



Current Production Injectors

INJECTOR	NO.	TYPE	SIZE	WGT.	WGT.	WGT.	WGT.	WGT.	WGT.	WGT.
1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10	10	10	10

INJECTOR NO. 1000

INJECTOR NO. 1000

INJECTOR NO. 1000

INJECTOR	NO.	TYPE	SIZE	WGT.	WGT.	WGT.	WGT.	WGT.	WGT.	WGT.	WGT.
1	1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10	10	10	10	10

INJECTOR NO. 1000

INJECTOR NO. 1000



CURRENT PRODUCTION INJECTOR

CURRENT PRODUCTION INJECTOR

Series 53 and 71 Injectors

SUMMARY OF SERIES 53 AND 71 HIGH VALVE CONFIGURATION INJECTORS

Engine	In.	Catalog Type *	Assy. Part No. Standard Body	Offset Body	Plunger Design	P & B Part No.	Spray Tip	Tip Part No.	J22410 Calibrator Min./Max.	88252 Calibrator Min./Max.	J20410+ Comparator Min./Max.	88252 Comparator Min./Max.	Injector Timing
53-1	35	41	—	5228535*	35	5228530	8-005-105°	5228436	38-40	38-40	0-8*	52-58	1-508
53	35	41	—	5228535*	35	5228530	8-005-105°	5228436	38-40	38-40	0-8*	52-58	1-084
53	40	42	—	5228580*	40	5228552	8-005-105°	5228436	38-43	38-43	8-13*	58-66	1-084
53	540†	51	—	5228580*	40	5228552	8-005-105°	5228473	43-47	43-47	0-8	52-58	1-482
53	545†	52	—	5228580*	45	5228425	8-005-105°	5228473	48-52	48-52	8-12	58-65	1-482
53	550†	55	—	5228580*	55	5228126	8-005-105°	5228473	52-56	52-56	9-15	62-68	1-482
71	8655	14	5228308	—	55	5228126	8-008-155° -H	5228296	52-56	52-56	8-14	61-67	1-484
71	866	11	5228312	—	66H	5228308	8-008-155° -H	5228296	59-63	58-63	18-24	71-77	1-484
71	867	12, 25	5228305	5228416	7H	5228304	7-008-185° -H	5228554	71-75	71-75	30-38	83-88	1-482
71	868	13, 24	5228159	5228435	8H	5228155	7-008-185° -H	5228554	80-84	80-84	38-44	91-97	1-482
71	869	21	5228380	—	8H	5228378	7-008-185° -H	5228554	87-92	87-92	48-53	99-105	1-482
71	580	58	—	5228534*	8H	5228181	7-008-185° -H	5228554	80-84	80-84	38-44	91-97	1-482
71	583	48	—	5228535*	9H	5228549	7-008-185° -H	5228554	87-92	87-92	48-53	99-105	1-482

* Low timing bodies - Standard on Series 53 inline and V's and All 4 Valve Series 71 engines.

† Use only with low velocity camshafts on 3-53 (5126745-6H, 5126748-RH) 4-53 (5126747-LH, 5126748-RH) and 6V-53 (5126833-LH, 5126834-RH)

‡ Booster can/Two Speed

■ As appears in Parts Catalog

• Set counter at 1200 strokes

•• Set counter at 1000 strokes except where noted

NOTE: Use of J 6130 injector test oil will contribute to greater accuracy.

Engine	Inj.	Catalog Type *	Assy. Part No.	Flange Design	P & S Part No.	Tie Part No.	Spray Tip	J22410 Collector Min./Max.	HA253 Collector Min./Max.	J23414 Compressor Min./Max.	HA252 Compressor Min./Max.	Injector Timing
53	640	65	5238763	4L	5238839	5238024	8-0055-185" A	41-45	41-45	4-18	57-63	1.450
53	640	75	5238763	4N	5238884	5238034	8-008-185" A	42-45	42-45	4-18	57-63	1.450
53	645	75	5238773	48N	5238884	5238034	8-008-185" A	47-51	47-51	14-28	57-73	1.450
53	650	74	5238763	5N	5238749	5238034	8-008-185" A	50-54	50-54	16-24	71-77	1.450
71	7165	82	5238850	5N	5238749	5238039	8-0055-185" A	50-54	50-54	16-24	71-77	1.450
71	655	77	5238785	58N	5238888	5238036	8-0055-185" A	53-57	53-57	24-30	77-83	1.450
71	660	76	5238780	6N	5238858	5238035	8-0055-185" A	57-61	57-61	36-38	83-89	1.450
71	665 ±	87	5238880	68S	5238838	5238030	8-008-185" A	64-68	64-68	30-38	85-91	1.454
71	7670	80	5238770	7N	5238882	5238042 ±	7-000-185" A	71-75	71-75	38-44	97-97	1.450**
71	7675	81	5238777	78N	5238858	5238042 ±	7-008-185" A	75-79	75-79	41-47	94-100	1.450**
71	7680 ±	82	5238780	8N	5238881	5238035	7-0055-185" A	81-85	81-85	45-51	85-104	1.454
71	880	100	5238785	9N	5238878	5238035	7-0055-185" A	87-92	87-92	60-68	113-119	1.450

* 030 Wall Spray Tip

± Brown Tip

* As appears in Parts Catalog

† Matched Use Approved

• Set counter at 1000 strokes

• • Use 1.484 for Turbocharged Automotive Engines

‡ Except Generator Sets (1.450)

SUMMARY OF SERIES 149 INJECTORS

Inj.	Catalog Type *	Assy. Part No.	Flange Part No.	Spray Tip	Tie Part No.	J22410 Collector Min./Max.	HA253 Collector Min./Max.	HA252 Compressor Min./Max.	Injector Timing
120	66	5238855	5238874	7-010-185"	5238032	118-126	118-126	118-126	2.175
135	66	5238860	5238875	7-010-185"	5238032	128-140	128-140	128-140	2.175
140	66	5238039	5238819	7-010-185"	5238032	152-168	150-168	160-168	2.175*
150	66	5238865	5238876	7-010-185"	5238032	168-176	168-176	168-176	2.175*
165	100	5238175	5238172	7-010-185"	5238032	184-182	184-182	184-182	2.175*
180	101	5238118	5238190	7-010-185"	5238032	180-205	180-205	185-205	2.205

* As appears in Parts Catalog

* Plus 2.205 for Turbocharged Intercooled Engines

1987 CERTIFIED AUTOMOTIVE ENGINES

Model	Year	Engine	Power (hp)	Speed (rpm)	Weight (lb)	Dimensions (in)	Notes
4-92	1987	4-92	100	2400	1100	48.0 x 48.0 x 48.0	4-92
6-92	1987	6-92	150	2400	1600	48.0 x 48.0 x 48.0	6-92
8-92	1987	8-92	200	2400	2100	48.0 x 48.0 x 48.0	8-92
10-92	1987	10-92	250	2400	2600	48.0 x 48.0 x 48.0	10-92
12-92	1987	12-92	300	2400	3100	48.0 x 48.0 x 48.0	12-92
15-92	1987	15-92	350	2400	3600	48.0 x 48.0 x 48.0	15-92
18-92	1987	18-92	400	2400	4100	48.0 x 48.0 x 48.0	18-92
21-92	1987	21-92	450	2400	4600	48.0 x 48.0 x 48.0	21-92
24-92	1987	24-92	500	2400	5100	48.0 x 48.0 x 48.0	24-92
27-92	1987	27-92	550	2400	5600	48.0 x 48.0 x 48.0	27-92
30-92	1987	30-92	600	2400	6100	48.0 x 48.0 x 48.0	30-92
33-92	1987	33-92	650	2400	6600	48.0 x 48.0 x 48.0	33-92
36-92	1987	36-92	700	2400	7100	48.0 x 48.0 x 48.0	36-92
39-92	1987	39-92	750	2400	7600	48.0 x 48.0 x 48.0	39-92
42-92	1987	42-92	800	2400	8100	48.0 x 48.0 x 48.0	42-92
45-92	1987	45-92	850	2400	8600	48.0 x 48.0 x 48.0	45-92
48-92	1987	48-92	900	2400	9100	48.0 x 48.0 x 48.0	48-92
51-92	1987	51-92	950	2400	9600	48.0 x 48.0 x 48.0	51-92
54-92	1987	54-92	1000	2400	10100	48.0 x 48.0 x 48.0	54-92
57-92	1987	57-92	1050	2400	10600	48.0 x 48.0 x 48.0	57-92
60-92	1987	60-92	1100	2400	11100	48.0 x 48.0 x 48.0	60-92
63-92	1987	63-92	1150	2400	11600	48.0 x 48.0 x 48.0	63-92
66-92	1987	66-92	1200	2400	12100	48.0 x 48.0 x 48.0	66-92
69-92	1987	69-92	1250	2400	12600	48.0 x 48.0 x 48.0	69-92
72-92	1987	72-92	1300	2400	13100	48.0 x 48.0 x 48.0	72-92
75-92	1987	75-92	1350	2400	13600	48.0 x 48.0 x 48.0	75-92
78-92	1987	78-92	1400	2400	14100	48.0 x 48.0 x 48.0	78-92
81-92	1987	81-92	1450	2400	14600	48.0 x 48.0 x 48.0	81-92
84-92	1987	84-92	1500	2400	15100	48.0 x 48.0 x 48.0	84-92
87-92	1987	87-92	1550	2400	15600	48.0 x 48.0 x 48.0	87-92
90-92	1987	90-92	1600	2400	16100	48.0 x 48.0 x 48.0	90-92
93-92	1987	93-92	1650	2400	16600	48.0 x 48.0 x 48.0	93-92
96-92	1987	96-92	1700	2400	17100	48.0 x 48.0 x 48.0	96-92
99-92	1987	99-92	1750	2400	17600	48.0 x 48.0 x 48.0	99-92
102-92	1987	102-92	1800	2400	18100	48.0 x 48.0 x 48.0	102-92
105-92	1987	105-92	1850	2400	18600	48.0 x 48.0 x 48.0	105-92
108-92	1987	108-92	1900	2400	19100	48.0 x 48.0 x 48.0	108-92
111-92	1987	111-92	1950	2400	19600	48.0 x 48.0 x 48.0	111-92
114-92	1987	114-92	2000	2400	20100	48.0 x 48.0 x 48.0	114-92
117-92	1987	117-92	2050	2400	20600	48.0 x 48.0 x 48.0	117-92
120-92	1987	120-92	2100	2400	21100	48.0 x 48.0 x 48.0	120-92
123-92	1987	123-92	2150	2400	21600	48.0 x 48.0 x 48.0	123-92
126-92	1987	126-92	2200	2400	22100	48.0 x 48.0 x 48.0	126-92
129-92	1987	129-92	2250	2400	22600	48.0 x 48.0 x 48.0	129-92
132-92	1987	132-92	2300	2400	23100	48.0 x 48.0 x 48.0	132-92
135-92	1987	135-92	2350	2400	23600	48.0 x 48.0 x 48.0	135-92
138-92	1987	138-92	2400	2400	24100	48.0 x 48.0 x 48.0	138-92
141-92	1987	141-92	2450	2400	24600	48.0 x 48.0 x 48.0	141-92
144-92	1987	144-92	2500	2400	25100	48.0 x 48.0 x 48.0	144-92
147-92	1987	147-92	2550	2400	25600	48.0 x 48.0 x 48.0	147-92
150-92	1987	150-92	2600	2400	26100	48.0 x 48.0 x 48.0	150-92
153-92	1987	153-92	2650	2400	26600	48.0 x 48.0 x 48.0	153-92
156-92	1987	156-92	2700	2400	27100	48.0 x 48.0 x 48.0	156-92
159-92	1987	159-92	2750	2400	27600	48.0 x 48.0 x 48.0	159-92
162-92	1987	162-92	2800	2400	28100	48.0 x 48.0 x 48.0	162-92
165-92	1987	165-92	2850	2400	28600	48.0 x 48.0 x 48.0	165-92
168-92	1987	168-92	2900	2400	29100	48.0 x 48.0 x 48.0	168-92
171-92	1987	171-92	2950	2400	29600	48.0 x 48.0 x 48.0	171-92
174-92	1987	174-92	3000	2400	30100	48.0 x 48.0 x 48.0	174-92
177-92	1987	177-92	3050	2400	30600	48.0 x 48.0 x 48.0	177-92
180-92	1987	180-92	3100	2400	31100	48.0 x 48.0 x 48.0	180-92
183-92	1987	183-92	3150	2400	31600	48.0 x 48.0 x 48.0	183-92
186-92	1987	186-92	3200	2400	32100	48.0 x 48.0 x 48.0	186-92
189-92	1987	189-92	3250	2400	32600	48.0 x 48.0 x 48.0	189-92
192-92	1987	192-92	3300	2400	33100	48.0 x 48.0 x 48.0	192-92
195-92	1987	195-92	3350	2400	33600	48.0 x 48.0 x 48.0	195-92
198-92	1987	198-92	3400	2400	34100	48.0 x 48.0 x 48.0	198-92
201-92	1987	201-92	3450	2400	34600	48.0 x 48.0 x 48.0	201-92
204-92	1987	204-92	3500	2400	35100	48.0 x 48.0 x 48.0	204-92
207-92	1987	207-92	3550	2400	35600	48.0 x 48.0 x 48.0	207-92
210-92	1987	210-92	3600	2400	36100	48.0 x 48.0 x 48.0	210-92
213-92	1987	213-92	3650	2400	36600	48.0 x 48.0 x 48.0	213-92
216-92	1987	216-92	3700	2400	37100	48.0 x 48.0 x 48.0	216-92
219-92	1987	219-92	3750	2400	37600	48.0 x 48.0 x 48.0	219-92
222-92	1987	222-92	3800	2400	38100	48.0 x 48.0 x 48.0	222-92
225-92	1987	225-92	3850	2400	38600	48.0 x 48.0 x 48.0	225-92
228-92	1987	228-92	3900	2400	39100	48.0 x 48.0 x 48.0	228-92
231-92	1987	231-92	3950	2400	39600	48.0 x 48.0 x 48.0	231-92
234-92	1987	234-92	4000	2400	40100	48.0 x 48.0 x 48.0	234-92
237-92	1987	237-92	4050	2400	40600	48.0 x 48.0 x 48.0	237-92
240-92	1987	240-92	4100	2400	41100	48.0 x 48.0 x 48.0	240-92
243-92	1987	243-92	4150	2400	41600	48.0 x 48.0 x 48.0	243-92
246-92	1987	246-92	4200	2400	42100	48.0 x 48.0 x 48.0	246-92
249-92	1987	249-92	4250	2400	42600	48.0 x 48.0 x 48.0	249-92
252-92	1987	252-92	4300	2400	43100	48.0 x 48.0 x 48.0	252-92
255-92	1987	255-92	4350	2400	43600	48.0 x 48.0 x 48.0	255-92
258-92	1987	258-92	4400	2400	44100	48.0 x 48.0 x 48.0	258-92
261-92	1987	261-92	4450	2400	44600	48.0 x 48.0 x 48.0	261-92
264-92	1987	264-92	4500	2400	45100	48.0 x 48.0 x 48.0	264-92
267-92	1987	267-92	4550	2400	45600	48.0 x 48.0 x 48.0	267-92
270-92	1987	270-92	4600	2400	46100	48.0 x 48.0 x 48.0	270-92
273-92	1987	273-92	4650	2400	46600	48.0 x 48.0 x 48.0	273-92
276-92	1987	276-92	4700	2400	47100	48.0 x 48.0 x 48.0	276-92
279-92	1987	279-92	4750	2400	47600	48.0 x 48.0 x 48.0	279-92
282-92	1987	282-92	4800	2400	48100	48.0 x 48.0 x 48.0	282-92
285-92	1987	285-92	4850	2400	48600	48.0 x 48.0 x 48.0	285-92
288-92	1987	288-92	4900	2400	49100	48.0 x 48.0 x 48.0	288-92
291-92	1987	291-92	4950	2400	49600	48.0 x 48.0 x 48.0	291-92
294-92	1987	294-92	5000	2400	50100	48.0 x 48.0 x 48.0	294-92
297-92	1987	297-92	5050	2400	50600	48.0 x 48.0 x 48.0	297-92
300-92	1987	300-92	5100	2400	51100	48.0 x 48.0 x 48.0	300-92
303-92	1987	303-92	5150	2400	51600	48.0 x 48.0 x 48.0	303-92
306-92	1987	306-92	5200	2400	52100	48.0 x 48.0 x 48.0	306-92
309-92	1987	309-92	5250	2400	52600	48.0 x 48.0 x 48.0	309-92
312-92	1987	312-92	5300	2400	53100	48.0 x 48.0 x 48.0	312-92
315-92	1987	315-92	5350	2400	53600	48.0 x 48.0 x 48.0	315-92
318-92	1987	318-92	5400	2400	54100	48.0 x 48.0 x 48.0	318-92
321-92	1987	321-92	5450	2400	54600	48.0 x 48.0 x 48.0	321-92
324-92	1987	324-92	5500	2400	55100	48.0 x 48.0 x 48.0	324-92
327-92	1987	327-92	5550	2400	55600	48.0 x 48.0 x 48.0	327-92
330-92	1987	330-92	5600	2400	56100	48.0 x 48.0 x 48.0	330-92
333-92	1987	333-92	5650	2400	56600	48.0 x 48.0 x 48.0	333-92
336-92	1987	336-92	5700	2400	57100	48.0 x 48.0 x 48.0	336-92
339-92	1987	339-92	5750	2400	57600	48.0 x 48.0 x 48.0	339-92
342-92	1987	342-92	5800	2400	58100	48.0 x 48.0 x 48.0	342-92
345-92	1987	345-92	5850	2400	58600	48.0 x 48.0 x 48.0	345-92
348-92	1987	348-92	5900	2400	59100	48.0 x 48.0 x 48.0	348-92
351-92	1987	351-92	5950	2400	59600	48.0 x 48.0 x 48.0	351-92
354-92	1987	354-92	6000	2400	60100	48.0 x 48.0 x 48.0	354-92
357-92	1987	357-92	6050	2400	60600	48.0 x 48.0 x 48.0	357-92
360-92	1987	360-92	6100	2400	61100	48.0 x 48.0 x 48.0	360-92
363-92	1987	363-92	6150	2400	61600	48.0 x 48.0 x 48.0	363-92
366-92	1987	366-92	6200	2400	62100	48.0 x 48.0 x 48.0	366-92
369-92	1987	369-92	6250	2400	62600	48.0 x 48.0 x 48.0	369-92
372-92	1987	372-92	6300	2400	63100	48.0 x 48.0 x 48.0	372-92
375-92	1987	375-92	6350	2400	63600	48.0 x 48.0 x 48.0	375-92
378-92	1987	378-92	6400	2400	64100		

Detroit Diesel 71 Series Engines

DETROIT DIESEL, INC.

Original Turn-Up 14

1986 CERTIFIED AUTOMOTIVE ENGINES

Model	Displacement (cu in.)	Net HP*	Net kW*	Peak Torque (lb-ft)	Peak kW*	Net Torque (lb-ft)	Net kW*	Net Torque (kg-m)	Net Torque (kg-m)	Compression Ratio	Oil Capacity (L)	Weight (kg)	B/E
5011A	1100-91	100	73.5	1.2	300	1.00	1.00	80	1.00	1.70	200	200	200
5013A (Interim)	1100-91	110	80.5	1.3	320	1.10	1.10	80	1.10	1.70	200	200	1.00
	1100-91	110	80.5	1.3	320	1.10	1.10	80	1.10	1.70	200	200	1.00
	1100-91	110	80.5	1.3	320	1.10	1.10	80	1.10	1.70	200	200	1.00
	1100-91	110	80.5	1.3	320	1.10	1.10	80	1.10	1.70	200	200	1.00
	1100-91	110	80.5	1.3	320	1.10	1.10	80	1.10	1.70	200	200	1.00
5013A (Interim)	1100	110	80.5	1.3	320	1.10	1.10	80	1.10	1.70	200	200	1.00
5013A (Interim)	1100	110	80.5	1.3	320	1.10	1.10	80	1.10	1.70	200	200	1.00
5013A (Interim)	1100	110	80.5	1.3	320	1.10	1.10	80	1.10	1.70	200	200	1.00
5013A (Interim)	1100	110	80.5	1.3	320	1.10	1.10	80	1.10	1.70	200	200	1.00
5013A (Interim)	1100	110	80.5	1.3	320	1.10	1.10	80	1.10	1.70	200	200	1.00

NOTES:

1. Performance based on SAE standards.
2. Engine displacement, torque and speed at 1500 RPM conditions.
3. Compression ratio is 16.5:1.

4. Oil capacity at 1500 RPM.
5. Oil capacity at 1500 RPM.
6. Oil capacity at 1500 RPM.

1987 CERTIFIED AUTOMOTIVE ENGINES

Model	Displacement (cu in.)	Net HP*	Net kW*	Peak Torque (lb-ft)	Peak kW*	Net Torque (lb-ft)	Net kW*	Net Torque (kg-m)	Net Torque (kg-m)	Compression Ratio	Oil Capacity (L)	Weight (kg)	B/E
5011A	1100-91	100	73.5	1.2	300	1.00	1.00	80	1.00	1.70	200	200	200
5013A (Interim)	1100-91	110	80.5	1.3	320	1.10	1.10	80	1.10	1.70	200	200	1.00
	1100-91	110	80.5	1.3	320	1.10	1.10	80	1.10	1.70	200	200	1.00
	1100-91	110	80.5	1.3	320	1.10	1.10	80	1.10	1.70	200	200	1.00
	1100-91	110	80.5	1.3	320	1.10	1.10	80	1.10	1.70	200	200	1.00
	1100-91	110	80.5	1.3	320	1.10	1.10	80	1.10	1.70	200	200	1.00
5013A	1100	110	80.5	1.3	320	1.10	1.10	80	1.10	1.70	200	200	1.00

NOTES:

1. Performance based on SAE standards.
2. Engine displacement, torque and speed at 1500 RPM conditions.
3. Compression ratio is 16.5:1.

4. Oil capacity at 1500 RPM.
5. Oil capacity at 1500 RPM.
6. Oil capacity at 1500 RPM.

Detroit Diesel 71 Series Engines

14 Engine Features

DETROIT DIESEL 107

Truck Models

Model	Model Description	Model Description	Model Description	Model Description	Model Description	Model Description	Model Description	Model Description	Model Description	Model Description	Model Description	Model Description	Model Description
71-1000	1	1000000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
71-1000 (2000)	2	1000000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
71-1000 (3000)	3	1000000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
71-1000 (4000)	4	1000000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
71-1000 (5000)	5	1000000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
71-1000 (6000)	6	1000000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
71-1000 (7000)	7	1000000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
71-1000 (8000)	8	1000000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
71-1000 (9000)	9	1000000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
71-1000 (10000)	10	1000000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

Coach Models

Model	Model Description	Model Description	Model Description	Model Description	Model Description	Model Description	Model Description	Model Description	Model Description	Model Description	Model Description	Model Description	Model Description
71-1000 (Coach)	1	1000000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
71-1000 (Coach 2000)	2	1000000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
71-1000 (Coach 3000)	3	1000000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
71-1000 (Coach 4000)	4	1000000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
71-1000 (Coach 5000)	5	1000000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
71-1000 (Coach 6000)	6	1000000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
71-1000 (Coach 7000)	7	1000000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
71-1000 (Coach 8000)	8	1000000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
71-1000 (Coach 9000)	9	1000000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
71-1000 (Coach 10000)	10	1000000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

DETROIT DIESEL

DETROIT DIESEL

DETROIT DIESEL

DETROIT DIESEL

DETROIT DIESEL

DETROIT DIESEL

1999 CERTIFIED AUTOMOTIVE ENGINEERS

Activity (Description)	2000-2001	2001-2002
Programs (1)	1000	1000
Programs (2)	1000	1000
Programs (3)	1000	1000
Programs (4)	1000	1000
Programs (5)	1000	1000
Programs (6)	1000	1000
Programs (7)	1000	1000
Programs (8)	1000	1000
Programs (9)	1000	1000
Programs (10)	1000	1000
Programs (11)	1000	1000
Programs (12)	1000	1000
Programs (13)	1000	1000
Programs (14)	1000	1000
Programs (15)	1000	1000
Programs (16)	1000	1000
Programs (17)	1000	1000
Programs (18)	1000	1000
Programs (19)	1000	1000
Programs (20)	1000	1000
Programs (21)	1000	1000
Programs (22)	1000	1000
Programs (23)	1000	1000
Programs (24)	1000	1000
Programs (25)	1000	1000
Programs (26)	1000	1000
Programs (27)	1000	1000
Programs (28)	1000	1000
Programs (29)	1000	1000
Programs (30)	1000	1000
Programs (31)	1000	1000
Programs (32)	1000	1000
Programs (33)	1000	1000
Programs (34)	1000	1000
Programs (35)	1000	1000
Programs (36)	1000	1000
Programs (37)	1000	1000
Programs (38)	1000	1000
Programs (39)	1000	1000
Programs (40)	1000	1000
Programs (41)	1000	1000
Programs (42)	1000	1000
Programs (43)	1000	1000
Programs (44)	1000	1000
Programs (45)	1000	1000
Programs (46)	1000	1000
Programs (47)	1000	1000
Programs (48)	1000	1000
Programs (49)	1000	1000
Programs (50)	1000	1000
Programs (51)	1000	1000
Programs (52)	1000	1000
Programs (53)	1000	1000
Programs (54)	1000	1000
Programs (55)	1000	1000
Programs (56)	1000	1000
Programs (57)	1000	1000
Programs (58)	1000	1000
Programs (59)	1000	1000
Programs (60)	1000	1000
Programs (61)	1000	1000
Programs (62)	1000	1000
Programs (63)	1000	1000
Programs (64)	1000	1000
Programs (65)	1000	1000
Programs (66)	1000	1000
Programs (67)	1000	1000
Programs (68)	1000	1000
Programs (69)	1000	1000
Programs (70)	1000	1000
Programs (71)	1000	1000
Programs (72)	1000	1000
Programs (73)	1000	1000
Programs (74)	1000	1000
Programs (75)	1000	1000
Programs (76)	1000	1000
Programs (77)	1000	1000
Programs (78)	1000	1000
Programs (79)	1000	1000
Programs (80)	1000	1000
Programs (81)	1000	1000
Programs (82)	1000	1000
Programs (83)	1000	1000
Programs (84)	1000	1000
Programs (85)	1000	1000
Programs (86)	1000	1000
Programs (87)	1000	1000
Programs (88)	1000	1000
Programs (89)	1000	1000
Programs (90)	1000	1000
Programs (91)	1000	1000
Programs (92)	1000	1000
Programs (93)	1000	1000
Programs (94)	1000	1000
Programs (95)	1000	1000
Programs (96)	1000	1000
Programs (97)	1000	1000
Programs (98)	1000	1000
Programs (99)	1000	1000
Programs (100)	1000	1000

[illegible]

Abstract: January 1, 1995, California suffered the worst of several weather systems in 1994. Heavy rains and a high-pressure system caused flooding and mudslides in the Central Valley and coastal areas. The state's water resources were severely affected, and the state's economy was hit hard. The state's water resources were severely affected, and the state's economy was hit hard.

100

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Figure 1. Schematic representation of the experimental design. The subjects were divided into two groups: the control group and the experimental group. The control group was divided into two subgroups: the control group and the experimental group. The experimental group was divided into two subgroups: the control group and the experimental group.

101. *Staphylococcus aureus* (Gram Positive) is one of the most common causes of food and water-borne infections. It has acquired very well-developed defense systems.
102. *Escherichia coli* being abundant in intestines, this bacterium being, an opportunistic pathogen in water bodies.
103. *Shigella* is the causative agent of dysentery in humans. Its pathogenesis involves the release of enterotoxins and cytotoxins. (Bhatnagar, 2004)

[illegible]

TÜRKİYE GENEL DİSTRİBÜTÖRÜ

KLİTİF İNŞAAT VE MİMARLIK

MİMARLIK

Genel Müdürlük: İstanbul, Karadeniz
Yolu, No: 10, Kat: 1
İstanbul, Karadeniz Yolu, No: 10
Kat: 1, Tel: 100000



İsmail AKSOY
Genel Müdür



İsmail AKSOY
Genel Müdür



İsmail AKSOY
Genel Müdür



İsmail AKSOY
Genel Müdür



İsmail AKSOY
Genel Müdür



İsmail AKSOY
Genel Müdür



İsmail AKSOY
Genel Müdür



İsmail AKSOY
Genel Müdür



TÜRKİYE GENEL İNŞAAT VE MİMARLIK
KLİTİF İNŞAAT VE MİMARLIK

İSTANBUL - ANKARA - ÇENGELKÖY
TELEFON: 100000 - 100001 - 100002

GENERAL MOTORS SERI

53 ve 71

ENJEKTÖRLERİ

Engine	Inj.	Aspy. Part No.		Plunger Dens.	P & R Part No.	Spray Tip	Tip Part No.	12345 Calibrator Min./Max.	17041** Compressor Min./Max.	Engine Timing
		Standard Body	Offset Body							
53i	35	—	5228535*	35	5228530	8-005-165"	5228436	36-43	0-6	1.688
53	35	—	5228535*	35	5228530	8-005-165"	5228436	36-43	0-6	1.688
53	40	—	5228560*	40	5228552	8-005-165"	5228436	39-43	6-12	1.688
53	540†	—	5228580*	48	5228552	8-005-165"	5228473	43-47	8-6	1.693
53	45	—	5228530	45	5228495	8-005-165"	5228436	44-48	8-6	1.688
53	545†	—	5228580*	45	5228495	8-005-165"	5228473	48-52	6-12	1.693
53	558†	—	5228558*	55	5228126	8-005-165"	5228473	52-56	9-15	1.693
71	558	5228450	5228478	55	5228477	8-005-165"	5228473	55-59	14-20	1.693
71	558	—	5228735	55	5228528	8-005-165"	5228436	59-64	9-15	1.693
71	658	—	5228715	65	5228386	8-005-165"	5228436	63-67	12-18	1.693
71	HV6A	5228300	—	55	5228126	6-005-155"-H	5228796	52-58	8-24	1.688
71	HV6	5228318	—	64	5228386	6-005-155"-H	5228796	58-63	18-24	1.688
71	HV7	5228305	5228470	78	5228384	7-005-165"-H	5228554	71-75	38-38	1.693
71	HV8	5228110	5228435	88	5228181	7-005-165"-H	5228554	80-84	38-44	1.693
71	HV9	5228380	—	94	5228378	7-005-165"-H	5228554	87-92	46-52	1.693
71	555	—	5228321*	55	5228528	8-005-165"	5228473	55-59	14-20	1.693
71	568	—	5228322*	64	5228386	8-005-165"	5228473	59-63	18-24	1.693
71	565	—	5228366*	63	5228568	8-005-165"	5228473	64-68	24-30	1.693
71	570	—	5228323*	74	5228304	7-005-165"-H	5228554	71-75	38-38	1.693
71	W70**	—	5228649	78	5228384	8-005-165"	5228473	69-73	29-35	1.693
71	580	—	5228574*	84	5228181	7-005-165"-H	5228554	80-84	38-44	1.693
71	590	—	5228525*	98	5228543	7-005-165"-H	5228554	87-92	46-52	1.693

*Low clamp bodies—Standard on Series 53 inline and V's and All 4 valve Series 71 engines.

†Use only with low velocity camshafts on 3-63 (5126746-LR, 5126748-RR) 4-63 (5126762-LR, 5126768-RR) and 64-65 5128558-LR, 5128554-RR.

*Rear or Two Speed

**Western Electric

†Jet counter at 1700 strokes

†Jet counter at 3000 strokes except where noted

GENERAL MOTORS SERİ

53 N ve 71 N

TİPİ ENJEKTÖRLERİ

Engine	Inj.	Assm. Part No.	Plunger Desig.	P & B Part No.	Spray Tip	Tip Part No.	122413 Calibrator Min. / Max.	17041* Comparator Min. / Max.	Engine Timing
53N	L45	5228793	4L	5228679	8-.0055-165°A	5229025	41-45	4-10	1.460
53N	H40	5228763	4H	5228681	6-.006-165°A	5229034	42-46	4-10	1.460
53N	H45	5228773	$\frac{4}{5}$ N	5228684	6-.006-165°A	5229034	47-51	14-20	1.460
53N	H50	5228783	5N	5228749	6-.006-165°A	5229034	50-54	18-24	1.460
71N	71M5	5228850	5N	5228749	8-.0055-165°A	5229025	50-54	18-24	1.460
71N	H55	5228785	$\frac{6}{5}$ N	5228668	8-.0055-165°A	5229025	53-57	24-30	1.460
71N	H60	5228760	6H	5228656	8-.0055-165°A	5229026	57-61	30-36	1.460
71N	*H65	5228900	$\frac{6}{5}$ S	5228928	8-.006-165°A	5229030	64-68	32-38	1.484
71N	ⓈH70	5228770	7H	5228682	7-.006-165°	5229042*	71-75	38-44	1.460
71N	ⓈH75	5228777	$\frac{6}{5}$ N	5228658	7-.006-165°	5229042*	75-79	41-47	1.460
71N	ⓈH80	5228780	8N	5228661	7-.006-165°	5229042*	79-83	44-50	1.460

*.003 Wall Spray Tip

*Brown Tag

* Set counter at 1000 strokes

ⓈMultifuel Use Approved

GENERAL MOTORS SERİ

149

ENJEKTÖRLERİ

Inj.	Assy. Part No.	Rack Part No.	Spray Tip	Tip Part No.	J22410 Calibrator Min./Max.	Engine Timing
120	5228955	5228974	7-010-160°	5229032	118-126	2.175
130	5228880	5228975	7-010-160°	5229032	138-146	2.175
140	5229020	5229019	7-010-160°	5229032	150-158	2.175
150	5228965	5228976	7-010-160°	5229032	168-176	2.175

GENERAL MOTORS ENJEKTÖR

AYAR MASTARLARI

TIMING GAUGES

Series 53 & 71

J-1853 For 1.460"

J-1242 For 1.484"

J-8909 For 1.508"

J-9595 For 1.496"—Military-Turbo

Series 149

J-22412 For 2.175

Series 110

J-4184 For 2.425"

J-7186 For 2.710"

GENERAL MOTORS SERİ

110

ENJEKTÖRLERİ

Engine	Inj.	Part No.	Plunger Designation	P & B Part No.	Spray Tip	Tip Part No.	Min.-Max. [®]	Engine Timing
110 (2 Valve)	80	5228355	† 8	5228119	7-007-145°	5228353	46-54	2.425
110 (2 Valve)	90	5228350	† 9	5228342	7-007-145°	5228353	58-66	2.425
110 (2 Valve)	110	5228335	†11	5228336	7-007-145°	5228353	84-92	2.425
110 (2 Valve)	130	5228483	†13	5228007	7-007-145°	5228353	102-110	2.425
110 (4 Valve)	90	5228484	** 9T	5228488	7-007-145°	5228353	50-58	2.710
110 (4 Valve)	100	5228472	**10T	5228444	7-007-145°	5228353	62-70	2.710
110 (4 Valve)	110	5228485	**11T	5228486	7-007-145°	5228353	78-86	2.710

**Off set body

† Standard body

[®]Set counter at 1000 strokes



**enjektör ve
enjektör parçaları
listesi**



Auf keinen Fall missen!



