LOCK) (2 VALVE)			8	8	8		6					

1.8000 VALVE AND INJECTOR OPERATING MECHANISM

PART			TYPES											
..FIG	..NUMBER	NAME AND DESCRIPTION	1 8 2	1 8 5	1 8 6	1 8 7	1 8 8	1 9 2	1 9 3	2 0 3	2 0 4	2 7 0	2 8 4	2 8 7
1.8320 - GUIDE, EXHAUST VALVE														
A VALVE GUIDE KIT INCLUDES 1-5131961 GUIDE AND 1-8921741 SEAL. INSTALLER (PKG) CONSISTS OF 100 PIECES.														
9C	5131961	GUIDE (4 VALVE)	12	12				12	8	12	24	16	12	16
9B	5129919	GUIDE (2 VALVE)			8	8	8							
	5198529	KIT, VALVE GUIDE AND SEAL (4 VALVE)	12	12				12		12	24	16	12	12
9C	8921741	SEAL, VALVE GUIDE (4 VALVE)	12	12				12		12	24	16	12	12
9B	8921209	SEAL, VALVE GUIDE (2 VALVE)			8	8	8		8					
	5199912	INSTALLER, EXHAUST VALVE SEAL (4 VALVE)	AR	AR				AR		AR	AR	AR	AR	AR
	5199913	INSTALLER, EXHAUST VALVE SEAL (2 VALVE)			AR	AR	AR		AR					
1.8330 - INSERT, EXHAUST VALVE														
9C	8921501	INSERT (STANDARD) (4 VALVE)	12	12				12	8	12	24		16	12
9B	5116196	INSERT (STANDARD) (2 VALVE)			8	8	8		8					
9C	5196752	INSERT (.010" O.S. O.D.) (4 VALVE)	AR	AR				AR		AR	AR	AR	AR	AR
9B	5196751	INSERT (.010" O.S. O.D.) (2 VALVE)			AR	AR	AR		AR					
9C	8921502	INSERT (MULTIFUEL) (4 VALVE)										16		12
1.8340 - SPRING, EXHAUST VALVE														
9C	5147424	SPRING (SOLID RED COLOR) (4 VALVE)	12	12						12	24	16	16	
9B	5116140	SPRING (2 VALVE)			8	8	8		6					
9C	5144019	% SPRING (RED AND GREEN STRIPE) % 5144019 SPRING MUST BE USED WITH 5126929, 5126930, 5126931 AND 5126932 HI-LIFT CAMSHAFTS ON 4 VALVE ENGINES.						12						24
1.8343 - BRIDGE, EXHAUST VALVE														
9C	5135262	BRIDGE	6	6				6		6	12	8	8	12
1.8350 - CAP, EXHAUST VALVE SPRING														
9C	5123330	CAP (4 VALVE)	12	12				12		12	24	16	16	24
9B	5111338	CAP (2 VALVE)			8	8	8		6					
1.8360 - SEAT, EXHAUST VALVE SPRING														
9C	5111467	SEAT (.063" THICK) (4 VALVE)	12	12				12		12	24	16	16	24
9B	5116243	SEAT (2 VALVE)			8	8	8		6					
1.8370 - LOCK, EXHAUST VALVE SPRING														
9C	5116341	LOCK (HALVES) (4 VALVE)	24	24				24		24	48	32	32	48
9B	5111337	LOCK (HALVES) (2 VALVE)			16	16	16		12					

1.8000 VALVE AND INJECTOR OPERATING MECHANISM

PART		NAME AND DESCRIPTION	TYPES				
FIG	NUMBER		2 8 9	2 9 3	2 9 5	3 0 2	3 1 7
		1.8060 - ARM ASSY., EXHAUST VALVE ROCKER					
		INCLUDES ITEMS IN 1.8130, 1.8140, 1.8150 AND 1.8343.					
9A	5135268	ARM ASSY. (RIGHT) (4 VALVE) (ITEM 2)	3	6	6	6	3
9A	5135267	ARM ASSY. (LEFT) (4 VALVE) (ITEM 1)	3	6		6	3
	8927905	ARM ASSY. (LEFT) (4 VALVE) (JAC BRK)			6		
		1.8072 - KIT, HOUSINGS AND ATTACHING PARTS (JACOBS BRAKE)					
	8927912	+ KIT (# 3501)			1		
	10517266	+ HOUSING, OIL SUPPLY (#3501)			2		
	10513762	+ HOUSING, DRONE (#3502)			4		
	10513740	+ HOUSING ASSY. (ATTACHING PARTS) (#2885) (INCLUDES PLUGS, NUTS, CONNECTORS AND SEALS SHOWN IN 1. 8072)			1		
	10513739	+ PLUG (#2328)			4		
	10513738	+ NUT, JAM (#2249)			4		
	10513737	+ CONNECTOR (#2235)			4		
	10513141	+ SEAL (#2236)			4		
	10513101	+ BOLT (#2715)			12		
		+ NOT SERVICED BY DETROIT DIESEL ALLISON DIVISION, PROCURE FROM "THE JACOBS MANUFACTURING CO.", WEST HART FORD, CONNECTICUT. FURNISH THEIR PART NUMBER IN PARENTHESES.					
		1.8080 - ARM ASSY., INJECTOR ROCKER					
		INCLUDES ITEMS IN 1.8110 THRU 1.8150.					
9A	8923543	ARM ASSY.	3	6	6	6	3
		1.8110 - BUSHING INJECTOR ROCKER ARM-LARGE					
9A	5150318	BUSHING	3	6	6	6	3
9A	8924355	BUSHING, .0015" U.S. I.D.	AR	AR	AR	AR	AR
		1.8120 - BUSHING, INJECTOR AND EXHAUST VALVE ROCKER ARM-SMALL					
9A	5150311	BUSHING	3	6	6	6	3
9A	8924354	BUSHING, .0015" U.S. I.D.	AR	AR	AR	AR	AR
		1.8130 - CLEVIS, INJECTOR AND EXHAUST VALVE ROCKER ARM					
9A	5150312	CLEVIS	12	18	18	18	12
		1.8140 - BUSHING, INJECTOR AND EXHAUST VALVE ROCKER ARM CLEVIS					
9A,C	5123700	BUSHING	15	30	30	30	15

1.8000 VALVE AND INJECTOR OPERATING MECHANISM

PART			TYPES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
..FIG ..	NUMBER	NAME AND DESCRIPTION	2 8 9	2 9 3	2 9 5	3 0 2	3 1 7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			</

1.8000 VALVE AND INJECTOR OPERATING MECHANISM

PART			TYPES				
FIG	NUMBER	NAME AND DESCRIPTION	2 8 9	2 9 3	2 9 5	3 0 2	3 1 7
		1.8265 - ROLLER SET, CAM FOLLOWER					
		INCLUDES ROLLER WITH BUSHING AND PIN.					
	8923814	ROLLER SET (STANDARD)	9	18	18	18	9
		1.8300 - GUIDE, CAM FOLLOWER					
9A	5116125	GUIDE	3	6	6	6	3
9A	443603	BOLT, 1/4"-20X3/4" (12.9001)	6	12	12	12	6
9A	103319	LOCKWASHER, 1/4" (12.9200)	6	12	12	12	6
		1.8310 - VALVE, EXHAUST					
9C	5197176	VALVE (INCLUDES LOCK) (4 VALVE)			24	24	12
9C	5199323	VALVE (INCLUDES LOCK) (4 VALVE)	12	24			
		1.8320 - GUIDE, EXHAUST VALVE					
		A VALVE GUIDE KIT INCLUDES 1-5131961 GUIDE AND 1-8921741 SEAL. INSTALLER (PKG) CONSISTS OF 100 PIECES.					
9C	5131961	GUIDE (4 VALVE)	12	12	12	12	12
	5198529	KIT, VALVE GUIDE AND SEAL (4 VALVE)	12	12	12	12	12
9C	8921741	SEAL, VALVE GUIDE (4 VALVE)	12	12	12	12	12
	5199912	INSTALLER, EXHAUST VALVE SEAL (4 VALVE)	AR	AR	AR	AR	AR
		1.8330 - INSERT, EXHAUST VALVE					
9C	8921501	INSERT (STANDARD) (4 VALVE)	12	12	12		
9C	8921502	INSERT (MULTIFUEL) (4 VALVE)		12	12	12	12
9C	5196752	INSERT (.010" O.S. O.D.) (4 VALVE)	AR	AR	AR	AR	AR
		1.8340 - SPRING, EXHAUST VALVE					
9C	5147424	SPRING (SOLID RED COLOR) (4 VALVE)	12			24	12
9C	5144019	% SPRING (RED AND GREEN STRIPE) % 5144019 SPRING MUST BE USED WITH 5126929, 5126930, 5126931 AND 5126932 HI-LIFT CAMSHAFTS ON 4 VALVE ENGINES.		24	24		
		1.8343 - BRIDGE, EXHAUST VALVE					
9C	5135262	BRIDGE	6	12	6	12	6
	10513100	+ BRIDGE (#2871) + NOT SERVICED BY DETROIT DIESEL ALLISON DIVISION, PROCURE FROM "THE JACOBS MANUFACTURING CO.", WEST HART FORD, CONNECTICUT. FURNISH THEIR PART NUMBER IN PARENTHESES.			6		

1.8000 VALVE AND INJECTOR OPERATING MECHANISM

PART			TYPES																
FIG	NUMBER	NAME AND DESCRIPTION	2 8 9	2 9 3	2 9 5	3 0 2	3 1 7												
		1.8350 - CAP, EXHAUST VALVE SPRING																	
9C	5123330	CAP (4 VALVE)	12	24	24	24	12												
		1.8360 - SEAT, EXHAUST VALVE SPRING																	
9C	5111467	SEAT (.063" THICK) (4 VALVE)	12	24	24	24	12												
		1.8370 - LOCK, EXHAUST VALVE SPRING																	
9C	5116341	LOCK (HALVES) (4 VALVE)	24	48	48	48	24												

1.8000A ROCKER COVER

PART		TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	3 6	3 7	3 8	3 9	4 0	4 1	4 2	4 7	5 3	5 4	5 5	5 8
1.8450 - COVER ASSY., ROCKER														
9D	5125349	+ COVER, 2-53 (PLAIN)	1											
9D	5125348	COVER, 2-53 (ITEM 2)(Y-6")		1										
9D	5125356	COVER, 3,6V53 (PLAIN)			1							2		
9D	5125355	COVER, 3,6V53 (ITEM 2)(Y-6")				1					2			
9D	5125353	COVER, 4,8V53 (PLAIN)					1							
9D	5125352	COVER, 4,8V53 (ITEM 2)(Y-6")						1						
9D	5125350	* COVER, 2-53 (ITEM 1)(X-6")(5125348)							1					
9D	5125354	* COVER, 4,8V53(ITEM 1)(X-6")(5125352)								1				
9D	5125357	* COVER, 3,6V53(ITEM 1)(X-6")(5125355)											1	
9D	5127116	* COVER, 4,8V53 (ITEM 1)(X-16.82") (5145366)												1
		* NOT SERVICED, USE PART SHOWN IN PARENTHESES. NOTE: CUSTOMER MUST ALSO INSTALL FLYWHEEL HOUSING BREATHER IF UNIT DOES NOT HAVE ONE.												
		+ NOT SERVICED, USE 5125348 COVER ASSY. AND 5108474 CAP ASSY.												
1.8455 - GASKET, ROCKER COVER														
9D	5147993	GASKET, 2-53	1	1					1					
9D	5147994	GASKET, 3,6V53			1	1					2	2	1	
9D	5147506	GASKET, 4,8V53					1	1		1				
1.8460 - BOLT, ROCKER COVER														
9D	5100104	SCREW ASSY.	4	4	4	4	6	6	2	6	8	8	4	6
1.8500 - PLATE, OPTION AND ACCESSORY NAME														
5104203	* PLATE		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
		* NOT SERVICED BY DDA. FOR REPLACEMENT PLATE CONTACT YOUR LOCAL DISTRIBUTOR AND PROVIDE ENGINE SERIAL NUMBE R.												
1.8502 - RETAINER, ROCKER COVER NAME PLATE														
5178347	RETAINER, NAME PLATE		1	1	1	1	1	1	1	1	2	2	1	1

1.8000A ROCKER COVER

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	6 1	6 2	6 3	6 4	6 5	6 6	6 8	7 0	7 1	7 2	7 3	7 4
1.8450 - COVER ASSY., ROCKER														
9D	5127778	COVER, 3,6V53 (ITEM 4)(Y-8.72",Z-6")	1											
9D	5125356	COVER, 3,6V53 (PLAIN)		1		1								
9D	5127779	COVER, 4, 8V53 (ITEM 4) (Y-8.72", Z-6.02")			1									
9D	5125355	COVER, 3,6V53 (ITEM 2)(Y-6")				1	1							
9D	5127777	COVER, 2-53 (ITEM 4)(Y-3.32",Z-6")						1						
9D	5128373	COVER, 4,8V53 (ITEM 4)(Y-14.12", Z-16.82")							1					
9D	5128372	COVER, 3,6V53 (ITEM 4)(Y-8.72", Z-11.42")					1			1				
9D	5128430	COVER, 3,6V53 (ITEM 3)(Z-11.42")		1							1			
9D	5128429	COVER, 3,6V53 (ITEM 3)(Z-6")										1		
9D	5128432	COVER, 4,8V53 (ITEM 3)(Z-16.82")											1	
9D	5128431	% COVER, 4,8V53 (ITEM 3)(Z-6") % NOT SERVICED. FOR SERVICE USE 5127779 AND 5108474 CAP.												1
1.8455 - GASKET, ROCKER COVER														
9D	5147993	GASKET, 2-53						1						
9D	5147994	GASKET, 3,6V53	1	2		2	2			1	1	1		
9D	5147506	GASKET, 4,8V53			1				1				1	1
1.8460 - BOLT, ROCKER COVER														
9D	5100104	SCREW ASSY.	4	8	6	8	8	4	6	4	4	4	6	6
1.8500 - PLATE, OPTION AND ACCESSORY NAME														
5104203	* PLATE	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	* NOT SERVICED BY DDA. FOR REPLACEMENT PLATE CONTACT YOUR LOCAL DISTRIBUTOR AND PROVIDE ENGINE SERIAL NUMBE R.													
1.8502 - RETAINER, ROCKER COVER NAME PLATE														
5178347	RETAINER, NAME PLATE	1	2	1	2	2	1	1	1	1	1	1	1	1

1.8000A ROCKER COVER

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	7 7	7 8	8 0	8 2	8 6	8 7	8 8	9 7	1 0 3	1 0 6	1 0 7	1 0 8
1.8450 - COVER ASSY., ROCKER														
9D	5162981	COVER, 4,8V53 (ITEM 4)(Y-2.46", Z-16.82")	1											
9D	5100526	COVER, 3,6V53 (ITEM 2) (Y-6.02")		1						1				
9D	5132442	+ COVER, 3,6V53 (PLAIN)		1						1				
9D	5128372	COVER, 3,6V53 (ITEM 4)(Y-8.72", Z-11.42")			1									
9D	5125356	COVER, 3,6V53 (PLAIN)			1			1	1					
9D	5170503	COVER, 3,6V53 (ITEM 3, TOP OUTLET) (Z-6")				1								
9D	5125355	COVER, 3,6V53 (ITEM 2)(Y-6")				1		1						
9D	5130408	COVER, 3,6V53 (ITEM 3)(Z-11.42")					1	1						
9D	5100519	COVER, 3,6V53 (ITEM 4)(Y-8.72",Z-6")							1					
9D	5125352	COVER, 4,8V53 (ITEM 2)(Y-6")									1			
9D	5125353	COVER, 4,8V53 (PLAIN)												1
9D	5128373	COVER, 4,8V53 (ITEM 4)(Z-14.12", Z-16.82")									1			1
9D	5128432	COVER, 4,8V53 (ITEM 3)(Z-16.82") + NOT SERVICED. USE 5109384 AND 5178347.										1	1	1
1.8455 - GASKET, ROCKER COVER														
9D	5147506	GASKET, 4,8V53	1								2	1	2	2
9D	5147994	GASKET, 3,6V53		2	2	2	2	2	2	2				
1.8460 - BOLT, ROCKER COVER														
9D	5100104	SCREW ASSY.	6	8	8	8	8	8	8	8	12	6	12	12
1.8500 - PLATE, OPTION AND ACCESSORY NAME														
5104203	* PLATE		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	* NOT SERVICED BY DDA. FOR REPLACEMENT PLATE CONTACT YOUR LOCAL DISTRIBUTOR AND PROVIDE ENGINE SERIAL NUMBE R.													
1.8502 - RETAINER, ROCKER COVER NAME PLATE														
5178347	RETAINER, NAME PLATE		1	2	2	1	1	2	2	2	2	1	2	2

1.8000A ROCKER COVER

			TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	1 0 9	1 1 0	1 1 4	1 1 5	1 2 0	1 2 1	1 3 2	1 6 7	1 7 1	1 8 1	1 8 3	1 8 5
1.8450 - COVER ASSY., ROCKER														
9D	5132442	= COVER, 3,6V53 (PLAIN)	1											
9D	5125356	COVER, 3,6V53 (PLAIN)		1							2			
9D	5125355	COVER, 3,6V53 (ITEM 2)(Y-6")											1	
9D	5125352	COVER, 4,8V53 (ITEM 2)(Y-6")						1						
9D	5125353	COVER, 4,8V53 (PLAIN)								1			1	
9D	5128373	COVER, 4,8V53 (ITEM 4)(Z-14.12", Z-16.82")											1	
9D	5128432	COVER, 4,8V53 (ITEM 3)(Z-16.82")					1	1				1		
9D	5100526	COVER, 3,6V53 (ITEM 2)(Y-6.02")	1											
	5136616	# COVER, 3, 6V53 (FILLER ON END)							1					
9D	5127779	COVER, 4, 8V53 (ITEM 4) (Y-8.72", Z-6.02")										1		
9D	5140525	* COVER ASSY., 3, 6V53 (INCLUDES PIN AND OIL FILLER CAP) (ITEM 4) (Y-8.72", Z-11.42")		1										
9D	5134106	@ COVER ASSY., 3,6V53 (INC. PIN AND OIL FILLER CAP)(Y-8.72",Z-16.82")			1									
9D	5145916	& COVER ASSY., 3, 6V53 (INCLUDES PIN AND OIL FILLER CAP) (ITEM 4) (Y-8.72", Z-11.42")												
9D	5145917	% COVER ASSY., 3,6V53					1							
9D	5140259	CAP (W/CHAIN)(4.5010)	1	1		2								
	108630	PIN, 1/8"X7/8" COTTER (12.9250)	1	1	1									
		# INCLUDES ITEMS IN 4.5000A,TYPE 86.												
		* NOT SERVICED, USE 5135046 COVER PLUS (1) 5140259 CAP.												
		@ NOT SERVICED, USE 5134069 COVER PLUS (1) 5140259 CAP.												
		& OBSOLETE.												
		% NOT SERVICED, USE 5135046 COVER PLUS SIDE 5108474 CAP.												
		= NOT SERVICED, USE 5109384 AND 5178347.												
1.8455 - GASKET, ROCKER COVER														
9D	5147506	GASKET, 4,8V53					1	2		1		2	2	
9D	5147994	GASKET, 3,6V53	2	2	1	2			1		2			1
1.8460 - BOLT, ROCKER COVER														
9D	5100104	SCREW ASSY.	8	8	4	8	6	12	4	6	8	12	12	4
1.8500 - PLATE, OPTION AND ACCESSORY NAME														
	5104203	* PLATE	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
		* NOT SERVICED BY DDA. FOR REPLACEMENT PLATE CONTACT YOUR LOCAL DISTRIBUTOR AND PROVIDE ENGINE SERIAL NUMBE R.												
1.8502 - RETAINER, ROCKER COVER NAME PLATE														
	5178347	RETAINER, NAME PLATE	2	2	1	2	1	2	1	1	2	2	2	1

1.8000A ROCKER COVER

PART ..FIG .. NUMBER .. NAME AND DESCRIPTION ..			TYPES													
			2 0 7	2 1 5	2 1 6	2 2 4	2 3 9	2 7 9	2 8 1	3 0 1	3 1 0	3 1 1	4 0 2	4 5 4	4 7 2	4 7 4
1.8450 - COVER ASSY., ROCKER																
9D	5145366	COVER, 4.8V53 (ITEM 2)(Y-6.02")	1													
9D	5125352	COVER, 4.8V53 (ITEM 2)(Y-6")		1		1										
9D	5128373	COVER, 4.8V53 (ITEM 4)(Y-14.12", Z-16.82")		1												
	5144964	+ COVER, 4.8V53 (BREATHER PLUS FILLER)			1											
	5144961	% COVER, 4.8V53 (BREATHER PLUS FILLER)			1											
9D	5128432	COVER, 4.8V53 (ITEM 3)(Z-16.82")				1						1				
9D	5145882	COVER, 4.8V53 (CENTER BREATHER HOLE) (FILLER 16.82") (ITEM 2) (Y-16.82")					1									
9D	5125356	COVER, 3.6V53 (PLAIN)					2			1						
9D	8921599	COVER, 3.6V53 (ITEM 3) (Z-8.72") (CENTER BREATHER HOLE)						1								
9D	5103244	COVER, 6V53 (CENTER BREATHER HOLE) (ITEM 1) (X-8.72")							1				1	1	1	1
	5101343	COVER, 6V53 (BREATHER PLUS FILLER)											1		1	1
9D	5128430	COVER, 3.6V53 (ITEM 3) (2-11.42") + NOT SERVICED. FOR SERVICE USE 5127779, 1-5131952 SHELL AND 1-5184587 TUBE. % NOT SERVICED. FOR SERVICE USE 5128373, 1-5131952 AND 5184587 TUBE.						1	1		1		1			
1.8455 - GASKET, ROCKER COVER																
9D	5147506	GASKET, 4.8V53	1	2	2	2	2			1		1				
9D	5147994	GASKET, 3.6V53						2	2		1		2	1	1	2
1.8460 - BOLT, ROCKER COVER																
9D	5100104	SCREW ASSY.	6	12	12	12	12	8	4	6	6	8		4	4	8
1.8500 - PLATE, OPTION AND ACCESSORY NAME																
	5104203	* PLATE	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
		* NOT SERVICED BY DDA. FOR REPLACEMENT PLATE CONTACT YOUR LOCAL DISTRIBUTOR AND PROVIDE ENGINE SERIAL NUMBE R.														
1.8502 - RETAINER, ROCKER COVER NAME PLATE																
	5178347	RETAINER, NAME PLATE	1	2	2	2	2	2	2	1	1	1	1	1	1	1

1.8000A ROCKER COVER

			TYPES										
FIG	PART NUMBER	NAME AND DESCRIPTION	476	477	482	487	488	499	516	517	519	520	521
1.8450 - COVER ASSY., ROCKER													
	8921467	COVER, 3, 6V53 (CENTER BREATHER HOLE)	1	1									
9D	5106218	COVER, 6V53 (RB) (CENTER BREATHER HOLE) (ITEM 1) (X-8.72")		1	1								
	8922425	COVER, 6V53 (LB) (CENTER BREATHER HOLE)			1								
9D	5125356	COVER, 3-53 (PLAIN)				1							1
9D	5135046	COVER, 3-53 (ITEM 4) (Y-8.72", Z-11.42")				1							
9D	8923510	COVER, 4-53 (ITEM 4) (Y-14.12", Z-6.02")					1						
9D	8924737	COVER, 4-53 (ITEM 2) (Y-20.38")						1					
9E	8925269	COVER, 3, 6V53 (CAST ALUM.; W/BREATHER HOLE)							1		1		
9E	8925270	COVER, 3, 6V53 (CAST ALUM.; W/BREATHER AND OIL FILLER HOLE)								1	1		
9E	8925272	COVER, 4-53 (CAST ALUM.; W/BREATHER AND OIL FILLER TUBE)										1	
	5103244	COVER, 6V53 (W/BREATHER HOLE)											1
1.8455 - GASKET, ROCKER COVER													
9D	5147994	GASKET, 3, 6V53	1	2	2	2							2
9D	5147506	GASKET, 4-53					1	1					
9E	8925273	GASKET, 3-53 (CAST COVER)							1	1	2		
	8925274	GASKET, 4-53 (CAST COVER)										1	
1.8460 - BOLT, ROCKER COVER													
9D	5100104	SCREW ASSY.	4	8	8	8	6	6					8
9E	8925277	BOLT, 3/8"-16X3.060" 12 PT.							2	2	4	2	
9E	5104514	WASHER, SPECIAL							2	2	4	2	
9E	8925275	BRACKET, ROCKER COVER HOLD DOWN (R.H.)							1	1	2	1	
9E	8925276	BRACKET, ROCKER COVER HOLD DOWN (L.H.)							1	1	2	1	
1.8461 - ISOLATOR, ROCKER COVER BOLT													
9E	5104515	ISOLATOR							2	2	4	2	
1.8500 - PLATE, OPTION AND ACCESSORY NAME													
	5104203	* PLATE	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	
		* NOT SERVICED BY DDA. FOR REPLACEMENT PLATE CONTACT YOUR LOCAL DISTRIBUTOR AND PROVIDE ENGINE SERIAL NUMBER.											
1.8502 - RETAINER, ROCKER COVER NAME PLATE													
	5178347	RETAINER	1	1	1	1	1	1					1
9E	8925426	RETAINER							2	2	2	2	
9E	145382	SCREW, #8X3/8" DRIVE (12.9067)							4	4	4	4	

GROUP NOMENCLATURE

1.0000	ENGINE (less major assemblies)	5.0000	COOLING SYSTEM (CONT'D)
1.1000	Cylinder Block	5.3000A	Water Connections
1.1000A	Air Box Drains	5.4000A	Fan
1.2000	Cylinder Head	5.4000B	Fan Shroud
1.2000A	Engine Lifter Bracket	5.5000A	Heat Exchanger or Keel Cooling
1.3000	Crankshaft, Oil Seals and Stabilizers	5.6000A	Raw Water Pump
1.3000A	Crankshaft Front Cover	5.7000A	Water Filter
1.3000B	Vibration Damper		
1.3000C	Crankshaft Pulley	6.0000	EXHAUST SYSTEM
1.3000D	Crankshaft Pulley Belt	6.1000A	Exhaust Manifold and/or Connections
1.4000A	Flywheel	6.2000A	Exhaust Muffler and/or Connections
1.5000A	Flywheel Housing		
1.5000B	Flywheel Housing Adaptor	7.0000	ELECTRICAL INSTRUMENTS
1.6000	Connecting Rod and Piston	7.1000A	Battery Charging Generator
1.7000	Camshaft and Gear Train	7.2000A	Battery Cables
1.7000A	Balance Weight Cover	7.2000B	Automatic Starting
1.7000C	Accessory Drive	7.2000E	Automatic Starting (Twin and Quad)
1.8000	Valve Injector Operating Mechanism	7.3000A	Starting Motor
1.8000A	Rocker Cover	7.4000A	Instruments
		7.4000A	Instruments (Twin and Quad)
2.0000	FUEL SYSTEM	7.4000E	Tachometer Drive
2.1000A	Fuel Injector	7.4000E	Tachometer Drive (Twin and Quad)
2.1000B	Electronic Injector Controls	7.4000C	Shutoff, Alarm and O.S. Governor
2.2000	Fuel Pump	7.4000C	Shutoff, Alarm and O.S. Governor (Twin and Quad)
2.2000A	Fuel Pump Drain	7.5000A	Power Generator
2.3000A	Fuel Filter and Strainer	7.6000A	Control Cabinet
2.3000A	Fuel Filter and Strainer (Twin and Quad)	7.6000A	Control Cabinet (Twin and Quad)
2.4000	Fuel Manifold and/or Connections	7.7000A	Wiring Harness
2.4000A	Dual Fuel System	7.8000A	Air Heater
2.5000A	Fuel Lines and Fuel Cooler	7.8000A	Air Heater (Twin and Quad)
2.5000A	Fuel Lines and Fuel Cooler (Twin and Quad)	7.1000QA	Hydraulic Governor Solenoid
2.6000A	Fuel Tank		
2.6000B	Electric Governor	8.0000	POWER TAKE-OFF
2.7000A	Mechanical Governor	8.1000A	Power Take-off and/or Clutch
2.8000A	Hydraulic Governor	8.1000A	Power Take-off and/or Clutch (Twin and Quad)
2.9000	Injector Controls	8.3000A	Torque Converter
2.9000	Injector Controls (Twin and Quad)	8.3000A	Torque Converter (Twin and Quad)
2.9000A	Throttle Controls	8.3000B	Transmission Lines
2.9000A	Throttle Controls (Twin and Quad)		
3.0000	AIR SYSTEM	9.0000	TRANSMISSION AND PROPULSION
3.1000A	Air Cleaner and/or Adaptor	9.1000A	Hydraulic Marine Gear
3.2000A	Air Silencer	9.1000A	Hydraulic Marine Gear (Twin and Quad)
3.3000A	Air Inlet Housing	9.2000A	Reverse and Reduction Gear (mechanical)
3.3000C	Air Intake Manifold	9.3000A	Power Transfer Gear
3.4000	Blower and Drive	9.3000A	Power Transfer Gear (Twin and Quad)
3.4000A	Blower Drive Shaft	9.4000	Transmission—Highway
3.4000B	Blower End Plate Cover	9.7000	Transmission—Off-Highway
3.5000A	Turbocharger, Intercooler, and Aftercooler	9.9000	Transmission—Rail Car
4.0000	LUBRICATING SYSTEM	10.0000	SHEET METAL
4.1000A	Oil Pump	10.1000A	Engine Hood
4.1000B	Oil Distribution System		
4.1000C	Oil Pressure Regulator	11.0000	ENGINE MOUNTING
4.2000A	Oil Filter	11.1000A	Engine Mounting and Base
4.3000A	Oil Filter Lines	11.1000A	Engine Mounting and Base (Twin and Quad)
4.4000A	Oil Cooler and Marine Gear Lines		
4.5000A	Oil Filter	12.0000	MISCELLANEOUS
4.6000A	Dipstick	12.2000A	Bilge Pump
4.7000A	Oil Pan	12.3000A	Vacuum Pump
4.8000A	Ventilating System	12.4000A	Air Compressor
5.0000	COOLING SYSTEM	12.5000A	Hydraulic Pump
5.1000	Fresh Water Pump	12.6000A	Gasoline Starter
5.1000A	Fresh Water Pump Cover	12.6000B	Air Starter
5.2000A	Water Outlet Manifold and/or Elbow	12.6000C	Cold Weather Starting Aid
5.2000B	Thermostat	12.6000D	Hydraulic Starter
5.2000C	Water Bypass Tube	12.6000E	Hydraulic Starter Accessories
5.3000A	Radiator	12.8000A	Supplies
		12.8000B	Fabrication Material
		12.8000C	Miscellaneous Service Kits and Sets
		12.8000D	Miscellaneous Service Parts

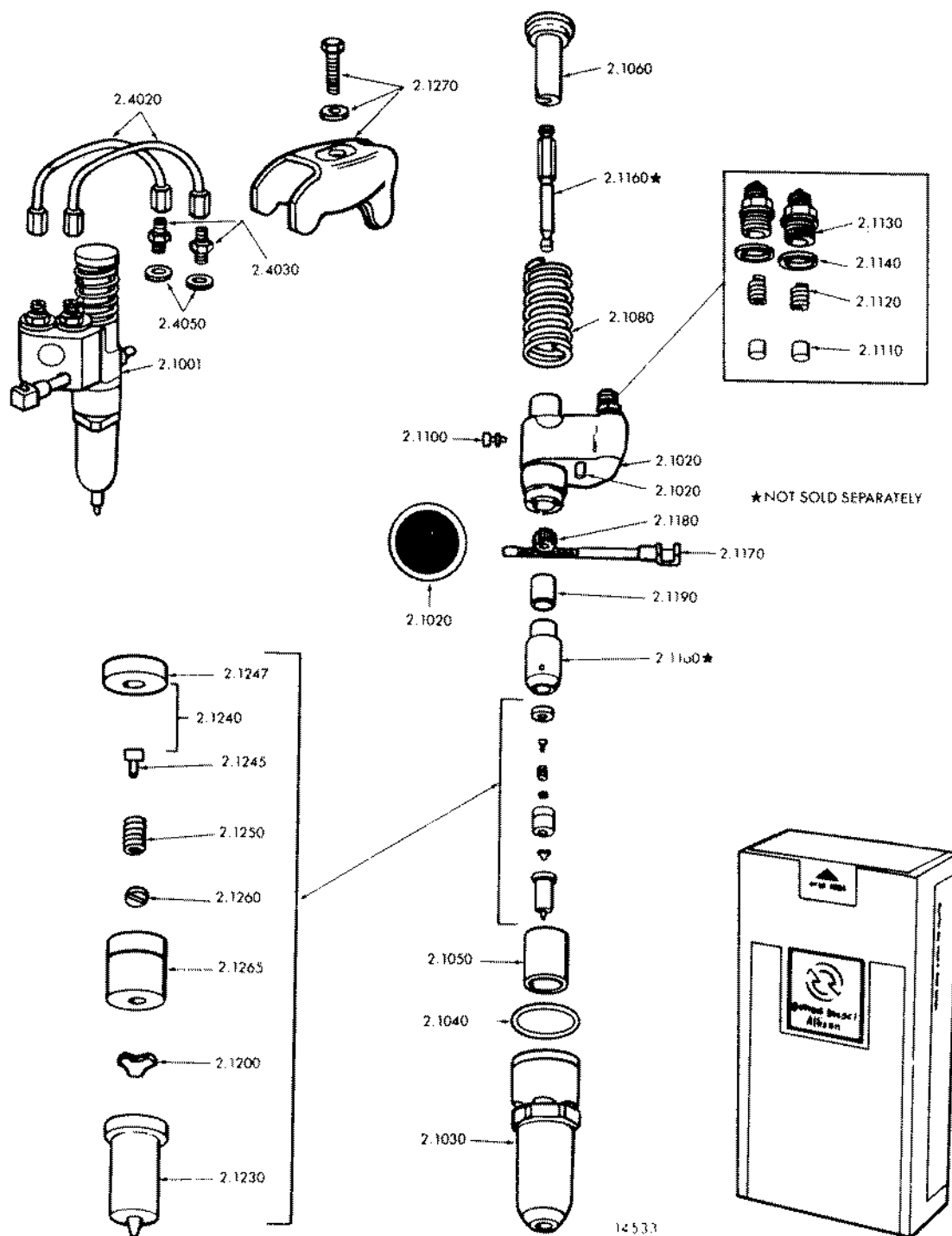


FIG. 1A FUEL INJECTOR

Fig. 1A of 2.0000

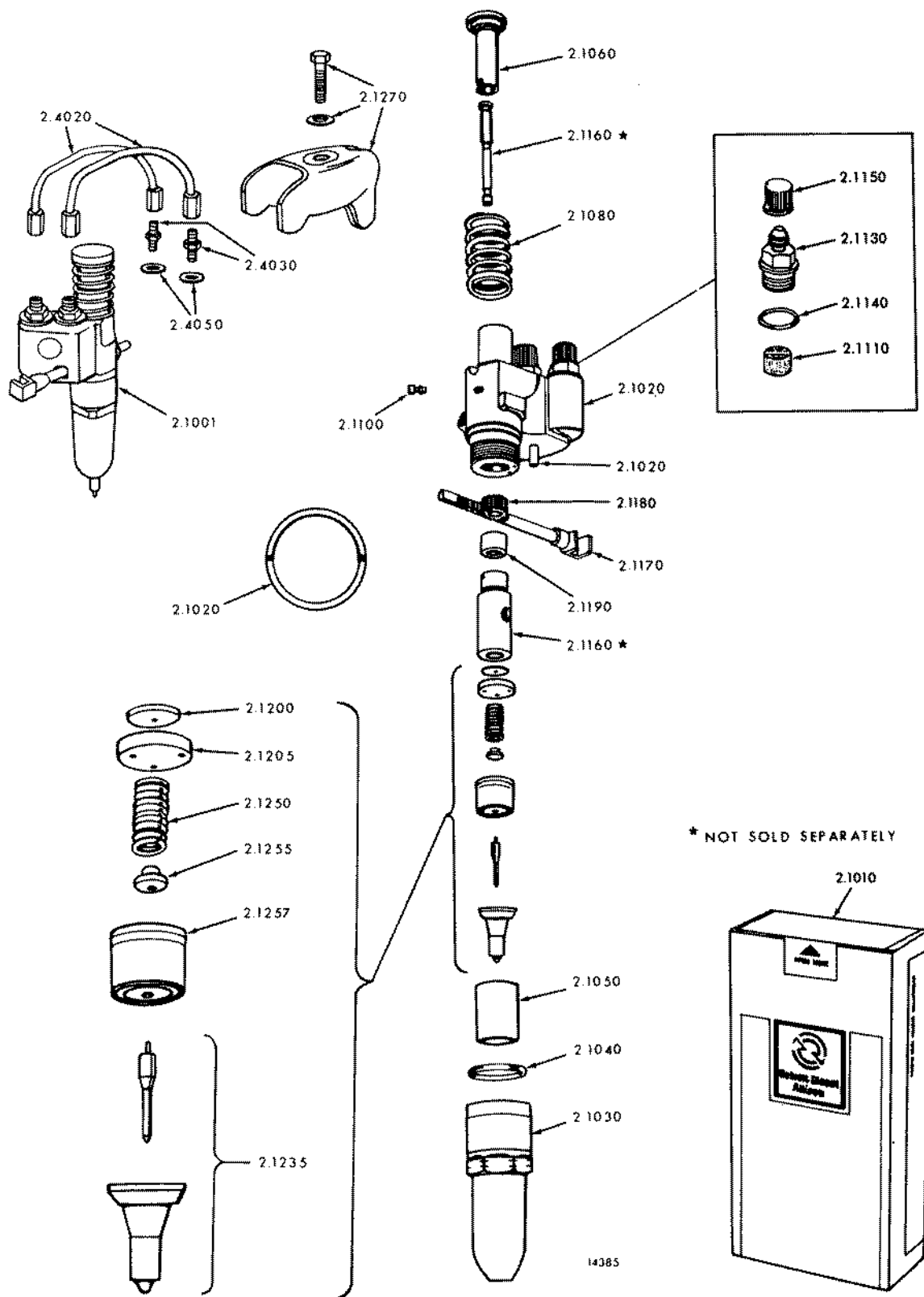


FIG. 1B FUEL INJECTOR

Fig. 1B of 2.0000

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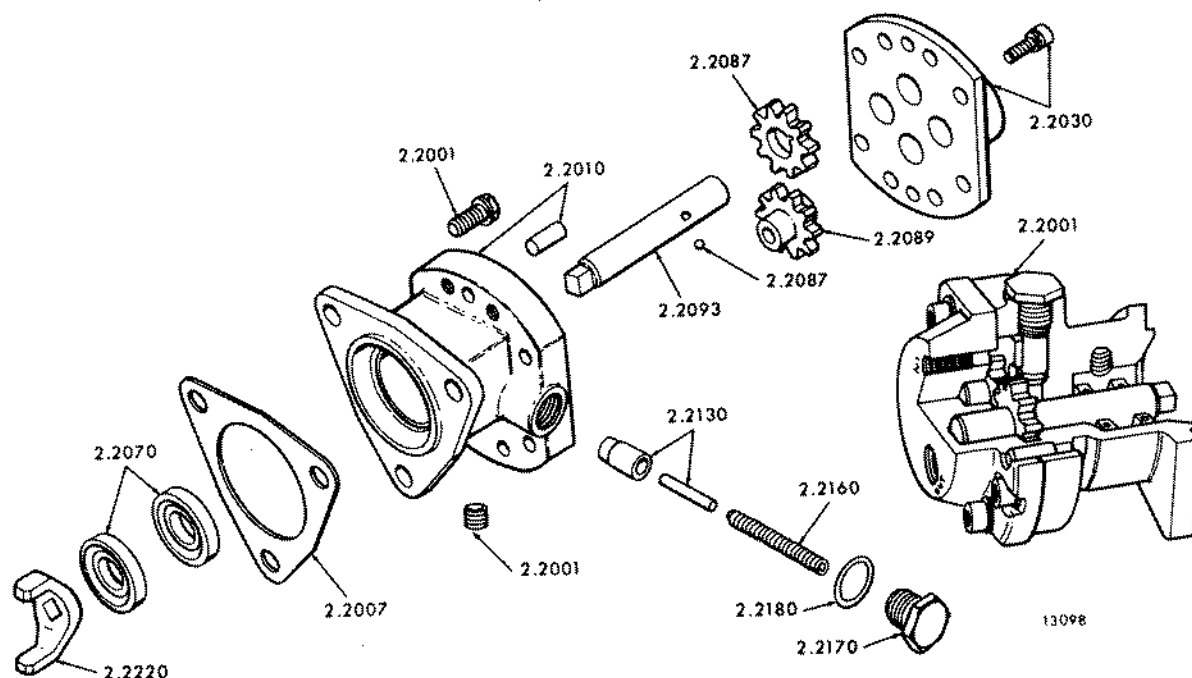


FIG. 2A FUEL PUMP

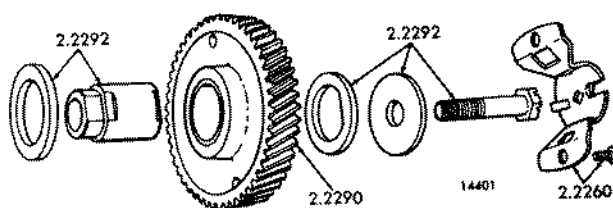


FIG. 2B FUEL PUMP DRIVE

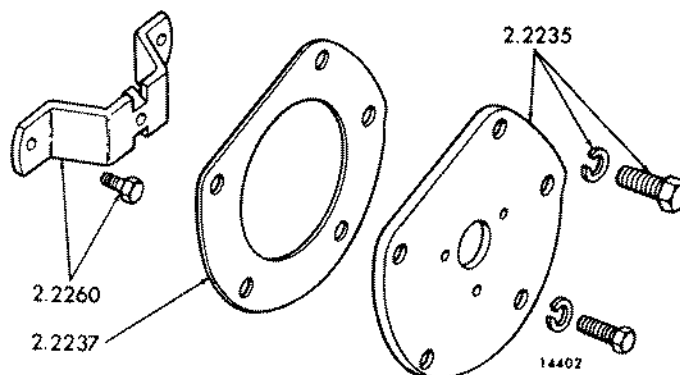


FIG. 2C - FUEL PUMP DRIVE

Figs. 2A, 2B & 2C of 2.0000

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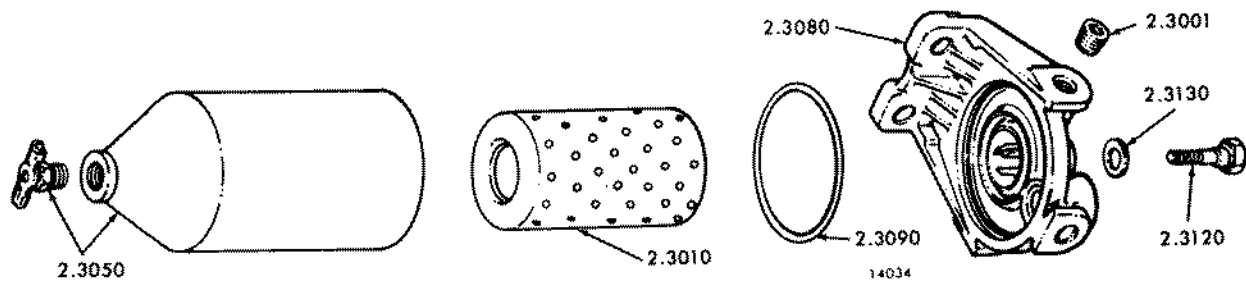


FIG. 3A FUEL STRAINER (COTTON WOUND ELEMENT)

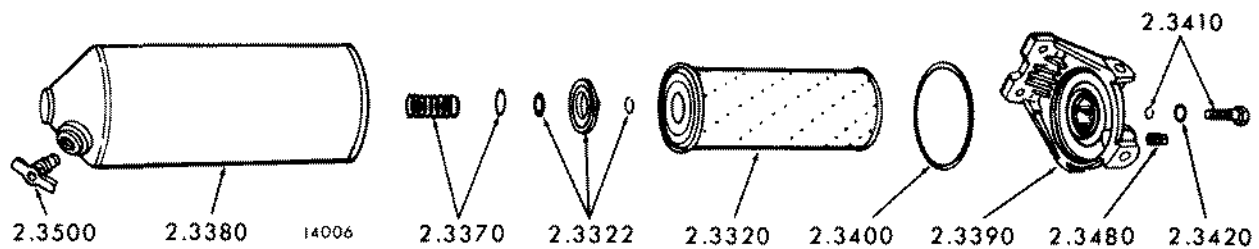


FIG. 3B FUEL FILTER (CANISTER TYPE ELEMENT)

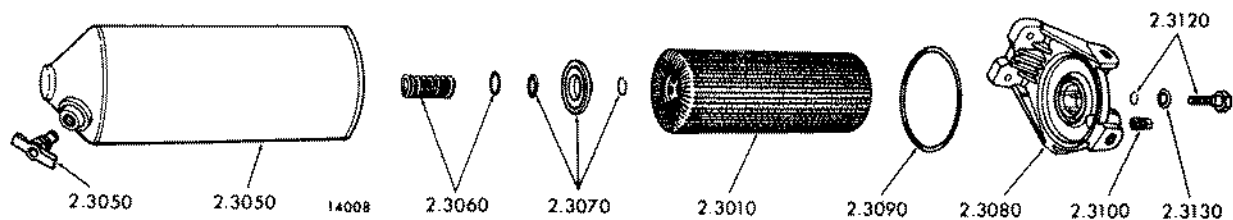


FIG. 3C FUEL STRAINER (STOCK TYPE ELEMENT)

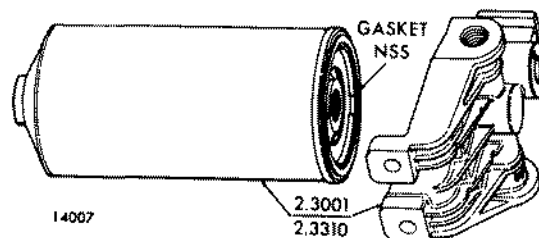


FIG. 3D FUEL STRAINER, FUEL FILTER (SPIN-ON)

Figs. 3A, 3B, 3C & 3D of 2.0000

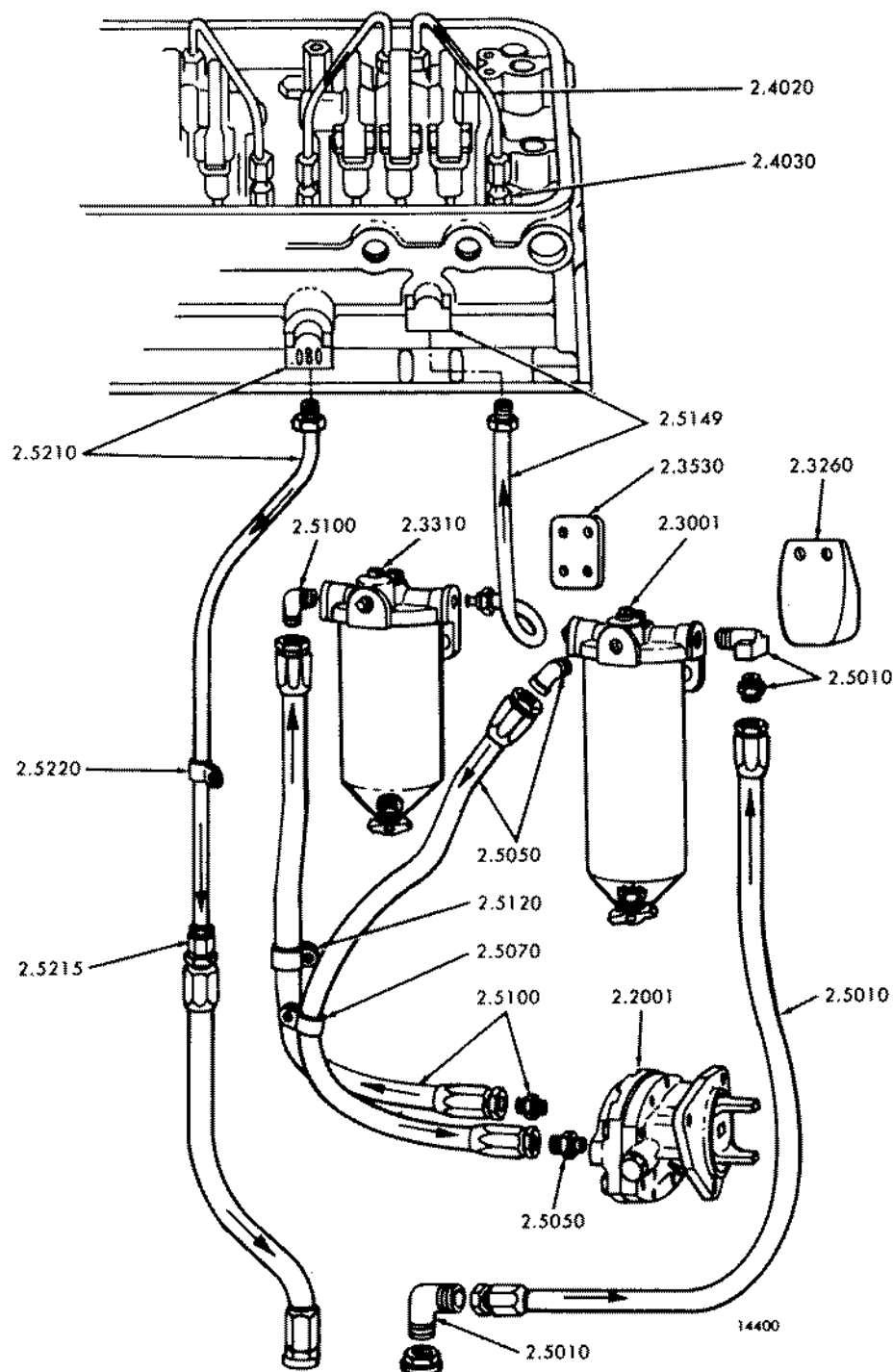


FIG. 4A TYPICAL FUEL SYSTEM (IN-LINE MODELS)

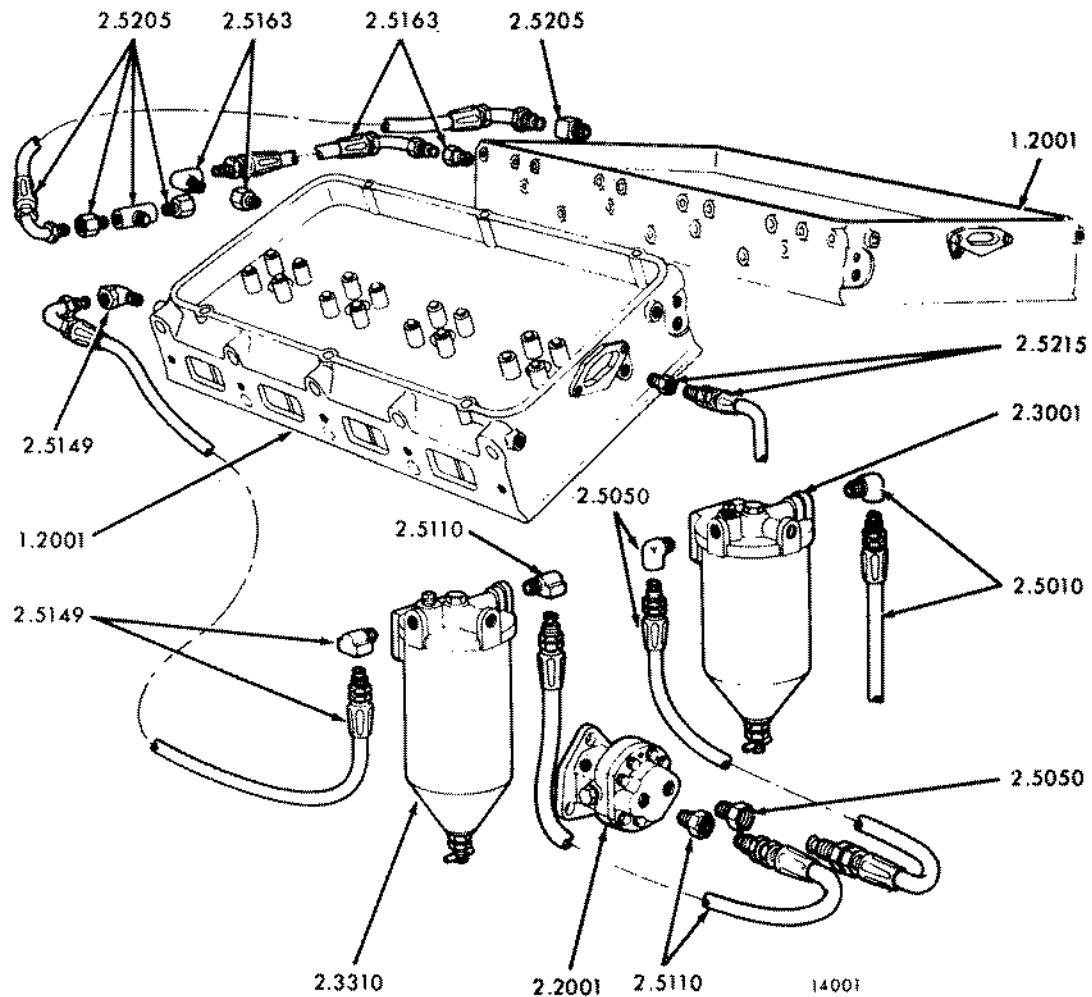


FIG. 4B TYPICAL FUEL SYSTEM (V-MODELS)

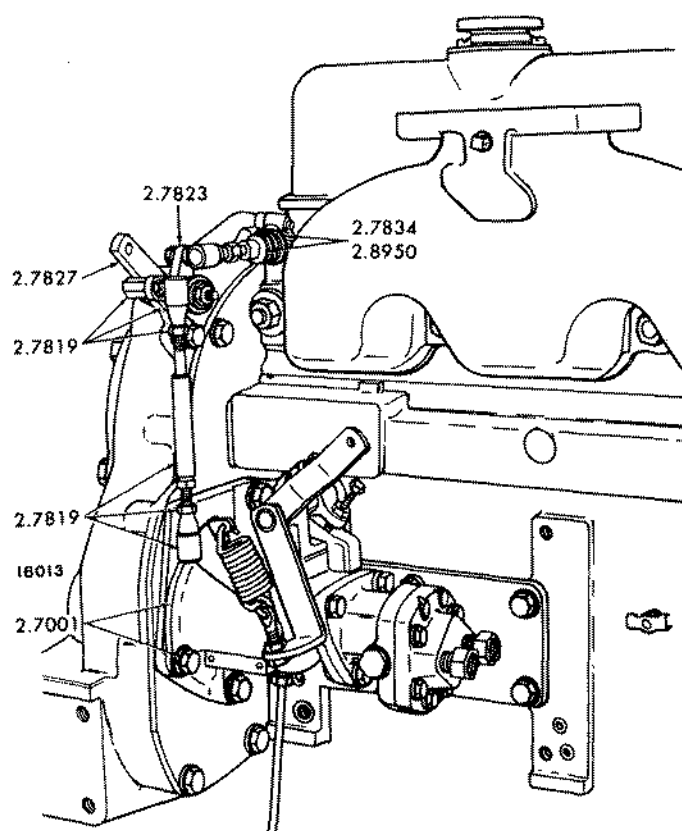


FIG. 5A GOVERNOR (PIERCE)

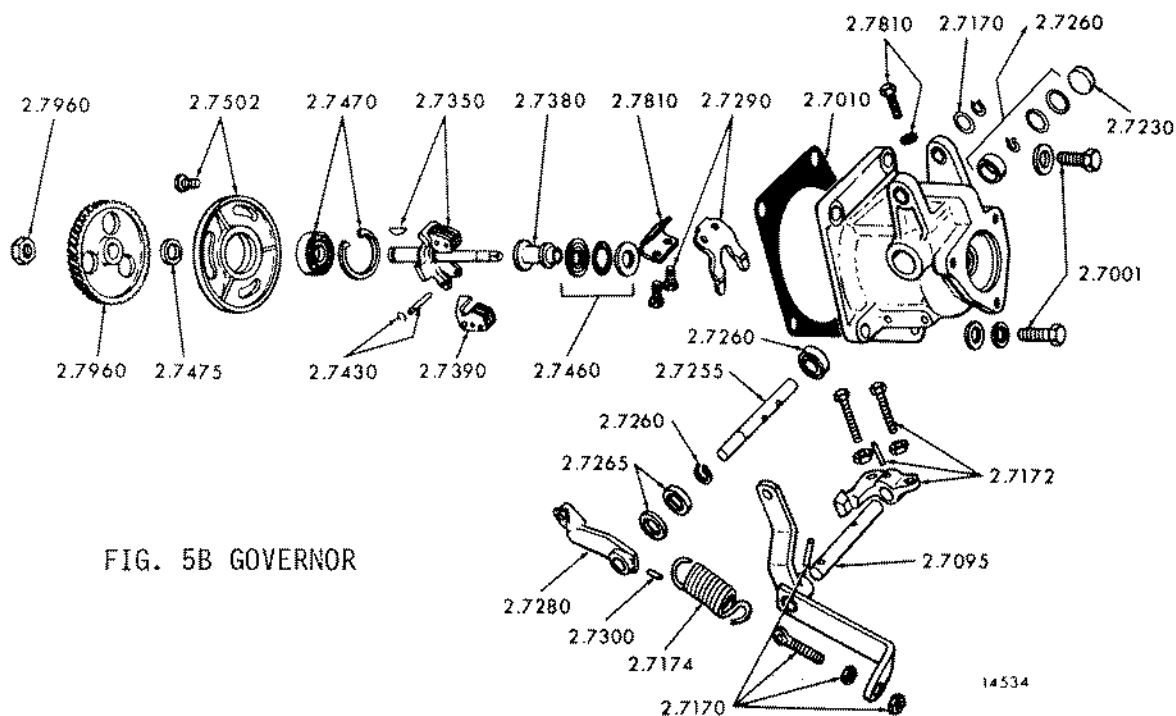


FIG. 5B GOVERNOR

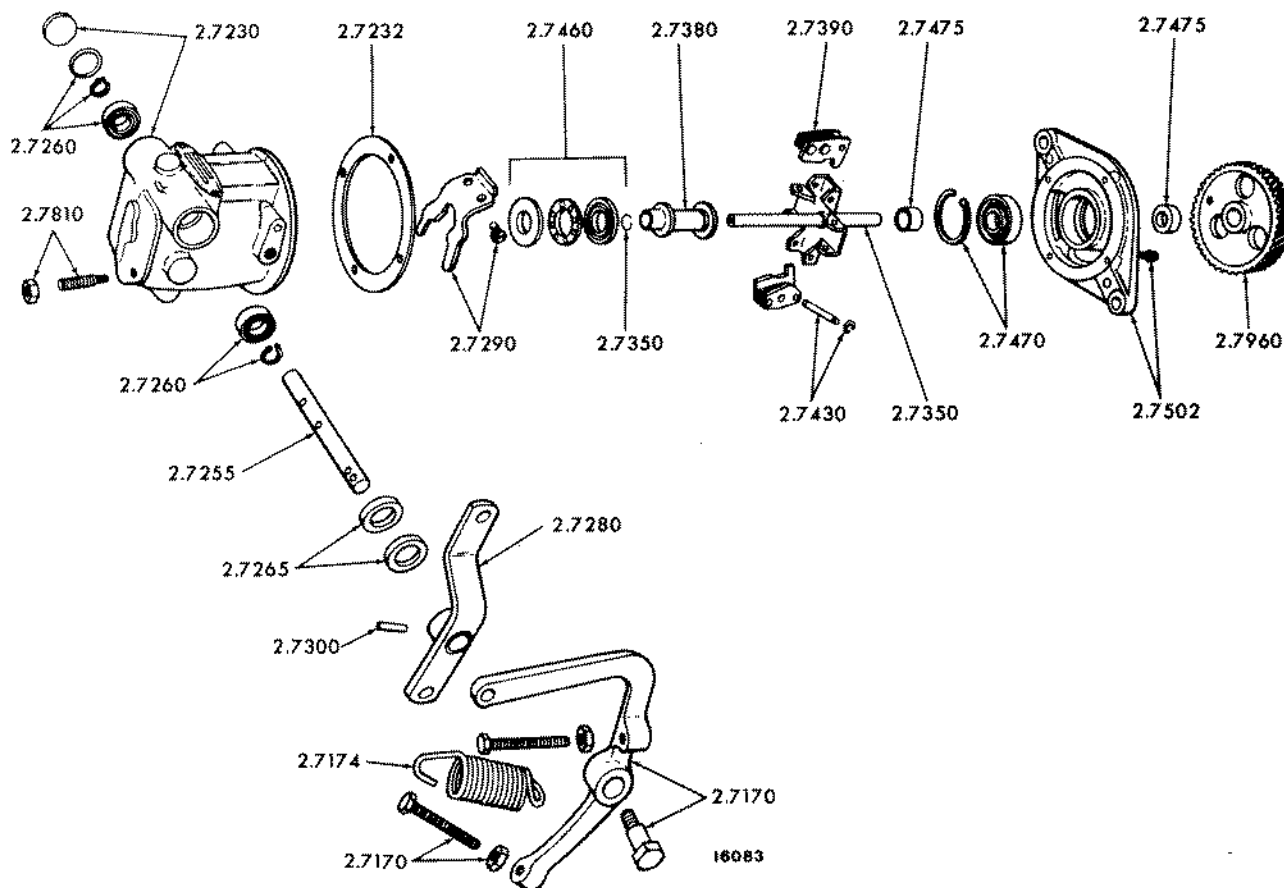


FIG. 5C GOVERNOR

Figs. 5B & 5C of 2.0000

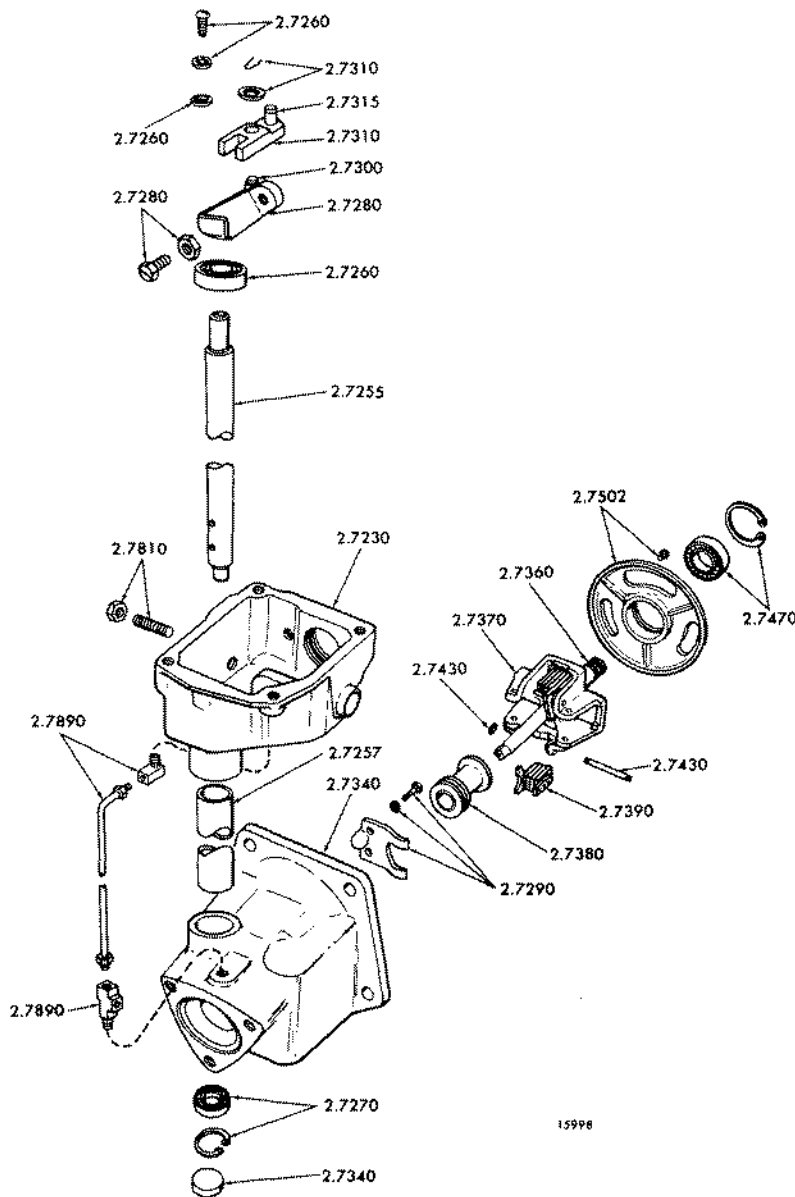


FIG. 5D - MECHANICAL GOVERNOR HOUSING
WEIGHTS AND LEVER
(3, 4 Cylinder Engine)

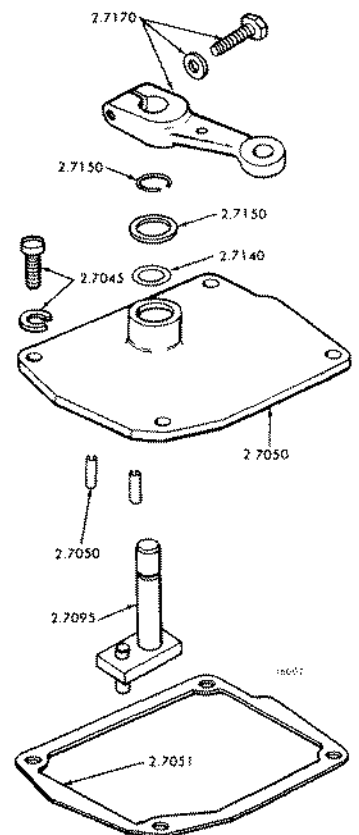


FIG. 5E - MECHANICAL GOVERNOR COVER
(SINGLE LEVER)

Figs. 5D & 5E of 2.0000

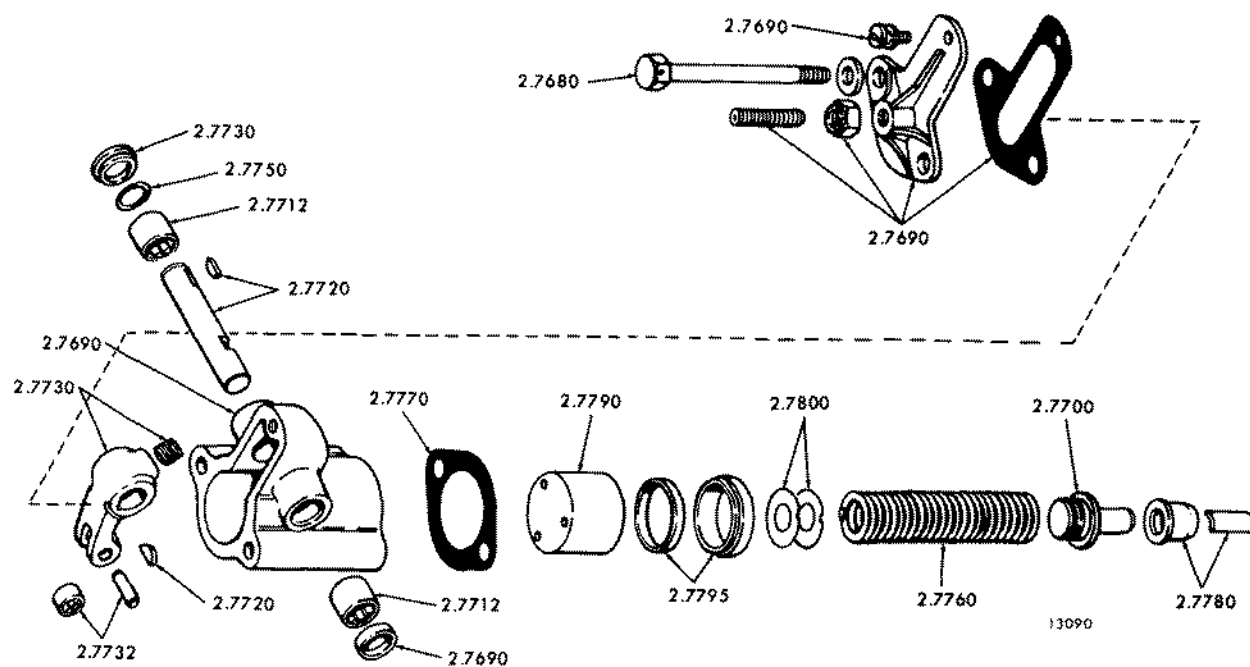


FIG. 5F VARIABLE SPEED GOVERNOR SPRING AND HOUSING

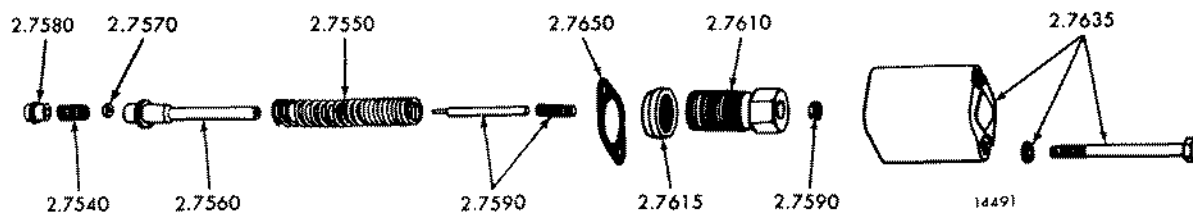


FIG. 5G LIMITING SPEED GOVERNOR SPRING AND HOUSING

Figs. 5F & 5G of 2.0000

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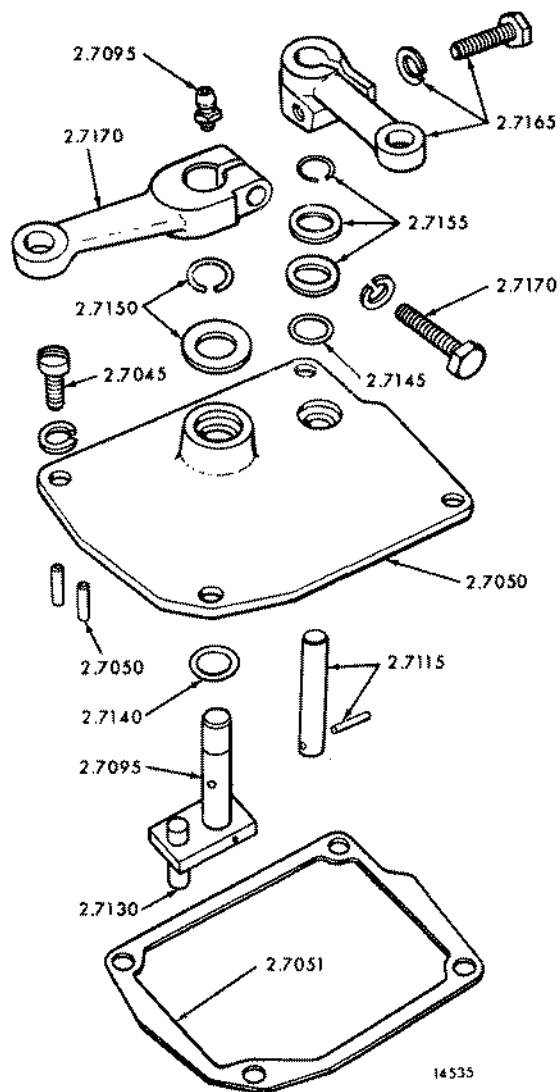


FIG. 5H MECHANICAL GOVERNOR COVER (DOUBLE LEVER)

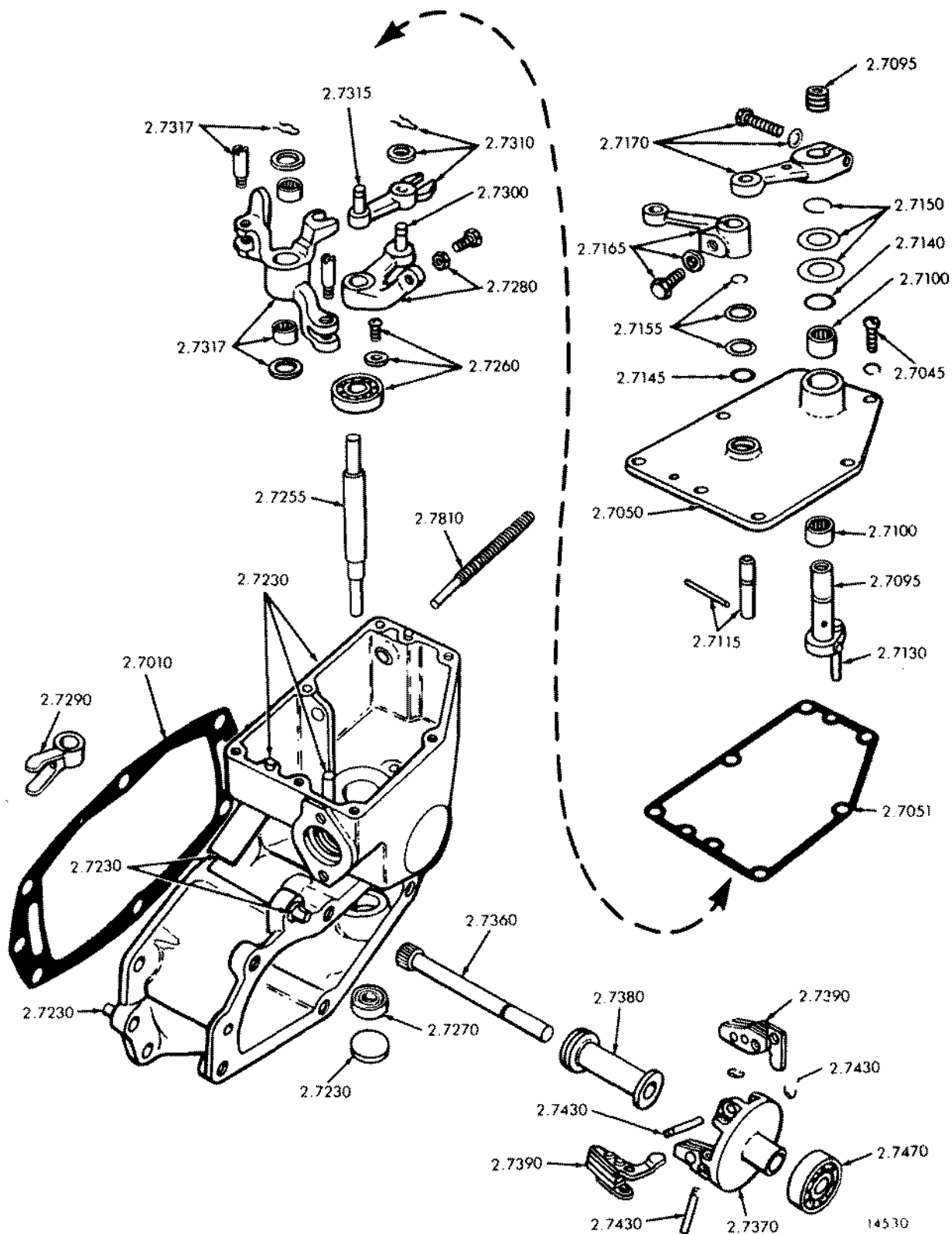


FIG. 5J MECHANICAL GOVERNOR (6V)

Fig. 5J of 2.0000

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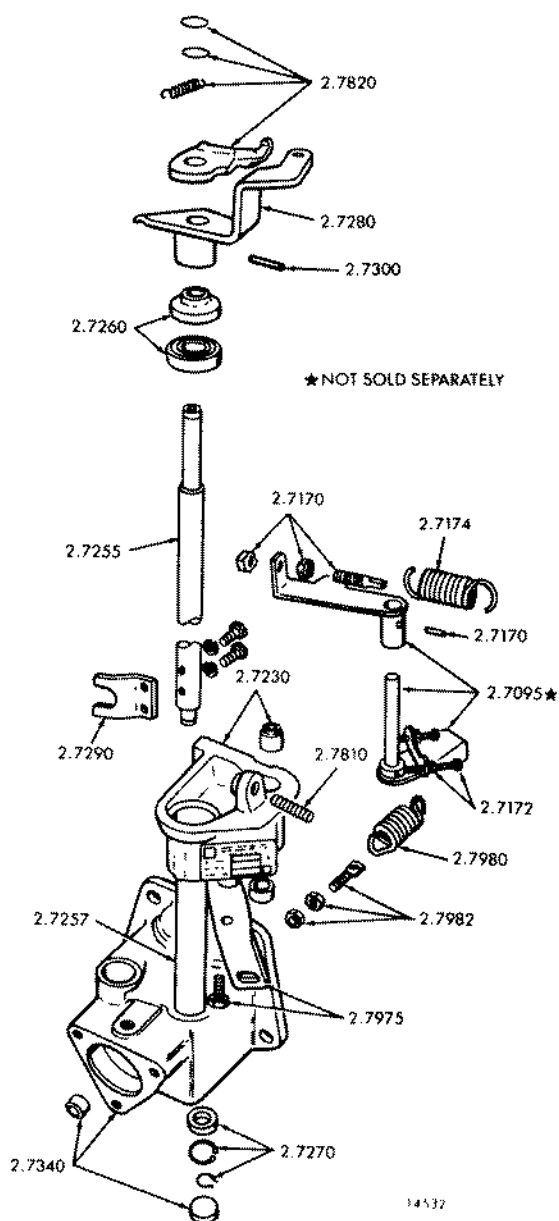


FIG. 5K MECHANICAL GOVERNOR
(Open Linkage)

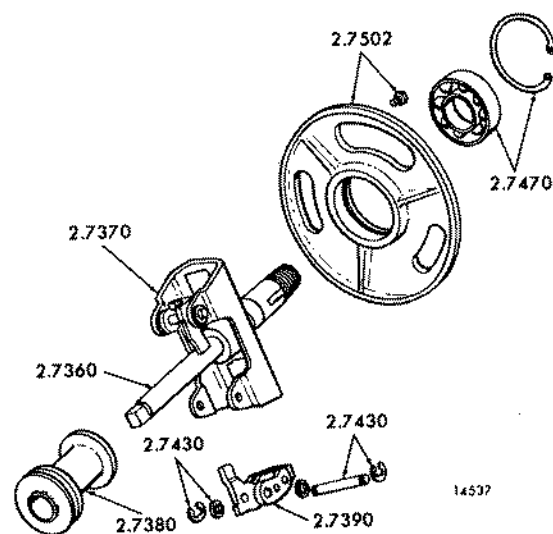


FIG. 5L GOVERNOR WEIGHT
SHAFT AND CARRIER

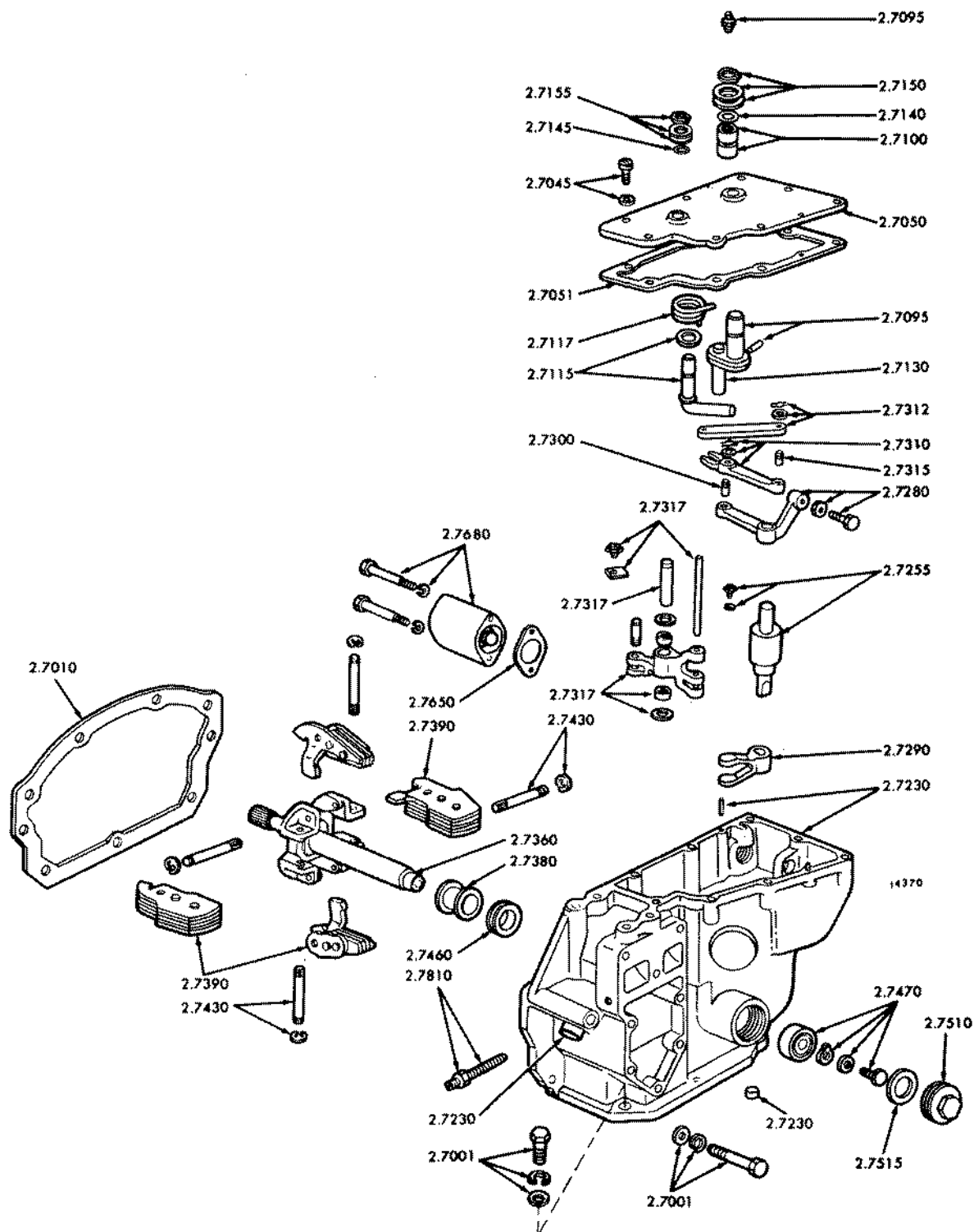
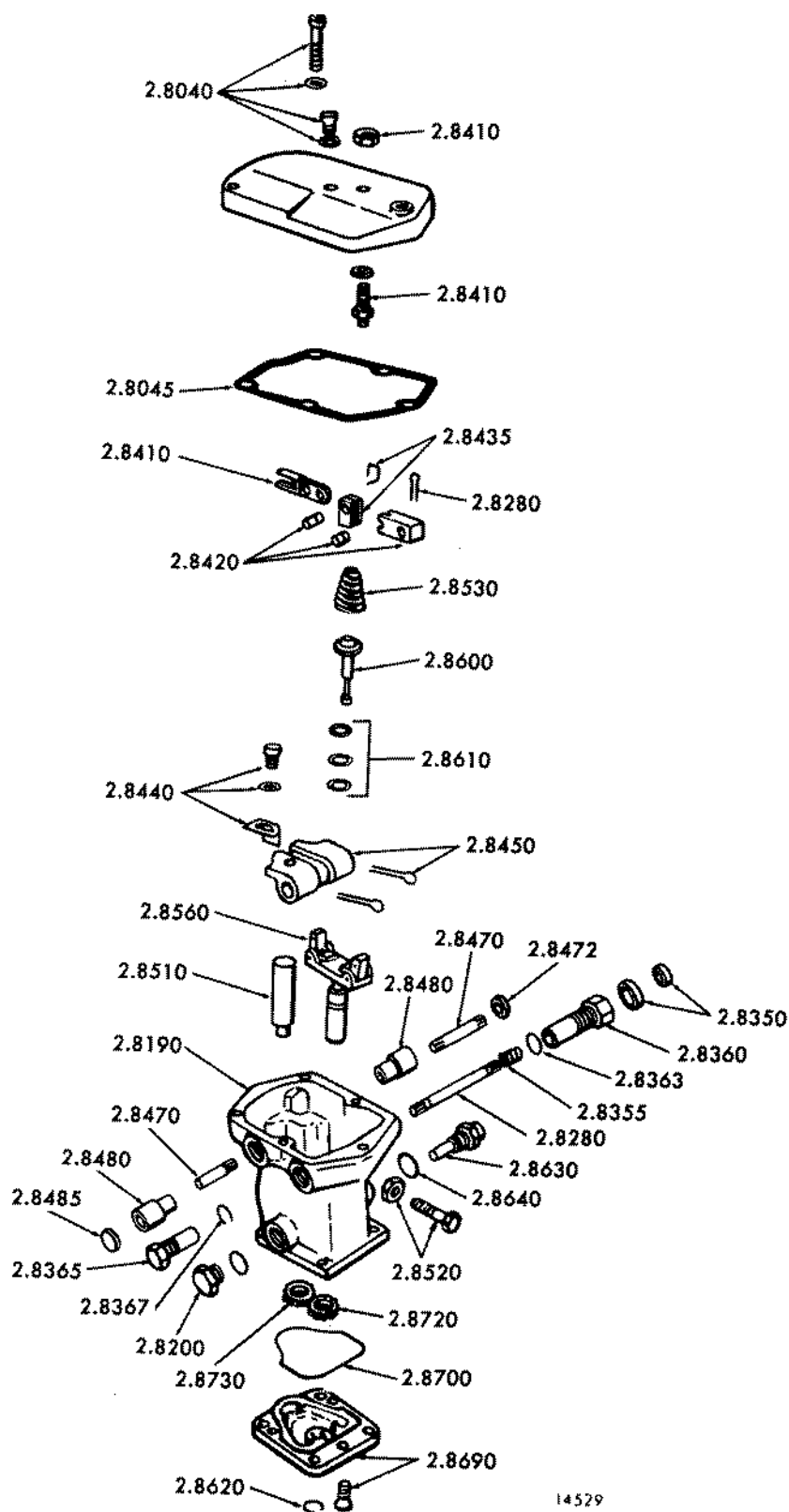


FIG. 5M MECHANICAL GOVERNOR (8V)

Fig. 5M of 2.0000

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FIG. 6A HYDRAULIC GOVERNOR

Fig. 6A of 2.0000

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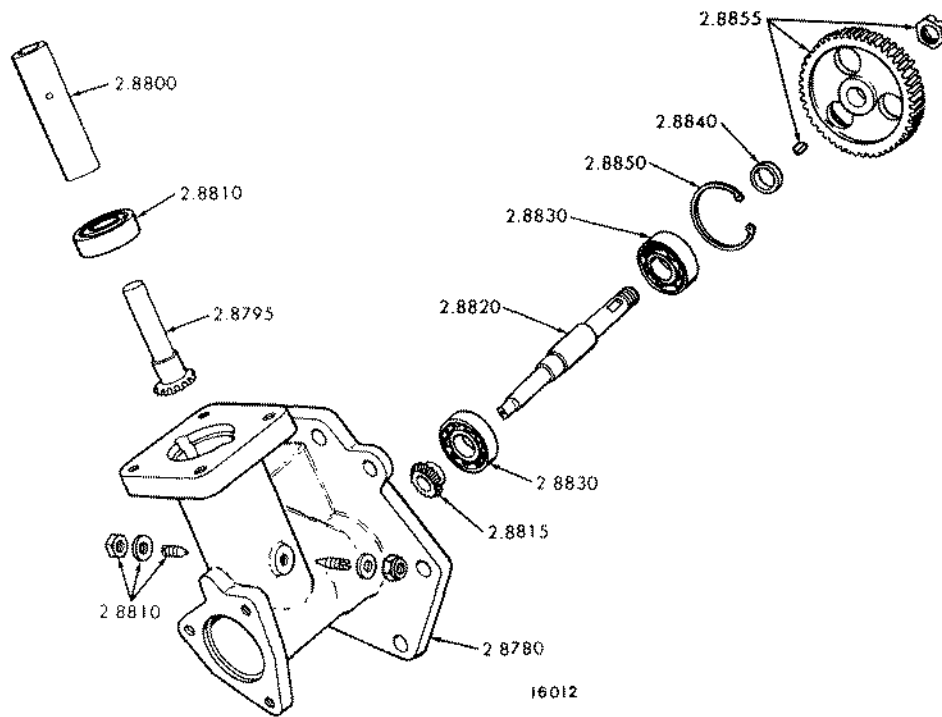
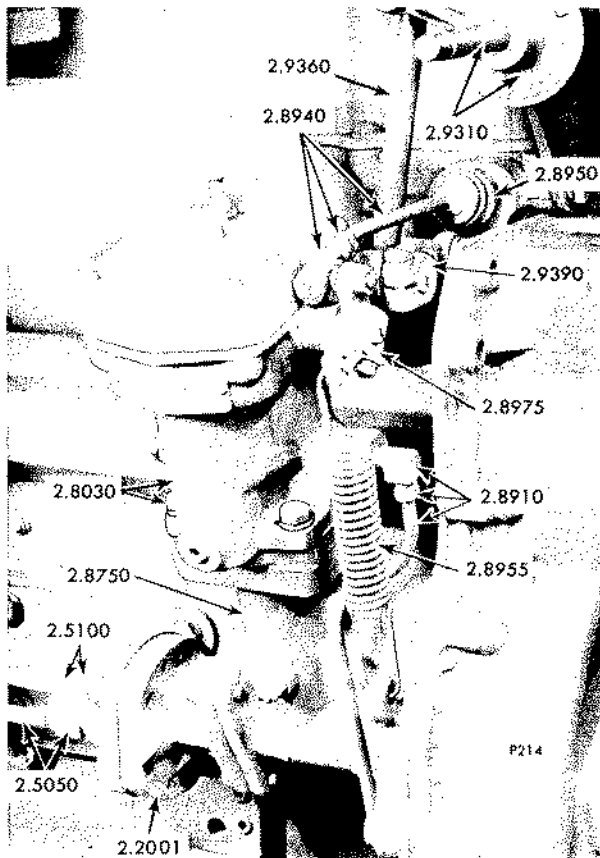
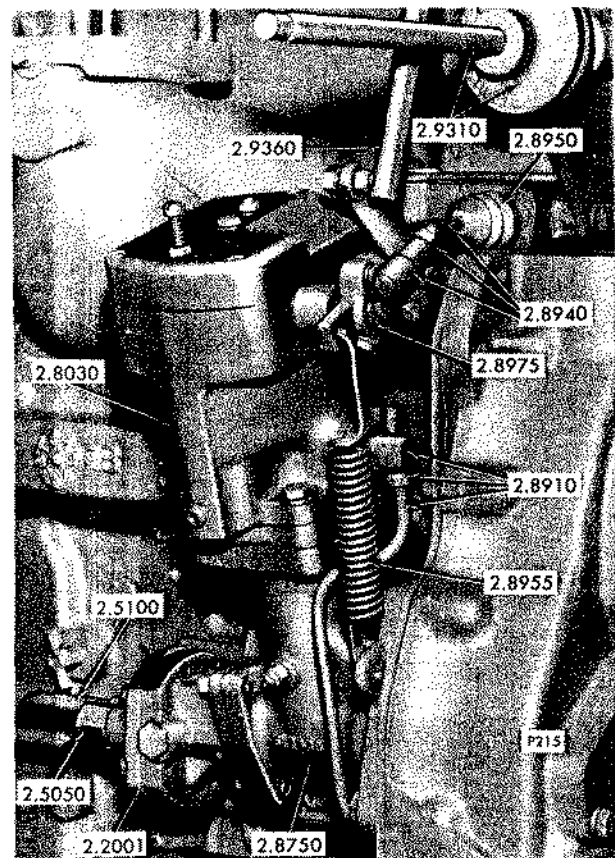


FIG. 6B HYDRAULIC GOVERNOR DRIVE



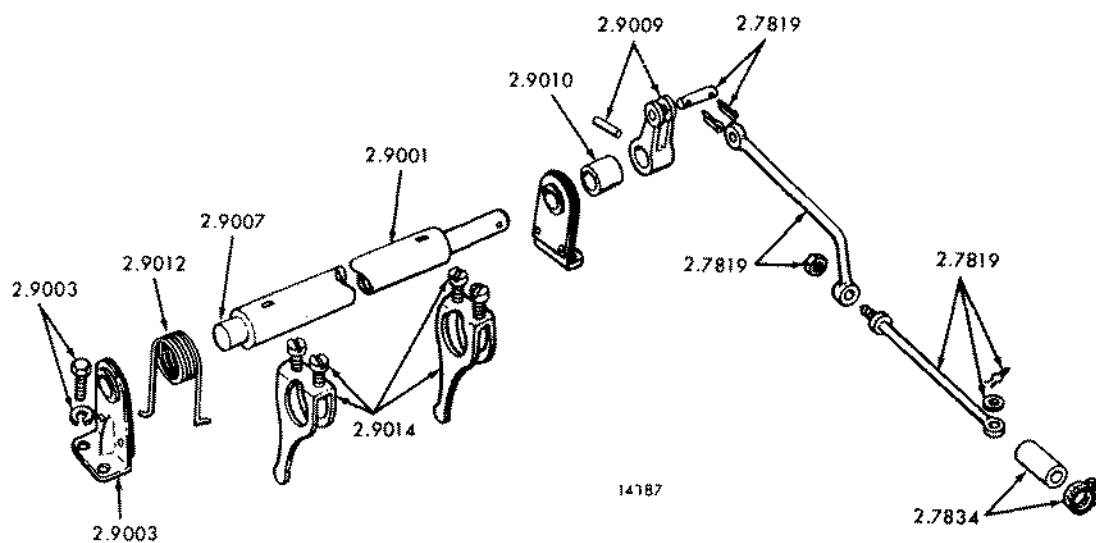
FORMER



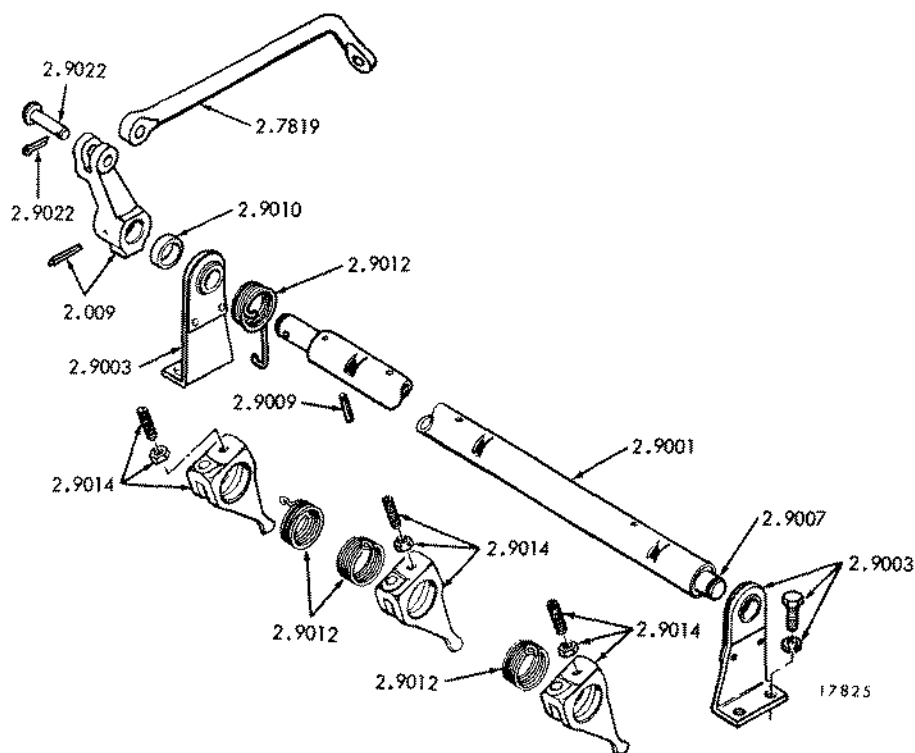
CURRENT

FIG. 6C HYDRAULIC GOVERNOR

Figs. 6B & 6C of 2.0000



(NON-SPRING LOADED)



(SPRING LOADED)

FIG. 7A - INJECTOR CONTROL TUBES

Fig. 7A of 2.0000

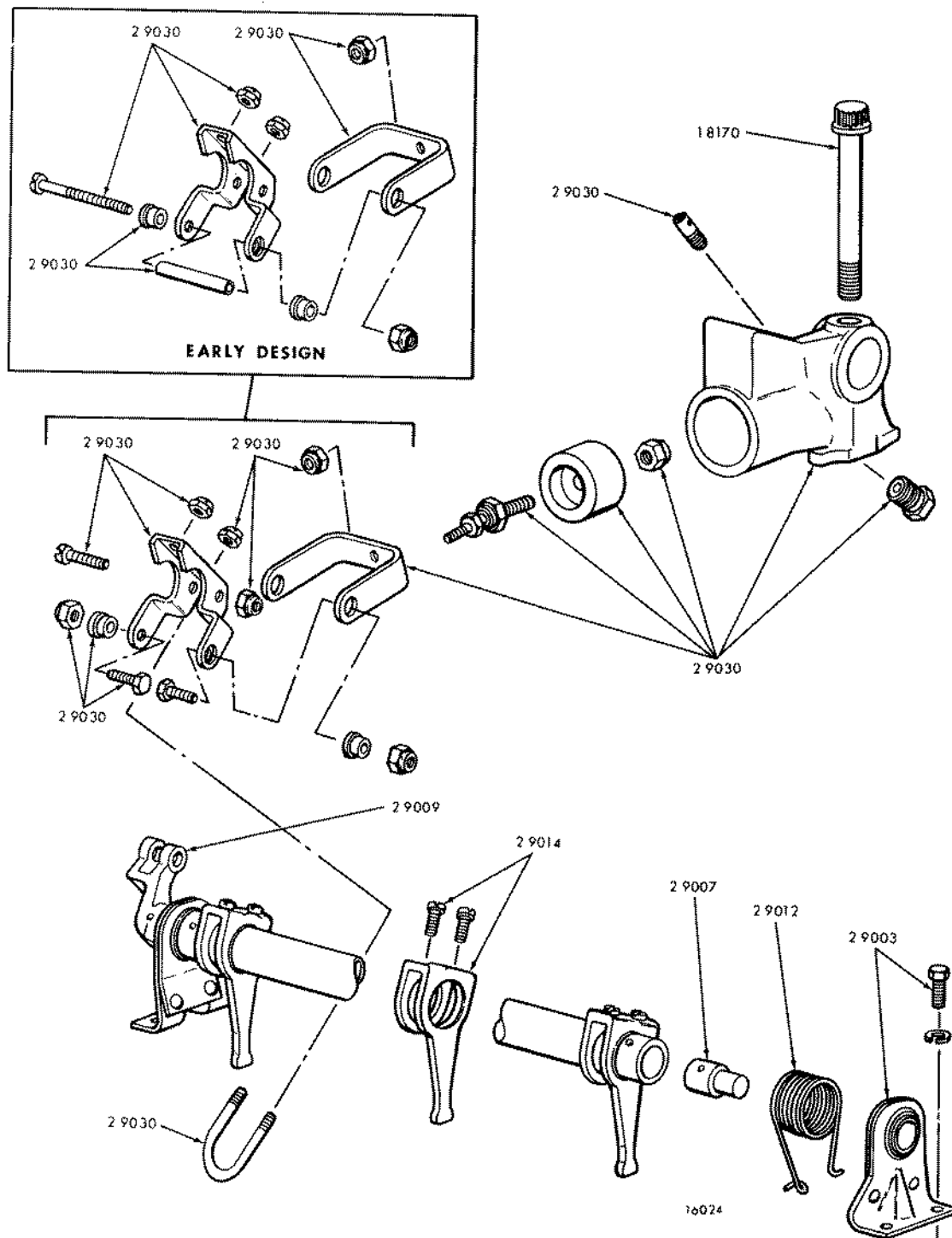


FIG. 7B INJECTOR CONTROL TUBE AND
THROTTLE DELAY MECHANISM (8V)

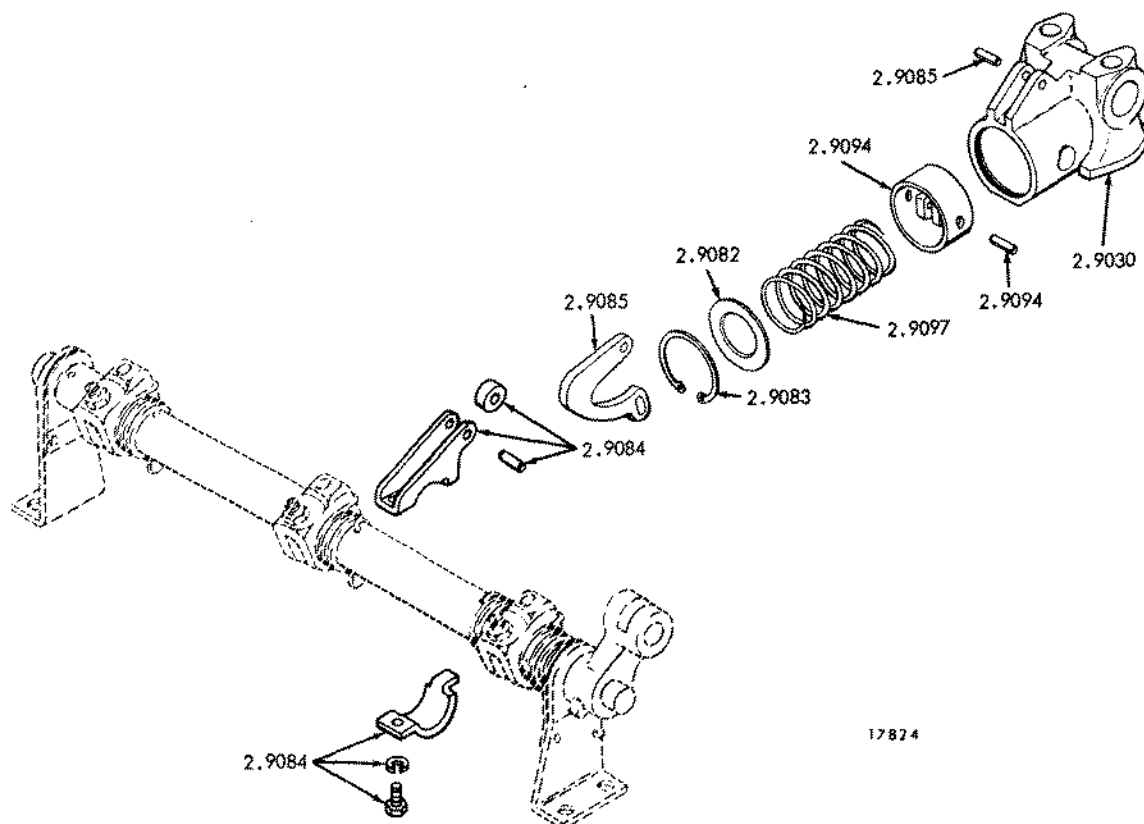


FIG. 7C - MODULATOR ASSEMBLY

Fig. 7C of 2.0000

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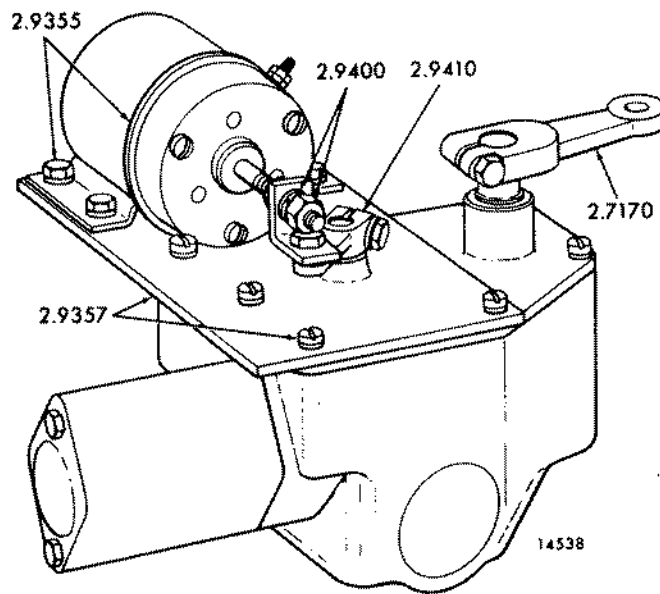


FIG. 7D THROTTLE CONTROLS (Limiting)

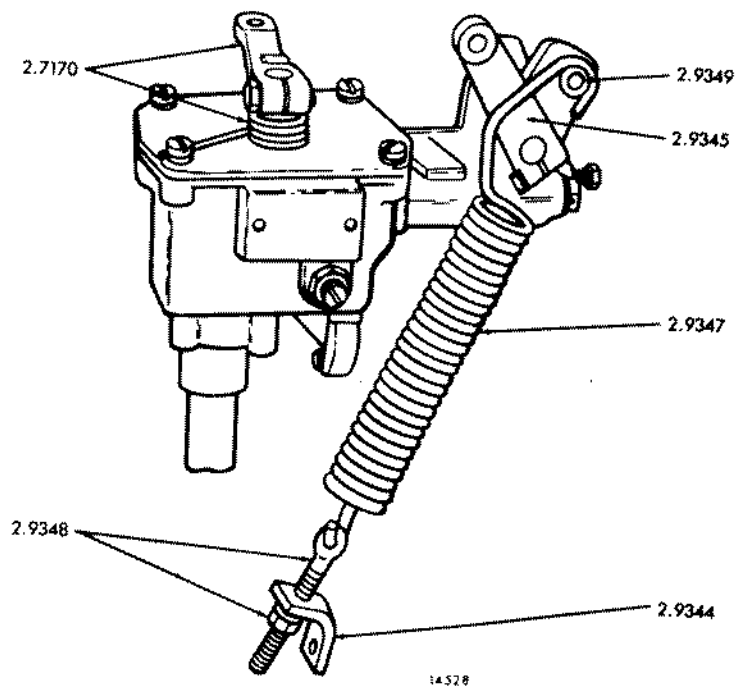


FIG. 7E THROTTLE CONTROLS (Variable)

Figs. 7D & 7E of 2.0000

JULY, 1981

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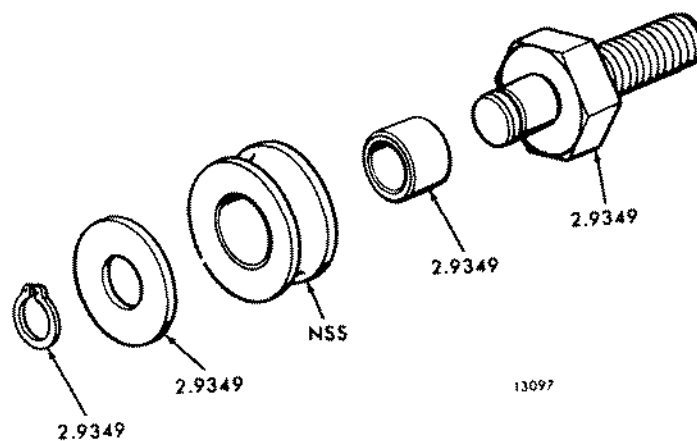


FIG. 7F HANGER ASSEMBLY, THROTTLE BOOSTER SPRING

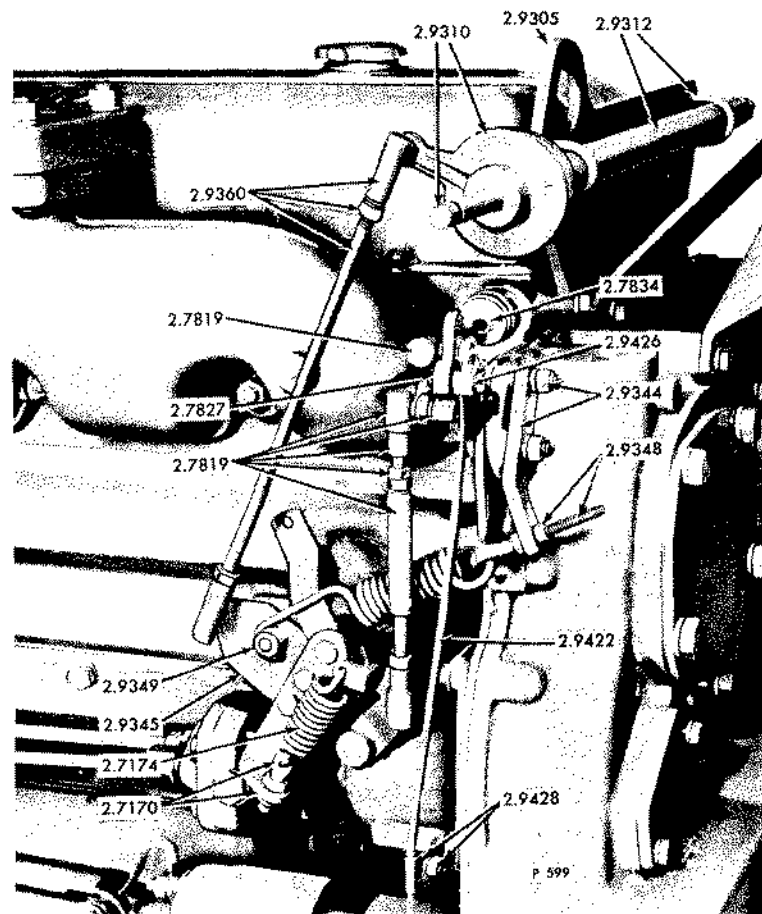


FIG. 8A THROTTLE CONTROL (PIERCE GOVERNOR)

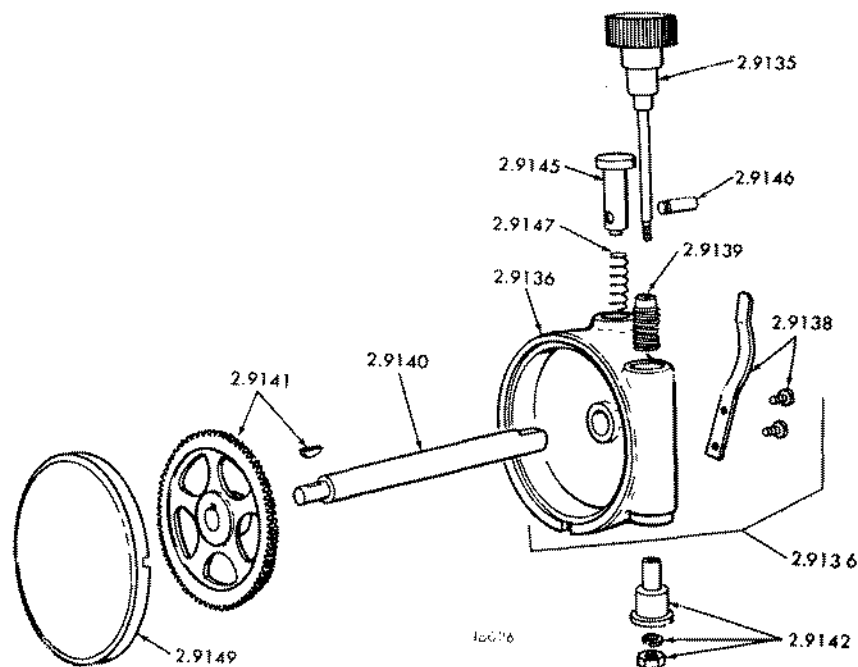


FIG. 8B VERNIER THROTTLE CONTROL

Figs. 8A & 8B of 2.0000

OCT., 1978

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2.1000A FUEL INJECTOR

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	40	41	47	51	52	56	58	62	66	67	74	75
2.1001 - INJECTOR ASSY.														
FOR TYPE 57 USE TYPE 80. QUANTITIES SHOWN ARE PER CYLINDER. INCLUDES ITEMS IN 2.1020 THRU 2.1265														
1A	5228510	@ INJECTOR ASSY. (45) (USE TYPE 52)	1											
1A	5228535	+ INJECTOR ASSY. (35) (5229595)		1										
1A	5228560	+ INJECTOR ASSY. (40) (5228763)			1									
1A	5228590	+ INJECTOR ASSY. (S40) (5228763)				1								
1A	5228580	+ INJECTOR ASSY. (S45) (5228773)					1							
1A	5228550	+ INJECTOR ASSY. (S50) (5228783)						1						
1B	5228695	@ INJECTOR ASSY. (L40) (USE TYPE 86)							1					
1B	5228645	@ INJECTOR ASSY. (N45) (USE TYPE 76)								1				
1B	5228650	@ INJECTOR ASSY. (N50) (USE TYPE 74)									1			
1B	5228660	@ INJECTOR ASSY. (N40) (USE TYPE 75)										1		
1B	5228783	* INJECTOR ASSY. (N50)											1	
1B	5228763	* INJECTOR ASSY. (N40)												1
@ NOT SERVICED AS AN ASSY.; COMPONENTS AVAILABLE, FOR COMPLETE REPLACEMENT USE TYPE SHOWN.														
* THESE INJECTORS HAVE FILTER ELEMENT AT FUEL INLET SIDE ONLY.														
+ NOT SERVICED, USE PART NUMBER IN PARENTHESES AND CHANGE OUT ALL CYLINDERS.														
2.1002 - SERVICE KIT, INJECTOR														
OVERHAUL KIT CONSISTS OF ONE (1) SEAL RING, TWO (2) FILTER CAP GASKETS, TWO (2) FILTER ELEMENTS AND TWO (2) SHIPPING CAPS.														
	5229649	OVERHAUL KIT	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
2.1010 - CONTAINER, INJECTOR SHIPPING														
1A	5149669	CONTAINER (12.8050)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
2.1020 - BODY ASSY., INJECTOR														
A BODY ASSY. INCLUDES DOWEL AND PLUG IN 2.1020.														
1A	5228509	BODY ASSY.	1	1	1	1	1	1	1	1	1	1	1	1
1B	5228583	BODY ASSY.	1	1	1	1	1	1	1	1	1	1	1	1
1A	5226416	DOWEL	1	1	1	1	1	1	1	1	1	1	1	1

2.1000A FUEL INJECTOR

PART ..FIG .. NUMBER .. NAME AND DESCRIPTION ..			TYPES											
			4 0	4 1	4 7	5 1	5 2	5 6	5 8	6 2	6 6	6 7	7 4	7 5
2.1020 - BODY ASSY., INJECTOR (CONT'D)														
	5226912	PLUG, BODY	2	2	2	2	2	2	2	2	2	2	2	2
1A	5229191	TAG, NUMBER (BLANK & UNPAINTED)	1		1				1					
1A	5228536	TAG, NUMBER (35)		1										
1A	5228558	TAG, NUMBER (S40)				1								
1A	5228557	TAG, NUMBER (S45)					1							
1A	5228559	TAG, NUMBER (S50)						1						
1B	5228764	TAG, NUMBER (N45)								1				
1B	5228772	TAG, NUMBER (N50)									1		1	
1B	5228762	TAG, NUMBER (N40)										1		1
2.1030 - NUT, INJECTOR VALVE														
1B	5228601	NUT							1	1	1	1	1	1
1A	5228102	NUT	1	1	1	1	1	1						
2.1040 - RING, INJECTOR SEAL														
1A	5229167	RING	1	1	1	1	1	1	1	1	1	1	1	1
2.1050 - DEFLECTOR, INJECTOR SPILL														
1A	5228109	DEFLECTOR	1	1	1	1	1	1	1	1	1	1	1	1
2.1060 - FOLLOWER, INJECTOR														
1A	5228104	FOLLOWER	1	1	1	1	1	1	1	1	1	1	1	1
2.1080 - SPRING, INJECTOR PLUNGER														
1A	5228739	SPRING	1	1	1	1	1	1	1	1	1	1	1	1
2.1100 - PIN, INJECTOR STOP														
1B	5228608	PIN	1	1	1	1	1	1	1	1	1	1	1	1
2.1110 - ELEMENT, INJECTOR FILTER														
1A	5228013	# ELEMENT	2	2	2	2	2	2						
1B	5228587	ELEMENT							2	2	2	2	1	1
		# NOT SERVICED, USE FILTER KIT IN 2.1132.												

2.1000A FUEL INJECTOR

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	4 0	4 1	4 7	5 1	5 2	5 6	5 8	6 2	6 6	6 7	7 4	7 5
2.1120 - SPRING, INJECTOR FILTER														
1A	5226415	SPRING	2	2	2	2	2	2						
2.1130 - CAP, INJECTOR FILTER														
1A	5226413	# CAP	2	2	2	2	2	2						
1B	5228588	CAP							2	2	2	2	2	2
		# NOT SERVICED, USE FILTER KIT IN 2.1132.												
2.1132 - FILTER KIT, CONVERSION														
		CONSISTS OF (1) 5228588 INJECTOR FILTER CAP, (1) 5228587 FILTER, (1) 5226186 FILTER CAP GASKET.												
	5228882	FILTER KIT	AR	AR	AR	AR	AR	AR						
2.1140 - GASKET, INJECTOR FILTER CAP														
1A	5226186	GASKET	2	2	2	2	2	2	2	2	2	2	2	2
2.1150 - CAP, INJECTOR SHIPPING														
1B	5226414	CAP	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
2.1160 - PLUNGER AND BUSHING ASSY., INJECTOR														
		PLUNGERS AND BUSHINGS ARE NOT SOLD SEPARATELY. AN ASSY. INCLUDES PIN IN 2.1165.												
1A	5228495	PLUNGER AND BUSHING ASSY. (45)	1				1							
1A	5228530	PLUNGER AND BUSHING ASSY. (35)		1										
1A	5228552	PLUNGER AND BUSHING ASSY. (40)			1	1								
1A	5228126	PLUNGER AND BUSHING ASSY. (50)						1						
1B	5228679	PLUNGER AND BUSHING ASSY. (L40)							1					
1B	5228684	PLUNGER AND BUSHING ASSY. (N45)								1				
1B	5228749	PLUNGER AND BUSHING ASSY. (N50)(M60)									1		1	

2.1000A FUEL INJECTOR

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	40	41	47	51	52	56	58	62	66	67	74	75
		2.1160 - PLUNGER AND BUSHING ASSY., INJECTOR (CONT'D)												
1B	5228691	PLUNGER AND BUSHING ASSY. (N40)										1		1
		2.1165 - PIN, BUSHING GUIDE												
	5226393	PIN	1	1	1	1	1	1	1	1	1	1	1	1
		2.1170 - RACK, INJECTOR												
1A	5226719	RACK	1	1	1	1	1	1	1	1	1	1	1	1
		2.1180 - GEAR, INJECTOR												
1A	5226400	GEAR	1	1	1	1	1	1	1	1	1	1	1	1
		2.1190 - RETAINER, INJECTOR GEAR												
1A	5226567	RETAINER	1	1	1	1	1							
1B	5228586	RETAINER							1	1	1	1	1	1
		2.1200 - VALVE, INJECTOR CHECK												
1A	5226411	VALVE	1	1	1	1	1							
1B	5228663	* VALVE							1	1	1	1		
1B	5228694	VALVE											1	1
		* NOT SERVICED, REPLACE WITH 1-5228694 VALVE AND 1-5228696 CAGE.												
		2.1205 - CAGE, INJECTOR CHECK VALVE												
1B	5228664	* CAGE							1	1	1	1		
1B	5228696	CAGE											1	1
		* NOT SERVICED, REPLACE WITH 1-5228694 VALVE AND 1-5228696 CAGE.												
		2.1220 - TIP KIT, INJECTOR SPRAY												
		A TIP KIT INCLUDES ITEMS IN 2.1230 THRU 2.1260.												
	5228491	TIP KIT				AR	AR	AR						

2.1000A FUEL INJECTOR

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	40	41	47	51	52	56	58	62	66	67	74	75
2.1230 - TIP, INJECTOR SPRAY														
1A	5228436	TIP	1	1	1									
1A	5228473	TIP				1	1	1						
2.1235 - TIP ASSY., INJECTOR SPRAY														
COMPONENTS OF TIP ASSY. ARE NOT SOLD SEPARATELY.														
1B	5228591	@ TIP ASSY.							1	1	1	1		
1B	5229034	TIP ASSY. (M65, N40, N45, N50) @ NOT SERVICED, USE 5229034 OR 5228768 TIP ASSY. AND INCLUDE 5228766 SEAT.											1	1
2.1238 - VALVE KIT, INJECTOR														
INCLUDES ITEMS IN 2.1250 AND 2.1255.														
	5228313	VALVE KIT (INCLUDES ITEMS IN 2.1240)	AR	AR	AR	AR	AR	AR						
	5228711	+ VALVE KIT							AR					
	5228706	+ VALVE KIT (LONG QUILL NEEDLE)								AR	AR	AR		
	5228769	VALVE KIT (SHORT QUILL NEEDLE) + OBSOLETE.											AR	AR
2.1240 - VALVE ASSY., INJECTOR														
INCLUDES ITEMS IN 2.1245 AND 2.1247.														
1A	5228316	VALVE ASSY.	1	1	1	1	1	1						
2.1245 - VALVE, INJECTOR														
1A	5228308	VALVE	1	1	1	1	1	1						
2.1247 - SEAT, INJECTOR VALVE														
1A	5228106	SEAT	1	1	1	1	1	1						
2.1250 - SPRING, INJECTOR VALVE														
1A	5227210	SPRING	1	1	1	1	1	1						
1B	5228676	SPRING							1					
1B	5228596	SPRING								1	1	1	1	1

DETROIT DIESEL

53 MPC ENGINES

2.1000A FUEL INJECTOR

PART			TYPES											
FIG	NUMBER	NAME AND DESCRIPTION	4 0	4 1	4 7	5 1	5 2	5 6	5 8	6 2	6 6	6 7	7 4	7 5
2.1255 - SEAT, INJECTOR VALVE SPRING														
1B	5228597	% SEAT							1	1	1	1		
1B	5228766	SEAT											1	1
		% OBSOLETE.												
2.1257 - CAGE, INJECTOR VALVE SPRING														
1B	5228594	CAGE							1	1	1	1	1	1
2.1260 - STOP, INJECTOR VALVE														
1A	5227318	STOP	1	1	1	1	1	1						
2.1265 - CAGE, INJECTOR VALVE														
1A	5228294	CAGE	1	1	1	1	1	1						
2.1270 - CLAMP, INJECTOR														
1A	5121259	CLAMP	1	1	1	1	1	1	1	1	1	1	1	1
1A	5150250	WASHER	1	1	1	1	1	1	1	1	1	1	1	1
1A	179847	BOLT, 3/8"-16X2" (12.9001)	1	1	1	1	1	1	1	1	1	1	1	1

DETROIT DIESEL

53 MPC ENGINES

2.1000A FUEL INJECTOR

PART			TYPES													
FIG	NUMBER	NAME AND DESCRIPTION	7 6	8 0	8 1	8 4	8 6	8 7	8 8	8 9	9 3	9 4	9 7	1 0 2	1 3 4	1 3 8
2.1001 - INJECTOR ASSY.																
• FOR TYPE 104 USE TYPE 93#. • FOR TYPE 140 USE TYPE 161#. QUANTITIES SHOWN ARE PER CYLINDER. INCLUDES ITEMS IN 2.1020 THRU 2.1265.																
1B	5228773	* INJECTOR ASSY. (N45)	1													
1B	5228770	INJECTOR ASSY. (N70)		1					1							
1B	5228777	INJECTOR ASSY. (N75)			1											
1B	5228783	* @ INJECTOR ASSY. (M50) (USE TYPE 74)				1										
1B	5228793	% * INJECTOR ASSY. (L40)					1									
1B	5228814	+ * INJECTOR ASSY. (M65)						1				1				
1B	5228824	* # INJECTOR ASSY. (M60)								1						
1B	5228834	* INJECTOR ASSY. (M55)									1					
1B	5229185	+ * INJECTOR ASSY. (M70)												1		
1B	5229610	+ INJECTOR ASSY. (M40)													1	
1B	5229595	+ INJECTOR ASSY. (N35)														1
1B	5228900	= INJECTOR ASSY. (N65)											1			
* THESE INJECTORS HAVE FILTER ELEMENT AT FUEL INLET SIDE ONLY. % NOT SERVICED, USE 5228763 INJECTOR (N40) AND CHANGE OUT ALL CYLINDERS. + NOT SERVICED. FOR SERVICE, USE COMPONENTS. = NOT SERVICED, USE 5226440 INJECTOR (7N65) AND CHANGE OUT ALL CYLINDERS. @ NOT SERVICED AS AN ASSY. COMPONENTS AVAILABLE, FOR COMPLETE REPLACEMENT USE TYPE SHOWN. # NOT SERVICED AS AN ASSY. USE COMPONENTS.																
2.1002 - SERVICE KIT, INJECTOR																
OVERHAUL KIT CONSISTS OF ONE (1) SEAL RING, TWO (2) FILTER CAP GASKETS, TWO (2) FILTER ELEMENTS AND TWO (2) SHIPPING CAPS.																
	5229649	OVERHAUL KIT	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
2.1010 - CONTAINER, INJECTOR SHIPPING																
1A	5149669	CONTAINER (12.8050)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
2.1020 - BODY ASSY., INJECTOR																
A BODY ASSY. INCLUDES DOWEL AND PLUG IN 2.1020.																
1B	5228583	BODY ASSY.	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1A	5226416	DOWEL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	5226912	PLUG, BODY	2	2	2	2	2	2	2	2	2	2	2	2	2	2

2.1000A FUEL INJECTOR

			TYPES											
PART			7	8	8	8	8	9	9	9	1	1	1	
.FIG ... NUMBER ... NAME AND DESCRIPTION			6	0	4	6	7	8	9	4	0	3	3	8
2.1020 - BODY ASSY., INJECTOR (CONT'D)														
1A	5229191	TAG, NUMBER (BLANK & UNPAINTED)			1	1	1	1	1	1				
1B	5228764	TAG, NUMBER (N45)	1											
1B	5228782	TAG, NUMBER (M70)		1				1						
1B	5229600	TAG, NUMBER (N35)												1
1B	5228848	TAG, NUMBER (N65)									1			
1B	5228786	TAG, NUMBER (N75)			1									
2.1030 - NUT, INJECTOR VALVE														
1B	5228601	NUT	1	1	1	1	1	1	1	1	1	1	1	1
2.1040 - RING, INJECTOR SEAL														
1A	5229167	RING	1	1	1	1	1	1	1	1	1	1	1	1
2.1050 - DEFLECTOR, INJECTOR SPILL														
1A	5228109	DEFLECTOR	1	1	1	1	1	1	1	1	1	1	1	1
2.1060 - FOLLOWER, INJECTOR														
1A	5228104	FOLLOWER	1	1	1	1	1	1	1	1	1	1	1	1
2.1080 - SPRING, INJECTOR PLUNGER														
1A	5228739	SPRING	1	1	1	1	1	1	1	1	1	1	1	1
2.1100 - PIN, INJECTOR STOP														
1B	5228608	PIN	1	1	1	1	1	1	1	1	1	1	1	1
2.1110 - ELEMENT, INJECTOR FILTER														
1B	5228587	ELEMENT	1	2	1	1	1	2	1	1	1	1	1	1
2.1130 - CAP, INJECTOR FILTER														
1B	5228588	CAP	2	2	2	2	2	2	2	2	2	2	2	2

DETROIT DIESEL

53 MPC ENGINES

2.1000A FUEL INJECTOR

			TYPES												
FIG	PART NUMBER	NAME AND DESCRIPTION	7	8	8	8	8	9	9	9	1	1	1	1	1
			6	0	1	4	6	7	8	9	3	4	7	0	3
		2.1140 - GASKET, INJECTOR FILTER CAP													
1A	5226186	GASKET	2	2	2	2	2	2	2	2	2	2	2	2	2
		2.1150 - CAP, INJECTOR SHIPPING													
1B	5226414	CAP	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
		2.1160 - PLUNGER AND BUSHING ASSY., INJECTOR													
		PLUNGERS AND BUSHINGS ARE NOT SOLD SEPARATELY. AN ASSY. INCLUDES PIN IN 2.1165.													
1B	5228679	PLUNGER AND BUSHING ASSY. (L40)					1								
1B	5228684	PLUNGER AND BUSHING ASSY. (N45)	1												
1B	5228749	PLUNGER AND BUSHING ASSY. (N50)													
		(M60) (5A55)				1			1						
1B	5229632	PLUNGER AND BUSHING ASSY. (N70)													
		(M70)		1				1					1		
1B	5228661	PLUNGER AND BUSHING ASSY. (M65)						1			1				
1B	5228841	PLUNGER AND BUSHING ASSY. (M55)								1					
	5229608	PLUNGER AND BUSHING ASSY. (M40)												1	
	5229598	PLUNGER AND BUSHING ASSY. (N35)													1
	5228928	PLUNGER AND BUSHING ASSY. (N65)											1		
	5228658	PLUNGER AND BUSHING ASSY. (N75)			1										
		2.1165 - PIN, BUSHING GUIDE													
	5226393	PIN	1	1	1	1	1	1	1	1	1	1	1	1	1
		2.1170 - RACK ASSY., INJECTOR													
1A	5226719	RACK	1	1	1	1	1	1	1	1	1	1	1	1	1
		2.1180 - GEAR, INJECTOR													
1A	5226400	GEAR	1	1	1	1	1	1	1	1	1	1	1	1	1
		2.1190 - RETAINER, INJECTOR GEAR													
1B	5228586	RETAINER	1	1	1	1	1	1	1	1	1	1	1	1	1
		2.1200 - VALVE, INJECTOR CHECK													
1B	5228694	VALVE	1	1	1	1	1	1	1	1	1	1	1	1	1

2.1000A FUEL INJECTOR

PART			TYPES													
FIG	NUMBER	NAME AND DESCRIPTION	7 6	8 0	8 1	8 4	8 6	8 7	8 8	8 9	9 3	9 4	9 7	1 0 2	1 3 4	1 3 8
2.1205 - CAGE, INJECTOR CHECK VALVE																
1B	5228696	CAGE	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.1235 - TIP ASSY., INJECTOR SPRAY																
COMPONENTS OF TIP ASSY. ARE NOT SOLD SEPARATELY.																
1B	5229034	TIP ASSY. (M60, M65, M70, N40, N45, N50, N35, M40, M55)	1			1		1			1	1			1	1
1B	5229192	TIP ASSY. (N70, N75)		1	1				1							
1B	5229026	TIP ASSY. (L40)					1									
1B	5229192	TIP ASSY. (M60, M70)			1					1				1		
1B	5229030	TIP ASSY. (5A55, N65)											1			
2.1238 - VALVE KIT, INJECTOR																
INCLUDES ITEMS IN 2.1250 AND 2.1255.																
	5228769	VALVE KIT (SHORT QUILL NEEDLE)	AR	AR	AR	AR		AR	AR	AR	AR	AR	AR	AR	AR	AR
	5228690	VALVE KIT					AR									
2.1250 - SPRING, INJECTOR VALVE																
1B	5228676	SPRING					1									
1B	5228596	SPRING	1	1	1	1		1	1	1	1	1	1	1	1	1
2.1255 - SEAT, INJECTOR VALVE SPRING																
1B	5228766	SEAT	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.1257 - CAGE, INJECTOR VALVE SPRING																
1B	5228594	CAGE	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.1270 - CLAMP, INJECTOR																
1A	5121259	CLAMP	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1A	5150250	WASHER	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1A	179847	BOLT, 3/8"-16X2" (12.9001)	1	1	1	1	1	1	1	1	1	1	1	1	1	1

2.1000A FUEL INJECTOR

PART			TYPES												
FIG	NUMBER	NAME AND DESCRIPTION	1 5 7	1 6 0	1 6 1	1 6 2	1 7 0	1 7 9	1 9 1	2 1 3	2 2 6	2 2 7	2 2 8	2 2 9	2 3 0
2.1001 - INJECTOR ASSY.															
QUANTITIES SHOWN ARE PER CYLINDER. INCLUDES ITEMS IN 2.1020 THRU 2.1265.															
1B	5228834	* INJECTOR ASSY. (M55)				1									
1B	5229666	INJECTOR ASSY. (5A60)			1										
1B	5226440	INJECTOR ASSY. (N65)		1											
1B	5229825	% INJECTOR ASSY. (5N65)					1								
1B	5228763	* INJECTOR ASSY. (N40)						1							
1B	5226075	+ INJECTOR ASSY. (5N45)								1					
	5226235	INJECTOR ASSY. (5E60)									1				
	5226245	INJECTOR ASSY. (5E55)										1			
	5226280	INJECTOR ASSY. (5E50)											1		
	5226240	INJECTOR ASSY. (5C55)												1	
	5226250	INJECTOR ASSY. (5C50)													1
	5226230	INJECTOR ASSY. (5C60)													
	5229920	INJECTOR ASSY. (5A50)							1						
	5229676	INJECTOR ASSY. (5A55)	1												
* THESE INJECTORS HAVE FILTER ELEMENT AT FUEL INLET SIDE ONLY.															
+ NOT SERVICED. USE 5228773 INJECTOR (N45) AND CHANGE OUT ALL CYLINDERS.															
% NOT SERVICED. FOR SERVICE USE COMPONENTS.															
2.1002 - SERVICE KIT, INJECTOR															
OVERHAUL KIT CONSISTS OF ONE (1) SEAL RING, TWO (2) FILTER CAP GASKETS, TWO (2) FILTER ELEMENTS AND TWO (2) SHIPPING CAPS.															
	5229649	OVERHAUL KIT	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
2.1010 - CONTAINER, INJECTOR SHIPPING															
1B	5149669	CONTAINER (12.8050)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
2.1020 - BODY ASSY., INJECTOR															
A BODY ASSY. INCLUDES DOWEL AND PLUG IN 2.1020.															
1B	5228583	BODY ASSY.	1	1	1	1	1	1	1	1	1	1	1	1	1
1B	5226416	DOWEL	1	1	1	1	1	1	1	1	1	1	1	1	1
	5226912	PLUG, BODY	2	2	2	2	2	2	2	2	2	2	2	2	2
1B	5229191	TAG, NUMBER (BLANK & UNPAINTED)				1		1							
1B	5229654	TAG, NUMBER (5A60)			1										
1B	5228848	TAG, NUMBER (N65)		1											
1B	5229803	TAG, NUMBER (5N65)					1								
1B	5226067	TAG, NUMBER (5N45)								1					
	5226458	TAG, NUMBER (5E60)									1				
	5226460	TAG, NUMBER (5E55)										1			
	5226462	TAG, NUMBER (5E50)											1		
	5226459	TAG, NUMBER (5C55)												1	
	5226461	TAG, NUMBER (5C50)													1
	5226457	TAG, NUMBER (5C60)													
	5229924	TAG, NUMBER (5A50)							1						
	5229652	TAG, NUMBER (5A55)	1												

2.1000A FUEL INJECTOR

		TYPES											
FIG	PART NUMBER	NAME AND DESCRIPTION	1	1	1	1	1	1	2	2	2	2	2
			5	6	6	7	7	9	2	2	2	2	3
			7	0	1	2	0	9	1	6	7	8	0
									3				1
		2.1030 - NUT, INJECTOR VALVE											
B	5228601	NUT	1	1	1	1	1	1	1	1	1	1	1
		2.1040 - RING, INJECTOR SEAL											
B	5229167	RING	1	1	1	1	1	1	1	1	1	1	1

2.1000A FUEL INJECTOR

PART			TYPES													
FIG	NUMBER	NAME AND DESCRIPTION	1 5 7	1 6 0	1 6 1	1 6 2	1 7 0	1 7 9	1 9 1	2 1 3	2 2 6	2 2 7	2 2 8	2 2 9	2 3 0	2 3 1
2.1050 - DEFLECTOR, INJECTOR SPILL																
1B	5228109	DEFLECTOR	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.1060 - FOLLOWER, INJECTOR																
1B	5228104	FOLLOWER	1	1	1	1	1	1	1	1		1	1	1	1	1
2.1080 - SPRING, INJECTOR PLUNGER																
1B	5228739	SPRING	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.1100 - PIN, INJECTOR STOP																
1B	5228608	PIN	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.1110 - ELEMENT, INJECTOR FILTER																
1B	5228587	ELEMENT	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2.1130 - CAP, INJECTOR FILTER																
1B	5228588	CAP	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2.1140 - GASKET, INJECTOR FILTER CAP																
1B	5226186	GASKET	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2.1150 - CAP, INJECTOR SHIPPING																
1B	5226414	CAP	AR		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
2.1160 - PLUNGER AND BUSHING ASSY., INJECTOR																
1B	5228841	PLUNGER AND BUSHING ASSY. (M55)				1										
1B	5228656	PLUNGER AND BUSHING ASSY. (5A60)			1											
1B	5228928	PLUNGER AND BUSHING ASSY. (N65)		1												
1B	5228668	PLUNGER AND BUSHING ASSY. (5N65)					1									
1B	5228679	PLUNGER AND BUSHING ASSY. (L40)						1								
1B	5228684	PLUNGER AND BUSHING ASSY. (5N45)								1						
1B	5226392	PLUNGER AND BUSHING ASSY. (5C60, 5E60)									1					1
1B	5226422	PLUNGER AND BUSHING ASSY. (5C55, 5E55)										1			1	
1B	5226428	PLUNGER AND BUSHING ASSY. (5C50, 5E50)											1			1
	5229921	PLUNGER AND BUSHING ASSY. (5A50)							1					1		
	5228749	PLUNGER AND BUSHING ASSY. (5A55)	1													
2.1165 - PIN, BUSHING GUIDE																
	5226393	PIN	1	1	1	1	1	1	1	1	1	1	1	1	1	1