



VR PARTS

155 232 265 283 310

AEPBVRL DEC10







A Tradition of Excellence Since 1955



Arrow Engine Company was founded in 1955 as Arrow Specialty Company by Jeff Davis in Tulsa, Oklahoma, beginning a tradition of providing premium service and exceptional products to the oil & gas industry, as well as other industrial markets throughout the world. Arrow is a marketleading provider of natural gas powered engines and parts, as well as gas compressors, gas production equipment, meter runs, engine electronics and chemical pumps. Today, Arrow continues its tradition of focusing on producing the most reliable equipment, parts and extraordinary customer service in the industry.

Arrow is a part of IES Infrastructure, which operates as one of four divisions under IES Holdings, Inc. comprised of over 8,000 employees nationwide. IES Infrastructure provides electrical and mechanical apparatus services, custom steel fabrication, and custom power solutions including generator enclosures and bus systems to customers both in the United States and abroad.





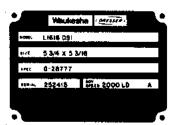
parts manual

VRG155, 232, 265, 283, 310 GAS VRD155, 232, 283, 310, 310S DIESEL

WAUKESHA GENUINE PARTS INFORMATION AND ORDERING PROCEDURE

PARTS ORDERING

- Waukesha genuine parts are available worldwide and must be ordered through your local Waukesha Distributor. For the distributor closest to you, refer to the distributor listing in this manual.
- 2) Part numbers in this manual are for reference only, and should not be used for ordering parts. Your Waukesha Distributor will refer to your engine specification to make certain you receive the correct parts for your engine.
- 3) Always specify the engine model designation, specification number, and serial number, as found stamped on the engine nameplate.



ML-16-9

In the event the nameplate is either lost or defaced, the engine serial number is also stamped on the crankcase, usually near the front or rear.

4) Always include the part number, when known, along with the description of the part. State the quantity of the part you wish to order. Do not use the word "complete" or designate the quantity by sets.

EXAMPLE: 172607 - Filter Element - (1) Ordered.

NOTE: Quantities listed in this manual are quantity per engine.

- 5) If a special part is needed, the engine application should also be stated.
- 6) Anticipate your parts requirements:
 - a) Order parts early in the day.
 - b) Keep a supply of normal maintenance parts in stock.
 - c) Obtain a parts stocking recommendation from your local Waukesha Distributor.

EXTENT OF PARTS MANUAL COVERAGE

This parts manual contains only standard or standard option parts. Variations of these parts as well as other special parts are not included. Contact your local Waukesha Distributor for assistance in identifying parts not included in this manual.

SERVICE PARTS AVAILABILITY

Waukesha genuine factory engineered replacement parts are available throughout the world through authorized Waukesha Distributors. These parts have the advantage of being:

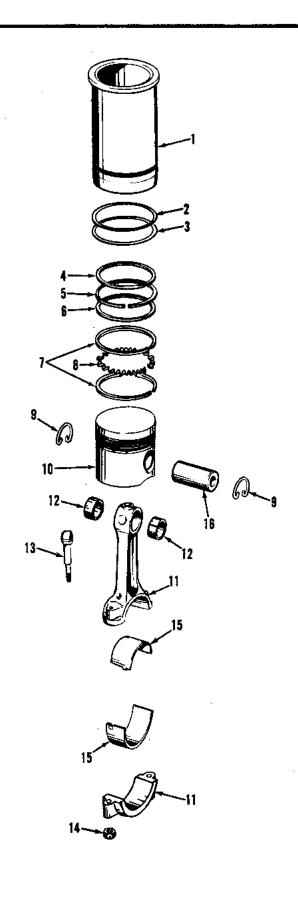
- Specially engineered for your needs.
- 2) Continually reviewed to incorporate the latest material and engineering advances.
- Constantly checked to insure that all replacement parts meet Waukesha quality control standards.



INDEX OF PARTS

VR SERIES

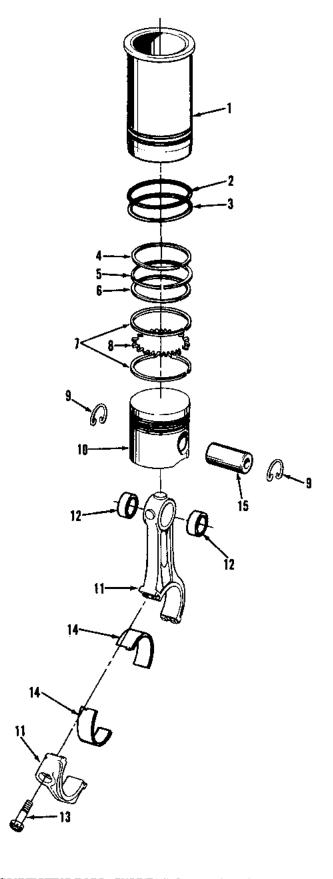
Part Page	Part Page
Air Cleaner	Instrument Panel 69
Alternator	Intake Manifold
Bearings	Lube Oil Filter
Belt Tightener 67	Magneto
Belt, Water Pump 45,47,67	Manifold, Exhaust
Breather	Manifold, Intake
Bushing, Camshaft	Muffler
Camshaft	
Carburetor	Oil Pan
Coil	Oil Pump
Connecting Rod 3,8	Panel, Instrument 69
Crankcase	Piston
Crankshaft	Pulley, Crankshaft
Cylinder Head	Pump, Fuel
Cylinder Sleeve 3,5	Pump, Injection 59,61,63
Distributor 65	Pump, Oil
Element, Fuel Filter 53	Pump, Water
Element, Lube Oil Filter 29,31	Push Rod
Exhaust Manifold 39,41,43	Radiator
Fan Blade	Rings, Piston 3,5
Filter, Fuel Oil 53	Rocker Arm Cover
Filter, Lube Oil	Rocker Arm
Filter, Oil Cooler	Rod, Connecting 3,5
Flywheel	Sleeve, Cylinder 3,5
Flywheel Housing	Spark Plugs
Front Support	Starter
Fuel Injector 59,61,63	Switch, Starter 9
Fuel Oil Filter	Tauhometer 69
Fuel Pump	Tachometer Drive 21
Gear Cover	Thermostat
Governor	Turbocharger
Head, Cylinder	Valves
Hour Meter 69	Valve Lifters 9
Housing, Flywheel	Vibration Damper
Idler Gear	Water Pump ,
Injection Pump	





CONNECTING RODS, CYLINDER SLEEVES, PISTONS Groups 4, 7, 30

ITEM NO.	PART NUMBER	NOMENCLATURE	VRG155	VRD155	VRG232	VRD232	VRG265	VRG283	VEC 210	VRD310	VRD310S
1	190230	Sleeve, Cylinder					6			•	
	220030	Sleeve, Cylinder	4	4	6	6					
2	119563B	Ring, Packing - Cylinder Sleeve (Upper Groove)	4	4	6	6	6				
3	169288	Ring, Packing - Cylinder Sleeve (Lower Groove)	4	4	6	6	ð				
4	193105	Ring, Piston - Compression (Top Groove)					6	2.00 2.00 2.00 2.00 2.00			
.	220005	Ring, Piston - Compression (Top Groove)	4	4	6	6					
5	193005	Ring, Piston - Compression					6				
	220005A	Ring, Piston - Compression	8	8	12	12		}			
6	220005B	Ring, Piston - Oil		4		6					
7	193405	Rail, Oil Ring					12				
1	220205	Rail, Oil Ring	5		12						
8	193305	Spacer, Oil Ring Rails	0000000 000000000000000000000000000000				6				
ĺ	220205A	Spacer, Oil Ring Rails	4		6			877 187			
9	41298A	Retainer, Piston Pin	8	8	12	12	12				1
10	183004	Piston	4	4	6	6					
	225004A	Piston					6				
11	A180107C	Rod, Connecting	4	4	6	6					
	C190107A	Rod, Connecting				_	6				
12	190008B	. Bushing, Piston Pin	8	8	12	12	12				
13	. 116243	. Bolt, Connecting Rod	8	8	12	12	12				
14	. 177299A	. Nut, Lock - Elastic Stop, 3/8"-24	8	8	12	4	12				
15	191010A	Bearing, Connecting Rod	8	8	12	12	12				
16	190006A	Pin, Piston	4	4	5	1					
	190106A	Pin, Piston					6				
		KITS									
		Single Distan Dine Kit-									
	907-202	Single Piston Ring Kits For Piston 183004 (Includes Items 4, 5, 7, 8)									
	907-190	For Piston 183004 (Includes Items 4-6)	4	4						(1000	
	907~183 907~186	For Piston 183004 (Includes Items 4, 5, 7, 8) For Piston 183004 (Includes Items 4-6)			6	1					
	907-184	For Piston 225004A (Includes Items 4, 5, 7, 8)				6	6				
		Single Cylinder Sleeve Kits						0.00			
	932-192	Piston 183004 (Includes Items 1-5, 7-10, 16)	4								
	932-191	Piston 183004 (Includes Items 1-6, 9, 10, 16)	1375	4	1324. 1323.1	1					
	932-183 932-187	Piston 183004 (Includes Items 1-5, 7-10, 16) Piston 183004 (Includes Items 1-6, 9, 10, 16)			в	6					
	932-184	Piston 225004A (Includes Items 1-5, 7-10, 16)				6	в				
		<u> </u>	2000 2000 2000 2000	1							
						1				######################################	
			2000 2000			1				10000	
			100101 100101	1	1038						

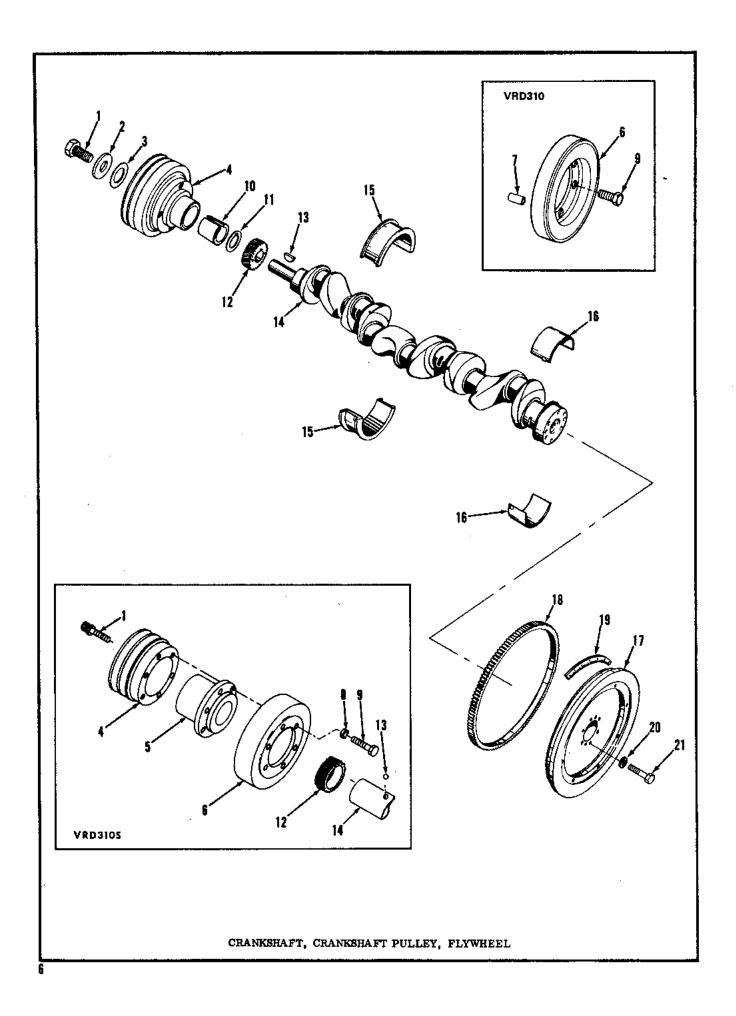


CONNECTING RODS, CYLINDER SLEEVES, PISTONS



CONNECTING RODS, CYLINDER SLEEVES, PISTONS Groups 4, 7, 30

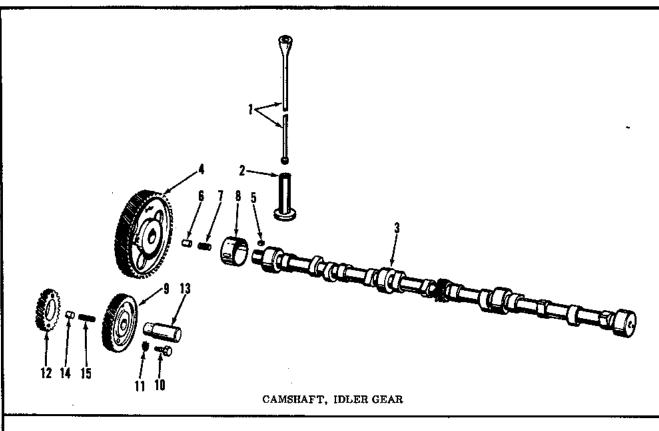
ITEM NO.	PART NUMBER	NOMENCLATURE	VRG155	VRD155	VRG232	VRD232	VRG265	VRG283	VRDZB3	VRG310	VRD310	VRD310S
1	221230P	Sleeve, Cylinder		-				-	,	-		~
	221230W	Sleeve, Cylinder						6	*2	G	6	
	221530A	Sleeve, Cylinder						. "		,		
2	119563B	Ring, Packing - Cylinder Sleeve (Upper Groove)						6	c	6		6
3	169288	Ring. Packing - Cylinder Sleeve (Lower Groove)						l			6	6
4	221505	Ring, Piston - Compression (Top Groove)						6	6	6 6	6	6
	223305	Ring, Piston - Compression (Top Groove)						ľ	6	°		
	223605	Ring, Piston - Compression (Top Groove)									6	
5	221005	Ring, Piston - Compression										6
	221605A	Ring. Piston - Compression						ء ا	6	_		
	223605A	Ring, Piston - Compression						6		6	*	
6	223205B	Ring, Piston - Oil						ľ				6
	223605B	Ring, Piston - Oil							6		В	
7	221805	Rail, Oil Ring										6
8	221705	Spacer, Oil Ring Rails						12		12		
9	41298A	Retainer, Piston Pin						6		6		
	44999	Retainer, Piston Pin						12				
10	222404	Piston							12	ŀ	12	12
	223604N	Piston								6		
	223704D	Piston									6	
	224504C	Piston							6			
	223904G	Piston						6				
11	D221407	Rod, Connecting										6
12	. 190008B	. Bushing, Piston Pin						6	6	6	6	6
13	. 28594	Screw, Cap. Hex Head, 3/8"-24 x 1-7/8"						12	12			12
14	19121nJ	Bearing, Connecting Rod		:				12	12			12
15	190106A	Pin, Piston						12	12	12	12	12
	221006A	Pin, Piston						6				
									6	6	6	6
]												
		KITS										
1	005 105	Single Piston Ring Kits										
	907-185 907-187	For Pistons 224504C and 222404 (Includes Items 4, 5, 7, 8) For Piston 223704D (Includes Items 4, 5, 6)						6		6		
- [907-188	For Piston 223604N (Includes Items 4, 5, 6)							6		6	
	907-224	For Piston 223904G (Includes Items 4, 5, 6)									X	6
ŀ												
		Single Cylinder Sleeve Kits	× 100							:		
	932~185	Piston 224504C (Includes Items 1-5, 7-10, 15)				ł		6				
	932-188 932-186	Piston 223704D (Includes Items 1-6, 9, 10, 15) Piston 222404 (Includes Items 1-5, 7-10, 15)						•	6			
	932-189	Piston 223604N (Includes Items 1-6, 9, 10, 15)								6	6	
	932-229	Piston 223904G (Includes Items I-6, 9, 10, 15)									×	6
												ļ

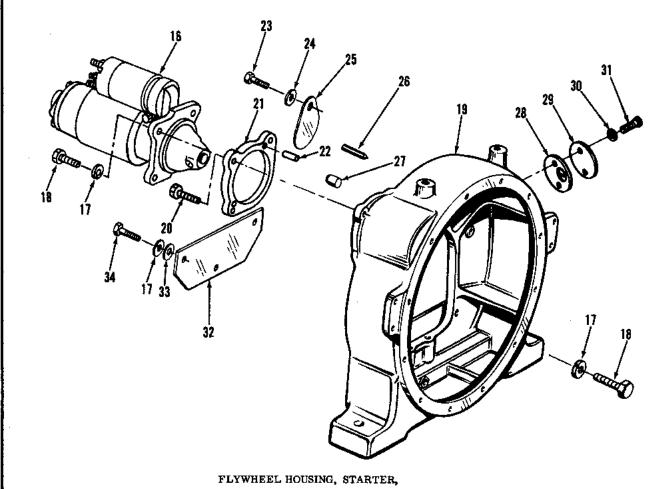




CRANKSHAFT, CRANKSHAFT PULLEY, FLYWHEEL Groups 11, 13, 95

ITEM	PART		VRG155	VRD155	VRG232	VRD232	VRG265	VRG283	VRD283	VRG310	VRD310	RD3105
NO.	NUMBER	NOMENCLATURE	>	<u>×</u>	Ž	28	Š	V.R.	3	× K	X	₹ ~
1	26670	Screw, Cap, Hex Head, 3/4"-16 x 1"		1	1	1						
{	26740 28620	Screw, Cap. Hex Head, 3/4"-16 x 1-1/2"	gar.	1			1	1	1	1	1	
2	B476	Screw, Cap, Ferry Head, 3/8"-24 x 1-1/4" Washer, Plain, 3/4"		١.		١.		١.		١.		6
3	73346	Gasket	1	1	l	1	1	1 1	1	1	1 1	
4	191195E	Pulley, Crankshaft		1	1	1		1		1		
1 1	221295F	Pulley, Crankshaft		1		1		1	1	1	1	i
] _]	221495	Pulley, Crankshaft		ł				-		1		1
5 6	207980	Adapter										1
"	168682A 199060	Damper, Vibration Damper, Vibration		ŀ		1					1	
7	B3568	Pin, Dowel		i		i						1
8	21052	Washer, Lock, 3/8"	8000	ļ							2	
9	28384	Screw, Cap, Place Type, 3/8"-16 x 5/8"						{			4	6
	21352	Screw, Cap, Hex Head, 3/8"-16 x 1-1/4"	\$130.00 \$130.00			ł				1		6
10	168008	Taper, Crankshaft Pulley	1	1		1	1	1		1	1	"
11	164011	Gasket	1	1	1	1	1	1	11	1		
12	190012 190012C	Gear, Crankshaft Gear, Crankshaft		1	1	1	1	1	1	1	1	
13	26105	Key, Woodruff, No. 27	1	١.	1	١.		١.	1	١.		Ι
-	207988	Ball: Spherical		1		1	1	1	1	1		١. ا
14	181411	Crankshaft		1		1		1				1
	186311A	Crankshaft		Ť	1	1		1				
	191211B	Crankshaft					1	1				
	221211C	Crank shaft				1		1	1			
	221411F 221411H	Crankshaft Crankshaft	42.5					1		1	1	
15	181218A	Bearing, Main - Thrust	2	2		١,		1				1
'	191118B	Bearing, Main - Thrust	2	2	2	2	2	ĺ				
	221018E	Bearing, Main - Thrust				1		2	2	2	2	2
16	181122	Bearing, Main	4	4	6	6		-		٦		-
	191122	Bearing, Main	553	ł		1	6					
	221022D 221022E	Bearing, Main - Upper Only		l				6	6	6	6	6.
17	C180313C	Bearing, Main - Lower Only Flywheel Assembly		١.				6	6	6	6	6
	A190613G	Flywheel Assembly		1		1			1			
i i	C190613G	Flywheel Assembly			1	1	1	1		1	1	
١., ١	A221413A	Flywheel Assembly						_		_		1
18	. 180089	. Gear, Ring - Flywheel		1								
] [. 190065 . 190066	. Gear, Ring - Flywheel . Gear, Ring - Flywheel			1		1	1		1		
19	161632A	Tape, Timing				1			1		1	1
}	161633A	Tape, Timing	1	1	1	١.	1	1		1	1	
	161632D	Tape, Timing		1								1
20	21634	Washer, Internal Shakeproof, 7/16"	6	6								
[, [810245	Washer, Plain, 7/16"		•	6	6	6	6	6	6	6	6
21	118947 F 28469	Screw, Cap, Flywheel	6	6								1
	20400	Screw, Cap, Place Type, 7/16"-20 x 1-3/4"	811	i	6	6	6	6	6	6	6	6
		KITS										
}		Crankshaft and Crankshaft Bonning Vita										
{	044 000	Crankshaft and Crankshaft Bearing Kits										
{	911-203	Crankshaft 181411	1	1								
	911-231 911-232	Crankshaft 186311A Crankshaft 191211B (Includes Items 14-16 and			1	1						
}	911-233	Crankshaft 221211C Connecting Rod Bearings					1	1	1		1	
	911-234	Crankshaft 221411F						1		1	1	
	911-208	Crankshaft 221411H								1		$ _1 $
		Main Bearing Kits									(C.S.)	
	918157							;				
	918-206	(Includes Items 15, 16) (Includes Items 15, 16)	1	1		,						
	918-159	(Includes Items 15, 16)			1	1	1					
	918-256	(Includes Items 15, 16)						1		1		
	918-302	(Includes Items 15, 16)						•	1	•		1
اا			1900			L					10000	/

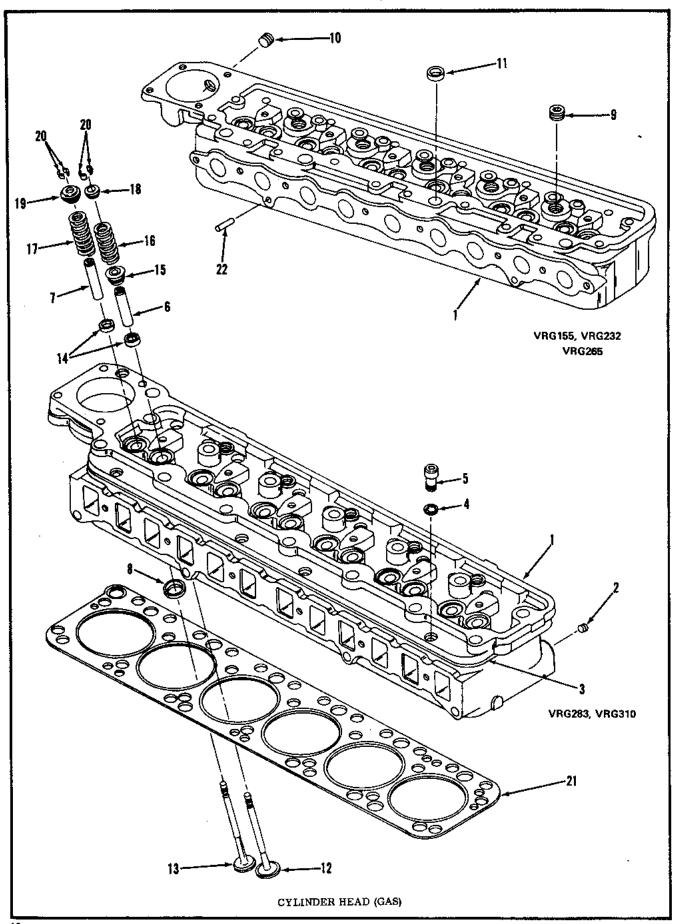






CAMSHAFT, IDLER GEAR Groups 15, 20, 23

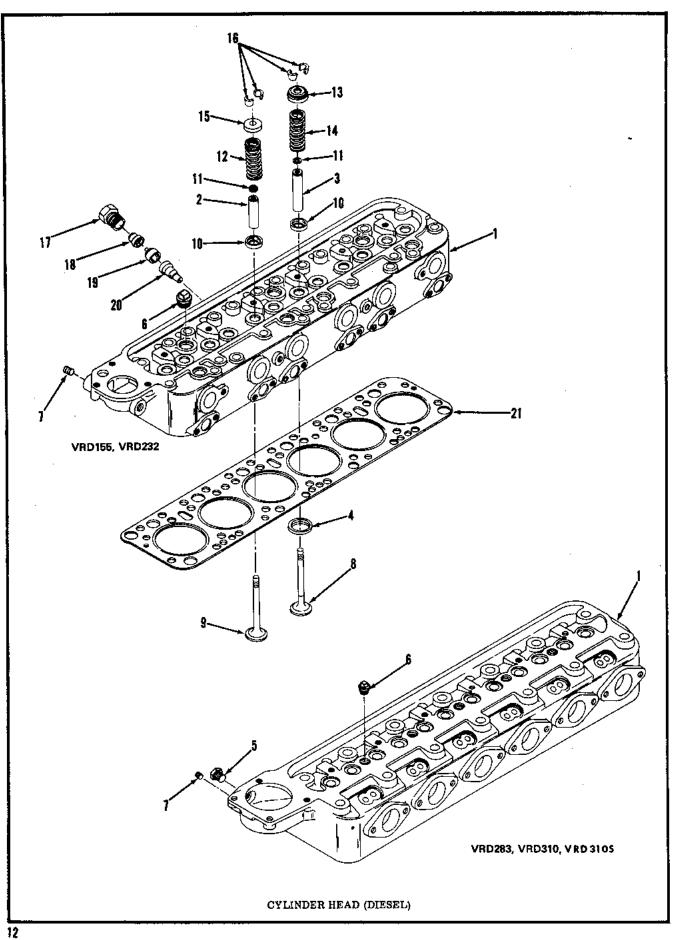
rem	PART		VRGISS	VRD155	VRG232	VRD232	VRG265	VRG283	VRD283	VRG310	VRD310	
۱۵.	NUMBER	NOMENCLATURE	Š	78.	X	VRC	VRC	VRG	VRE	VRC	188	Sales in the
1	180238A	Rod, Push	5		12							
Į	180338A	Rod, Push		×		12						ŝ
- 1	190438A	Rod. Push				,	12					â
	221038A	Rod, Push						12		12		200
2	223138	Rod, Push				10		12	12 12	10	12	\$ 7 P
۷	180037 C180323	Lifter, Valve Camshaft Assembly	9	8	12	12	12	12	1.4	12	1.4	28.8%
	A185223	Camshaft Assembly		1	1	1						1
ļ	A190223B	Camshaft Assembly				1	•	,				× 0
1	A222023A	Camshaft Assembly						1		1		8
- 1	A221623E	Camshaft Assembly			8127			, î	1	^	1	žėzes
3	. 180323	, Camshaft	1	1				l				2000
	. 185223	, Camshaft		_	1	1						(8 28 38 38
	. 190223B	, Camshaft				_	1	l				4
	. 222023A	. Camshaft						1		[] l		200
	, 221623E	. Camshaft						1	1 1		l T	3
4	. 190026	. Gear, Camshaft	1	1		1		1		1		3
	. 190126B	. Gear, Camshaft						1	1	ł	1	200
5	, 21011	. Key, Woodruff, No. 13	1	. 1	1	l		1		1		\$ 22.50
	. 21005	. Key, Woodruff, No. 6							1		1	×α
6	76420	Button, Thrust	1	1	1	1	1	1	1	1	1	*
7	74993	Spring, Thrust Button		1	1	1	1	1	1	1	1	*
8	1600278	Bushing, Camshaft (Pre-reamed to size)	1	1	1	1	***	4	4	4	4	
-	AC191315C	Gear, Idler - Assembly		1		1						ä
9	. C191315C	Gear, Idler - Assembly		1		1			1		1	å
10	191315C 21275	Gear, Idler Screw. Cap. Hex Head, 1/4"-20 x 3/4"		1		1					1	
11	21273	Washer, External Shakeproof, 1/4"	S 1812	2 2		2 2			2 2		2	200
12	, , 155193	, Gear, Fuel Pump Drive		1		1		l				8
13	. 180216A	. Spindle, Idler Gear		ľi		i			1		i	*
14	41349	Button, Thrust		li		li			1		i	250
15	150033	Spring, Thrust Button	20000	î		ì			ī		1	å
ŀ	1	KIT		1		1						
- 1		Camshaft Bushing Kit				l						2
	927-44	(Includes Item 8)						1	1	1	1	\$ (20 S)
		FLYWHEEL HOUSING, STARTER, SWITCH Groups 57, 204										020000000000000000000000000000000000000
16	60963	Starter	1656			1			1		1	200
	60965	Starter	1 1		1	ļ	1	1		1		3
	69580	Starter		1								388
17 18	21052 21348	Washer, Lock, 3/8"	13	13	13	13	13	13	13	13	13	22
10	C195157	Screw, Cap, Hex Head, 3/8"-16 x 1" Housing, Flywheel - Assembly	11	11	[1]	11	11	11	[11	11	11	200
19	180957	Housing, Flywheel - Assembly		١,								3
~ 1	190257J	Housing, Flywheel		1		1	1	١,	1	١.		3
- 1	, 195157	. Housing, Flywheel	888	į .		'		^		1	1	
20	. 21352	Screw, Cap. Hex Head, 3/8"-16 x 1-1/4"		Į							220000	000
21	. B9840D	. Spacer										ŝ
22	. 26794	. Pin, Roll, 3/8" x 1"	30000					l	Ö			**
23	21305	Screw, Cap, Hex Head, 5/16"-18 x 1/2"				1		1	1	1	1	
24	21051	Washer, Lock. 5/16"	N. C.		1	1	1	1	1	1	Ĩ	
25	117235	Cover, Timing	1000		1 1 2	ī	1 1 1	ī	1	1	1	
26	116242	Pointer, Timing			1	1	1 2	1		1		<u>ا</u>
27	B9132	Pin, Dowel	2	2	2	2	2	2	2		2	
28	B7042B	Pointer, Timing	1	1	K 1	l		l		Ī		200
29	B7042	Cover, Timing	1	1						ļ		200
30 31	21050	Washer, Lock. 1/4"	2	2		1		l		l		
31	21271 116845	Screw, Cap. Hex Head, 1/4"-20 x 1/2" Plate, Dust	2	2		۱.		١.		_		200
"	116845D	Plate, Dust		1	1	1	1	1		1	1	27.77
33	Y18813H	Washer, Plain, 3/8"					ķii.			1		
	21343	Screw. Cap. Hex Head, 3/8"-16 x 3/4"	2	2	2	2	2	2	2	2	2	(23)
34												





CYLINDER HEAD (GAS) Group 2

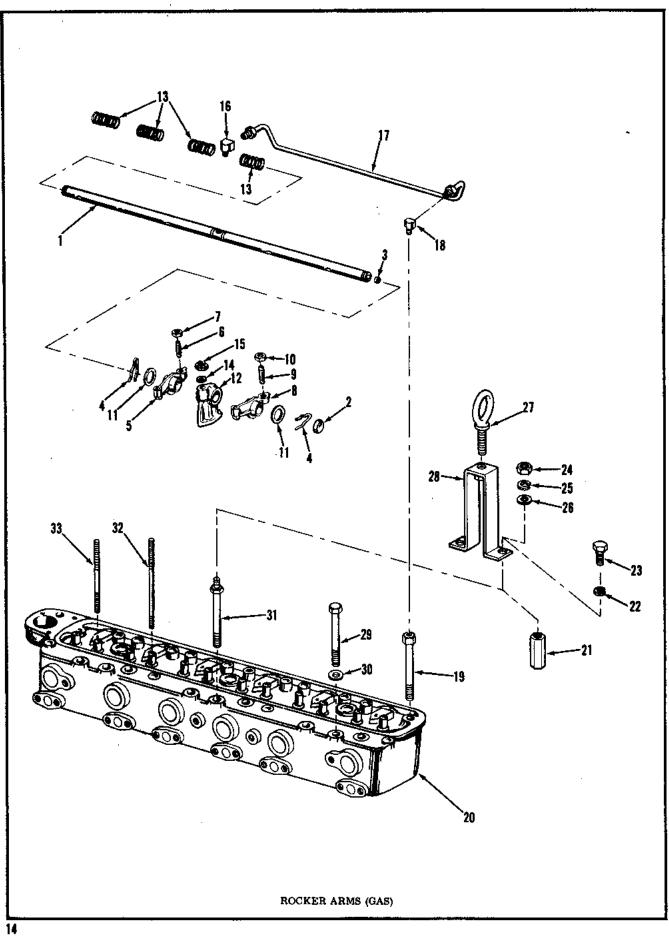
			50	155	232	RD232	265	283	VRD283	310	916	
IO.	PART NUMBER	NOMENCLATURE	VRG155	VRD155	VRG232	RD.	VRG265	VRG283	803	VRG310	VRDSIG	
101		- COMPRESSIONE		-		^	2	>				F
	AM180602	Head, Cylinder - Assembly	1									
	EC185502D	Head, Cylinder - Assembly			1	,						
	AK190902E	Head, Cylinder - Assembly		1		ŀ	1					4
, }	AC222502B	Head, Cylinder - Assembly		1				1		1		
1	. M180602 . C185502D	Head, Cylinder	1	ŀ								
	. K190902E	. Head, Cylinder . Head, Cylinder	1921	1			1	'		l		
	. C222502B	. Head, Cylinder	368	1				1		1		1
2	26411	. Plug, Pipe, Allen Head, 1-3/8"						2		2		
3	163674	Gasket, Cylinder Head Top to Cylinder Head				ŀ				-		
		Bottom (Caution: Refer to Service Bulletin		1				١.		ŀ		1
- 1		No. '7-1841B if necessary to replace this gasket)	10.00					1:		1		
4	26565	Washer, Internal Shakeproof, 3/8"			w.	-		10		10		
5	21544	Screw, Cap, Socket Head, 3/8"-16 x 1"		1				10		10		1
6	190109	Guide, Valve - Intake				ļ	6			ŀ		1
_	222209	Guide, Valve - Intake	4		6	į		6		6		
7	180009D	Guide, Valve - Exhaust	#			l				1		
ł	180009E	Guide, Valve - Exhaust Guide, Valve - Exhaust	100		6			ا _		ہ ا		1
8 1	224509 164765B	Insert, Valve Seat - Exhaust					6	6		6		3
٦	164763B	. Insert, Valve Seat - Exhaust	4	1				[1
1	166529	Insert, Valve Seat - Exhaust			6							ı
- 1	166469	Insert, Valve Seat - Exhaust]		•	6	6				1
9	78283C	Plug, Pipe, Countersunk Headless, 1"		1			3	°		6		۱
	B4171	Plug, Expansion	5		7							ı
0	21951	Plug, Pipe, Countersunk Headless, 3/8"						2		1		
I	157110	Plug, Cup	11.5			ŀ	4	-		1		ı
2	. 180336C	. Valve, Intake	4	1 .	2000							
- 1	, 190036A	. Valve, Intake			6							
- 1	. 190736B	. Valve, Intake				ĺ	6					ı
. 1	. 222436B	. Valve, Intake						6		6		ı
.3	. 190336C	. Valve, Exhaust	4									
	. 190136D	. Valve, Exhaust	8000	1	6							۱
	. 190636 . 222536C	. Valve, Exhaust	*******			İ	8					ı
4	. 162406	. Valve, Exhaust . Collar, Valve Spring]				6		6		
5	. 166870	. Conar, valve Spring . Seal, Valve Stem – Intake	8		12			_				۱
ة 6	. 190035	. Spring, Valve - Intake	1	ţ	В		8	6		6		ı
_	. 224135	. Spring, Valve - Intake	4		6		6	6		,		1
7	. 190235	. Spring, Valve - Exhaust	4					0.		6		ı
	. 224035A	. Spring, Valve - Exhaust		[6		6	6		6		ı
8	. 76771	. Retainer, Valve Spring - Intake	4		8			0		١		ı
1	. 163670	. Retainer, Valve Spring - Intake					6	6		6		1
9	. 151398	, Rotator, Valve - Exhaust	4	1					# (15 l d l # (17 l d l			۱
.	. 166518	. Rotator, Valve - Exhaust	1800	ł	6		6	6.		6		1
0	. B6466A	. Taper, Valve Spring	16		24			:				1
.	. 163235	. Taper, Valve Spring					24	24		24		ı
1	180100	Gasket, Cylinder Head	1	1								1
	185000D	Gasket, Cylinder Head	5500		1							1
	191300E 221600K	Gasket, Cylinder Head			333		1					ı
2	B9824	Gasket, Cylinder Head Pin, Dowel	600	1				1		1		4
_	27721	and worth			2		8	4		4		1
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CYLINDER HEAD (DIESEL) Group 2

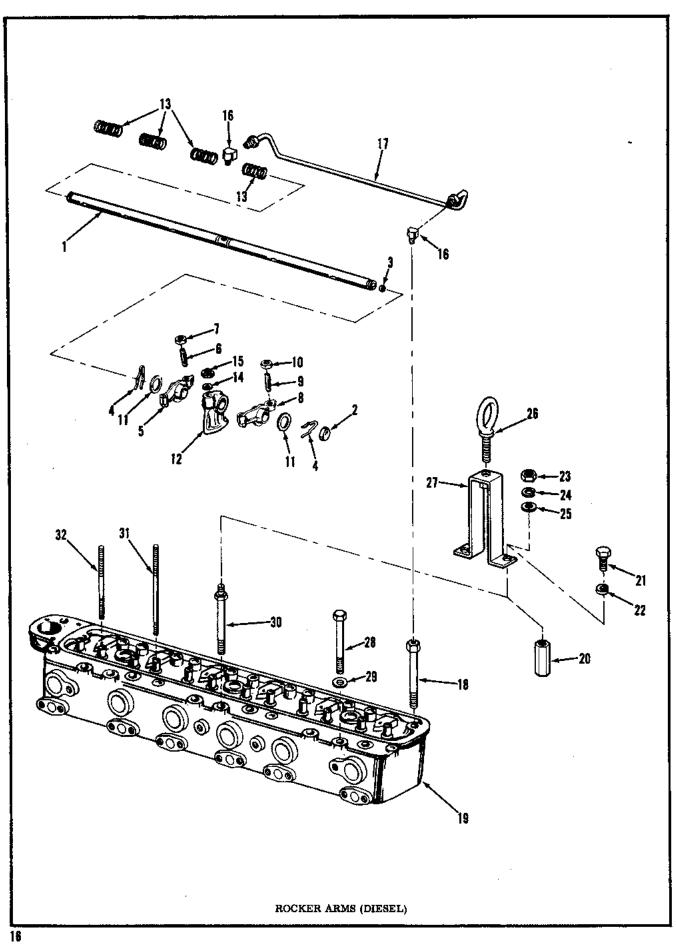
			371.11 371.22 371.22			~	m	m				Ŋ
ITEM	PART	·	VRGISS	VRD155	VRG232	VRD232	VRG265	VRG283	V80283	VRG310	VRD310	VRD310S
NO.	NUMBER	NOMENCLATURE	X	VRE	VRC	Z Z	VRC	VRG	VRD	VRG	78.0	V 20
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	CE181502B AA186402K CA223202Y AA223202W . E181502B . A186402K . A223202Y . A223202Y . A223202Y . A223202W . 180009D . 223009A . 181009C . 223009A . 163215C . 28543 . B4171 . 78283B . 21951 . 26750 . 186236A . 223236 . 223236 . 223236 . 223236 . 163236 . 1	Head, Cylinder - Assembly Head, Cylinder - Assembly Head, Cylinder - Assembly Head, Cylinder - Assembly Head, Cylinder Head, Cylinder Head, Cylinder Head, Cylinder Head, Cylinder Head, Cylinder Head, Cylinder Head, Cylinder Guide, Valve - Exhaust Guide, Valve - Exhaust Guide, Valve - Intake Guide, Valve - Intake Head, Cylinder Head, Cylinder Guide, Valve - Intake Guide, Valve - Intake Head, Sylinder Hex Head, 3/8" Hex Head, 3/8" Hex Head, 3/8" Hex Head, 3/8" Hex Head, 1-3/4" Hey, Pipe, Expansion Hex Head, 1/4" Valve, Intake Valve, Intake Valve, Intake Valve, Intake Valve, Intake Valve, Intake Valve, Exhaust Valve, Exhaust Valve, Exhaust Valve, Exhaust Collar, Valve Spring Seal, Valve Stem - Intake Seal, Valve Stem - Intake Rotator, Valve -		1 1 4 4 5 4 4 4 4 4 4 4 4 1 1		1 1 6 6 6 7 2 6 6 6 6 6 6 6 6 6 1						1 1 6 6 1 5 6 6 6 6 6 6 24 1





ROCKER ARMS (GAS) Group 2

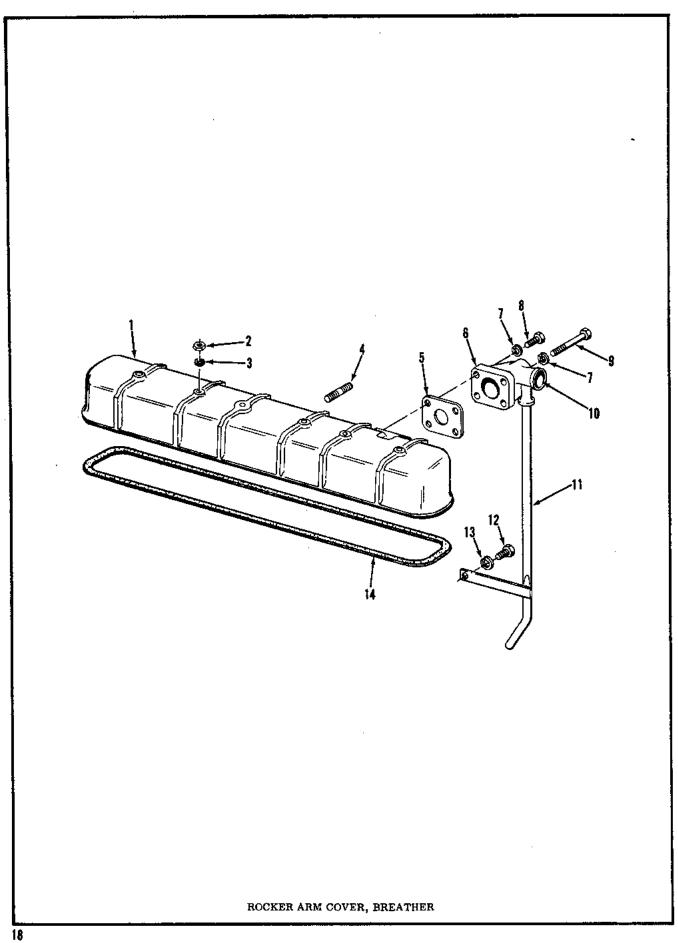
ITEM	PART		155	155	232	232	263	283	283	RG310	310	201000
NO.	NUMBER	NOMENCLATURE	VRGISS	VRD155	VRG232	VRD232	VRG265	VRG283	VRD283	VRG	VRD310	4
	E0180153	Shaft, Rocker Arm - Assembly										Γ
	CA185153	Shaft, Rocker Arm - Assembly						f				
	AA190253C	Shaft, Rocker Arm - Assembly		9			1	ŀ				
1	AA222053E . 0180153	Shaft, Rocker Arm - Assembly						1		1		ı
- 1	. A185153	. Shaft, Rocker Arm . Shaft, Rocker Arm	1					Ì				1
	. A190253C	. Shaft, Rocker Arm	[175.6 [27.6]	3								ı
	. A222053E	. Shaft, Rocker Arm		3			1	١.,				ĺ
2	B2857	Plug, Cup					2	1		1		ı
3	118028A	Plug, Restrictor			2			2 :		2		ı
4	. 76898	. Cotter, Rocker Arm Shaft	4		4		4	4		4		l
5	. 0180567A	. Arm, Rocker - Assembly - R. H.	4		6			-		*		ı
ا ہ	. C222067A	. Arm, Rocker - Assembly - R. H.		1			6	6		6		
6	120860	Screw, Adjusting		1	6		8	6		Ğ		
7 8	21195 . 0180467A	. Nut, Thin Hex, 3/8"-24	4		6		6	6		6		
°	. C222167A	Arm, Rocker - Assembly - L. H.	4	3	6					:		
9	120860	. Arm, Rocker - Assembly - L. H Screw, Adjusting		3			6	6		6		1
10	21195	Nut, Thin Hex, 3/8"-24	1.3		6		6	6		6		
11	. 76899	. Washer, Plain	4		6		6	6		6		
- 5	117489	. Spacer	4	3	4			10				
12	. 180068F	. Support, Rocker Arm	4		6		16 6	12 6		12 6		ı
13	. 73888	. Spring	2		4		4	4	100000	4		ı
14	B6717	Washer, Plain, 3/8"	4		6		6	6		6		ı
15	177299A	Nut, Lock - Elastic Stop, 3/8"-24	4	: 1	6		6	6		6		ı
16	73017A	Connector, Inverted						ĭ		ĭ		
.,,	73018A	Elbow, Inverted	1 2		1		1	_		_		
17	0151103	Line, Oil	15.3		2000							ĺ
i	A151161A A159190	Line, Oil					1	1		1		ĺ
18	73018A	Line, Oil Elbow, Inverted	82		1			1				ĺ
19	116273	Screw, Cap, Cylinder Head (Drilled)			1	-	1	1		1		į
	117456	Screw, Cap, Cylinder Head (Drilled)	1	1	12					li		ĺ
	155169	Screw, Cap, Cylinder Head (Drilled)					1	١, ١		,		
20	M180602	Head, Cylinder (See Page 11)	1			i		1		1		ĺ
į	C185502D	Head, Cylinder (See Page 11)	355	1						. [ĺ
	K190902E	Head, Cylinder (See Page 11)	1979 S				1					
!	C222502B	Head, Cylinder (See Page 11)	2000 2008	1				1		1		
21	157267A	Adapter, Eye Bolt				l	2	_				
.	199123A	Adapter, Eye Bolt	88	1	882			2		2		
22 23	26126	Washer, Lock, 9/16"	0m(2):1 22:50:30					2		2		
40	21428 26987	Screw, Cap, Hex Head, 1/2"-13 x 1-1/4"					2					
24	21205	Screw, Cap, Hex Head, 9/16"-18 x 1" Nut, Hex, 1/2"-13	199	1				2		2		
25	21054	Washer, Lock, 1/2"	2		2							
26	Y18813K	Washer, Plain, 1/2"	2 2	1	2 2		2					
27	151182	Bolt, Eye	1		1		2 2 1	1		,		
28	A151286A	Bracket, Lifting	ĺi		1				100	1		
	C199122	Bracket, Lifting						1		1		
1	A199948A	Bracket, Lifting	[0.003]				1	_ [-1		
29	116312	Screw, Cap, Cylinder Head	8		14			1				
i	159030	Screw, Cap, Cylinder Head		1			427	11		11		
30	164472	Screw, Cap, Cylinder Head					19			- 1		
°° l	B355 155064	Washer, Cylinder Head Cap Screw					22	1	200			
31 I	116777	Washer, Cylinder Head Cap Screw	# # # # # # # # # # # # # # # # # # #	1				14		14		
	117457A	Screw, Cap, Cylinder Head Screw, Cap, Cylinder Head	2	1	2					- 1		l
- 1	159029	Screw, Cap, Cylinder Head Screw, Cap, Cylinder Head		1			2	_ [w	_]		
32	156827B	Stud, Rocker Arm Support	l Acti	1	,		_	2		2		l
-	156827D	Stud, Rocker Arm Support	.	!	2		2	۱,		ا ۾		į
33	117453	Stud, Rocker Arm Support		1	4		1,15	2		2		į
1	156827	Stud, Rocker Arm Support		j	•	1	4	Į			(#) (E)	
	156827A	Stud, Rocker Arm Support	4	1		ł		4		4		
		-,		1		j		1		*		
				1		ļ		ſ				
			13.33	1	19884		888	- 1	1000			í





ROCKER ARMS (DIESEL) Group 2

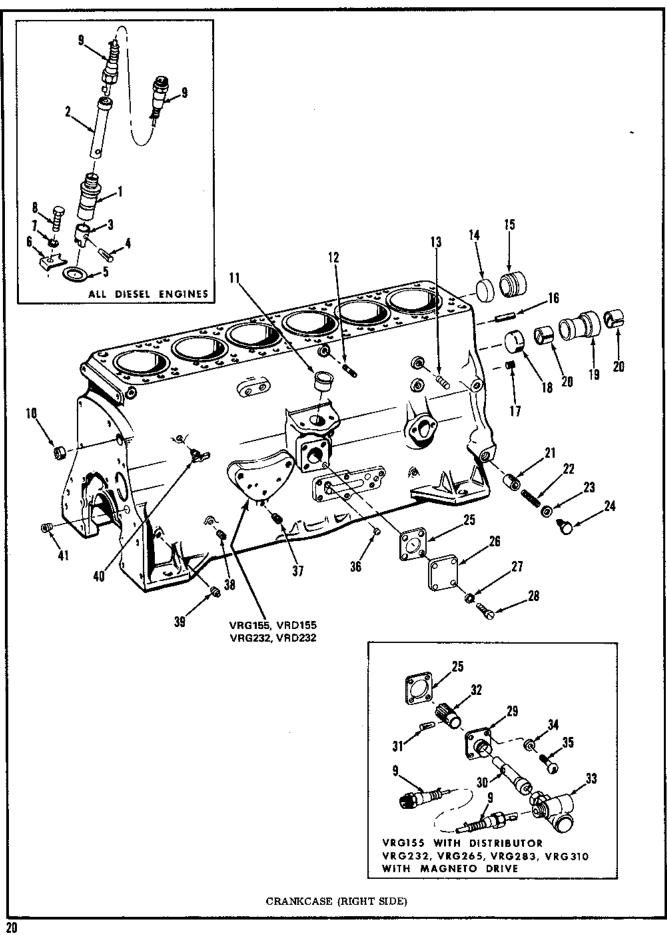
ļ			VRG155	55	VRG232	VRD232	VRG265	VRG283	VRD283	02	2	VRD310S
ITEM	PART		9	VRD155	8	0	6	62	6	VRG310	VRD310	03
NO.	NUMBER	NOMENCLATURE	5	>	Š	× ×	ž	VR	X	VR	ž	\ <u>\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \</u>
	G0180153	Shaft, Rocker Arm - Assembly		1								Г
	AA185153	Shaft, Rocker Arm - Assembly	(0.00)	1		1						i
	AA223169A	Shaft, Rocker Arm - Assembly	100000 100000					ļ	1		1	1
1	. 0180153	. Shaft, Rocker Arm		1		1		ŀ				i
- 1	. A185153	. Shaft, Rocker Arm	0.000 Nexton			1						i
2	. A223169A B2857	. Shaft, Rocker Arm Plug, Cup							1		ı.	1
3	118028A	Plug, Cup Plug, Restrictor		2		2			2		2	2
4	. 76898	. Cotter, Rocker Arm Shaft	2000	4		1 4					4	١,
5	. 0180567A	. Arm, Rocker - Assembly - R. H.	\$27.72.00 \$1.409.00 \$1.409.00 \$1.409.00	4		6			4		*	4
ŀ	. A223367	. Arm, Rocker - Assembly - R. H.	117000 207007 1107057] ~		ľ			6		ß	6
6	120860	Screw, Adjusting	2000	4		6			6		6	š
7	21195	Nut, Thin Hex, 3/8"-24	100000 000000	4		6		:	6		8	6
8	. 0180467A	. Arm, Rocker - Assembly - L.H.		4		6						Ĭ
	. A223267	. Arm, Rocker - Assembly - L. H.							6		6	6
.9	120860	Screw, Adjusting		4		6			6		8	6
10 11	21195 . 76899	. Nut, Thin Hex, 3/8"-24	66.070	4		6		l	6		6	6
12	. 180068F	. Washer, Plain . Support, Rocker Arm		8		12						
	. 223068	. Support, Rocker Arm		4		6						_
13	. 73888	. Spring		2		4			4		6	6
14	B6717	Washer, Plain, 3/8"		4	******	6					4	4
]	21052	Washer, Lock, 3/8"		-		ľ					6	6
15	21193	Nut, Hex, 3/8"-24							6		8	6
	177299A	Nut, Lock - Elastic Stop, 3/8"-24		4		6						Ů
16	73018A	Elbow, Inverted	# # # # # # # # # # # # # # # # # # #	2		2			2	:	2	2
17	0151103	Line, Oil	\$0.00 \$1.00	1		1						ĺ
	A151161A	Line, Oil							1		1	1
18	A159190 116273	Line, Oil				1						ĺ
10	155169A	Screw, Cap, Cylinder Head (Drilled) Screw, Cap, Cylinder Head (Drilled)	1000	1		1						ĺ
	168722B	Screw, Cap, Cylinder Head (Drilled)	5000						1			
19	E181502B	Head, Cylinder (See Page 13)		1							1	1
	A186402K	Head, Cylinder (See Page 13)	į į	1 '		1				- 1		ĺ
	A223202Y	Head, Cylinder (See Page 13)	1000			1			1	1		ĺ
	A223202X	Head, Cylinder (See Page 13)								1	1	ĺ
	A223202W	Head, Cylinder (See Page 13)			100000 1000000					j		1
20	199123A	Adapter, Eye Bolt							2	•	2	
., 1	157268	Adapter, Eye Bolt		1					(22.80	į		1
21 22	26987	Screw, Cap, Hex Head, 9/16"-18 x 1"	8333					!	2		2	ĺ
23	26126 21205	Washer, Lock, 9/16" Nut, Hex, 1/2"-13	litti:						2		2	ĺ
24	21054	Washer, Lock, 1/2"	1000	2		2						ĺ
25	Y18813K	Washer, Plain, 1/2"	200	2 2		2 2					30000	ĺ
26	151182	Bolt, Eye	820	1		1						ĺ
1	117974A	Bolt, Eye		1 * 1		١.			3]	1	1
27	0151286	Bracket, Lifting		1		ı				1		1
- 1	C199122	Bracket, Lifting	560	1	Carry Sport			:	1	l	1	ĺ
28	116312	Screw, Cap, Cylinder Head	i i i i i i i i i i i i i i i i i i i	15		22						
- 1	159030B	Screw, Cap, Cylinder Head	2,61						11			l
• l	168722A	Screw, Cap, Cylinder Head	1000						18.3		11	11
29	B355 152879	Washer, Cylinder Head Cap Screw	1,000	17		25	18 X.					
	155064	Washer, Cylinder Head Cap Screw Washer, Cylinder Head Cap Screw									14	14
30	116777	Screw, Cap, Cylinder Head		2		2		ļ	14			i
	159029A	Screw, Cap, Cylinder Head		2		ľ			2			Į
	166652A	Screw, Cap, Cylinder Head									2	2
31	156827B	Stud, Rocker Arm Support	11000			2			2			, "
	156827D	Stud, Rocker Arm Support				[[2	2
32	44544	Stud, Rocker Arm Support					188		4		4	4
	117453	Stud, Rocker Arm Support		4		4			1400 i		182	ĺ
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			light.	'					2382			
- 1	 		1475g	ł .	1000		1838		W. 152			É





ROCKER ARM COVER, BREATHER Groups 39, 70

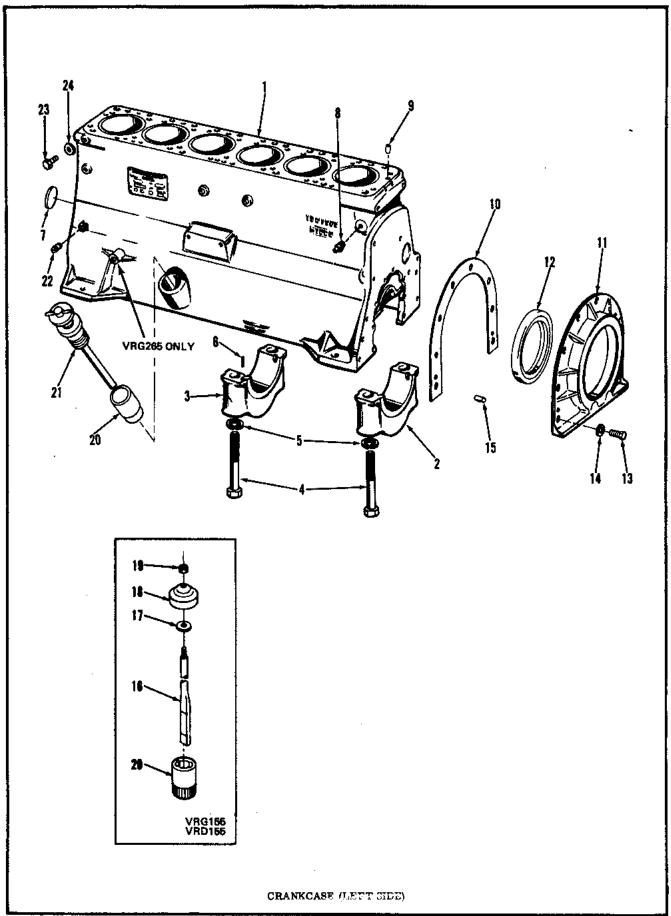
ITEM NO.	PART NUMBER	NOMENCLATURE	VRG155	VRD155	VRG232	VRD232	VRG265	VRG283	VRD283	VRG310	VRD310	VRD3105
1	180239	Cover, Rocker Arm	1	1								
,	185139	Cover, Rocker Arm	33333		1	1						
,	190539	Cover. Rocker Arm					1					
	221039	Cover, Rocker Arm						1		1		
	223139	Cover, Rocker Arm							1		1	1
2	21193	Nut, Hex. 3/8"-24	4	4	6	6	6	6	8	6	6	6
3	Y18813H	Washer. Plain. 3/8"	4	4	6	6	6	6	6	G	6	6
4	155380	Stud					2	2		2		
5	199412	Gasket. Breather Flange	1	1		1	l i	1	1	1	1	1
6	164822	Flange, Breather	1	1								
	199413	Flange, Breather			1	1	1	1	1	1	1	1
7	21050	Washer, Lock. 1/4"	4	4	4	4	4	4	4.	4	4	4
8	21275	Screw, Cap. Hex Head. 1/4"-20 x 3/4"		1	2	2	2	2	2	2	2	2
9	21293	Screw, Cap. Hex Head. 1/4"-20 x 2-1/4"	2	2	2	2	2	2	2	2	2	2
10	199414	Plug	Į.	1	1	1	1	1	*	1	1	1
11	199411	Tube. Breather							1		4	1
	199411A	Tube, Breather					1	1		1		
	199411B	Tube. Breather			1	1						
	207474	Tube, Breather	1	1								
12	21340	Screw, Cap. Hex Head, 3/8"-16 x 5/8"					1	1	1	1	1	1
13	21052	Washer, Lock, 3/8"					1	1	1	1	1	1
14	180040D	Gasket, Rocker Arm Cover	1	1								
	185040D	Gasket, Rocker Arm Cover			1	1						
	162551A	Gasket, Rocker Arm Cover					1					
	159020D	Gasket, Rocker Arm Cover						1		1		
	190040G	Gasket, Rocker Arm Cover	11111						1		1	1
	i '											
							10.00					





CRANKCASE (RIGHT SIDE) Group 20

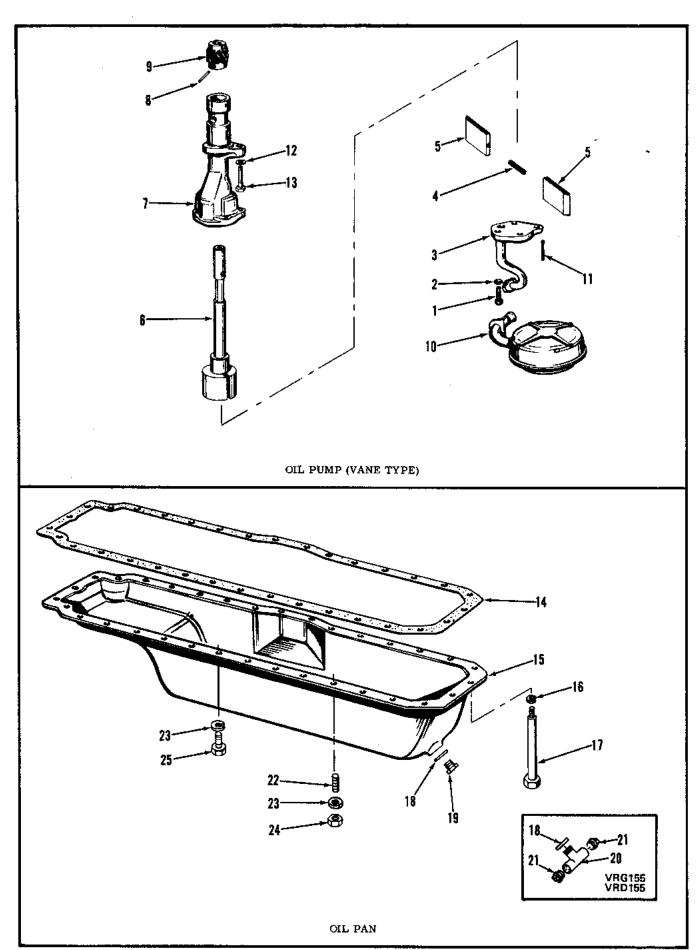
ITEM	PART		VRG155	VRD155	VR0232	VRD232	VRG265	VRG283	VRD283	RG310	VRĎ310	VRD310S
NO.	NUMBER	NOMENCLATURE	5	5	5	<u>×</u>	Ž	V.	3	V	5	× ×
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41	C73640E . 73640E . 73640E . 73639B . B5634A . B6169 116292 118769 21052 21350 158858A 158858C 120934 80118 B8053 B1437 B2240 73314A 168105 160024 78280B B6156 0120916A . 120921 150116 118172 B8230 150134 120180B 26758 26051 26189 26390 E161520 . 161520 . 161520 . 199701 . B4027 . 161518 74541C 26758 26051 157109 Y18802 78283G 26743 76400 78282C 21951	Drive, Tachometer Drive Shaft, Tachometer Drive Coupling Pin, Groove, 1/8" x 1" Gasket. Tachometer Drive Clamp, Tachometer Drive Washer, Lock, 3/8" Sorew. Cap. Hex Head, 3/8"-16 x 1-1/8" Cable. Tachometer Cable. Tachometer Cable. Tachometer Cable. Tachometer Plug. Cup Plug. Distributor Hole Stud Stud Stud Plug, Cup Bushing, Governor Gear Tube, Oil, Timing Gears Plug, Pipe, Slotted Head, 1/4" Plug, Idler Hole Sleeve, Idler Gear - Assembly Bushing, Idler Gear Plunger, Oil Relief Valve Spring, Oil Relief Valve Spring, Oil Relief Valve Gasket, Cover Plate, Cover Plate, Cover Plate, Cover Washer, Cloper Washer, Plain - Copper, 3/16" Screw, Machine, Fillister Head, No. 10-24 x 5/8" Screw, Machine, Fillister Head, No. 10-24 x 7/8" Drive, Tachometer Assembly Body, Tachometer Drive Pin, Groove, 1/8" x 3/4" Gear, Tachometer Drive Adapter, Right Angle Washer, Plain - Copper, 3/16" Screw, Machine, Round Head, No. 10-24 x 5/8" Plug, Gran, Tachometer Drive Adapter, Right Angle Washer, Plain - Copper, 3/16" Screw, Machine, Round Head, No. 10-24 x 5/8" Plug, Gear, Tachometer Drive Adapter, Right Angle Washer, Plain - Copper, 3/16" Screw, Machine, Round Head, No. 10-24 x 5/8" Plug, Cup Plug, Pipe, Allen Head, 1/8" Plug, Pipe, Countersunk Headless, 1/4" Plug, Pipe, Square Head, 1/4" Plug, Pipe, Square Head, 1/4" Plug, Pipe, Countersunk Headless, 3/8"		111112221111111144	THE PHASE BARBER BA MENTALWA MARK	1 1 1 1 2 2 2 1 1 1 1 1 1 4 4 4 1 2 1 1		1	THE PROPERTY OF MANY THE STREET	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A THE STATE OF THE	11111222 111114 4





CRANKCASE (LEFT SIDE) Group 20

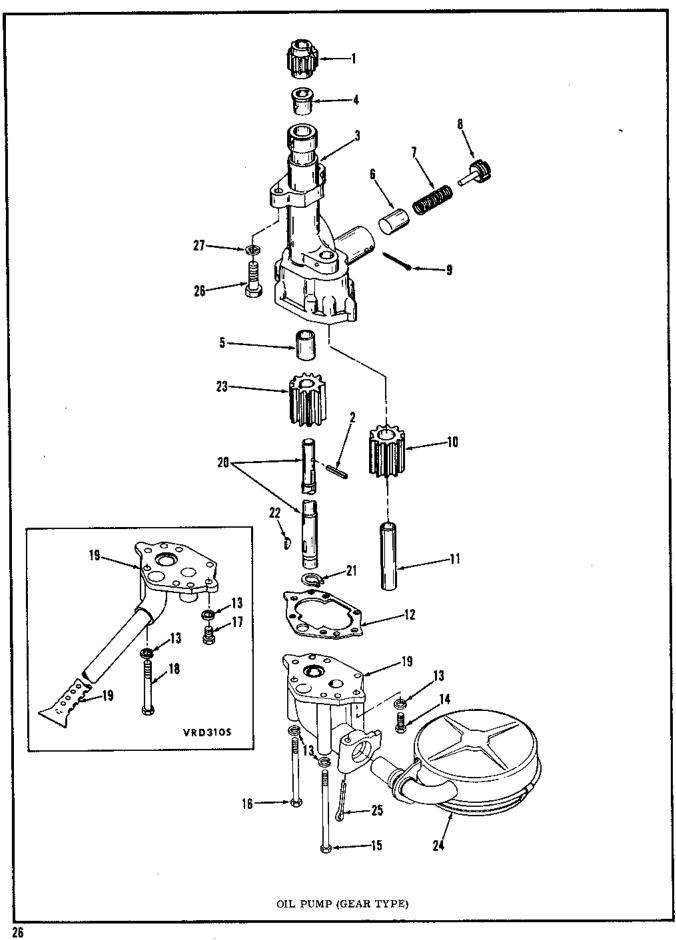
A180220L A180220L A180520 Crankcase Assembly (Includes Camshaft Bushing) A190620B A221620H A2216	ITEM	PART		VRG135	VRD155	VRG232	VRD232	VRG265	VRG283	VRD283	VRG310	VRDSIO	VRD3105
A185320 A19620B A221620G A221620G C7ankcase Assembly (Includes Camshaft Bushing) A221620G C7ankcase Assembly (Includes Camshaft Bushing) C7ankcase Assembly (Includes	NO.	NUMBER	NOMENCLATURE	3	5	3	>	5	>	2	Σ	5	× ×
A190c20B A221620H Crankcase Assembly (Includes Camshaft Bushing) A221620J Crankcase Assembly (Includes Camshaft Bushing) C221350F Crankcase Assembly (Includes Camshaft Bushing) C221350F Crankcase Assembly (Includes Camshaft Bushing) C221046A C 190046D Cap, Main Bearing (Serviced only as Semi-Innished) C221046B Cap, Main Bearing (Serviced only as Semi-Innished) C3, Main Bearing (Serviced only as Semi-Innished) C4, C4p, Main Bearing (Serviced only as Semi-Innished) C5p, Main Bearing (Serviced only as Semi-Innished) C4p, Main Bearing (Serviced only as Semi-Innished) C5p, Main Bearing C5p C5p, Main B	1		Crankcase Assembly (Includes Camshaft Bushing)	1	1								
A221620G	i		Crankcase Assembly (includes Camshaft Bushing)		1.	1	1]				ı
A221620H Crankcase Assembly (Includes Camshaft Bushing) C221320F Crankcase Assembly (Includes Camshaft Bushing) C221046A Cap. Main Bearing (Serviced only as Semi-finished) C21046B Cap. Main Bearing (Serviced only as Semi-finished) Cap. Main Bearing - Thrust (Serviced only as Semi-finished) Cap. Main Bearing - Thrust (Serviced only as Semi-finished) Cap. Main Bearing - Thrust (Serviced only as Semi-finished) Cap. Main Bearing - Thrust (Serviced only as Semi-finished) Cap. Main Bearing - Thrust (Serviced only as Semi-finished) Cap. Main Bearing - Thrust (Serviced only as Semi-finished) Cap. Main Bearing - Thrust (Serviced only as Semi-finished) Cap. Main Bearing Cap Cap. Main Main Bearing Cap Cap. Main Main Bearing Cap Cap. Main Main Bearing Cap Cap	j		Crankcase Assembly (Includes Camshatt Bushing)					1					
A221620J Crankcase Assembly (Includes Camshaft Bushing) 2 2 3 3 3 4 4 4 4 4 4 4			Crankcase Assembly (Includes Camshaft Bushing)	0.000					1		1		ł
C221520F Crankcase Assembly (includes Camshaff Bushing) Cap. Main Bearing (Serviced only as Semi-finished) 2 2 3 3 3 6 6 6 6 6 6 6			Crankcase Assembly (Includes Camshatt Bushing)						1		1	1	l
2 . 180046C	- 1		Crankcase Assembly (Includes Camshatt Bushing)	\$20000 \$20000	1				Ì	1			l
1900440	2 1		Can Main Bearing (Serviced only as Bushing)				_						1
Cap. Main Bearing (Serviced only as Semi-finished) Cap. Main Bearing (Serviced only as Semi-finished) Cap. Main Bearing (Serviced only as Semi-finished) Cap. Main Bearing - Thrust (Serviced only as Semi-finished) Cap. Main Bearing - Thrust (Serviced only as Semi-finished) Cap. Main Bearing - Thrust (Serviced only as Semi-finished) Cap. Main Bearing - Thrust (Serviced only as Semi-finished) Cap. Main Bearing - Thrust (Serviced only as Semi-finished) Cap. Main Bearing - Thrust (Serviced only as Semi-finished) Cap. Main Bearing Cap Serew. Main Bearing Cap Masher. Lock, 1/2" Cap. Main Bearing Cap Masher. Lock, 1/2" Cap. Main Bearing Cap Masher. Lock, 9/16" Cap. Main Bearing Cap Cap. Masher. Lock, 9/16" Cap. Main Bearing Cap Cap. Masher. Lock, 9/16" Cap. Masher	_ ~		Cap. Main Bearing (Serviced only as Semi-Hinished)	- 4	1 Z		3						ĺ
1	1		Can Main Bearing (Serviced only as Semi-Hnished)		1				,		١		
1	1		Can Main Bearing (Serviced only as Semi-Hillshed)	90.85 20.03] 6	- 65	- 6	6	
Semi-finished Cap. Main Bearing - Thrust (Serviced only as Semi-finished) Cap. Main Bearing - Thrust (Serviced only as Semi-finished) Cap. Main Bearing - Thrust (Serviced only as Semi-finished) Cap. Main Bearing - Thrust (Serviced only as Semi-finished) Cap. Main Bearing - Thrust (Serviced only as Semi-finished) Cap. Main Bearing Cap Serve. Main Serve. Main Bearing Cap Serve. Main Serve. Serve. Main Bearing Cap Serve. Main Serve. Se	3		Can. Main Bearing - Thrust (Serviced only as	200	1								6
180049D				100	1,		1				1		
Semi-Inished Semi	- 1	. 190049D			'		1						
Cap. Main Bearing - Thrust (Serviced only as Semi-finished) Cap. Main Bearing - Thrust (Serviced only as Semi-finished) Cap. Main Bearing Cap Servew, Main Bearing Cap Servew, Main Bearing Cap Servew, Main Bearing Cap Servew, Main Bearing Cap Servew, Main Bearing Cap Servew, Main Bearing Cap Servew, Main Bearing Cap Servew, Main Bearing Cap Servew, Main Bearing Cap Servew, Main Bearing Cap Servew, Main Bearing Cap Servew, Main Bearing Cap Servew, Serv	1												1
Semi-finished) Cap. Main Bearing - Thrust (Serviced only as Semi-finished) Semi-finished) Seriew. Main Bearing Cap 156062 Serew. Main Bearing Cap 156062 Serew. Main Bearing Cap 121055 21054 Washer. Lock, 1/2" Washer. Lock, 5/8" Washer. Lock, 9/16" B1883 Pin. Dowel Pin, Dowel Pin, Dowel Pin, Expansion Plug. Pipe. Square Head, 1/2" Plug. Pipe. Countersunk Headless. 1/2" Plug. Pipe. Countersunk Headless. 1/2" Plug. Pipe. Countersunk Headless. 1/2" Plug. Pipe. Countersunk Headless. 1/2" Plug. Pipe. Countersunk Headless. 1/2" Plug. Pipe. Countersunk Headless. 1/2" Plug. Pipe. Countersunk Headless. 1/2" Plug. Pipe. Countersunk Headless. 1/2" Plug. Pipe. Countersunk Headless. 1/2" Plug. Pipe. Countersunk Headless. 1/2" Plug. Pipe. Countersunk Headless. 1/2" Plug. Pipe. Countersunk Headless. 1/2" Plug. Pipe. Countersunk Headless. 1/2" Plug. Pipe. Countersunk Headless. 1/2" Plug. Pipe. Countersunk Headless. 1/2" Plug. Pipe. Countersunk Headless. 1/2" Plug. Pipe. Countersunk Headless. 1/2" Plug. Pipe. Countersunk Headless. 1/2" Seal. Oil Retainer Gasket, Oil Retainer Gasket, Oil Retainer Seal. Oil - Rear Seal. Oil - Rear Seal. Oil - Rear Seni-finished) Seal (Rear) Seal. Oil - Rear Seni-finished Seal. Oil - Rear Seni-Cap. Hex Head, 5/16"-18 x 1/2" Seal.	1	. 221049A		(1000) (1000)	1						1		
Cap. Main Bearing - Thrust (Serviced only as Semi-Inished)	i 1)				١,	4	١,		
Semi-finished Semi-finished Semi-finished Serew. Main Bearing Cap Serew. Sere		. 221049C			1.				١.		١.		
4 . 44929 . Screw. Main Bearing Cap . Screw. Main Bearing Cap . Screw. Main Bearing Cap . Screw. Main Bearing Cap . Screw. Main Bearing Cap . Screw. Main Bearing Cap . Screw. Main Bearing Cap . Screw. Main Bearing Cap . Screw. Main Bearing Cap . Screw. Main Bearing Cap . Screw. Main Bearing Cap . Screw. Main Bearing Cap . Screw. Cap. Hex Head. 5/16" . Screw. Cap.	l				1				1				1
151796	4	. 44929			1				i				'
1560602		. 151796	. Screw, Main Bearing Cap		1			*	14	3.4	14		14
5		. 156062			6	:00°	g.		17		14		14
1	5	. 21054				€	Si Si						
1		. 21055	. Washer, Lock, 5/8"	le i	ľ				14	14	14	4.4	14
6		. 26126						g.	1.4		14		14
B6202	€	, B1883		6	ء ا		ß.	i õ	[l
Plug. Expansion Plug. Expansion Plug. Pipe, Square Head, 1/2" Plug. Pipe, Square Head, 1/2" Plug. Pipe, Countersunk Headless. 1/2" Plug. Pipe, Countersunk Headless. 1/2" Plug. Pipe, Countersunk Headless. 1/2" Plug. Pipe, Countersunk Headless. 1/2" Plug. Pipe, Countersunk Headless. 1/2" Plug. Pipe, Countersunk Headless. 1/2" Plug. Pipe, Countersunk Headless. 1/2" Plug. Pipe, Countersunk Headless. 1/2" Plug. Pipe, Countersunk Headless. 1/2" Plug. Pipe, Countersunk Headless. 1/2" Plug. Pipe, Countersunk Headless. 1/2" Plug. Pipe, Countersunk Headless. 1/2" Plug. Pipe, Countersunk Headless. 1/2" Plug. Pipe, Countersunk Headless. 1/2" Plug. Pipe, Countersunk Headless. 1/2" Plug. Pipe, Plug. Pipe, Countersunk Headless. 1/2" Plug. Pipe, Plug. Pipe, Plug. Pipe, Plug. Pipe, Plug. Pipe, Plug. Pipe, Plug. Pipe, Plug. Pipe, Plug. Pipe, Plug. Pipe, Plug. Pipe, Plug. Pipe, Plug. Pipe, Plug. Pipe, Plug. Pipe, Plug. Plug. Pipe, Plug. Pipe Plug. Pipe Plug. Pipe P		. B6202	. Pin, Dowel		ľ		~		14	14	14		14
Sample S	7	. 985	. Plug, Expansion		1					7			1
8 78282E Plug. Pipe, Square Head, 1/2" 1		. 3337	. Plug, Expansion	1836	1 1		1	4	Ì		1		1
78283A	8	7828 2 E	Plug. Pipe, Square Head, 1/2"				_				i :		l
Pin. Dowel Casket, Oil Retainer Casket, Oil Seal (Rear) Casket, Oil - Rear Casket, Oil - Casket, Oi	1	78 2 83A	Plug. Pipe, Countersunk Headless, 1/2"	ueg.	1 -		1		1		, , !		1
10	9	B 3568			2	200000		, , , , , , , , , , , , , , , , , , ,			9	2	2
11	10	44930B	Gasket, Oil Retainer	1	1		_		-		- "		, ~
11				3.699	1	3	1		1		1	4	1
12	11	190190A	Retainer, Oil Seal (Rear)		1				1		1		1
13			Retainer, Oil Seal (Rear)			1	1		1	1	1	1	1
13	12			ngr					ī	1		1	ĺî
14	1			1.1	1		_		_		_		_
14 21051 Screw, Cap. Hex Head, 5/16"-18 x 5/8" Washer, Lock, 5/16" Pin, Dowel Range, Oil Depth Gauge Range, Oil Filler Range, Oil Filler Range, Oil Depth Gauge, O	13			8									ı
14				8618		8	8	8	8	8	8	8	8
A180152A 16				- 8	8				_				_
Al80152A Gauge, Oil Depth - Assembly 1 1 1 1 1 1 1 1 1	15			221323		2	2	2	2	2	2	2	2
17		·	Gauge, Oil Depth - Assembly	1									ł
18 . 73341 . Cap, Oil Depth Gauge 1 <t< td=""><td>22 1</td><td></td><td></td><td>1</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>i</td></t<>	22 1			1	1								i
19 . Y7076				1	1	888							l
166147				1	1								l
166147				1	1								l
21	20			1.3	1								l
158355U Gauge, Oil Depth 158355W Gauge, Oil Depth 22 26743 Plug, Pipe, Hex Head, 1/8" 23 21338 Screw, Cap, Hex Head, 3/8"-16 x 1/2" 26 7 6 7	0,			8889	1	31		1	L	1	1	1	1
158355W Gauge, Oil Depth 22 26743 Plug, Pipe, Hex Head, 1/8" 23 21338 Screw, Cap, Hex Head, 3/8"-16 x 1/2" 1 1 2 2 5 7 6 7	21					1	1			8000			l
23 21338 Screw, Cap, Hex Head, 3/8"-16 x 1/2"						3455							l
23 21338 Screw, Cap, Hex Head, 3/8"-16 x 1/2"					1	398				:1:		1	1
DATE DATE DATE DATE DATE DATE DATE DATE				11.	1	3		3	7	6	7	6	1
Washer, Plain - Copper, 3/8"				1000	1	198				530			į
	24	B9996	washer, Plain - Copper, 3/8"	188			1						1
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OIL PUMP (VANE TYPE) Group 80

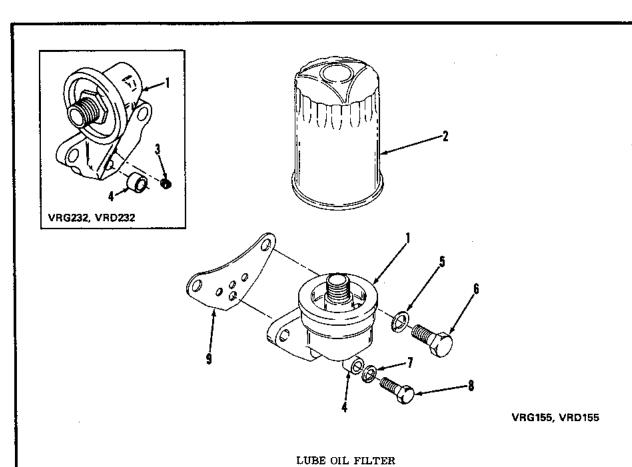
	_		155	155	232	232	265	283	283	310	310	1005
ITEM NO.	PART NUMBER	NOMENCLATURE	VRGISS	VRD155	VRG232	VRD232	VRG265	VRG283	VRD283	VRG310	VRD310	VRD310S
1 2 3 4 5 6 7 8 9	AH180180 0B180180 . H180180 . B180180 . 21309 . 21051 . 180482 . 180682 . 150029 . 41198 . 180184 . 180180D . 26529 . 180051 . 44937 . 116244 . 21065	Pump. Oil - Assembly (With Screen) Pump. Oil - Assembly (With Screen) Pump. Oil - Assembly Pump. Oil - Assembly Pump. Oil - Assembly Screw. Cap. Hex Head, 5/16"-18 x 3/4" Washer. Lock. 5/16" Cover. Oil Pump Cover. Oil Pump Spring. Oil Pump Spring. Oil Pump Shaft, Oil Pump Body, Oil Pump Pin. Roll. 3/16" x 1" Gear, Oil Pump Screen. Oil Pump Screen. Oil Pump Screen. Oil Pump Pin. Cotter. 1/8" x 1"		1 4 4 1 1 2 1 1 1 1 1 1	1 1441 1271111	1 1 4 4 1 1 2 1 1 1 1 1			•			
12 13	21052 21354	Washer, Lock, 3/8" Screw, Cap. Hex Head, 3/8"-16 x 1-3/8" KITS Oil Pump Repair Kits	* 1	1 1 1	1	1 1 1						
	980-94 980-43	For Pump Assembly AH180180 (Includes Items 1, 2, 4-6, 8-13) For Pump Assembly 0B180180 (Includes Items 1, 2, 4-6, 8-13)		1	1	1						:
14	180178 185178A 190078E	OIL PAN Group 14 Gasket, Oil Pan Gasket, Oil Pan Gasket, Oil Pan	1	1	1	1	1	1	1	1		1
15 16 17	180214A 185114A 221014 221114A 21051 117897 117897A	Pan, Oil Pan, Oil Pan, Oil Pan, Oil Washer, Lock, 5/16" Bolt, Oil Pan - Rear Bolt, Oil Pan - Rear	2 2	2 2	1	1 2	1	1	1	1	**	1 2
18 19 20 21 22	120387B B175 76909 119992 78282D 39104	Bolt, Oil Pan - Rear Gasket Plug, Drain Tee, Drain Plug, Pipe, Square Head, 3/8" Stud, Oil Pan	1	1 1 2	1	1	1 1 10	1 10	1 1 10		1 1 19	2 1 1
23 24 25	63699 207182 21051 21185 21307 21313	Stud, Oil Pan Washer, Conical Washer, Lock. 5/16" Nut, Hex, 5/16"-24 Screw, Cap, Hex Head, 5/16"-18 x 5/8" Screw, Cap, Hex Head, 5/16"-18 x 1"	23.	23	Y 0.00	31 31		31 10	31 10	31 10	31	10 31 10 21

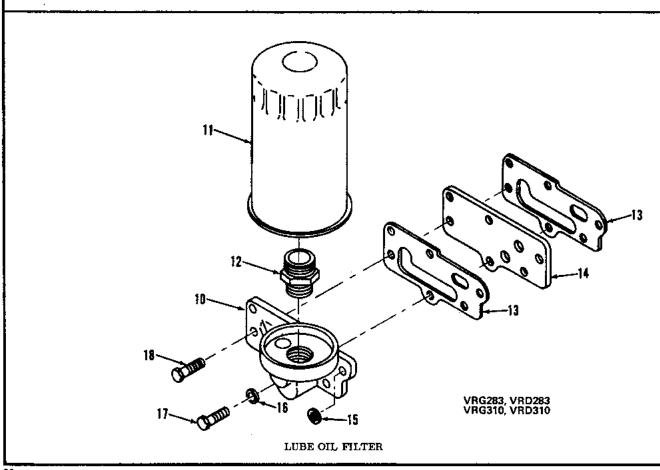




OIL PUMP (GEAR TYPE) Group 80

ITEM NO.	PART NUMBER	NOMENCLATURE	VR6155	VRD155	VR6232	VRD232	VRG265	VRG283	VRD283	VRG310	VRD310	VRD310S
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	EA193380 CA193380A DA193380A AA193380A EA193380A AEA193380A AEA19380A AEA1979 AEA19981 AEA19981 AEA190A AEA180 AEA193084B AEA19308A	Pump, Oil - Assembly (With Screen) Pump, Oil - Assembly (With Screen) Pump, Oil - Assembly Pump, Oil - Assembly Pump, Oil - Assembly Pump, Oil - Assembly Gear, Oil Pump Drive Pin, Roll, 3/16" x 1" Body, Oil Pump Body, Oil Pump Body, Oil Pump Body (Upper) Bushing, Oil Pump Body (Upper) Bushing, Oil Pump Body (Lower) Plunger, Relief Valve Spring, Pale Valve Spring, Pale Valve Spring, Pale Valve Spring, Pale Valve Spring, Pale Valve Spring,					THE PROPERTY OF THE PROPERTY O	1 1 11 11 11 11 14 11 11 11 11 11 11 11	1 1 11 11 11 11 11 11 11 11 11 11 11 11	1 1 1 1 1	1 1 11 11 11 11 11 1 1 1 1 1 1 1 1 1 1 1	111 11 11 111116 51 111111 2 1



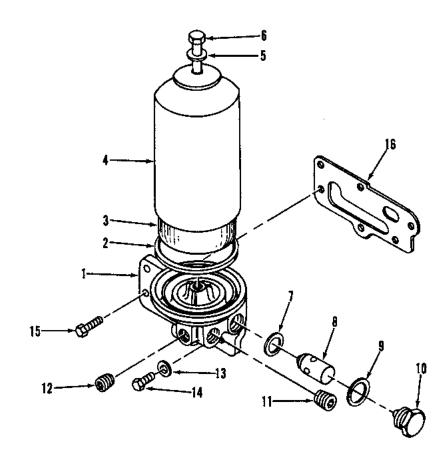




LUBE OIL FILTER Group 55

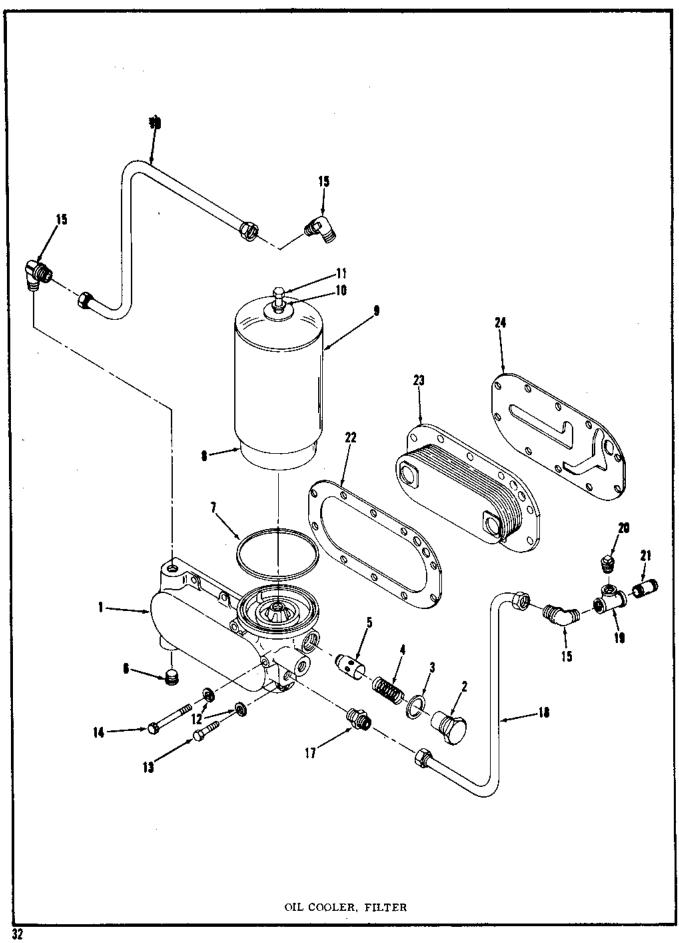
ITEM NO.	PART NUMBER	NOMENCLATURE	VRG155	VRD155	VRG232	VRD232	VRGZ65	VRG283	VRD283	VRG310	VRD310	VRD3105
1	A154076B	Base, Lube Oil Filter	1	1								
	207931	Base, Lube Oil Filter			1	1						
2	199269	Element, Lube Oil Filter	1	1	1	1						
3	26743	Plug, Pipe, Hex Head, 1/8"			1	1						
4	810983	Spacer	1	1	1	1						
5	21054	Washer, Lock, 1/2"	2	2	2	2						
6	21428	Screw, Cap, Hex Head, 1/2"-13 x 1-1/4"	2	2	2	2						
7	21052	Washer, Lock, 3/8"	1	1	1	1						
8	21370	Screw, Cap, Hex Head, 3/8"-16 x 3-1/4"	1	1								
	21352	Screw, Cap, Hex Head, 3/8"-16 x 1-1/4"			1	1						
9	117926B	Gasket, Filter Base	1	1		1						
		LUBE OIL FILTER Group 55										
	A199984A	Filter, Lube Oil - Assembly						1	1	1	1	
10	. 199984A	. Base, Lube Oil Filter						1	1	1	1	
11	, 199982	. Element, Lube Oil Filter						1	1	1	1	
12	, 199983	. Adapter, Lube Oil Filter						1	1	1	1	!
13	164831	Gasket, Filter Base (With Diesel or Distributor Ignition)						1	1	1	1	
	164831	Gasket, Filter Base (With Magneto Ignition)						2	2	2	2	
14	208018	Spacer, Filter Base (With Magneto Ignition)						1	I	1	1	
15	B2135	Washer, Plain - Copper, 5/16"						1	1	1	1	
16	21051	Washer, Lock, 5/16"						5	5	5	5	
17	21312	Screw, Cap, Hex Head, 5/16"-18 x 7/8" (With Diesel or Distributor Ignition)						1	1	1	1	
	26322	Screw, Cap, Hex Head, 5/16"-18 x 1-1/8" (With Magneto Ignition)						1	1	1	1	
18	21312	Screw, Cap, Hex Head, 5/16"-18 x 7/8" (With Diesel or Distributor Ignition)						5	5	5	5	
	21,315	Screw, Cap, Hex Head, 5/16"-18 x 1-1/4" (With Magneto Ignition)						5	5	5	45	

NOTE: THIS FILTER PREVIOUSLY USED ON VRG265, VRG283 VRD283, VRG310, VRD310



VRG265

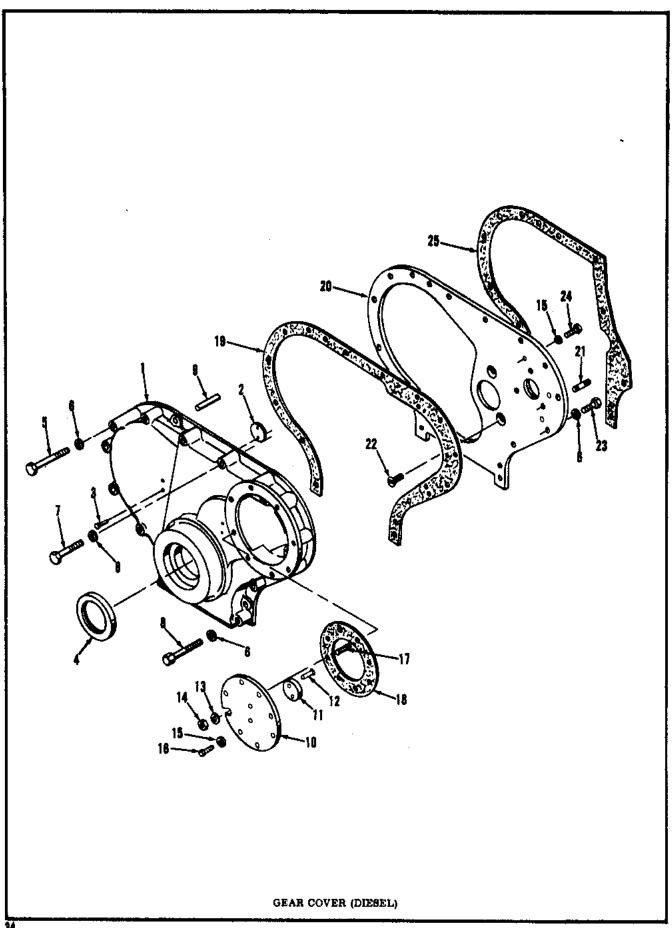
ITEM NO.	PART NUMBER	NOMENCLATURE	VRG155	VRD155	VRG232	VRD232	VRG265	VRG283	VRD283	VRG310	VEDGIO
110.				^		_	2	-	>	>	* -
	A164836	Filter, Lube Oil - Assembly					1				
1	. 164836	. Base, Lube Oil Filter					1				
2	. 493011	. Gasket, Filter Shell					1				
	480000	The second state of the second									
3	. 493009	. Element, Lube Oil Filter					1				
4	. 493010	. Shell					1				
5	. 493007	. Gasket, Center Bolt					1				
6	. 493008	. Bolt, Center					1				
7	. 164834	. Seal					1				
8	. 164835A	. Piston, Relief Valve					1				
9	. 164832	. Washer, Copper					2				
10	164000	Disc. Delical Value									
10	. 164833	. Plug, Relief Valve					s				
11	. 78283A	. Plug, Pipe, Countersunk Headless, 1/2"					2				
12	. 21951	. Plug, Pipe, Countersunk Headless, 3/8"					1				
13	21950	Washer, Plain - Brass, 5/16"									
•	2222										
14	26939	Screw, Cap, Hex Head, 5/16"-18 x 3/4"					1				
15	28116	Screw, Cap, Hex Head, 5/16"-18 x 7/8"					8				
16	164831	Gasket, Filter Base					1			2000	
				:							





OIL COOLER, FILTER Groups 17, 55

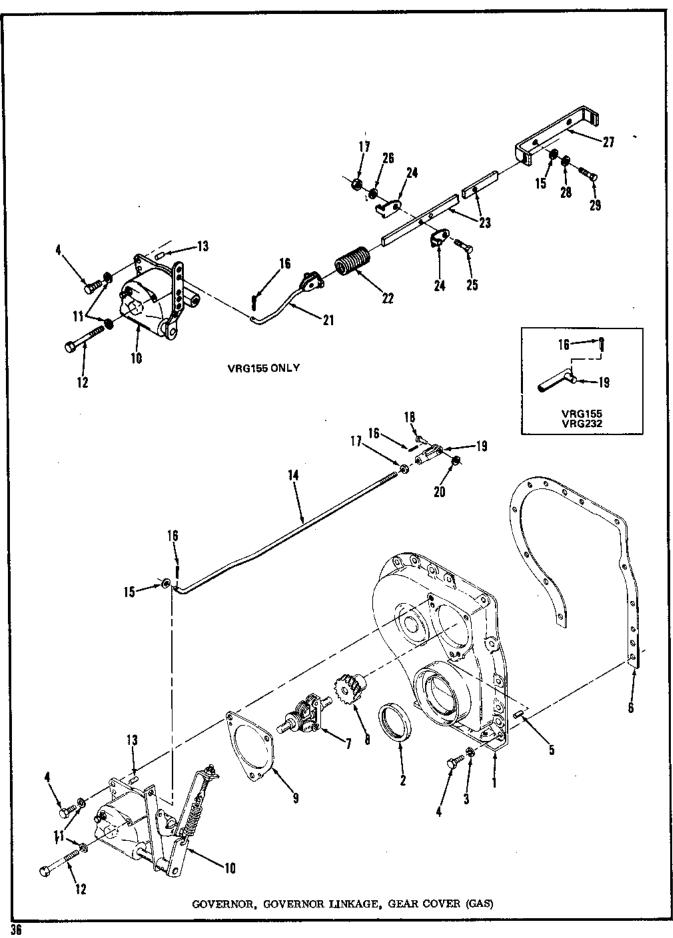
ITEM NO.	PART NUMBER	NOMENCLATURE	VRGISS	VRD155	VRG232	VRD232	¥86265	VRG283	VRD283	VRG310	VRB310	VRD310S
	C169115	Base, Oil Cooler - Assembly										1
1	. 169115	. Base, Oil Cooler										1
2	. 169313	. Plug, Retainer										1
3	. 169312	. Washer, Copper										1
4	. 199519	. Spring, Relief Valve										1
5	. 169315	. Piston, Relief Valve										1
6	. 21951	. Plug, Pipe, Countersunk Headless, 3/8"										1
7	493011	Gasket, Filter Shell										1
8	493009	Element, Lube Oil Filter										1
9	493010	Shell										1
10	493007	Gasket, Center Bolt										1
11	493008	Bolt, Center										1
12	21051	Washer, Lock, 5/16"										10
13	26322	Screw, Cap, Hex Head, 5/16"-18 x 1-1/8"										8
14	21324	Screw, Cap, Hex Head, 5/16"-18 x 2-3/4"										2
15	164724F	Elbow, Flex										3
16	A169229	Tube, Water	100 (000) 100 (000) 100 (000)									1
17	1647 1 7E	Connector, Flex										1
18	A169230	Tube, Oil										1
19	78208B	Tee, Pipe, 3/8"										1
20	78282D	Plug, Pipe, Square Head, 3/8"	-									1
21	118566X	Nipple, Pipe, 3/8" x 1"										1
22	169117	Gasket, Oil Cooler										1
23	169121	Cooler, Oil										1
24	169118	Gasket, Oil Cooler										1
												ł
						:						
ł			57-557 11-121 11-1213									
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GEAR COVER (DIESEL) Group 45

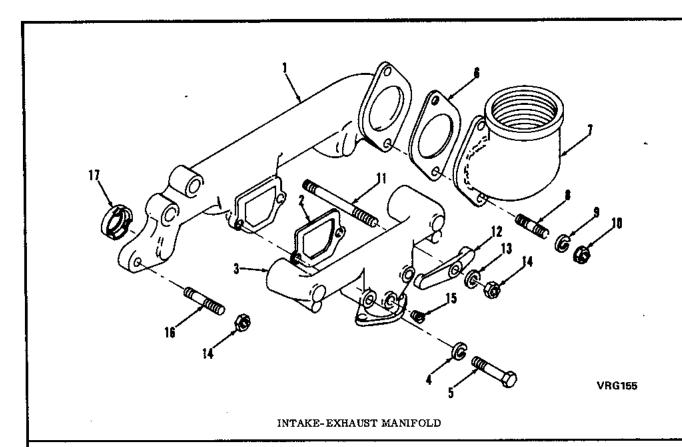
ITEM NO.	PART NUMBER	NOMENCLATURE	VROISS	VRD155	¥8@232	VRD232	YRG265	VRG283	VRD283	VRG310	VRD310	VRD3105
1	A191945H	Cover, Gear - Assembly		1		1						
Ì	A191945M	Cover, Gear - Assembly							1		1	1
2	. B6016C	. Button, Thrust		2		2			2		2	2
3	. 26809	. Rivet, Countersunk Head, 1/8" x 5/8"		4		4			6		4	4
4	. 168630A	. Seal, Oil - Front		1		1			1		Ł	1
5	21323	Screw, Cap, Hex Head, 5/16"-18 x 2-1/2"		1		1			1		1	1
6	21051	Washer, Lock, 5/16"		15		15			15		15	15
7	21319	Screw, Cap, Hex Head, 5/16"-18 x 1-3/4"		1		1			1		1	1
8	21321	Screw, Cap, Hex Head, 5/16"-18 x 2"		8		8			В		8	8
9	B2315	Pin, Dowel		2		2			2		2	2
10	A155214B	Cover, Fuel Pump - Assembly		ī		1			1		1	1
11	. 156219	. Button, Thrust				1			1		1	
- 1	. 156219A	. Button, Thrust		1								1
12	. 21841	. Rivet, Countersunk Head, 1/8" x 1/2"		2		2			2		2	2
13	207182	Washer, Conical		1		1			1		1	1
14	21185	Nut, Hex, 5/16"-24		1		1			1		*	
	21187	Nut, Thin Hex, 5/16"-24	#400 8000									1
15	B2135	Washer, Plain - Copper, 5/16"		10		10			10		10	10
16	21307	Screw, Cap, Hex Head, 5/16"-18 x 5/8"		7		7			7		7	7
17	39104	Stud		ī		1			1		1	1
18	155215	Gasket, Fuel Pump Cover		1		1			1		1	1
19	155213A	Gasket, Gear Cover		1		1			1		1	1
20	A191954D	Plate, Front - Assembly		1		1						
	A191954G	Plate, Front - Assembly						100	1		1	1
21	. 28546	. Stud, Fuel Injection Pump	N1 13 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1	3		3			9		3	3
22	21751	Screw, Machine, Flat Head, 5/16"-18 x 3/4"		2		2			2		2	2
23	21312	Screw, Cap, Hex Head, 5/16"-18 x 7/8"		5		5			5		5	5
24	21309	Screw, Cap, Hex Head, 5/16"-18 x 3/4"		3		3			3		3	3
25	41479A	Gasket, Front Plate		1		1			1		1.	1

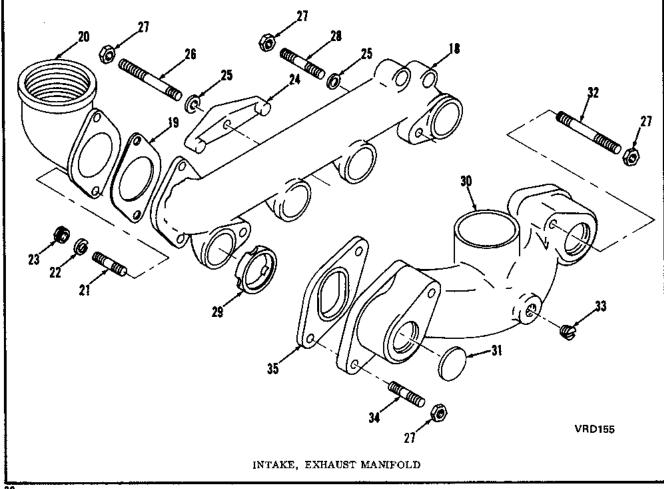




GOVERNOR, GOVERNOR LINKAGE, GEAR COVER (GAS) Groups 31, 33, 45

TEM NO.	PART NUMBER	NOMENCLATURE	VRGISS	VRG232 VRD232	VR@265	VRG283	VRD283	VRG310	VRD310
1	AA190345C	Cover, Gear - Assembly		1	1	1		1	
2	. 168630A	, Seal, Front Oil	1 1			1		1	
3	21630	Washer, Internal Shakeproof, 5/16"	12	12	12	12		12	
4	21309	Screw, Cap, Hex Head, 5/16"-18 x 3/4"	14	14	14	14		14	
5	B3568	Pin, Dowel	2	2	2	2		2	
6	44931A	Gasket, Gear Cover	1						
	44931B	Gasket, Gear Cover			1	1		1	
7	A180373P	Shaft, Governor - Assembly	1			1		1	
8	. 190228E	. Gear, Governor	1		1	1		1	
9	41283A	Gasket, Governor Housing						8000	
	41283B	Gasket, Governor Housing			1	1		1	
10	180344F	Housing, Governor	1						
	180344N	Housing, Governor			1	1		1	
11	B2135	Washer, Plain - Copper, 5/16"	3	3	3	3		3	
12	21324	Screw, Cap, Hex Head, 5/16"-18 x 2-3/4"		1	1	1		ı	
13	B1883	Pin, Dowel	2	2	2	2		2	
14	163561	Rod, Governor				1		1	
	166174	Rod, Governor	1					_	
	167610	Rod, Governor		1					
15	Y18813E	Washer, Plain, 3/16"	2	3	1	1		1	
16	21057	Pin, Cotter, 1/16" x 1/2"		2	2	2		2	
	21058	Pin, Cotter - Plated, 1/16" x 1/2"	3			-		4	
17	21263	Nut, Hex, No. 10-32		1					
	21264	Nut, Hex - Plated, No. 10-32	1		1	1		1	
18	B3743	Pin, Rod End				1 8			
19	116508	End, Governor Rod			1	1		1	
	167611	End, Governor Rod				1		1	
20	Y18813G	Washer, Plain, 1/4"	1	1		,		,	
21	A164219	· · · · · · · · · · · · · · · · · · ·			1	1		1	
22	163562	End, Governor Spring Spring, Governor Rod	1						
23	164220A								
	163556	Rod, Control		5535		1			
24		End, Governor Spring	2						
25	26012	Screw, Machine, Round Head, No. 10-32 x 1/2"	1						
26	26420	Washer, Lock - Plated, No. 10				55		-	
27	116510	Guide, Governor Control Rod	1						
28	21536	Washer, Lock, 1/4"	2						
29	21272 }	Screw, Cap, Hex Head, 1/4"-20 x 1/2"	2						
			100 A						
					01:10				
	İ								
	!		1469	6.88		1 1	11.75	1	

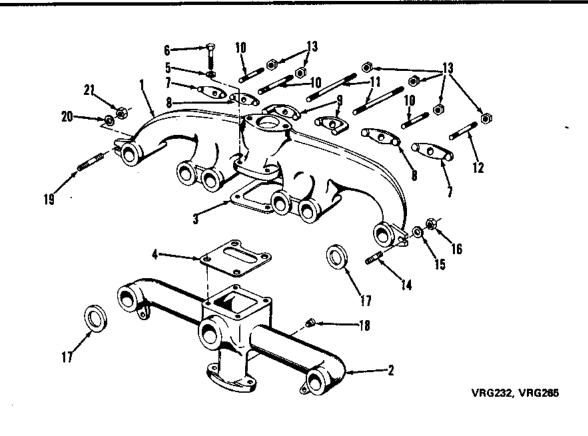




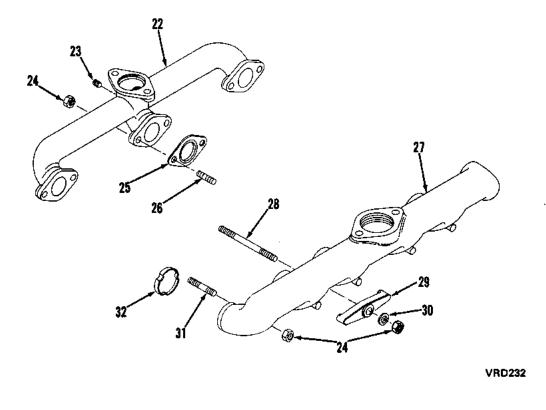


INTAKE-EXHAUST MANIFOLD Group 43

ITEM NO.	PART NUMBER	NOMENCLATURE	WEGISS	VRD155	VRG232	VRD232	VRG265	VRG283 VRD283	VRG310 VRD310	VRD310S
	A180742	Manifold Assembly		_		_				<u> </u>
1	. 180742	. Manifold, Exhaust	1							
2	. 116383A	. Gasket, Intake to Exhaust Manifold	1 1							
3	180341	. Manifold, Intake	1							
4	. 21052	. Washer, Lock, 3/8"	ENGG							
5	. 21365	. Screw, Cap, Hex Head, 3/8"-16 x 2-1/2"	2							
6	207475	Gasket, Exhaust Flange	1							
7	207465	Flange, Exhaust	i							
8	44108	Stud	2							1
9	21052	Washer, Lock, 3/8"	2							
10	26881	Nut, Thin Hex, 3/8"-24	2							
11	151012	Stud	2							1
12	41266	Clamp, Manifold	2			Ì				
13	76911	Washer, Piain, 3/8"	2							
14	B2943	Nut, Hex, 3/8"-24	4							
15	78280A	Plug, Pipe, Slotted Head, 1/8"								
16	48458	Stud	2							
17	44932C	Gasket, Manifold	6 6							
		INTAKE, EXHAUST MANIFOLD Groups 41, 42								
18	181742	Manifold, Exhaust		1						1
19	207475	Gasket, Exhaust Flange		1		į				
20	207465	Flange, Exhaust		1						1
21	44108	Stud		2						
22	21052	Washer, Lock, 3/8"	14:000 NO.000 NO.000	2						1
23	26881	Nut, Thin Hex, 3/8"-24		2						
24	117168	Clamp, Manifold	86000 70000 81000	1						
25	B221	Washer, Plain, 3/8"		2						
26	117453	Stud		1						
27	21193	Nut, Hex, 3/8"-24		7					000000	
28	118531	Stud		2				20000 20000		
29	41426A	Gasket, Exhaust Manifold	0000	4						
30	A181741	Manifold, Intake - Assembly		1						
31	. 41526A	. Plug, Expansion		2						
32	B2031	Stud		2						
33	78280A	Plug, Pipe, Slotted Head, 1/8"		1		ı				
34	B654	Stud		2						
35	158726	Gasket, Intake Manifold		2						



INTAKE-EXHAUST MANIFOLD

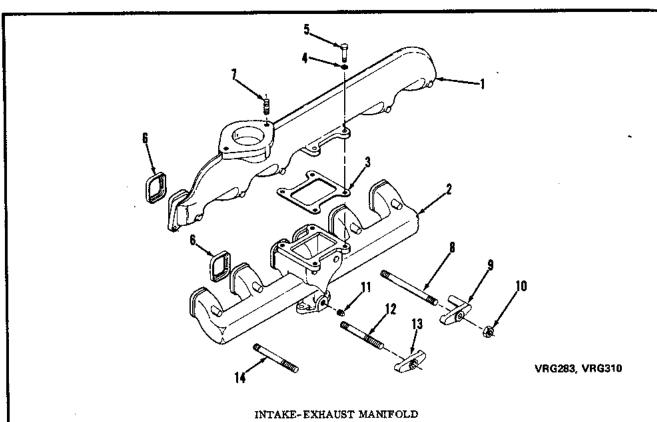


INTAKE, EXHAUST MANIFOLD

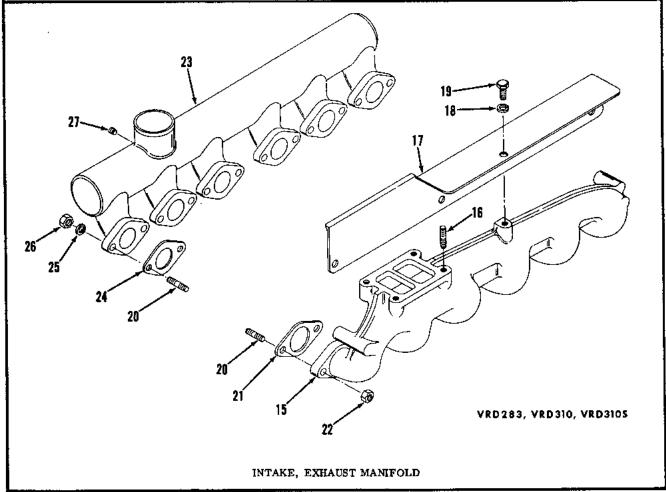


INTAKE-EXHAUST MANIFOLD Group 43

			VRG155	VRD155	VRG232	VRD232	VRG265	VRG283 VRD283	VRG310 VRD310	VRD310S
ITEM NO.	PART Numb er	NOMENCLATURE	2	50	8	2	9	RG RD	RG RD	80
NO.	NUMBER	HOMENCEATORE		>				> >	> >	^
	A185342M	Manifold Assembly			1					
	A190342P	Manifold Assembly					1			
1	. 185342M	. Manifold, Exhaust			9					
	. 190342P	. Manifold, Exhaust	100000							
2	. 185541 . 190941	. Manifold, Intake . Manifold, Intake			1					
3	. 116202	. Gasket, Intake to Exhaust Manifold			2		ĭ			
4	167284	. Shield, Heat	6000		1					
5	. 21052 . 21729	. Washer, Lock, 3/8"	113267 14155		4					
6	. 21729	. Washer, Lock, 3/8" . Screw, Cap, Hex Head, 3/8"-16 x 1"	\$5,000 .(0.00)				4			
ľ	. 21352	Screw, Cap, Hex Head, 3/8"-18 x 1-1/4"			4					
7	116296	Clamp, Manifold - End			2		2 2	\$1,000 \$1		
8 9	116203 116201	Clamp, Manifold - Intermediate			2		2	******		
"	157937	Clamp, Manifold - Center Clamp, Manifold - Center			2		2			
10	B9621	Stud	:::>\ :::::::::::::::::::::::::::::::::		3			80.0000		
	151012	Stud					3	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
11	107120	Stud					2			1
12	158407 B9714	Stud Stud			2 1	ļ				
	151012B	Stud	(A) (A)				1	220000		
13	B2943	Nut, Hex, 3/8'-24			6		6			
14 15	B320A 158357	Stud	863				1 1			
16	28252	Spacer Nut, Thin Hex, 7/16"-20			M		1			
17	41271A	Gasket, Manifold	200	1	9					
	44932C	Gasket, Manifold					9			1
18 19	78280A B2610	Plug, Pipe, Slotted Head, 1/8" Stud					1 1			
20	73558	Washer, Flat, 7/16"					1			1
21	B659	Nut, Hex, 7/16"-20	1000				1			
		<u> </u>								
'										
			(333							
!		INTAKE, EXHAUST MANIFOLD Groups 41, 42	1 h 1 k 5		1983					3
		dioups 11, 12	350313 51863					(0.00	233333	
			200							
22	186141 78282A	Manifold, Intake	100			1				1
23 24	21193	Plug, Pipe, Square Head, 1/8" Nut, Hex, 3/8"-24	138 1308			1 10				
25	B1997	Gasket, Intake Manifold	8000	1		3				
26	B291	Stud				6		(3)		
27 28	186142 44544	Manifold, Exhaust	1009		100000	1 2		(000000		
29	117168	Stud, Long Clamp, Exhaust Manifold	1000			2				
30	B221	Washer, Plain, 3/8"				2				
31	118531	Stud, Short	55000 51000		0.000	2		0000		Ì
32	44932C	Gasket, Exhaust Manifold	4.95			6				
!	}	{				ţ		2000		
]				1				
[1	1								4444
1			****				2000			
1			# 15 m					800 1783 2010 188 210 188		
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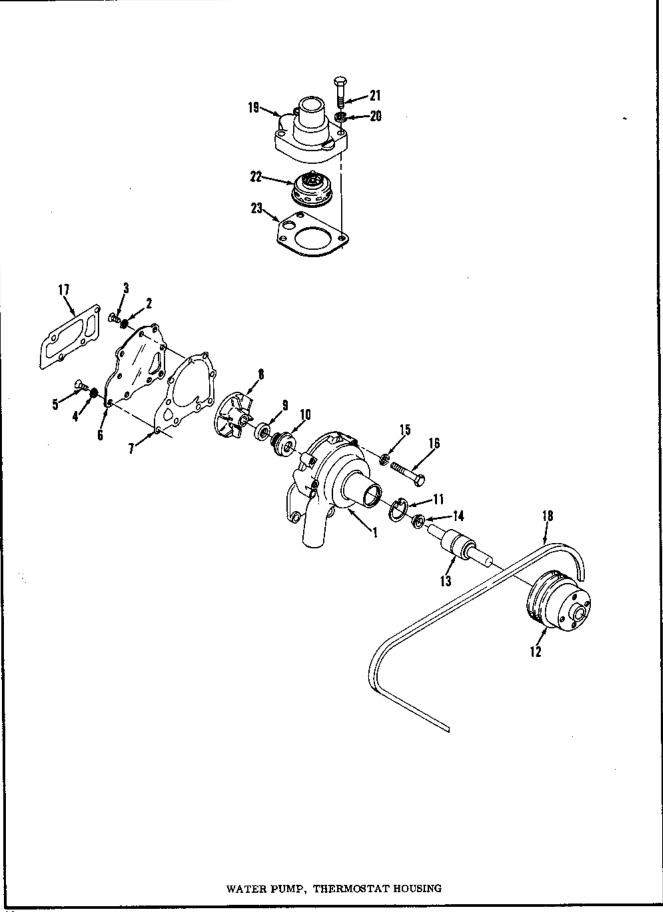






INTAKE-EXHAUST MANIFOLD Group 43

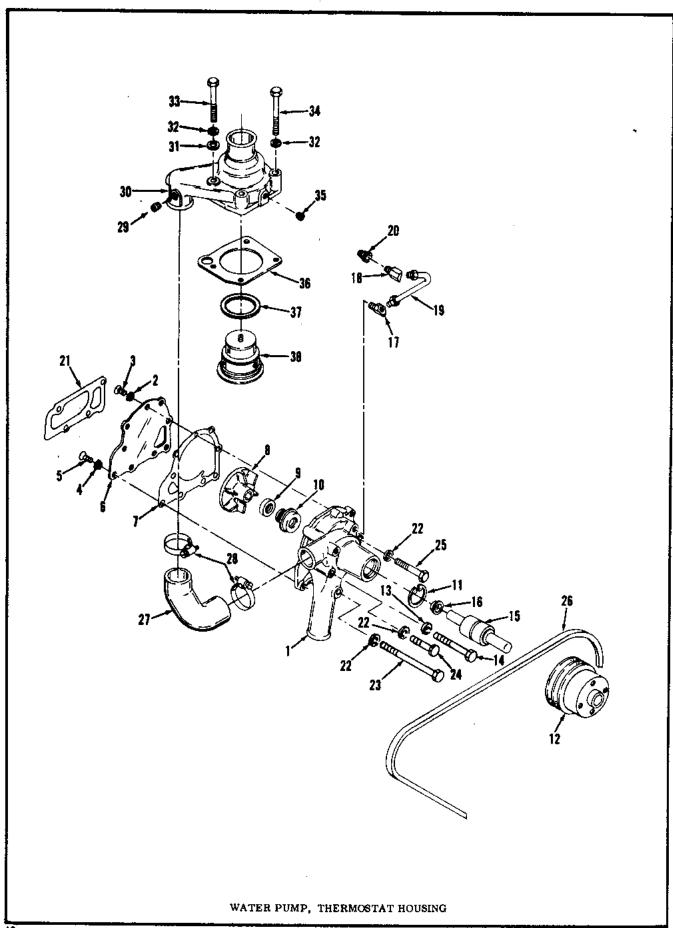
ITEM NO.	PART NUMBER	NOMENCLATURE	VRG155	VRD155	VRG232	VKD232	VRG283	VRDZ83	VRG310	VRD310	VRD310S
	C222142A	Manifold Assembly					1		1		
1	. 222142A	. Manifold, Exhaust					1		1		
2	. 222341	. Manifold, Intake				(***** (*****	1		1		
3	. 159884	. Gasket, Intake to Exhaust Manifold	2000 2000 2000 2000 2000 2000			33.33 33.33 33.33 33.33	1	3000	ī		
4	. 21052	. Washer, Lock, 3/8"					4		4		
5	. 21348	. Screw, Cap, Hex Head, 3/8"-16 x 1"									
6	159883						4		4		
		Gasket, Manifold	\$30.500 \$20.000 \$30.000				12		12		
7	B5763	Stud					2		2		
8	107120	Stud					2		2		
9	158978	Clamp, Manifold - Long					2	200 200 200 200 200 200 200 200 200 200	2		
10	B2943	Nut, Hex, 3/8"-24			400		6		6		
11	78280A	Plug, Pipe, Slotted Head, 1/8"					1		1		
12	74358	Stud					3		3		
13	158978A	Clamp, Manifold - Short					4		4		
14	117453	Stud					1		1		
:		INTAKE, EXHAUST MANIFOLD Groups 41, 42									
	A223142B	Manifold, Exhaust - Assembly						1		1	
15	. 223142B	. Manifold, Exhaust						1		1	
1.0	. 223242	. Manifold, Exhaust									1
16 17	. B654 . 168741B	. Shield, Heat	39.03 33.03 33.03					4		4	4
18	. 21052	. Washer, Lock, 3/8"						4		1	1 4
19	. 21340	. Screw, Cap, Hex Head, 3/8"-16 x 5/8"						4		4	4
20	B654	Stud						24		24	24
21	166629A	Gasket, Exhaust Manifold						6		6	6
22 23	B2943	Nut, Hex, 3/8"-24	100 st					12		300000	12
24	223141 166595A	Manifold, Intake Gasket, Intake Manifold						1		1	1
25	21052	Washer, Lock, 3/8"						6 12		10	10
26	21193	Nut, Hex. 3/8"-24						12		12 12	12 12
27	Y18802	Plug, Pipe, Allen Head, 1/8"								Ī	1
		1				1963		9213			





WATER PUMP, THERMOSTAT HOUSING Groups 21, 60

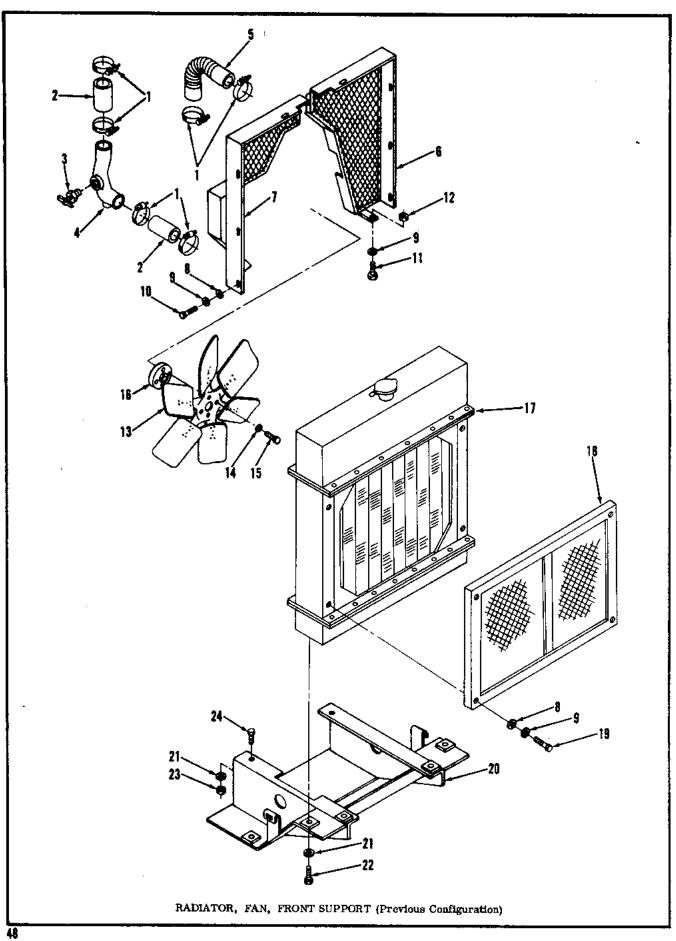
ITEM NO.	PART NUMBER	NOMENCLATURE	VROISS	VRD155	¥RG232	VRD232	VRG265	VRG283	VRD283	VRG310 VRD310	VRD3105
	M190460	Pump, Water - Assembly	1	1	1	1					
1	. 190460	. Body, Water Pump	1	1	1	1					
2	. 21642	. Washer, External Shakeproof, 3/16"	1	1	1	1					
3	. 26543	. Screw, Machine, Flat Head, No. 10-32 x 5/8"	1	1	¥	1					
4	. 21842	. Washer, External Shakeproof, 1/4"	2	2	2	2					
5	. 21139	. Screw, Machine, Flat Head, 1/4"-20 x 5/8"	4	4	4	4					
6	. 163771	. Cover, Water Pump	1	1	1	1					
7	. 163772	. Gasket, Water Pump Cover	1	1	1	1					
8	. 190163A	. Impeller, Water Pump	1	1	1	1					
9	. 161647A	. Seat, Water Pump Seal	1	1	1	1					
10	. 120320	. Seal, Water Pump	1	1	1	1					
11	. 44999R	. Ring, Retaining	1	1	1	1					
12	. 221586F	. Pulley, Water Pump	1	1	1	1					
13	. 0190156	. Shaft, Water Pump	1	1	1	1					
14	78645	Slinger	1	1	1	1					
15	21052	Washer, Lock, 3/8"	4	4		4					
16	21369	Screw, Cap, Hex Head, 3/8"-16 x 3"	4	4	8	4	¥.				
17	152311	Gasket, Water Pump	1	1	1	1					
18	A166226	Belt, Water Pump (Set of Two) (Engines Equipped with Alternator or Belt Tightener)	1	1	1	1					
:	A810496	Belt, Water Pump (Set of Two) (Engines Equipped with Altronic Generator)	1		ı						
19	221278A	Housing, Thermostat (With Radiator)	1	1	1	1					
	221278	Housing, Thermostat (Without Radiator)	1	1	1	1					
20	21729	Washer, Lock 3/8"	3	3	3	3					
21	21361	Screw, Cap, Hex Head, 3/8"-16 x 1-3/4"	3	3	3	3					
22	163691	Thermostat	1	1		i					
23	117231	Gasket, Thermostat Housing		1	1	1					
		KITS									
		Water Pump Repair Kit									
	960-213	For Water Pump Assembly M190460 (Includes Items 2-5, 7-11, 13, 15, 17)	1	1		1					
								740 100 100 100 100 100 100 100 100 100 1			





WATER FORE, INDAMEDIAL HOUSING Groups 21, 60

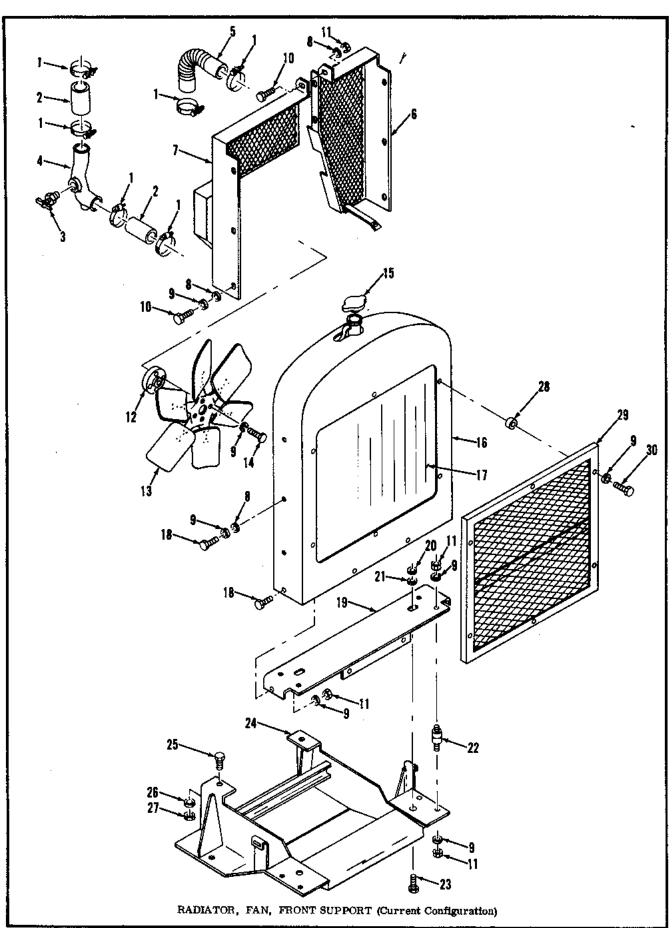
ITEM NO.	PART NUMBER	NOMENCLATURE	VRGISS	VRD155	VRG232	VRD232	VRG265	VRG283	VRD283	VRG310	VRD310	VRD3105
	E190660	Pump. Water - Assembly		^	2	_		>	2	^	۸.	<u> </u>
.	H221560	Pump, Water - Assembly					1	1	1	1	1	1
. 1	, 190660	. Body, Water Pump					1	_		_		1
	, 221560	. Body, Water Pump						1	1	1	1	1
2	. 21642	. Washer, External Shakeproof, 3/16"					1					1
3 4	. 21138 . 21842	Screw, Machine, Flat Head, No. 10-32 x 1/2" Washer, External Shakeproof, 1/4"					1			_		i _
5	. 21139	Screw, Machine, Flat Head, 1/4"-20 x 5/8"					*	3	3 5	3	3 5	3
6	. 163771A	. Cover, Water Pump					1	9		P		9
ŀ	. 163671B	. Cover, Water Pump						1	1	. 1	1	1
7	. 163772	. Gasket, Water Pump Cover				1	1	_		_		1
	. 163672A	. Gasket, Water Pump Cover						1	1.	1	1	1
8	. 190363	Impeller, Water Pump					-1					
9	. 221163 . 161647A	. Impeller, Water Pump						1	1	1	1 1	1
10	. 120320	. Seat, Water Pump Seal . Seal, Water Pump					+	1		1	3	1
	. 120320B	. Seal, Water Pump					1	1	1	1	1	1
11	, 44999R	. Ring, Retaining					1	1		i	î	1
12	. 190294A	. Pulley, Water Pump					i	-		_		
٠	. 221586A	, Pulley, Water Pump						1	1	1	1	1
13 14	. 21052	Washer, Lock, 3/8"					1					
15	. 21372 . 0190156	Screw, Cap, Hex Head, 3/8"-16 x 3-3/4" Shaft, Water Pump - Assembly					1			_		
	. A190156	Shaft, Water Pump - Assembly Shaft, Water Pump - Assembly					1	1		1	1	1
16	78645	Slinger		İ				1		1	1	1
17	73404A	Elbow, Inverted					i	î	1	î	ī	
1	73018B	Elbow, Inverted								_		1
18	73018B	Elbow, Inverted		.		1	1	1	1	1	1	1
19	A164548B A164548G	Line, Vent Line, Vent		.		ł	1					
- 1	A164548H	Line, Vent							1	4	3	
- 1	A164548J	Line, Vent						1		1		1
20	B8677	Bushing, Reducing, 1/4" to 1/8"										ī
21	152311	Gasket, Water Pump										_
	163673A	Gasket, Water Pump					*	1		1	1	1
22 23	21052 21374	Washer, Lock, 3/8"					3	4	4	4	4	4
20	21375	Screw, Cap. Hex Head, 3/8"-16 x 4-1/4" Screw, Cap, Hex Head, 3/8"-16 x 4-1/2"					*					
24	21352	Screw, Cap, Hex Head, 3/8"-16 x 1-1/4"						1	1	1	*	1 1
25	21365	Screw, Cap, Hex Head, 3/8"-16 x 2-1/2"					2	2	2	2	,	2
26	A154337	Belt, Water Pump (Set of Two)					1			_		_
	A810496	Belt, Water Pump (Set of Two)						1		1		1
27	A810496A A164952	Belt, Water Pump (Set of Two)						_	1		1	
28	41236C	Clamp, Hose					3	1	1 2	1 2	,	1
29	21951	Plug, Pipe, Countersunk Headless, 3/8"		1				1	- Acces 600 65	1	î	1
30	221478	Housing, Thermostat					1	î	1	i	î	î
31	B221	Washer, Plain, 3/8"					1	1		1	î	î
32	21729	Washer, Lock, 3/8"				ı	4	4	4	4	4	4
33	21366	Screw, Cap, Hex Head, 3/8"-16 x 2-1/2"					*		1		1	1
	21885 26567	Screw, Cap. Hex Head, 3/8"-16 x 2-1/4" Screw, Cap. Hex Head, 3/8"-16 x 3-1/4"							3		9	3
34	26440	Screw, Cap, Hex Head, 3/8"-16 x 3-1/4"						1 3		1 3		
35	Y18802	Plug, Pipe, Allen Head, 1/8"						o		J		1
36	162400	Gasket, Thermostat Housing					1	1	1	1	1	ī
37	199175	Gasket, Thermostat							1		1	1
38	162492A	Thermostat Thermostat					1	1		1		
ŀ	199174					ł			1			1
1		KITS			300000							
ĺ		Water Pump Repair Kits										
	960-200	Water Pump Assembly E190660 (Includes Items 2, 4,				į						
ļ	960 914	5, 7~11, 13-15, 21, 25)					1					
	960-214	Water Pump Assembly H221560 (Includes Items 4, 5, 7-11, 15, 21, 22)						1		1		1
}		1 11, 10, 11, 10,				- 1	200	1	1	1	1	1





RADIATOR, FAN, FRONT SUPPORT (Previous Configuration) Groups 200, 219

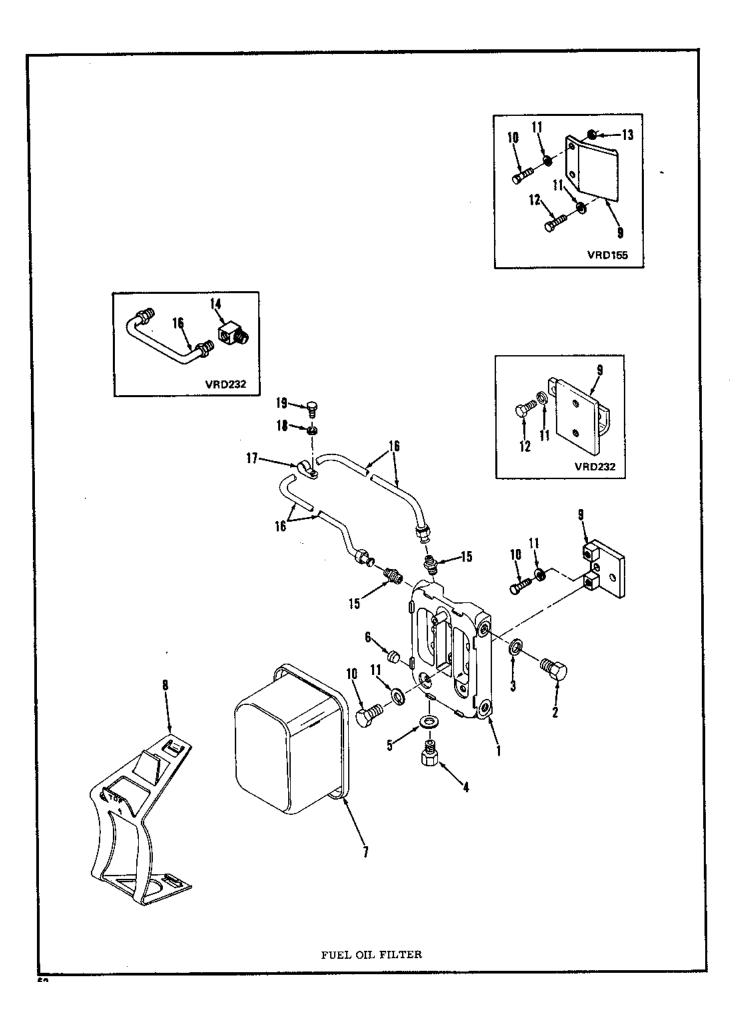
ITEM	PART		YRGISS	VRDISS	VRG232	VRD232	VRG265	VRG283	VRD283	VRG310	VRD310	Venav
NO.	NUMBER	NOMENCLATURE	5	_	3	λ	5	<u> </u>	5	<u>></u>	5	
1	41236C	Clamp, Hose	6	6	6	6	6	6	8	6	0	
2	15026C	Connection, Hose, 1-3/4" I.D. x 3"	1	1	1	1						
	20751B	Connection, Hose, 2" I.D. x 3"	1	1	1	1	1	1	1	1	1	
İ	78978	Connection, Hose, 2-1/8" I.D. x 3-1/2"		İ			1	1	1	1	1	
3	48993	Cock, Drain					1	1	1	1	1	
-	73413A	Cock, Drain		1	1	1						
4	199093A	Connection, Lower Radiator		ļ			1	1	1	1	1	
	207100	Connection, Lower Radiator	1	1	1	1						
5	120233	Connection, Hose, Flexible, 2" I.D. x 12"					1	1	1	1	1	l
	151069	Connection, Hose, Flexible, 2" I.D. x 14"	1	1		1						
6	199100B	Guard, Fan - L. H.	1	1		1	1	1	1	1	1	
7	199101B	Guard, Fan - R. H.	1	1	1.	1	1	1	1	1	1	
8	Y18813G	Washer, Plain, 1/4"	14	14								
9	21050	Washer, Lock, 1/4"	14	14	4	4	4	4	4	4	4	
10	21271	Screw, Cap, Hex Head, 1/4"-20 x 1/2"	9	9								
	26003	Screw, Drive, Round Head, No. 8 x 1/2"			8	8	8	8	8	8	8	
11	21273	Screw, Cap, Hex Head, 1/4"-20 x 5/8"	1	1								
12	28102	Nut, Flex Loc, 1/4"-20		1								
13	120413	Blade, Fan (Pusher)		1	1	1	1	1	1	1	1	
j	120413A	Blade, Fan (Pusher)	1	1								
}	120414	Blade, Fan (Suction)			1	1	1	1	1	1	1	
	120414C	Blade, Fan (Suction)		1						ı		
14	21051	Washer, Lock, 5/16"	4	4	4	4	4	4	4	4	4	
15	21312	Screw, Cap, Hex Head (Pusher Blade), 5/16"-18 x 7/8"			4	4	4	4	4	4	4	
	21322	Screw, Cap, Hex Head (Pusher Blade), 5/16"-18 x 2-1/4"	4	4								
	21325	Screw, Cap, Hex Head (Suction Blade), 5/16"-18 x 3-1/4"	4	4	4	4						l
	26249	Screw, Cap, Hex Head (Suction Blade), 5/16"-18 x 1-3/8"					4	4	#	4	4	
16	78805H	Spacer, Fan Blade (Suction)					1					
	157015F	Spacer, Fan Blade (Suction)						1	1	1	1	
	207973	Spacer, Fan Blade (Suction)	1	1		1						
	207973A	Spacer, Fan Blade (Pusher)	1	1	High							
17	199072B	Radiator		1	1	1		1	***	1	1	202
18	199941	Guard, Radiator	1	1	100	3	180	1	1	1	1	1
19	21303	Screw, Cap, Hex Head, 1/4"-20 x 1-1/2"	4	4	1000	1	100000		4	4	4	
20	207101	Support, Front			1	31				}		28.
	207101A	Support, Front	1	1	2015							ŝ
	118154D	Support, Front						1	1	1	1	1
21	21054	Washer, Lock, 1/2"	6	6	6	6	6	6	6	6	6	
22	21431	Sorew, Cap, Hex Head, 1/2"-13 x 1/2"	4	4	1880	31	2533	4	4	4	4	283.128
23	21205	Nut, Hex, 1/2"-13	2	2	1000	1	2	2	2	2	2	200
24	21433	Screw, Cap, Hex Head, 1/2"-13 x 1-3/4"	2		100	:1	22.300	2	2	2	2	00.00
_		, , , , , , , , , , , , , , , , , , , ,		1								Sec.
	1										20000	1
	1			1	1							1





RADIATOR, FAN, FRONT SUPPORT (Current Configuration) Groups 200, 219

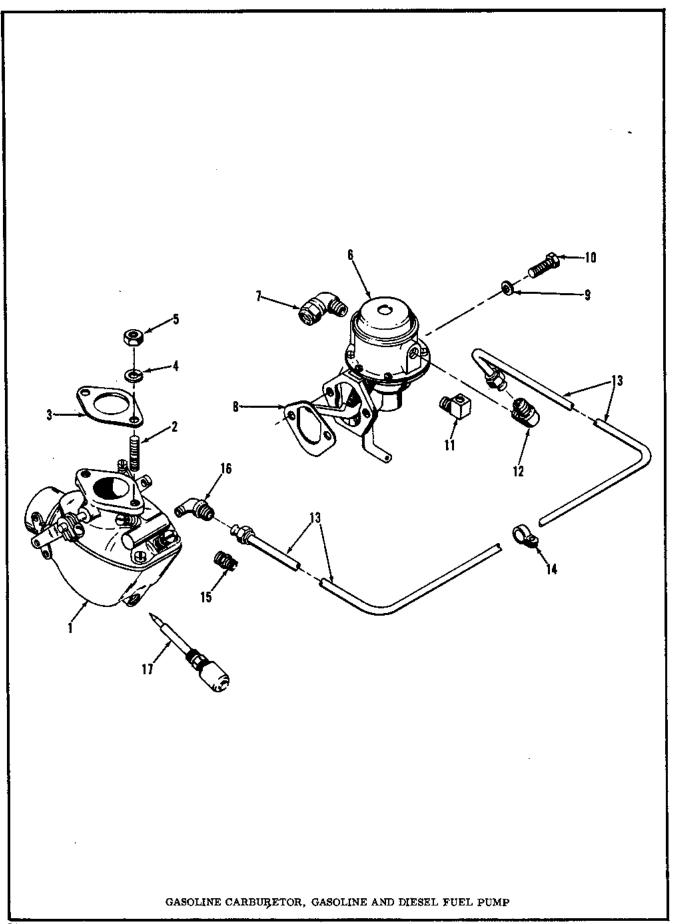
ITEM	PART		VRGISS	VRD155	VRG232	VRD232	VRG265	VRG283	YRD283	VRG310	VRD310	RD310S
NO.	NUMBER	NOMENCLATURE	3	VR	7	× R	3	× ×	8	VR	***********	_×
1	41236C	Clamp, Hose	•	6	6	6	6	6	6	6		_ -
2	15026K	Connection, Hose, 1-3/4" I.D. x 4-1/2"	1	1	1	1						
	78978B	Connection, Hose, 2-1/8" L.D. x 4-1/2"		ì			1	1	1	1	1	
ا ي	Y6174	Connection, Hose, 2" I.D. x 4-1/2"		1		1	1	1	1	1	1	
3	73413A 48993	Cock, Drain	1	1	1	1	1			_		
4	207 1 00	Cock, Drain	1133	١,				1	1	1	1	!
* [199093B	Connection, Lower Radiator Connection, Lower Radiator	1	1	1	1						
	199093A	Connection, Lower Radiator		1			1	١,		١.		
5	120233	Connection, Hose, Flexible, 2" I, D, x 12"	1	1	1	1	1	1	1	$\begin{array}{ c c } 1 \\ 1 \end{array}$	1	
6	199100C	Guard, Fan - L. H.	j	1	1	1		1		١.		
	199100D	Guard, Fan - L. H.		*		1	1	1	2	1	1	
7	199101C	Guard, Fan - R. H.		ı	1	1		1		*		ĺ
	199101D	Guard, Fan - R, H,	6000	l ^		_	1	1	1	1	1	
8	B277	Washer, Plain, 5/16"	19	19	19	19	17		17	17	17	
9	21051	Washer, Lock, 5/16"	38	38	38	38	37	37	37	37	37	4
10	21307	Screw, Cap. Hex Head, 5/16"-18 x 5/8"	10	10	10	10	9	9	9	9	9	-
11	21181	Nut, Hex. 5/16"-18	13	13	13	13	12	12	12	12	12	1
12	207973	Spacer, Fan Blade (Suction)	1	1	1	1						
l	78805H	Spacer. Fan Blade (Suction)	9981632	}	9000		1	l		ŀ		ĺ
	157015F	Spacer, Fan Blade (Suction)					•	1	1	1	1.	
ı	207973A	Spacer, Fan Blade (Pusher)	1 1	1	1.	1						
1	157015F	Spacer, Fan Blade (Pusher)						1	1	1	1	l
13	116560C	Blade, Fan (Suction)	1	1				}		1	1	ĺ
. 1	152197A	Blade, Fan (Suction)	188		1	1	1	1	1	1	1	1
.	207978 151611	Blade, Fan (Pusher) Blade, Fan (Pusher)	100	1	1	١.		١.		١.		İ
14	21309	Screw. Cap. Hex Head. 5/16"-18 x 3/4" (Suction)	16:59			1	1	1		1	1	
_ ^~	21325	Screw. Cap. Hex Head, 5/16"-18 x 3-1/4" (Suction)		4	4	4						4
	26249	Screw. Cap. Hex Head, 5/16"-18 x 1-3/8" (Suction)	4	Ψ.		₹		4	4	4	4	i
	21322	Screw. Cap. Hex Head, 5/16"-18 x 2-1/4" (Pusher)	4	4	4	4	4	1 7		4	. *	
I	21312	Screw, Cap. Hex Head. 5/16"-18 x 7/8" (Pusher)		1	189	Ŧ	4					
ĺ	26249	Screw, Cap. Hex Head, 5/16"-18 x 1-3/8" (Pusher)	1888					4	4	4	4	i
15	207944	Cap. Pressure		1	3	1	1	i	<u>-</u>	li	4 1 1	
16	C207901	Shell. Radiator		1	1		1		1	ĩ		ĺ
17	207913	Radiator	1 10	1		1	1	1	1 10	1	1	
18	21309	Screw, Cap, Hex Head, 5/16"-18 x 3/4"	10	10	10	10	10	10	10	10	10	
19	207971	Plate, Mounting, Radiator	1	1	1		1	1	12242	1	1	
20	21053	Washer, Lock, 7/16"	2	2	2	2	2	2	2	2	2	
21 22	Y18813J	Washer, Plain, 7/16"	2	2	2	2	2	2	2	2	2	ŀ
23	119627 28469G	Mount, Vibration Screw, Cap. Place Type, 7/16"-20 x 1-1/4"	2	4	4	4	4 2	4 2	4	4	4	
24	207902A	Support, Front		2	2	2		12		2	2	
	207903A	Support, Front		1	1	1						1
	207904A	Support. Front			::: 2 :::	1		1		1	3500000	i
25	21433	Screw, Cap. Hex Head, 1/2"-13 x 1-3/4"	9	2	9	2	1 2	1 2	1 2	2	2	1
26	21054	Washer, Lock, 1/2"	2 2 3	2	2	2	2	2	1.0	2	2	1
27	21205	Nut. Hex, 1/2"-13	9	2	2	2	2	2	2	2	2	
28	116514V	Spacer, Guard	6	6	6	6	6	6	8	6	6	1
29	199941A	Guard, Radiator		ľi	ī	ĭ	ĺ	1	l 🕻	ĭ		
30	21317	Screw, Cap. Hex Head, 5/16"-18 x 1-1/2"	6	6	6	6	6	6	6	6	6	1
.			1250	1					377	-	30000	l
			1070	1		ĺ		1				l
			F. 1	1	1000			1	1000	1		I
		1	1000		1300	!		1	200			
		1	li vi		36.9			1				
				1		1	135	1	1000	1		
					(8)	1				1		
						1	300	1		1		
						l		1				
	ļ		1898	1	144	l		1	1000	1	100000	
i	ļ	1	[900]	1	1:55			1				1
			188	1	1000	1		1	188		1888	ı
			la la	1		ł	100000		10000	1		1
	I	1	E9857	1	100000	ŧ	Table 1	i i	1.800	1	18000	1





FUEL OIL FILTER Group 54

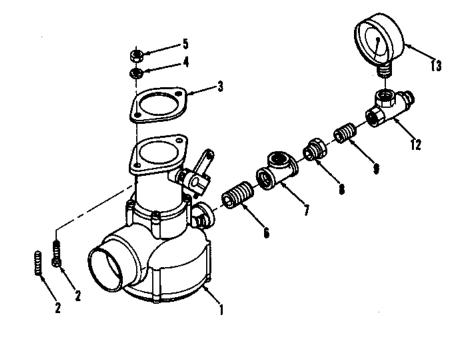
ITEM NO.	PART NUMBER	NOMENCLATURE	VRGISS	VRD155	VRG232	VRD232	VRG265	VRG283	VRD283	VRG310	VRD3TO	VRD3105
	AC194788	Filter, Fuel - Assembly		1								_
	AA194790	Filter, Fuel - Assembly							1		1	1
	DA194790	Filter. Fuel – Assembly	0.0.00 0.0.00 0.0.00 0.0.00 0.0.00			1						
	. C194788	. Base, Filter - Assembly		1								
	. A194790	. Base. Filter - Assembly				1			1		1	1
1	177428	Base, Filter		1		1			1		7	1
2	, . 194719	Plug, Filter Vent		1		1			1		1	1
3	194721	Washer, Seal		1		1			1		1	1
4	194720	. , Plug, Filter Drain		1		1			1		1	1
5	194723	Washer, Seal	33.000	1		1			1		1	1
6	106343	Plug. Pipe. Allen Head. 1/4"		1		1			1		1	1
7	. 177429	. Element, Fuel Filter		1		1			1		i	1
8	, 177430	. Clamp, Spring		1		1			1		1	1
9	. 177426	. Bracket, Fuel Filter							1		1	1
	. 194799	. Bracket, Fuel Filter				1						
	. 207897	. Bracket, Fuel Filter		1								
10	21343	Screw. Cap. Hex Head. 3/8"-16 x 3/4"				2						
	21346	Screw. Cap. Hex Head, 3/8"-16 x 7/8"		2								
	21348	Screw. Cap. Hex Head, 3/8"-16 x 1"	10100 10000 10000						2		2	2
	. 21348	. Screw, Cap. Hex Head, 3/8"-16 x 1"							2		2	2
11	21052	Washer, Lock, 3/8"	(123) (123) (123) (123)	2		2			2		2	2
	, 21052	. Washer, Lock, 3/8"		2		2			2		2	2
12	. 21340	. Screw, Cap, Hex Head. 3/8"-16 x 5/8"		2		2						
13	. 21189	. Nut. Hex, 3/8"-16		2								
14	. 73018E	. Elbow, Inverted		2								ļ
	73018G	Elbow, Inverted				1						ŀ
15	164717C	Connector. Flex				ľ			1		ì	1
	. 164717C	. Connector, Flex	1000									1
16	A176240B	Line. Fuel				1						
	C199166	Line, Fuel							1		1	1
	A207639	Line, Fuel	\$1012 1002 2013	1								
17	169013H	Clip	32	2								1
18	Ү18813Н	Washer, Plain, 3/8"	10.165 27.250 27.250									1
19	21343	Screw. Cap. Hex Head, 3/8"-16 x 3/4"	100									1
			8.2 2.2.2.		20000							
			1 (12.5) 1 (12.5)									
		[1						
			21.41 20.83 61.20									
	:					1						
				1								
			1000	1				1				

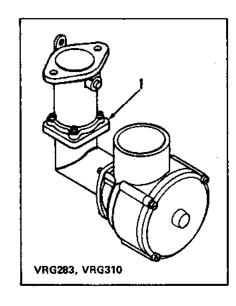


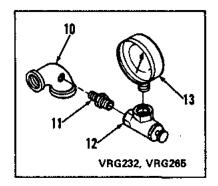


GASOLINE CARBURETOR, GASOLINE AND DIESEL FUEL PUMP Groups 19. 214

ITEM NO.	PART NUMBER	NOMENCLATURE			VRD155	VRG232	VRD232	VRG265	VRG283	VRDZ83	VRG310	VRD310	VRD3105
1	51083B	Carburetor				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			_				
	52080	Carburetor	024 201 201 201		200			1					ı
1	A52080B	Carburetor		1									ı
ľ	53079C	Carburetor			*****				1		1		ı
2	B291	Stud							2		2		ı
	B4025	Stud			3	2							ı
	44108	Stud	000 000 000	2	200			2					ı
3	B365	Gasket, Carburetor				1							ı
	B1331F	Gasket, Carburetor							1		1		ı
	B4096	Gasket, Carburetor						1					ı
4	21051	Washer, Lock, 5/16"				2							ı
	21052	Washer, Lock, 3/8"							2		2		ı
İ	21729	Washer, Lock - Plated, 3/8"		2			:	2					ı
5	21185	Nut, Hex, 5/16"-24				2							ı
	21193	Nut, Hex, 3/8"-24	***		1000				2		2		
į	21194	Nut, Hex - Plated, 3/8"-24		2			1	2					
6	A164556B	Pump, Fuel	N. 1	1		1	:	1	1		1		
ì	A164557B	Pump, Fuel			1		1			1		1	1
7	78407	Elbow, Flex				1		1	1		1		
8	73842B	Gasket, Fuel Pump		i	1	1	1	1	1	1	1	1	1
9	B2135	Washer, Plain - Copper, 5/16"		2	2	2	2	2	2	2	2	64	2
10	21316	Screw, Cap, Hex Head, 5/16"-18 x 1-1/4"		2	2	2	2	2	2	2	2	2	2
11	73018D	Elbow, Inverted			1								
12	164724A	Elbow, Flex			Yannar Tanan								
ŀ	164724B	Elbow, Flex		333			1			1		i	1
13	A164579A	Line, Fuel			800				1		1		
- 1	A199771	Line, Fuel	100					1					
l	A199772	Line, Fuel			2000	1							
,	A199906	Line, Fuel	2010 2010 2010		23 0,700		1						
ŀ	A199906B	Line, Fuel			1								;
ļ	A199939A	Line, Fuel								1		1	1
	A207470	Line, Fuel	55		1					90.70			
14	169013H	Clip			1	1	1	1	1	1	1	1	
	169013	Clip			Į.	200							;
15	164717A	Connector, Flex											
16	164724C	Elbow, Flex	200							1		1	
	164724B	Elbow, Flex				1		1					
17	164433	Valve, Solenoid, Fuel Shut-off	333		į,			ι					
	164433C	Valve, Solenoid, Fuel Shut-off				1							
į	199744	Valve, Solenoid, Fuel Shut-off							ì		1		
j													
-			133										
			133										
l			122										



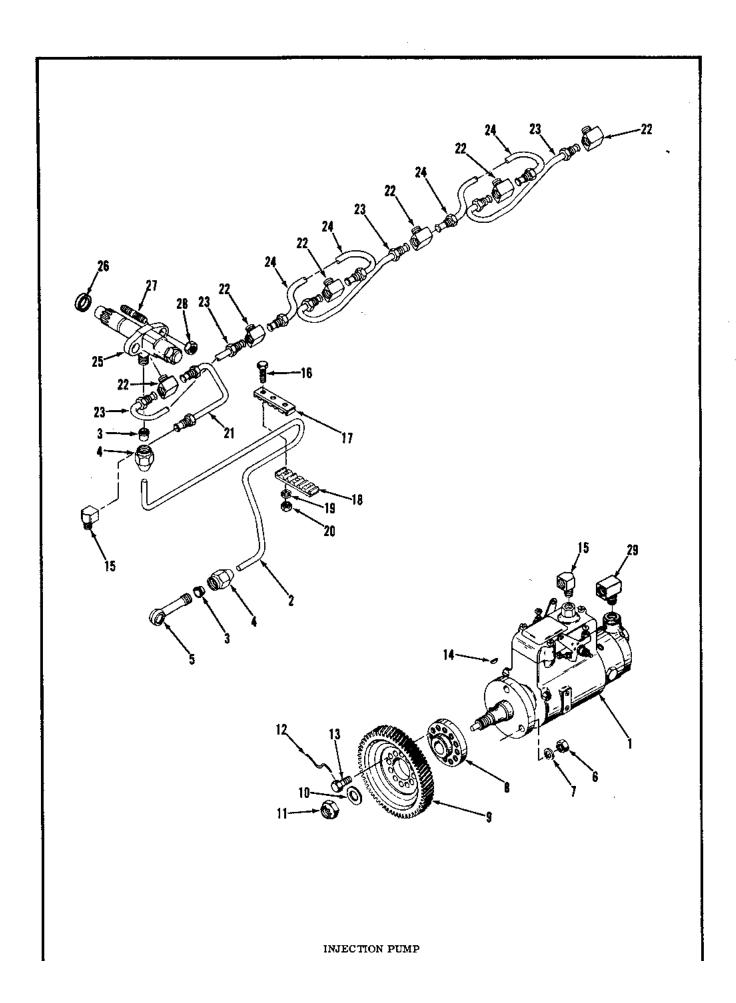






NATURAL GAS CARBURETOR Group 214

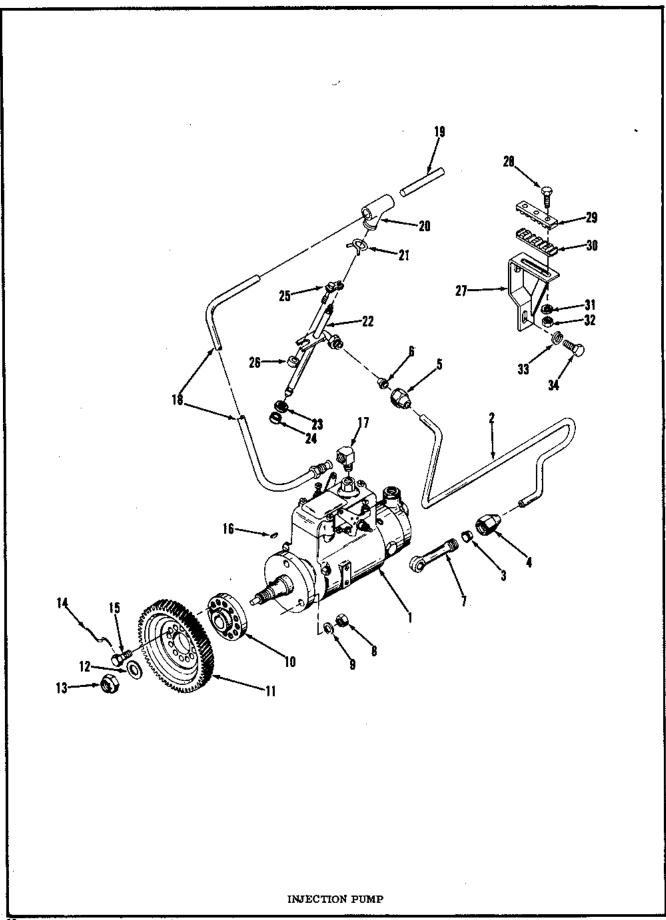
ITEM NO.	PART NUMBER	NOMENCLATURE	YRGI SS	VRD155	VRD232	VRGZ65	VRG283	VRG310 VRD310	VRD310S
1	51090A	Carburetor							ĺ
[52083A	Carburetor				i			
	A52083B	Carburetor							
	A199097	Carburetor					1	1	
	. 499278	. Valve, Air-Gas - Assembly	1			1	1	1	
	498925	Diaphragm, Air-Gas Valve	1			ı	1	1	
2	B291	Stud					2	2	
	B4025	Stud		1 1					
	21350	Screw, Cap, Hex Head, 3/8"-16 x 1-1/8"				2			
	26720	Screw, Cap, Hex Head, 3/8"-24 x 1-1/4"	2						
3	B365	Gasket, Carburetor							
	B1331F	Gasket, Carburetor					1	1	
	B4096	Gasket, Carburetor	1			1			
4	21051	Washer, Lock, 5/16"							
	21052	Washer, Lock, 3/8"				2	2	2	
<u> </u>	21729	Washer, Lock - Plated, 3/8"	2						
5	21185	Nut, Hex, 5/16"-24							
	21189	Nut, Hex, 3/8"-16				2			
	21193	Nut, Hex, 3/8"-24					2	2	
	21194	Nut, Hex - Plated, 3/8"-24	2						
6	73654Z	Nipple, Pipe, 1/2" x 2-1/2"					1	1	
	119434W	Nipple, Pipe, 1/2" x 1-1/8"	1	1		1			
7	78208C	Tee, Pipe, 1/2"	1	200			1	1	
8	78212C	Bushing, Reducing, 1/2" to 1/4"	ă.				1	1	
9	154981B	Nipple, Pipe, 1/4" x 7/8"	1				1	1	
10	166457	Elbow, Reducing, 1" x 1/2" x 90°		1		1			
11	B1993	Nipple, Reducing, 1/4" to 1/8"		1		ž			
12	117864	Valve, Test	1	1		1	1	1	
13	50794A	Gauge, Fuel Pressure	1	: 1	W1021W	1	1	1	
]									





INJECTION PUMP Groups 8, 9

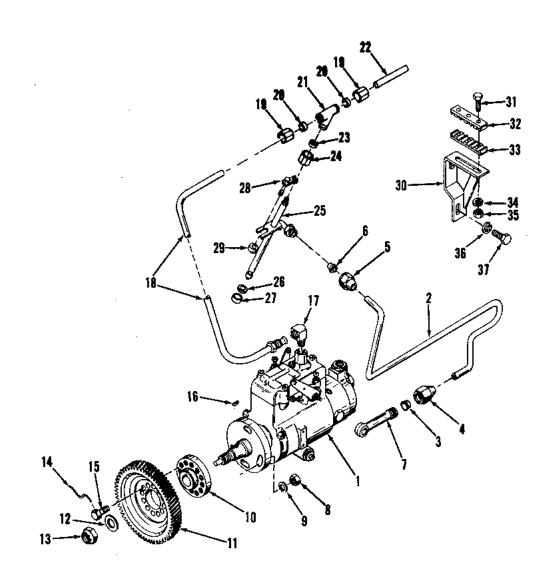
ITEM NO.	PART NUMBER	NOMENCLATURE	VRG155	VRD155	VRG232	VRD232	VRG265	VRG283	VRD283	VRG310	VR0310	VRD3105
1	207634	Pump, Injection - 1800 RPM, 8-14% Regulation	10000 20000 20000	1								
ļ	C207634	Pump, Injection - With Solenoid Assembly - 1800 RPM, 8-14% Regulation		1								
	. 207634F	Pump, Injection - Used with Solenoid Assembly		1								
	. 162564 . 208204	. Solenoid Assembly		1								
	, 208204 69705A	. Connector Pump, Injection - 1800 RPM, 8-14% Regulation	1000	1		1						
	C69705A	Pump, Injection - With Solenoid Assembly - 1800 RPM,				ľ						
	. 69705B	8-14% Regulation Pump, Injection - Used with Solenoid Assembly				1 1						
	. 162564 , 208204	. Solenoid Assembly . Connector				1 1						•
		(Note: Refer to Service Bulletin 9-2055 for	989									
		Injection Pump Part Numbers and Governor	1000									:
		Regulation at Speeds Other Than 1800 RPM, 8-14% Regulation)										i
		0-14% Regulation;	800				22.22					ı
2	AA163143	Lines, Injection - Assembly		1								
.	A156685M . C163143	Lines, Injection - Assembly Tube Assembly #1		,		1						
	. C156685M	. Tube Assembly #1		I		1						ı
	. C163143A	. Tube Assembly #2		1								
	. C156685N . C163143B	Tube Assembly #2 Tube Assembly #3		1		1						ı
	. C156685P	. Tube Assembly #3	0,01	1		1						l I
-	. C163143C . C156685R	. Tube Assembly #4		1		١.						!
. 1	. C156685S	Tube Assembly #4 Tube Assembly #5				1						
	. C156685T	. Tube Assembly #6				1						
3 4	44005B 41260B	Ferrule Nut, Fuel Injection Tube		8		12 12						
5	156172	Connector, Fuel Tube		4		6						
6	26780	Nut, Flex Loc, 3/8"-24		3		3						
7 8	B4827 155434	Washer, Plain, 3/8" Hub, Fuel Pump Gear	(100%) (100%)	3		3 1						
9	155194C	Gear, Fuel Pump		ī		i						
10	63700	Washer, Plain, 9/16"		1		1						
11 12	26801 116050K	Nut, Flex Loc, 9/16"-18 Wire, Lock	Ö	1 1		1 1						İ
13	120944	Screw, Injection Pump Coupling		2		2						į
14 15	21005 73018A	Key, Woodruff, No. 6 Elbow, Inverted		1		1 1						į
10	73018E	Elbow, Inverted	1989	ī		1						
1.	Y7529	Elbow, Half Union	1,100] ,	2000	1						į
16 17	26186 151760B	Screw, Cap, Hex Head, 1/4"-28 x 1-1/8" Clamp, Injection Tube		2 2	7(40) 5(19)	6						İ
	207587B	Clamp, Injection Tube		-		4						
18 19	207588B 21050	Insert, Injection Tube Clamp Washer, Lock, 1/4"		2		4		1				
20	21177	Nut, Hex, 1/4"-28		2	1, 110	6 6						
21	A156753	Line, Leak-off, Pump to No. 1 Injector		1	S	1						
22 23	152406 0119600	Tee, Inverted Line, Leak-off		4 2		6						
24	0119601	Line, Leak-off	90.	ī		2						
25	A60793 . 60407D	Injector, Fuel - Assembly . Nozzle, Injector	#*.55 #2.51	4		6						
26	. B10065A	. Washer, Fuel Injector		4		6						ĺ
27	118531	Stud		8	10.00	12						
28 29	21193 152868	Nut, Hex, 3/8"-24 Tee, Inverted		8		12						ĺ
""	10200	A CO., MITELLEU		1 *								
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INJECTION PUMP Groups 8, 9

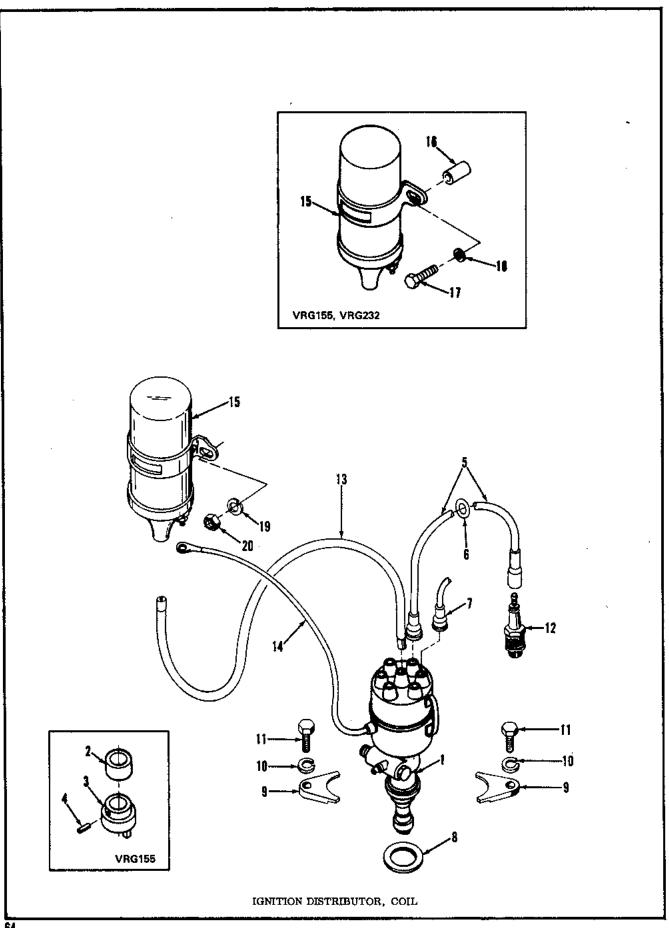
TEM NO.	PART NUMBER	NOMENCLATURE	VRG155	VRD155	VRG232	VRD232	VRG265	VRG283	VRD283	VRG310	VRD310
1	69706A C69706A	Pump, Injection - 1800 RPM, 8-14% Regulation							1		
	Castook	Pump, Injection - With Solenoid Assembly - 1800 RPM, 8-14% Regulation	983	1							
- 1	. 69706B	. Pump, Injection - Used with Solenoid Assembly						100	i	30	
- 1	. 162564	. Solenoid Assembly							1		
	. 208204 69707A	. Connector Pump, Injection - 1800 RPM, 8-14% Regulation		1					*		
1	C69707A	Pump, Injection - With Solenoid Assembly - 1800 RPM,	900					23.00			1
- 1		8-14% Regulation		1							1
- 1	. 69707B	. Pump, Injection - Used with Solenoid Assembly						33			1
	. 162564 . 208204	. Solenoid Assembly . Connector			308					, , , , , , , , , , , , , , , , , , ,	1
	,	1 0000002									
- 1		(Note: Refer to Service Bulletin 9-2055 for			30.00						
[Injection Pump Part Numbers and Governor						2200			
-		Regulation at Speeds Other Than 1800 RPM, 8-14% Regulation)						30			
}		Tank TroBattations	2000							000	
2	AA168823	Lines, Injection - Assembly		1		:		100	1	100	1
	. A168823 . A168823A	. Tube Assembly #1	90101	{					1	220	1
	. A168823B	. Tube Assembly #2 . Tube Assembly #3	1000	[ÖÜ				1	20	
	. A168823C	. Tube Assembly #4	27677 4(5),5					ļ ļ	1		1
	. A168823D	. Tube Assembly #5		1	Si			3300	il		î
ا ہ	. A168823E	. Tube Assembly #6							1		1
3 4	44005B 41260B	Ferrule Nut. Fuel Injection Tube	10.55					**************************************	6		6
5	167353	Nut, Fuel Injection Tube Nut, Injector				i			6		8
6	167354	Ferrule	900					90	6		6 6
7	156172	Connector, Fuel Tube						30	6	300	6
8 9	26780 B4827	Nut, Flex Loc, 3/8"-24							8		3
10	155434	Washer, Plain, 3/8" Hub, Fuel Pump Gear						90	3		3 1
11	155194C	Gear, Fuel Pump							4		
12	63700	Washer, Plain, 9/16"				1			il		1
13 14	26801 116050K	Nut, Flex Loc, 9/16"-18 Wire, Lock				. 1		100	1	- 100	1
15	120944	Screw, Injection Pump Coupling	2000	'		-			1		1 2
16	21005	Key, Woodruff, No. 6				1		1	7	- 10	i
17	73018B	Elbow, Inverted			33			3	1	200	2
18	A168672 C176320	Line, Leak-off, Pump to No. 1 Injector				ļ			1	18	337
19	. 176320	Line, Leak-off - Assembly Line, Leak-off				1		1,5	1	200	1
20	. 167356	. Boot, Leak-off				Ì			5		5 6
21	. 167355	. Clamp	1000						6		6
22	69602A	Injector, Fuel - Assembly						3	6	30	
23	177033 . 499210	Injector, Fuel - Assembly . Washer, Fuel Injector	200								6
24	. 169319	. Seal, Carbon Dam	8333					13	6		6
25	167357	Clamp, Injector						9	6		š
26	166038A	Spacer, Fuel Injector						1	6	133	6
27 28	A168860 21302	Bracket, Injection Pump Screw, Cap, Hex Head, 1/4"-28 x 1-1/4"						18	1		1
~	26186	Screw, Cap, Hex Head, 1/4"-28 x 1-1/8"	100					- 1	3		3
29	207587B	Clamp, Injection Tube							4		4
30	207588B	Insert, Injection Tube Clamp						Į.	4		4
31 32	21050 21177	Washer, Lock, 1/4"						1	6	33	6
33	21052	Nut, Hex, 1/4"-28 Washer, Lock, 3/8"						1	6		5
34	21346	Screw, Cap, Hex Head, 3/8"-16 x 7/8"						- 1	1		1
ŀ			131.11					lå.		100	
Ī						-		3		150	
			1444			1					
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INJECTION PUMP Groups 8, 9

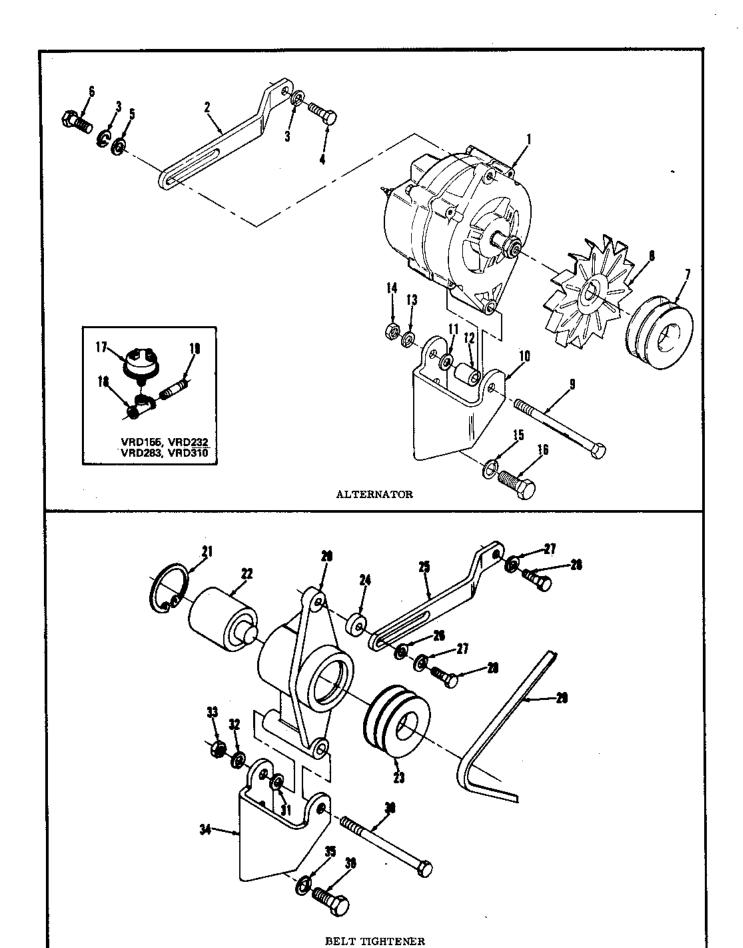
ITEM NO.	PART NUMBER	NOMENCLATURE	VRG155	VRD155	VRG232	VRD232	VRG265	VRG283	VRDZ83	VRG310	VRDS10	VRD310S
1	69589G C69589G	Pump, Injection - 2500 RPM, 8-14% Regulation Pump, Injection - With Solenoid Assembly - 2500 RPM.		-								1
ŀ		8-14% Regulation, Energized to Run	2000									1
	. 69589F	. Pump, Injection - Used with Solenoid Assembly	100000									1
ĺ	. 162564 . 208204	. Solenoid Assembly . Connector										1
	69589G	Pump, Injection - 2500 RPM, 8-14% Regulation										1
	D69589G	Pump, Injection - With Solenoid Assembly - 2500 RPM, 8-14% Regulation, Energized to Stop										1
	, 69589F	. Pump, Injection - Used with Solenoid Assembly	200		3333							1
	. 162564B . 208204	. Solenoid Assembly . Connector										1
2	AA168823	Lines, Injection - Assembly										1 1
_	. A168823	. Tube Assembly #1										1
	A168823A	. Tube Assembly #2										ĩ
	. A168823B	. Tube Assembly #3										1
ŀ	. A168823C	. Tube Assembly #4 . Tube Assembly #5										1
[. A168823E	. Tube Assembly #6	200		3000					200		1
3	44005B	. Ferrule	******	1				li				1 6
4	41260B	Nut, Fuel Injection Tube										6
5	167353	Nut, Injector								1000		6
6	167354	Ferrule		1								6
7 8	156172	Connector, Fuel Tube										6
9	26780 B4827	Nut, Flex Loc, 3/8"-24 Washer, Plain, 3/8"								100		3
10	155434	Hub, Fuel Pump Gear										3
11	155194J	Gear, Fuel Pump										1
12	63700	Washer, Plain, 9/16"	1000	1	2000	-				27		i
13	26801	Nut, Flex Loc, 9/16"-18										1
14 15	116050K	Wire, Lock		1				ll		3		1
16	120944 21005	Screw, Injection Pump Coupling Key, Woodruff, No. 6	22.000	Ì								2
17	73018B	Elbow, Inverted		ŀ						Į.		1 2
18	A168672	Line, Leak-off, Pump to No. 1 Injector	-110									1
19	120920B	Nut, Tubing	1865383							1		6
20	120918B	Sleeve, Rubber	2000		(0000					I.		12
21 22	176462 B6605	Tee, Nozzle Leak-off	355 99 336 35									6
23	176460	Line, Leak-off Grommet, Nozzie Leak-off						ll				5
24	176461	Nut, Leak-off			(000000 200000							6 6
25	69603F	Injector, Fuel						H		1		6
26	. 499210	. Washer, Fuel Injector										6
27	. 169319	. Seal, Carbon Dam		1		į						6
28 29	167357 166038A	Clamp, Injector Spacer, Fuel Injector	9,134									6
30	A 168860	Bracket, Injection Pump		1								6 1
31	21302	Screw, Cap, Hex Head, 1/4"-28 x 1-1/4"		1								3
	26186	Screw, Cap, Hex Head, 1/4"-28 x 1-1/8"	931									3
32	207587B	Clamp, Injection Tube		l								4
33 34	207588B 21050	Insert, Injection Tube Clamp					3063					4
35	21177	Washer, Lock, 1/4" Nut, Hex, 1/4"-28	1000	ĺ								6
36	21052	Washer, Lock, 3/8"										6 1
37	21346	Screw, Cap, Hex Head, 3/8"-16 x 7/8"										1
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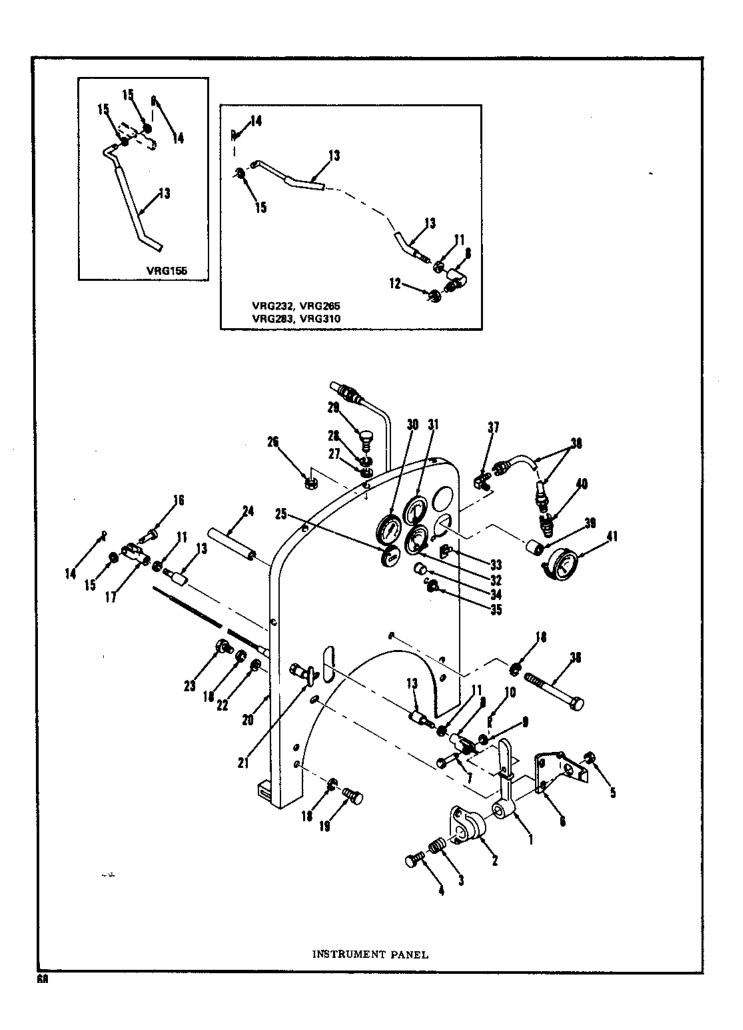
$\begin{array}{c} \text{IGNITION DISTRIBUTOR, COIL} \\ \text{Group } 22 \end{array}$

ITEM PART NO. NUMBER	NOMENCLATURE	VRG155	VRD155	ZEZONA.	VRD232	VRG265	VRG283	VRD283	VRG310	VRD310	VRD310S
69498 . 491963 . 491962 . 491966 . 491967 A69498A D69498A A60262L . 60262L . 491871 . 490752 . 491872 . 69498A . 491960 . 491961 . 491964 . 491965 2 167059 3 161514 4 26950 5 163504B 163504B 163504B 163505B 163506C 8 116292 9 116294 10 163505B 163506C 8 116292 9 116294 10 21052 11 21350 12 50432B 69532A 69514 69462 69532A 69514 69462 69532A 13 0154390 14 0116635 15 50192 16 1165148 17 21293 18 Y18813G 19 21051 20 21185	Distributor (Previous Configuration) Point Set Condenser Rotor Cap Distributor Assembly Distributor Assembly Distributor Assembly Distributor Assembly Distributor Point Set Condenser Rotor Cap Distributor Point Set Condenser Rotor Cap Distributor Point Set Condenser Rotor Cap Spacer Gear, Tachometer Drive Pin, Roll, 5/32" x 3/4" Cable, Ignition (Cylinders No. 1 and 6) Cable, Ignition (Cylinders No. 3 and 4) Cable, Ignition (Cylinders No. 2 and 5) Ring, Rubber Cable, Ignition (Cylinder No. 0) Cable, Ignition (Cylinder No. 3 and 4) Cable, Ignition (Cylinder No. 3 and 4) Cable, Ignition (Cylinder No. 2) Gasket, Distributor Calle, Ignition (Cylinder No. 2) Gasket, Distributor Ciamp, Distributor Washer, Lock, 3/8" Sorew, Cap, Hex Head, 3/8"-16 x 1-1/8" Plug, Spark - Gasoline Plug, Spark - Natural Gas Plug, Spark - Ratural Gas Plug, Spark - Rasoline Plug, Spark - Rasoline Cable, Coll to Distributor (Primary) Wire, Secondary Coil Spacer Sorew, Cap, Hex Head, 1/4"-20 x 2-1/4" Washer, Plain, 1/4" Washer, Lock, 5/16" Nut, Hex, 5/16"-24			1.11.1 1.12.22 1.22.26.6 1.11.1.2		THEFT 2 CAS TAXE 66 FFT NO.	11111 2 2 2 2 2 1 2 2 2 2 6 6 1 1 1 2 2 2		111111 2 2 2 2 2 1 2 2 2 6 6 1 1 1 2 2		





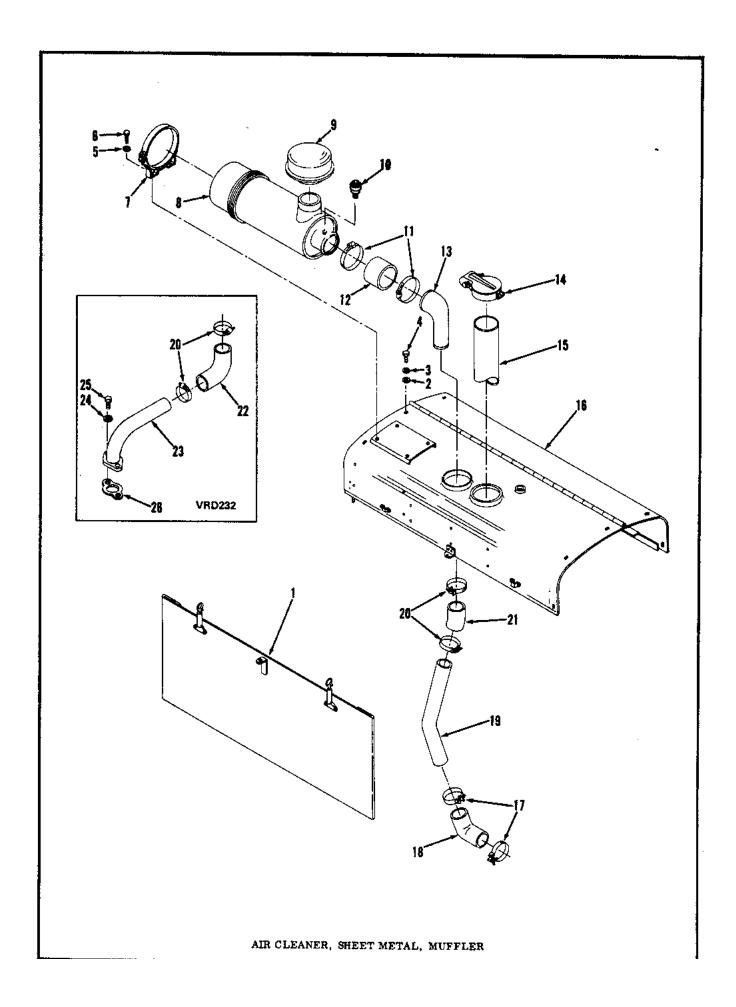
ITEM	PART			VRD155	VRG232	VRD232	VRG265	VRG283	VRD283	VRG310	VRD310	VRD3105
NO.	NUMBER	NOMENCLATURE	2	Σ	5	<u>></u>	5	Σ	3	>		<u> </u>
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	69738 . 490976 . 490979 . 490980 119947B 199094B 21051 21309 21307 B277 21313 199096 69451 21374 199095 B3718 63809D 21052 21189 21054 21425 60356 B8679 65110B	Alternator . Regulator, Voltage . Brush and Holder - Assembly . Spring, Brush Strap, Adjusting Strap, Adjusting Washer, Lock, 5/16" Screw, Cap, Hex Head, 5/16"-18 x 3/4" Screw, Cap, Hex Head, 5/16"-18 x 5/8" Washer, Plain, 5/16" Screw, Cap, Hex Head, 5/16"-18 x I" Pulley, Aiternator Fan, Alternator Screw, Cap, Hex Head, 3/8"-16 x 4-1/4" Bracket, Alternator Mounting Washer, Plain, 3/8" Spacer Washer, Lock, 3/8" Nut, Hex, 3/8"-16 Washer, Lock, 1/2" Screw, Cap, Hex Head, 1/2"-13 x 1" Switch, Oil Pressure Tee, Pipe, 1/8" Nipple, Pipe, 1/8" x 1-1/2"	1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2	111112111111122111	Natural Natural Annual Natural	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 2 1 1 1 1 1 4 1 1 2 2 2	LINE THE PERSON NAMED IN TAXABLE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2	N. DESE BEEFERS	1 2 1 1 1 1 2 2
20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36	A199582 . 199582 . 44999R . 199583 . 199096B 117428A 163725Y 199094 B277 21051 21313 A166226 A810496 A154337 21374 B3718 21052 21189 199095 21054 21425	BELT TIGHTENER Group 32 Tightener, Belt - Assembly Tightener, Belt Ring, Retaining Shaft and Bearing Pulley Spacer Strap, Adjusting Washer, Plain, 5/16" Washer, Lock, 5/16" Screw, Cap, Hex Head, 5/16"-18 x 1" Belt, Water Pump (Set of 2) Belt, Water Pump (Set of 2) Belt, Water Pump (Set of 2) Screw, Cap, Hex Head, 3/8"-16 x 4-1/4" Washer, Lock, 3/8" Nut, Hex, 3/8"-16 Bracket Washer, Lock, 1/2" Screw, Cap, Hex Head, 1/2"-13 x 1"		1 1 1 1 2 1 1 1 1 2 2 1 1 1 1 2 2 2	TALENT ROLL TOWN	1 2 1 1 1	1 1 2 2 1 1 1 1 2 2	1 1 2 1 1 1 2 2 1 1 1 1 2 2 2	THE BURE THE STATE	11211 1122 1 1411122	1122 1 1 1 1 2 2	1 1 2 1 1 1 2 2 1 1 1 1 2 2 2





INSTRUMENT PANEL Groups 203, 204, 213, 215

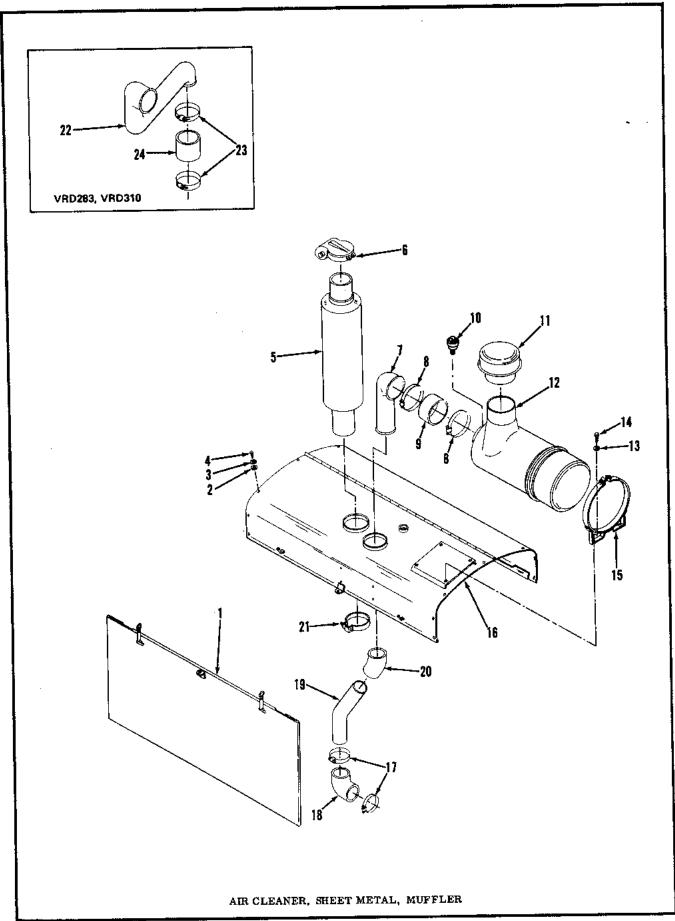
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	PART NUMBER AB9267 AB9267Z B9267Z B9266 B9269 21365 21189 207915 B6667B B6649A 199358 Y18813G 21058 21064 21179 26906 199114E 199114F 199471B 199471C 207476B 207476B 207476B 21058 21060 B141 74005 Y18813G B3743 B3671	Lever, Throttle - Assembly Lever, Throttle - Assembly Lever, Throttle - Assembly Lever, Throttle Lever, Throttle Bracket Spring Screw, Cap, Hex Head, 3/8"-16 x 2-1/2" Nut, Hex, 3/8"-16 Stop, Throttle Lever Pin, Clevis Clevis Clevis Joint, Ball Washer, Plain, 1/4" Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/8" x 3/4" Nut, Thin Hex, 1/4"-28 Nut, Flex Loc, 1/4"-28 Rod, Control Rod, Control Rod, Control Rod, Control Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/16" x 3/4" Washer, Plain, 1/4" Washer, Plain, 1/4" Washer, Plain, 3/16" Washer, Plain, 1/4" Pin, Clevis Clevis	\$915 8 /1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ARCARA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N T THE THE THEFT IN YRG265	VRG283	T C C C C C C C C C C C C C C C C C C C	7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	AB9267Z . B9267 . B9267 . B9267 . B9266 . B9269 . 21365 . 21189 207915 B6667B B6649A 199358 Y18813G 21058 21064 21179 26906 199114E 199114F 199471C 207476B 207476B 207476D 21058 21060 B141 74005 Y18813G B3743	Lever, Throttle - Assembly . Lever, Throttle . Lever, Throttle . Bracket . Spring . Screw, Cap, Hex Head, 3/8"-16 x 2-1/2" . Nut, Hex, 3/8"-16 Stop, Throttle Lever Pin, Clevis Clevis Joint, Ball Washer, Plain, 1/4" Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/8" x 3/4" Nut, Thin Hex, 1/4"-28 Nut, Flex Loc, 1/4"-28 Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Rod, Cotter, 1/16" x 3/4" Pin, Cotter, 1/16" x 3/4" Washer, Plain, 1/4" Washer, Plain, 1/4" Washer, Plain, 1/4" Washer, Plain, 1/4" Pin, Clevis		1 1 1 1 1 1 1 2 2		1 1111111111111111111111111111111111111	I IIII I II II II I	1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 2	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	. B9267 . B9267 Z . B9266 . B9269 . 21365 . 21189 207915 B6667B B6649A 199358 Y18813G 21058 21058 21064 21179 26906 199114E 199114F 199471B 199471B 199471C 207476B 207476D 21058 21060 B141 74005 Y18813G B3743	Lever, Throttle Lever, Throttle Bracket Spring Screw, Cap, Hex Head, 3/8"-16 x 2-1/2" Nut, Hex, 3/8"-16 Stop, Throttle Lever Pin, Clevis Clevis Joint, Ball Washer, Plain, 1/4" Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/8" x 3/4" Nut, Thin Hex, 1/4"-28 Nut, Flex Loc, 1/4"-28 Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Rod, Cotter, 1/16" x 3/4" Washer, Plain, 1/4" Washer, Plain, 1/4" Washer, Plain, 3/16" Washer, Plain, 1/4" Pin, Clevis		1 1 1 1 1 2 2		111111 1 1 2 1		1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 2 1	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 177 18 19 20 21 22 23 24 25 26 27 28 29 30	. B9267 Z . B9266 . B9269 . 21365 . 21189 207915 B6667B B6649A 199358 Y18813G 21058 21064 21179 26906 199114E 199114F 199471B 199471B 199471C 207476B 207476D 21058 21060 B141 74005 Y18813G B3743	Lever, Throttle Bracket Spring Sorew, Cap, Hex Head, 3/8"-16 x 2-1/2" Nut, Hex, 3/8"-16 Stop, Throttle Lever Pin, Clevis Clevis Joint, Ball Washer, Plain, 1/4" Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/8" x 3/4" Nut, Thin Hex, 1/4"-28 Nut, Flex Loc, 1/4"-28 Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Rod, Cotter, 1/16" x 3/4" Washer, Plain, 1/4" Washer, Plain, 1/4" Washer, Plain, 3/16" Washer, Plain, 1/4" Pin, Clevis		1 1 1 1 1 2 2		111111 1 1 2 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 2 1	
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	. B9266 . B9269 . 21365 . 21189 207915 B6667B B6667B B6649A 199358 Y18813G 21058 21064 21179 26906 199114E 199114F 199471B 199471C 207476B 207476D 21058 21060 B141 74005 Y18813G B3743	. Bracket . Spring . Screw, Cap, Hex Head, 3/8"-16 x 2-1/2" . Nut, Hex, 3/8"-16 Stop, Throttle Lever Pin, Clevis Clevis Joint, Ball Washer, Plain, 1/4" Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/8" x 3/4" Nut, Thin Hex, 1/4"-28 Nut, Flex Loc, 1/4"-28 Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/16" x 3/4" Washer, Plain, 1/4" Washer, Plain, 1/4" Washer, Plain, 3/16" Washer, Plain, 1/4" Pin, Clevis		1 1 1 1 1 2		11111 1 12	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 2 1 2	
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	. B9269 . 21365 . 21189 207915 B6667B B6649A 199358 Y18813G 21058 21064 21179 26906 199114F 199471B 199471C 207476B 207476D 21058 21060 B141 74005 Y18813G B3743	Spring Sorew, Cap, Hex Head, 3/8"-16 x 2-1/2" Nut, Hex, 3/8"-16 Stop, Throttle Lever Pin, Clevis Clevis Joint, Ball Washer, Plain, 1/4" Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/8" x 3/4" Nut, Thin Hex, 1/4"-28 Nut, Flex Loc, 1/4"-28 Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Rod, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/16" x 3/4" Washer, Plain, 1/4" Washer, Plain, 1/4" Washer, Plain, 3/16" Washer, Plain, 1/4" Pin, Clevis		1 1 1 1 1 2		11111 1 12	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 2 1 2	111111111111111111111111111111111111111
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 220 221 222 23 24 25 26 27 28 29 30	. 21365 . 21189 207915 B6667B B66649A 199358 Y18813G 21058 21064 21179 26906 199114E 199114F 199471B 199471C 207476B 207476D 21058 21060 B141 74005 Y18813G B3743	. Screw, Cap, Hex Head, 3/8"-16 x 2-1/2" . Nut, Hex, 3/8"-16 Stop, Throttle Lever Pin, Clevis Clevis Clevis Joint, Ball Washer, Plain, 1/4" Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/8" x 3/4" Nut, Thin Hex, 1/4"-28 Nut, Flex Loc, 1/4"-28 Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/16" x 3/4" Washer, Plain, 1/4" Washer, Plain, 1/4" Washer, Plain, 3/16" Washer, Plain, 1/4" Pin, Clevis		1 1 2 2	1 111	11111 1 12	III IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	1 1 1 1	1.1.1.1.1.2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 23 24 25 26 27 28 29 30	. 21189 207915 B6667B B66649A 199358 Y18813G 21058 21064 21179 26906 199114E 199114F 199471B 199471C 207476B 207476D 21058 21060 B141 74005 Y18813G B3743	Nut, Hex, 3/8"-16 Stop, Throttle Lever Pin, Clevis Clevis Joint, Ball Washer, Plain, 1/4" Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/8" x 3/4" Nut, Thin Hex, 1/4"-28 Nut, Flex Loc, 1/4"-28 Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/16" x 3/4" Washer, Plain, 1/4" Washer, Plain, 1/4" Washer, Plain, 1/4" Pin, Clevis		1 1 1 2 2		1111 1 12	II II I	1 1 1 1	1 1 1 1 2	
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	207915 B6667B B66649A 199358 Y18813G 21058 21064 21179 26906 199114E 199114F 199471B 199471C 207476B 207476D 21058 21060 B141 74005 Y18813G B3743	Stop, Throttle Lever Pin, Clevis Clevis Joint, Ball Washer, Plain, 1/4" Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/8" x 3/4" Nut, Thin Hex, 1/4"-28 Nut, Flex Loc, 1/4"-28 Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/16" x 3/4" Washer, Plain, 1/4" Washer, Plain, 3/16" Washer, Plain, 1/4" Pin, Clevis		1 2 2		111 1 12 1	1 1 1	1 1 1 1	1 1 1 2	1 1 1 1 1 1 1 1 1
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	B6667B B6649A 199358 Y18813G 21058 21064 21179 26906 199114E 199114F 199471B 199471C 207476B 207476D 21058 21060 B141 74005 Y18813G B3743	Pin, Clevis Clevis Joint, Ball Washer, Plain, 1/4" Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/8" x 3/4" Nut, Thin Hex, 1/4"-28 Nut, Flex Loc, 1/4"-28 Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/16" x 3/4" Washer, Plain, 1/4" Washer, Plain, 3/16" Washer, Plain, 1/4" Pin, Clevis		1 2 2	1	1 1 1 2 1	1 1	1 1 1	1 1 2 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	B6649A 199358 Y18813G 21058 21064 21179 26906 199114E 199114F 199471B 199471C 207476B 207476D 21058 21060 B141 74005 Y18813G B3743	Clevis Joint, Ball Washer, Plain, 1/4" Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/8" x 3/4" Nut, Thin Hex, 1/4"-28 Nut, Flex Loc, 1/4"-28 Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/16" x 3/4" Washer, Plain, 1/4" Washer, Plain, 1/4" Pin, Clevis		1 2	111	1 1 2 1	###	1 1 1	1 2	1 1 1 1 1 1 1 1 1
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	Y18813G 21058 21064 21179 26906 199114E 199114F 199471B 199471C 207476B 207476D 21058 21060 B141 74005 Y18813G B3743	Joint, Ball Washer, Plain, 1/4" Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/8" x 3/4" Nut, Thin Hex, 1/4"-28 Nut, Flex Loc, 1/4"-28 Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/16" x 3/4" Washer, Plain, 1/4" Washer, Plain, 3/16" Washer, Plain, 1/4" Pin, Clevis		1 2 1	111	1 12	###	1 1 1		1 1 1 1 1 1
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	21058 21064 21179 26906 199114E 199114F 199471B 199471C 207476B 207476D 21058 21060 B141 74005 Y18813G B3743	Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/8" x 3/4" Nut, Thin Hex, 1/4"-28 Nut, Flex Loc, 1/4"-28 Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/16" x 3/4" Washer, Plain, 1/4" Washer, Plain, 3/16" Washer, Plain, 1/4" Pin, Clevis		2	111	122	###	1 1 1	1	1 1 1 1
11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	21064 21179 26906 199114E 199114F 199471B 199471C 207476B 207476D 21058 21060 B141 74005 Y18813G B3743	Pin, Cotter, 1/8" x 3/4" Nut, Thin Hex, 1/4"-28 Nut, Flex Loc, 1/4"-28 Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/16" x 3/4" Washer, Plain, 1/4" Washer, Plain, 1/4" Washer, Plain, 1/4" Pin, Clevis		2	1	2	1	1	1	1 2 1
11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	21179 26906 199114E 199114F 199471B 199471C 207476B 207476D 21058 21060 B141 74005 Y18813G B3743	Nut, Thin Hex, 1/4"-28 Nut, Flex Loc, 1/4"-28 Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/16" x 3/4" Washer, Plain, 1/4" Washer, Plain, 3/16" Washer, Plain, 1/4" Pin, Clevis		1	1	2	1	1	1	1 % 1 1
12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	26906 199114E 199114F 199471B 199471C 207476B 207476D 21058 21060 B141 74005 Y18813G B3743	Nut, Flex Loc, 1/4"-28 Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/16" x 3/4" Washer, Plain, 1/4" Washer, Plain, 3/16" Washer, Plain, 1/4" Pin, Clevis	***************************************	1	1	1	1	1	1	1 1 1
13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	199114E 199114F 199471B 199471C 207476B 207476D 21058 21060 B141 74005 Y18813G B3743	Red, Control Red, Control Red, Control Red, Control Red, Control Red, Control Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/16" x 3/4" Washer, Plain, 1/4" Washer, Plain, 1/4" Washer, Plain, 3/16" Washer, Plain, 1/4" Pin, Clevis			1		1	1	±	1 1
14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	199114F 199471B 199471C 207476B 207476D 21058 21060 B141 74005 Y18813G B3743	Rod, Control Rod, Control Rod, Control Rod, Control Rod, Control Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/16" x 3/4" Washer, Plain, 1/4" Washer, Plain, 3/16" Washer, Plain, 1/4" Pin, Clevis			j		-	1	1	1
14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	199471B 199471C 207476B 207476D 21058 21060 B141 74005 Y18813G B3743	Rod, Control Rod, Control Rod, Control Rod, Control Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/16" x 3/4" Washer, Plain, 1/4" Washer, Plain, 3/16" Washer, Plain, 1/4" Pin, Clevis			2020		-	1	1	1
14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	199471C 207476B 207476D 21058 21060 B141 74005 Y18813G B3743	Rod, Control Rod, Control Rod, Control Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/16" x 3/4" Washer, Plain, 1/4" Washer, Plain, 3/16" Washer, Plain, 1/4" Pin, Clevis			2020				1	1
14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	207476B 207476D 21058 21060 B141 74005 Y18813G B3743	Rod, Control Rod, Control Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/16" x 3/4" Washer, Plain, 1/4" Washer, Plain, 3/16" Washer, Plain, 1/4" Pin, Clevis			2020				1	1
14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	207476D 21058 21060 B141 74005 Y18813G B3743	Rod, Control Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/16" x 3/4" Washer, Plain, 1/4" Washer, Plain, 3/16" Washer, Plain, 1/4" Pin, Clevis			2020	1			1	1
14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	21058 21060 B141 74005 Y18813G B3743	Pin, Cotter - Plated, 1/16" x 1/2" Pin, Cotter, 1/16" x 3/4" Washer, Plain, 1/4" Washer, Plain, 3/16" Washer, Plain, 1/4" Pin, Clevis		1	2020	1			1	1
15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	21060 B141 74005 Y18813G B3743	Pin, Cotter, 1/16" x 3/4" Washer, Plain, 1/4" Washer, Plain, 3/16" Washer, Plain, 1/4" Pin, Clevis			2020	1			1	1
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	74005 Y18813G B3743	Washer, Plain, 1/4" Washer, Plain, 3/16" Washer, Plain, 1/4" Pin, Clevis	2		2		2	2	13753	2
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	Y18813G B3743	Washer, Plain, 3/16" Washer, Plain, 1/4" Pin, Clevis	2		:::: :7 :: :::::::::::	B				
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	B3743	Pin, Clevis	1000	I		- 6		- 3		-
17 18 19 20 21 22 23 24 25 26 27 28 29 30				.I		1				
18 19 20 21 22 23 24 25 26 27 28 29 30	B3673	l Clevis		1		1				1
19 20 21 22 23 24 25 26 27 28 29 30				1		1		133		1
20 21 22 23 24 25 26 27 28 29 30	21052 21343	Washer, Lock, 3/8"	7 4	7		7	7	7	7	7
21 22 23 24 25 26 27 28 29 30	E199113	Screw, Cap, Hex Head, 3/8"-16 x 1" Pagel, Instrument		4	4	4	4	4	4	4 4
21 22 23 24 25 26 27 28 29 30	F199113	Panel. Instrument	15.6	. 1	1	7	1	1		1 1
22 23 24 25 26 27 28 29 30	194683	Control, Locking		1		1		+	1	1 1
22 23 24 25 26 27 28 29 30	194683F	Control, Locking	1	1					30000	
23 24 25 26 27 28 29 30	194683K	Control, Locking			1	. 1	1	1		1
24 25 26 27 28 29 30	Y18813H 21343	Washer, Plain, 3/8" Screw, Cap, Hex Head, 3/8"-16 x 1"	2	2	2 2	2 2	2	2	2 2	2 2 2
25 26 27 28 29 30	21348	Screw, Cap, Hex Head, 3/8"-16 x 5/8"	2	2	300000		*	4		2 2
25 26 27 28 29 30	207155	Pipe, 3/8" x 5-1/16"	200	1 -	11	1	1	1		1 1
26 27 28 29 30	207155A	Pipe, 3/8" x 4"	1	1	953			- 1		
27 28 29 30	60662E	Meter, Hour	1.1	1	1	1	1	1	1 7 7	1 1
28 29 30	21181	Nut, Hex, 5/16"-18	7	7	77	7	7	7	7	7
29 30	B277	Washer, Plain, 5/16"		7	7	7	7	7	7	7 7
30	21051	Washer, Lock, 5/16"	17	7	7	7	7	7	7	7
	21309	Screw, Cap, Hex Head, 5/16"-18 x 3/4"	7	7		7	7 1 1	7	2	7 7
	162870B 162870D	Tachometer (Up to 2400 rpm) Tachometer (Over 2400 rpm)	1 1	1	1	1		1	1	1 1
	60903	Ammeter, Clamp Type	- 1	1	1	1		1		1 1 1 1
	199472	Gauge, Water Temperature (Standard)	l	i	1	1		- 1		1
	199472B	Gauge, Water Temperature (Standard)		^	9:21	-	1	1 9		1 1
	A120843A	Gauge, Water Temperature and Safety Switch (Optional)				- 1		1		1 1
1	C120843	Gauge, Water Temperature and Safety Switch (Optional)		1	1	1	1	- 13		
33	954162	Switch, Ignition	1 1 1		1	1	1	1		1
34	60869A	Switch, Starter	1	1	1	1	1 1	1	1	1 1
35	152934	Switch, Magnetic Ignition (Used with Safety Switches for	i di s			- 1			R#	
_		Distributor Ignition or Diesels)	1	1	1	1	1	1	1	1 1
	21512	Screw, Cap, Hex Head, 3/8"-16 x 5"	1	1		Ī				
	28121	Screw, Cap, Hex Head, 3/8"-16 x 6"			1	1	1	1	1	1 1 1 2
		Elbow, Union	1	2	1	2	1	1	2	1 2
	B1686	Hose, Flexible	1 1	1	1	1	1	1	1	1 1
	B1686 50864H		1:57	1		1		. [3	1	. 1
	B1686 50864H 78209W	Coupling, Pipe, 1/8"				1	1	1	ž.	1 1 1 1
_	B1686 50864H 78209W B7106C	Coupling, Pipe, 1/8" Adapter	1	1		1		T ;;	1	1 1
[]	B1686 50864H 78209W	Coupling, Pipe, 1/8"		1 1	1	ı			8:01	1 1





AIR CLEANER, SHEET METAL, MUFFLER Groups 201, 208, 217

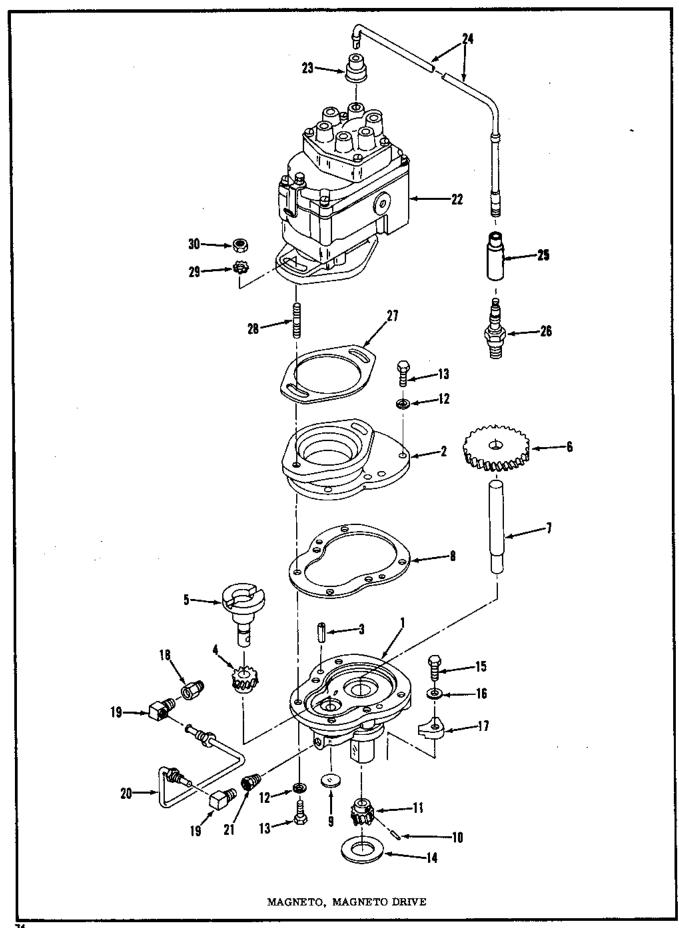
TEM			\$. 	ı — '	0.000	7	2.25	. ~		ကြ		-
NO.	PART NUMBER	NOMENCLATURE	VROISS	VRD155	VRG232	VRD232	VRG265	VRG283	VRD283	VRG310	VRD310	
			0,-28 23:55		100 (1) 100 (1)			_		-		
1	0120802	Door, Side		1	2	2	2					
-	A120802J	Door, Side		2		"		İ		l		
2	Y18813G	Washer, Plain, 1/4" (Use with 199072B Radiator)		1 7		7	7	1		1		
_	B277	Washer, Plain, 5/16" (Use with 207913 Radiator)	2 7 7	7	7 7 7	7	7			1		
3	21050	Washer, Lock, 1/4" (Use with 199072B Radiator)		7	7	7	7]				
	21051	Washer, Lock, 5/16" (Use with 207913 Radiator)	107	7	7	7	7					
4	21275	Screw, Cap, Hex Head, 1/4"-20 x 3/4" (Use with	833	ľ		`						
i		199072B Radiator)	2	7	7	7	7	1		I		
	21307	Screw, Cap, Hex Head, 5/16"-18 x 5/8" (Use with		'		1						
		207913 Radiator)	7 4	7	7 4	7	7 4	ŀ		•		
5	21052	Washer, Lock, 3/8"	4	4	4	4	4			1		
6	21343	Screw, Cap, Hex Head, 3/8"-16 x 3/4"		4		4	4			1		
7	167989	Band, Mounting	2	2	2	2				1		
_	118974	Band, Mounting	2000 2000			1	2]				
8	199421	Cleaner, Air - Assembly	1308 1303	Ι.			1					
]	199434	Cleaner, Air - Assembly		1	1	1		1				
- 1	. 208227	. Element, Air Cleaner	932			١.	1	1 1				1
9	. 207965	. Element, Air Cleaner	li	1	1	1						ĺ
7	169373 199432	Cap, Air Inlet		1	1	1		1				[
10	153789	Cap, Air Inlet Indicator, Air Restriction		١.		1						
-0	153789A	Indicator, Air Restriction		1	1	١.	1					ĺ
11	41236	Clamp, Hose	900			1						
	41236A	Clamp, Hose	2.000	١.,		۱,	2					į
12	B2602D	Connection, Hose, 3" L.D. x 2-1/2"	1 2	2 1	2 1	2		1				ĺ
~-	78927A	Connection, Hose, 4" L.D. x 2-1/4"		-		١ ٠		1				
13	199530	Elbow, Air Cleaner	1000				1 1					
	199542	Elbow, Air Cleaner	100		1	1						
14	155938	Cap, Rain (Without Muffler)		1 1		i		1				
_	155938T	Cap, Rain (With Muffler)	1 1 1	lì	î	l i	1					
15	167907C	Pipe, Exhaust (Without Muffler)		1 ~		*	1					ļ
	100834G	Pipe, Exhaust (With Muffler)	6.50			1	ī					
	100834U	Pipe, Exhaust (Without Muffler)	1	1		1						
	100834H	Pipe, Exhaust (With Muffler)	1	1	1	l î				l		1
16	199127D	Hood, Hinged				-	1					İ
	199127E	Hood, Hinged			I	1						l
	199127 F	Hood, Hinged	1	1	1,000,000	ł						l
17	65737	Clamp, Hose	2	2	2	2						l
	41236D	Clamp, Hose			\$4,94,0		2					
18	199535	Elbow, Hose			1	1						
	199536	Elbow, Hose	1	1		İ	1			•		l
19	199169A	Pipe, Air - Gasoline			Marie 1	[1			Ī		l
	207190	Pipe, Air - Natural Gas	######################################			Ì	1			1		ı
	199203A	Pipe, Air			1	1						
	207466	Pipe, Air	1	١ ـ	id et i	l						
۵,	207466A	Pipe, Air	1 2	2		_						ĺ
20	65737	Clamp, Hose	2	2	2	2						į
21	810117E 117234C	Clamp, Hose				i	2					
	199538	Connection, Hose, 1-7/8" I.D. x 3" Hose, Reducer			1							
22	199535	Elbow, Hose			1	1	*		Side			
23	A199201A	Pipe, Air				1						į
24	21051	Washer, Lock, 5/16"	1877			2		1				į
25	21313	Screw, Cap, Hex Head, 5/16"-18 x 1"				2						ı
26	810232	Gasket				í		1		į		ı
	010202	- Capitot				1 *				I		
		1		1		l				1		ı
		1		1						ŀ		1
		NOT ILLUSTRATED				1			###			1
	1504000											
	159469B	Clamp, Muffler		١	1	1						
	168094	Clamp, Muffler	1	1		_ ا	1	ŀ		j		1
	199446	Connection, Muffler	1.2	1	1	1	1		48.5	Į		į
	199454	Muffler	1	1	1	1	1			1		1
		l .	55.18	4	1 3 3 6 7	ı	Page 6		252.03			į





AIR CLEANER, SHEET METAL, MUFFLER Groups 201, 208, 217

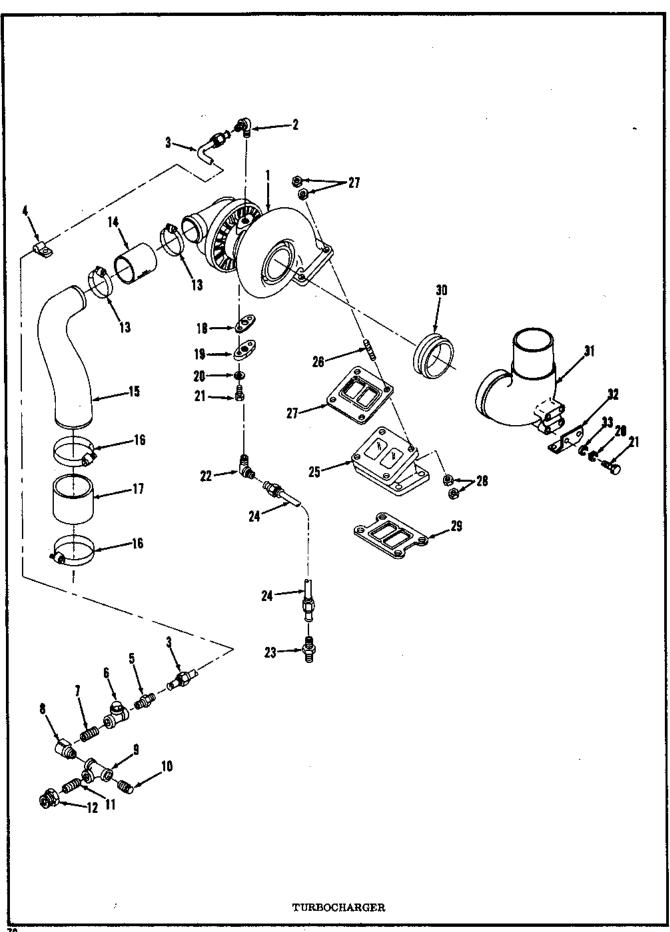
•			10 10	55	8	32	\$	83	83	9	91	105
NO.	PART NUMBER	NOMENCLATURE	VRGISS	VRD155	VRG232	VRD232	VRG265	VRG283	VRD283	VRG310	VRD310	Venera
1	0120802	Door, Side						2	2			
2	Y18813G	Washer, Plain, 1/4" (Use with 199072B Radiator)	100000 100000 100000					7	7	2 7	2	í
	B277	Washer, Plain, 5/16" (Use with 207913 Radiator)						7	7	1 :		ı I
3	21050	Washer, Lock, 1/4" (Use with 199072B Radiator)						7	7	7	3000	
	21051	Washer, Lock, 5/16" (Use with 207913 Radiator)						7	,	7	7	
4	21275	Screw, Cap, Hex Head, 1/4"-20 x 3/4" (Use with 199072B Radiator)						7	7	7	7	
	21307	Screw, Cap, Hex Head, 5/16"-18 x 5/8" (Use with 207913 Radiator)						7	7	7	7	
5	199454	Muffler						1	1	1	L	
6	155938T	Cap, Rain						1	1	1	1	
7	199530	Elbow, Air Cleaner						1		1		
8	41236	Clamp, Hose						2	2	2.	2	
9	78927A	Connection, Hose, 4" I.D. x 2-1/4"						1		1	1	
10	153789	Indicator, Air Restriction						1		1		
	153789A	Indicator, Air Restriction	1960 B					_	1	_	i	
11	199432	Cap, Air Inlet						1	1	1	1	
12	199421	Cleaner, Air - Assembly						1	1	1	i	
	. 208227	. Element, Air Cleaner						1.	1	1	il	
13	21052	Washer, Lock, 3/8"						4	4	4	4	
14	21343	Screw, Cap, Hex Head, 3/8"-16 x 3/4"						4	4	4	4	
15	118974	Band, Mounting						2	2	2	2	
16	199127C	Hood, Hinged	78160 2005					1		1		
17	41236D	Clamp, Hose						4		4		
18	199537	Elbow, Hose - Gasoline						1		1		
	158043F	Connection, Hose - Natural Gas, 2-1/4" I.D. x 2"						1		1		
19	199104A	Pipe, Air - Gasoline						1		1		
	199102A	Pipe, Air - Natural Gas						1		1		
20	199532	Elbow, Hose - Gasoline						1		1		
ŀ	158043	Connection, Hose - Natural Gas, 2-1/4" L.D. x 3"						1		1		
21	168094	Clamp, Muffler						ı		1		
22	A199103B	Pipe, Air	1000					^			1	
23	41236K	Clamp, Hose							2	- [2	
24	B2602C	Connection, Hose, 3" I.D. x 3"						ŀ	í		233	
											1	
		<u> </u>										
		İ										
		NOT ILLUSTRATED				İ				1		
	199121A	Adapter, Exhaust				.				-		
	169257	Gasket, Manifold							1		1	
	207426					ŀ		j	1	- 1	1	
	7447T	Pipe, Exhaust (Without Muffler)]	1	ļ	1	
	155938H	Pipe, Exhaust (Without Muffler)						1		1		
	199437	Cap, Rain (Without Muffler)	1000					1		1		
]	1934D1	Connection, Muffler				1		1		1		





MAGNETO, MAGNETO DRIVE Groups 22, 67

ITEM	PART		VRG155	VRD155	VRG232	VRD232	VRG265	VRG283	VRD283	VRG310	VRDS10	VRD3105
NO.	NUMBER	NOMENCLATURE		>	5	>	5	>	3	VR	-3	<u>~</u>
	AA199686	Drive, Magneto - Assembly			1		1	1		1		
	. A199686	. Case, Magneto Gear - Assembly			2		1	1		1		
1	199686	Case, Magneto Gear			1		1	1		1		
2	199687	Cover, Magneto Gear Case			1		1	1		1		
3	26662	Pin, Roll, 1/4" x 1/2"	2000		1		1	1		1		
	. A199690	. Gear, Drive - Assembly			1		1	1		1		
4	199690	Gear, Driven			1		1	1		1		
5	199689	Shaft, Magneto Stub			1		1	1.		1		
	. A199691	. Gear, Drive - Assembly	10000		1		1	1		1		
6	199691	Gear, Drive					1	1		1		
7	199688	Shaft, Magneto Drive			1		1	1		1		
8	. 151859	. Gasket, Cover	101210 101210 101210		1		1	1		1		
9	. B295	. Plug, Expansion			1		1	ī		1		
10	. B997	. Pin			1			1		1		
11	. 161514	. Gear, Tachometer Drive			1		1	1		1		
12	. 21819	, Washer, External Shakeproof - Plated, 5/16"			6		6	6		6		
13	. 21310	. Screw, Cap, Hex Head, 5/16"-18 x 3/4"		1	6		8	6		6		
14	116292	Gasket	10000		1		1	1		1		
15	21350	Screw, Cap, Hex Head, 3/8"-16 x 1-1/8"	1500		2		2	2		2		
16	21052	Washer, Lock, 3/8"			2		2	2		2		
17	116294	Clamp, Distributor	::022 ::022 ::022	ļ	2		2	2		2		
18	85 323	Fitting, Restriction			1		1	1		1		
19	73018A	Elbow, Inverted	30000		2		2	2		2		
20	0155209	Line, Oil			1							
	A155209A	Line, Oli					1	1		1		
21	73017A	Connector, Inverted			1		1	1		1		
22	1 9 9725	Magneto - Assembly			1		1	1		1		
	. 491507	. Point Set			1		1	1		ı		
	. 491655	. Condenser	(0)		1		1	1		1		
	. 491503	. Cap, End	2000		1		1	1		1		
	. 491515	. Rotor, Distributor			1		3	1		1		
	. 491657	. Brush and Spring			1		1	1		1		
23	60333	Nipple, Rubber			6		ð	6		6		
24	A120765	Cable, Ignition - Assembly (Set of 6)			1		1	1		1		
25	. 161900	. Nipple, Rubber		1	8		6	6		6		
26	50432B	Plug, Spark - Gasoline		1	6							
	69532A	Plug, Spark - Natural Gas	X () () ()		6							
	69514	Plug, Spark - Gasoline		1			6	6		6		
	69462	Plug, Spark - Natural Gas					8	6		6		
27	73904	Gasket, Magneto			1		1	1		1		
28	B291D	Stud		1	2		2	2		2		
29	21650	Washer, Shakeproof - Plated, 3/8"			2		2	2		2		
30	21194	Nut, Hex, 3/8"-24			2		2	2		2		
			1000	1								





TURBOCHARGER Group 27

ITEM NO.	PART NUMBER	NOMENCLATURE	V#0155	VRD155	VRG232	VKD232	VRG283	VRD283	VRG310	VRD310	VRD3105
1	169057B	Turbocharger			1018					•	1
2	164724C	Elbow, Flex									1
3	D169327	Line, Oil Supply									1
4	169013	Clip, Oil Line									1
5	164717C	Connector, Flex									1
6	156361A	Valve, Check									1
7	15 4 981 F	Nipple, Pipe, 1/4" x 1-1/2"									1
8	B10168B	Elbow, Street, 1/4" x 90°									1
9	78208L	Tee, Pipe, 1/4"									1
10	78282C	Plug, Pipe, Square Head, 1/4"	\$1000 \$1000 \$1000								1
11	154981B	Nipple, Pipe, 1/4" x 7/8"									1
12	78212A	Bushing, Reducing, 3/8" to 1/4"				10161					1
13	41236J	Clamp, Hose									2
14	169058	Connection, Hose, 2" L.D. x 2-3/16"									1
15	199282	Pipe, Turbocharger Air									1
16	41236K	Clamp, Hose	1,000 cm 1,0								2
17	161700E	Connection, Hose, 3" I.D. x 2-1/2"									1
18	169329	Gasket, Oil Drain Line Flange	- 1900 - 1960								1
19	168478	Flange, Oil Drain Line									1
20	21052	Washer, Lock, 3/8"	6353 .:::35 .::14								6
21	2134 8	Screw, Cap, Hex Head, 3/8"-16 x 1"									6
22	16 4 724F	Elbow, Body									1
23	164717E	Connector, Flex									1
24	A199940	Line, Turbocharger Drain									1
	A169046A	Adapter, Turbocharger - Assembly	10002 6 10104 5		6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						1
25	. 169046A	. Adapter, Turbocharger									1
26	. 159364B	, Stud									4
27	166618C	Gasket, Turbocharger	10.0								1
28	26881	Nut, Thin Hex, 3/8"-24									16
29	169257	Gasket, Turbocharger Adapter									1
30	199460	Sleeve, Exhaust									1
31	221099A	Elbow, Exhaust									1
32	208082	Bracket, Exhaust									1
33	Y18813H	Washer, Plain, 3/8"									4

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A-SERIES	A-32	A-42	A-54	A-62 A-62 Turbo A-62 Genset	A-90 A-90 Turbo A-90 Genset	A-160 A-160 Turbo A-160 Genset			
K-SERIES	К6								
L-SERIES	L-795								



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		Structural Skids		H2S Scavenger Unit	
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AJAX [®]	5× 6½	EA-22, $6\frac{1}{2} \times 8$ CMA EA30, $7\frac{1}{2} \times 10$ CMA EA-30, $7\frac{1}{4} \times 8$ CMA E-42, $8\frac{1}{2} \times 10$ CMA		DP-60, 9½ × 10 CMA DP-115/230, 13½ × 16 DP-70/80/160, 11 × 14 CMA			

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