

**FINAL
DRIVE**

FINAL DRIVE
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AXLE SECTION

(FINAL DRIVE)

(A.E.C. TYPE UNITS)

TYPES

F239C, F239D,
F280A, F280B,

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FINAL DRIVES CAN BE SUPPLIED AS FOLLOWS

B.R. Cat. No.	A.E.C. Basic Part No.	Description
	F239C	FINAL DRIVE COMPLETE (WITH PINION F23710 ON PAGE F.4 AND GEAR F23718 ON PAGE F.6) *
	F239D	FINAL DRIVE COMPLETE (WITH PINION F23707 ON PAGE F.4 AND GEAR F23717 ON PAGE F.6) D101/26, D101/32
		The Part Numbers listed above are now superseded by the following:—
	F280A	FINAL DRIVE COMPLETE (WITH PINION F23710 ON PAGE F.4 AND GEAR F23718 ON PAGE F.6) *
	F280B	FINAL DRIVE COMPLETE (WITH PINION F23707 ON PAGE F.4 AND GEAR F23717 ON PAGE F.6) D101/26, D101/32
		* F239C, F280A used on the following:— D101/B, 1/2, 1/3, 1/5, 1/6, 1/7, 1/11, 1/11B, 1/12, 1/13, 1/14, 1/15, 1/16, 1/17, 1/18, 1/18A, 1/20, 1/21, 1/22, 1/23, 1/24, 1/25, 1/26, 1/27, 1/30, 1/31, 1/33, 1/34, 1/38, 1/39, 1/40, 1/41, 1/44, 1/49, 1/51, 1/52, 1/54, 1/55, 1/56, 1/57

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B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Final Drive	Remarks
9/15/90050	F0255	FI	FINAL DRIVE COMPLETE	All Models	1	For Types, see page F.1
			FINAL DRIVE CASING WITH STUDS, BOLTS AND NUTS			
9/15/90081	F31514	1	Casing, Top Half	"	1	
9/15/90096	Z5/30511	2	Stud, Special, $\frac{5}{16}$ " B.S.F. \times $1\frac{1}{4}$ ", Ground	"	1	
9/15/90092	Z5/30536	3	Stud, Special, $\frac{5}{16}$ " B.S.F. \times $1\frac{1}{8}$ ", Ground	"	4	Locking Plunger
9/15/90093	Z6/30578	4	Stud, Special, $\frac{3}{8}$ " B.S.F. \times $1\frac{5}{8}$ "	"	8	Top Cover
9/15/90094	Z5/30502	5	Stud, Special, $\frac{1}{2}$ " B.S.F. \times $1\frac{7}{8}$ ", Drilled	"	6	Air Cylinder
9/15/90091	Z5/30518	6	Stud, Special, $\frac{3}{8}$ " B.S.F. \times $1\frac{1}{4}$ ", Drilled	"	16	Bevel Pinion Housing
9/15/90097	Z8/30500	7	Stud, Special, $\frac{3}{8}$ " B.S.F. \times $9\frac{3}{8}$ ", Drilled	"	8	Side Cover
9/15/90090	Z8/30528	8	Stud, Special, $\frac{1}{2}$ " B.S.F. \times $2\frac{3}{16}$ ", Drilled	"	4	Casing
9/15/90080	F31513	9	Casing, Bottom Half	"	6	Bevel Wheel Cover
9/15/90083	155-129	10	Dowel	"	1	
9/15/90076	Z7/30787	11	Bolt, Special, $\frac{1}{2}$ " B.S.F. \times $2\frac{1}{8}$ ", Drilled	"	2	
	86-36	12	Nut, Slotted, $\frac{1}{2}$ " B.S.F.	"	6	
	100-9	13	Split Pin, $\frac{3}{32}$ " \times $1\frac{1}{8}$ "	"	6	
	43-95		Bolt, $\frac{1}{2}$ " B.S.F. \times $1\frac{1}{2}$ "	"	6	
	135-36		Washer, Grover, $\frac{1}{2}$ "	"	6	
9/15/90168	Z6/30579	50	Stud, Special, $\frac{3}{8}$ " B.S.F. \times $3\frac{3}{4}$ "	"	6	
9/15/90174	Z5/30534	52	Stud, Special, $\frac{3}{8}$ " B.S.F. \times $2\frac{3}{16}$ ", Drilled	"	8	
9/15/90085	F21421	14	Joint...	"	8	Primary } Pinion Reverse } Housing
9/15/90183	F31614	15	Plunger, Locking	"	2	Top to Bottom Casing
9/15/90123	F31615	16	Handle	"	1	
9/15/90233	Z3/45467	17	Spring	"	1	
9/15/90122	F31616	18	Guide	"	1	
9/15/90138	Z44236	19	Joint	"	1	
	86-33	20	Nut, Slotted, $\frac{5}{16}$ " B.S.F.	"	1	Locking Plunger
9/15/90103	F18502	21	Split Pin, $\frac{5}{64}$ " \times $\frac{3}{4}$ "	"	4	
9/15/90133	Z44237	22	Cover, Top	"	4	
	86-33	23	Joint	"	1	
	134-3	24	Nut, Slotted, $\frac{5}{16}$ " B.S.F.	"	1	
	219-25	25	Washer, Plain, $\frac{5}{16}$ "	"	8	Top Cover
9/15/90065	F6212	26	Wire, Locking, Iron, 16 S.W.G.	"	8	
9/15/90063	Z1/30636	27	BREATHER TUBE COMPLETE		As Req.	
9/15/90064	F51301	28	Plate	"	1	
9/15/90070	255-50	29	Screw, Special	"	1	Breather Tube
9/15/90282	F3951		Washer, Leather, $\frac{3}{32}$ " \times $1\frac{1}{4}$ " \times $\frac{3}{32}$ ", Special	"	1	
9/15/90102	F18309	30	SIDE COVER COMPLETE			
9/15/90238	F53719		Cover, Side	"	1	
9/15/90239	114-10		Plate Cover	"	1	
9/15/90240	125-102		Rivet, Mild Steel, Snap Hd., $\frac{1}{4}$ " \times $\frac{3}{4}$ "	"	1	
	97-32		Stud, $\frac{1}{4}$ " B.S.F. \times $1\frac{1}{4}$ ", Special	"	1	
	134-2		Wing Nut, $\frac{1}{4}$ " B.S.F.	"	1	
9/15/90131	Z44239	31	Washer, Plain, $\frac{1}{4}$ "	"	1	
	86-34	32	Joint	"	1	
	100-9	33	Nut, Slotted, $\frac{3}{8}$ " B.S.F.	"	1	
9/15/90115	A1/2553	37	Split Pin, $\frac{3}{32}$ " \times $1\frac{1}{4}$ "	"	8	Side Cover
9/15/90061	F31601	34	DIPSTICK COMPLETE			
	Z8/30605		Boss, Dipstick	"	1	
	85-155		Washer, Tab, $\frac{23}{64}$ " I/D. 18 S.W.G.	"	1	
			Nut, $\frac{7}{16}$ " B.S.F., Plain	"	As Req.	

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Final Drive	Remarks
		FI	FINAL DRIVE—Continued			
9/15/90154	FA0607		PRIMARY BEVEL PINION COMPLETE ...	All Models	1	
9/15/90161	FI1829	38	Bevel Pinion, Primary ...	"	1	
9/15/90241	FA0601		HOUSING COMPLETE WITH BEARING ...	"	1	
9/15/90127	FI6549	39	Housing ...	"	1	Not supplied as Spares
9/15/90155	248-56	41	Bearing, Taper Roller, Special ...	"	1	
9/15/90156	248-57	42	Bearing, Taper Roller, Special ...	"	1	Inner
9/15/90160	FI9317	43	Distance Piece ...	"	1	Outer
9/15/90162	Z2/46556A	44	Shim, 19 S.W.G. ...	As Req.	1	Primary Bevel Pinion Bearing
9/15/90163	Z2/46556B		Shim, 20 S.W.G. ...			
9/15/90164	Z2/46556C		Shim, 27 S.W.G. ...			
9/15/90165	Z2/46556D	44	Shim, 40 S.W.G. ...	"	1	Pinion
9/15/90159	FI8027	45	Locknut, Special ...	"	1	
9/15/90187	FI8203	46	Screw, Lock, Special ...	"	2	Pinion Locknut
	86-33	47	Nut, Slotted, $\frac{5}{16}$ " B.S.F. ...	"	2	
9/15/90234	138-146	46	Washer, Copper, $\frac{21}{64}$ " x 12 m/m. Sq. x 1.5 m/m. Special ...	"	4	
	135-33	48	Washer, Grover, $\frac{5}{16}$ " ...	"	2	Pinion Locknut
	100-7	49	Split Pin, $\frac{5}{64}$ " x $\frac{3}{4}$ " ...	"	2	
9/15/90170	FA0605		REVERSE BEVEL PINION COMPLETE ...	F239	1	Pinion
9/15/90242	FA0616		REVERSE BEVEL PINION COMPLETE ...	F280	1	
9/15/90172	FI1830	51	Bevel Pinion, Reverse ...	F239	1	Pinion
9/15/90243	FI1843		Bevel Pinion, Reverse ...	F280	1	
	99-159			Circlip, Seeger $2\frac{1}{4}$ " G.P. dia. ...	"	
9/15/90241	FA0601		HOUSING COMPLETE WITH BEARING ...			
				All Models	1	
9/15/90127	FI6549	39	Housing ...	"	1	Not supplied as Spares
9/15/90155	248-56	41	Bearing, Taper Roller, Special ...	"	1	
9/15/90156	248-57	42	Bearing, Taper Roller, Special ...	"	1	Inner
9/15/90160	FI9317	43	Distance Piece ...	"	1	Outer
9/15/90162	Z2/46556A	44	Shim, 19 S.W.G. ...	As Req.	1	Reverse Bevel Pinion Bearing
9/15/90163	Z2/46556B		Shim, 20 S.W.G. ...			
9/15/90164	Z2/46556C		Shim, 27 S.W.G. ...			
9/15/90165	Z2/46556D	44	Shim, 40 S.W.G. ...	"	1	Pinion
9/15/90159	FI8027	45	Locknut, Special ...	"	1	
9/15/90187	FI8203	46	Screw, Lock, Special ...	"	2	Pinion Locknut
	86-33	47	Nut, Slotted, $\frac{5}{16}$ " B.S.F. ...	"	2	
9/15/90234	138-146	46	Washer, Copper, $\frac{21}{64}$ " x 12 m/m. Sq. x 1.5 m/m. Special ...	"	4	
	135-33	48	Washer, Grover, $\frac{5}{16}$ " ...	"	2	Pinion Locknut
	100-7	49	Split Pin, $\frac{5}{64}$ " x $\frac{3}{4}$ " ...	"	2	
9/15/90195	Z2/46557A	40	Shim, 23 S.W.G. ...	As Req.	1	Bevel Pinion Housing
9/15/90196	Z2/46557B		Shim, 30 S.W.G. ...			
9/15/90197	Z2/46557C		Shim, 39 S.W.G. ...			
	86-34	53	Nut, Slotted, $\frac{3}{8}$ " B.S.F. ...	"	16	Bevel Pinion Housing
	100-10	54	Split Pin, $\frac{3}{32}$ " x $\frac{7}{8}$ " ...	"	16	

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Final Drive	Remarks
		FI	FINAL DRIVE—Continued	All Models		
9/15/90189	FI15238	55	Shaft, Driving	F239	1	Driving Shaft (Bearing "OOO" Fit)
9/15/90244	FI15249		Shaft, Driving	F280		
9/15/90245	Z3/32092		Nut, Special, $\frac{7}{8}$ " B.S.F.	All Models		
	100-14		Split Pin, $\frac{1}{8}$ " \times $1\frac{1}{2}$ "	"		
9/15/99039	81-312		Lubricator, Tecalemit, No. 4657, $\frac{3}{8}$ " B.S.F.	"		
9/43/5420	5-14	56	Bearing, Ball, Hoffmann No. 16M.S., R. & M.			
			M.J. $2\frac{1}{4}$"	"		
9/15/90126	FI6548	57	Housing	"		Bearing Housing
9/15/90129	Z44231	58	Joint	"		
9/15/90188	5091-72	59	Oil Seal, $3\frac{1}{4}$" \times $4\frac{1}{2}$" \times $\frac{5}{8}$" Wide	F239	2	Driving Shaft
9/15/90246	5091-136		Oil Seal, Super C.S. 9648	F280		
9/15/90125	FI6573		Housing, Oil Seal	All Models		
9/15/90135	Z44230	60	Joint	"		Oil Seal
9/15/90120	K22989	61	Flange, Coupling	"		
9/15/90203	FI1319	62	Sleeve	"		Coupling Flange
9/15/90141	Z3/32006	63	Nut, Special, $1\frac{1}{4}$ " Slotted	"		
	100-26	64	Split Pin, $\frac{3}{16}$ " \times 3 "	"		
9/15/90100	FI6633	65	End Cover	"		End Cover Bevel Pinion Housing and Bevel Wheel Cover
9/15/90129	Z44231	66	Joint	"		
	86-36	67	Nut, Slotted, $\frac{1}{2}$ " B.S.F.	"	22	
	100-9	68	Split Pin, $\frac{3}{32}$ " \times $1\frac{1}{4}$ "	"	22	
9/15/90118	D19244	69	Dog Sliding	"		
9/43/34560	15-59	70	Bearing, Roller, Hoffmann No. R.M.9P.	F239		("OOO" Fit)
9/43/33476	15-106	71	Bearing, Roller, Hoffmann No. L.512 SV3M	F280		
9/15/90147	Z9/44813		Distance Piece, 0-562 $\frac{1}{2}$ "	F239		Spigot Bearing
9/15/90148	Z9/44815		Distance Piece, 0-542 $\frac{1}{2}$ "	"		
9/15/90149	Z9/44816		Distance Piece, 0-522 $\frac{1}{2}$ "	"		
9/15/90150	Z9/44828		Distance Piece, 0-582 $\frac{1}{2}$ "	"		
9/15/90151	Z9/44829		Distance Piece, 0-602 $\frac{1}{2}$ "	"		
9/15/90248	Z9/44854		Distance Piece, 0-491"	"		
9/15/90249	Z10/44809		Distance Piece	F280		
9/15/90218	F8803	72	BEVEL WHEEL AND SHAFT COMPLETE	All Models		Bevel Wheel and Shaft (Bearings "OOO" Fit)
9/43/32776	15-61	73	Bearing, Roller, Hoffmann No. RL21LL	"		
	99-25	74	Circlip, Seeger, Special	"		
9/15/90176	F23710	75	Pinion, 27T	F239C, F280A		
9/15/90250	F23707		Pinion, 24T	F239D, F280B		
9/15/90140	Z1/43126	76	Key, Special	All Models		
9/15/90152	Z7/44860	77	Distance Piece	"		
9/43/33607	17-19	78	Bearing, Roller, Hoffmann No. RMS16, R. & M.			
			MRJ$2\frac{1}{4}$"	"		
9/43/1949	6-112	79	Bearing, Ball, Hoffmann No. MI6 C.D.			
			Location	"		
9/15/90143	Z2/31941	80	Nut, Special, $1\frac{3}{8}$ " Slotted, 16T.P.I.	"		
	100-46	81	Split Pin, $\frac{7}{32}$ " \times $2\frac{1}{2}$ "	"		

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Final Drive	Remarks
		FI	FINAL DRIVE—Continued	All Models		
9/15/90124	F16554	82	Housing, Bearing	"	1	} Bearing Housing
9/15/90201	Z3/46508	} 83	Shim, 0.005"	"	} As req.	
9/15/90200	Z3/46509		Shim, 30 S.W.G.	"		
9/15/90202	Z3/46551		Shim, 18 S.W.G.	"		
9/15/90136	Z44240	84	Joint	"	1	} Reverse
9/15/90071	F16634	85	Cap	"	1	
9/15/90121	F31647	86	Fork, Striking	"	1	} Striking Fork
90060	Z7/30791	87	Bolt, Special, 1/2" B.S.F. x 2 1/2", Drilled	"	2	
	86-36	} 88	Nut, Slotted, 1/2" B.S.F.	"	2	
	134-6		Washer, Plain, 1/2"	"	2	
	100-9	89	Split Pin, 3/32" x 1 1/4"	"	2	} Piston
9/15/90180	F31633	90	Plate, Locking	"	1	
9/15/90179	G33707	91	Piston Air Cylinder	"	2	} Piston
9/15/90237	G33708		Piston Head	"	2	
9/15/90190	F31619	92	Shaft	"	2	} Piston
9/15/90230	5091-122	93	Oil Seal, Gaco, DE237175	"	4	
	86-36	95	Nut, Slotted, 1/2" B.S.F.	"	2	
	100-12	96	Split Pin, 3/32" x 1 1/8"	"	2	
9/15/90105	F31641	97	Air, Cylinder	"	2	} Air Cylinder Adaptor
9/15/90106	F31638	98	Adaptor	"	2	
9/15/90231	Z4/46553		Shim, 0.010"	"	} As req.	
9/15/90232	Z4/46554		Shim, 0.030"	"		
9/15/90109	Z44229	100	Joint	"	2	} Air Cylinder to Casing
9/15/90C42	G25101	} 101	Banjo	"	2	
9/15/90112	F31639		Pin, Banjo	"	2	} Air Connection
9/15/90113	138-154	102	Washer, Copper, 18 x 35 x 2 m/m., Special	"	2	
9/15/90114	138-220	103	Washer, Copper, 24 x 32 x 2 m/m., Special	"	2	} Banjo Pin
	86-34	104	Nut, Slotted, 3/8" B.S.F.	"	6	
	100-10	105	Split Pin, 3/32" x 7/8"	"	6	} Air Cylinder
9/15/90208	F3950	106	OIL TROUGH COMPLETE	"	1	
9/15/90205	F31623	107	Joint	"	1	} Trough to Casing
9/15/90206	Z14/30776	108	Screw, Special	"	3	
	134-2	109	Washer, Plain, 1/4"	"	3	
	219-25	110	Wire, Locking, Iron, 16 S.W.G.	"	As req.	
9/15/84000	FA0903		DIRECTION INDICATOR COMPLETE	"	1	} Indicator to Casing
9/15/90133	Z44237		Joint	"	1	
	121-114		Set Screw, 5/16" B.S.F. x 3/4"	"	8	} Filler and Drain
	135-33		Washer, Grover, 5/16"	"	8	
9/15/90181	Z44512	35	Plug, Special	"	2	} Filler and Drain
9/15/90216	F10506	36	Washer, Special	"	2	
9/15/90253	341-252		Plate, Unit No.	"	1	} Casing
9/15/94057	341-168		Drive Screw, Parker Kalon, No. 10 x 3/8"	"	2	
	86-39		Nut, Slotted, 3/4" B.S.F.	"	4	
	100-19		Split Pin, 5/32" x 2"	"	4	

B.R. Cat. No.	A.E.C. Basic Part No.	Plate Ref.	Designation	Used on	No. Req. per Final Drive	Remarks
		FI	FINAL DRIVE FITTINGS ...	All Models		
9/15/90255	5091-115		Oil Seal, Walker No. 54097A	"	4	} Oil Seal
9/15/90256	F16836		Retainer	"	4 halves	
9/15/90257	F16837		Housing	"	2 halves	
9/15/90258	Z44238		Joint	"	1	} Axle Shaft
9/15/90259	Z9/30754	119	Bolt, Special, $\frac{7}{16}$ " B.S.F. x 2", Drilled	"	2	
	86-35	120	Nut, Slotted, $\frac{7}{16}$ " B.S.F. ...	"	2	
	100-9	121	Split Pin, $\frac{3}{32}$ " x $1\frac{1}{2}$ "	"	2	
9/15/90260	Z16/30774	123	Bolt, Special, $\frac{7}{16}$ " B.S.F. x $2\frac{3}{8}$ ", Drilled ...	"	8	
	135-35	124	Washer, Grover, $\frac{7}{16}$ "	"	8	
	219-25	125	Wire, Locking, Iron, 16 S.W.G.	"	As req.	} Retainer to Casing
9/15/90261	Z15/30730		Bolt, Special, $\frac{7}{16}$ " B.S.F. x $\frac{7}{8}$ ", Drilled Head	"	16	
	135-5		Washer, Thackray, $\frac{7}{16}$ "	"	16	
	219-25		Wire, Locking, Iron, 16 S.W.G.	"	As req.	
			AXLE SHAFT FITTINGS ...			
9/43/30900	15-94	} 126	Bearing, Roller, Hoffmann No. RXL3 $\frac{1}{2}$ L	"	1	} Inner—Alternatives, "OOO" Fit
9/43/30969	15-102		Bearing, Roller, R. & M. No. XLRJA6 $\frac{1}{2}$ E	"	1	
9/15/90262	F16561	127	Housing	"	1	} Alternatives, "OOO" Fit
9/43/3545	6-113	} 130	Bearing, Ball, Hoffmann No. XLS6 $\frac{1}{2}$	"	1	
9/43/3545	6-124		Bearing, Ball, R. & M. No. XLJ6 $\frac{1}{2}$ E	"	1	
9/43/30730	15-60	} 131	Bearing, Roller, Hoffmann No. RXL36 $\frac{1}{2}$	"	1	} Alternatives, "OOO" Fit
9/43/30730	15-101		Bearing, Roller, R. & M. No. XLRJ6 $\frac{1}{2}$ E	"	1	
9/15/90033	F16553	132	Housing	"	1	} Torque Rod Side
9/15/90263	F30709	133	Retainer	"	1	
9/15/90264	F31613	134	Clamp, Axle Shaft Bearings	"	1	
9/15/90265	Z16/30775	135	Bolt, Special, $\frac{7}{16}$ " B.S.F. x $3\frac{3}{8}$ ", Drilled ...	"	2	
9/15/90235	86-65	136	Nut, Slotted, $\frac{7}{16}$ " B.S.F., H.T.	"	2	
	100-9	137	Split Pin, $\frac{3}{32}$ " x $1\frac{1}{2}$ "	"	2	
9/15/90268	F23718	} 138	Gear, 49T	F239C, F280A	1	} Alternatives, "OOO" Fit
9/15/90266	F23717		Gear, 52T	F239D, F280B	1	
9/15/90269	F1769	140	TORQUE ARM AND BOSS COMPLETE	Not DTO1/6, 1/22, 1/51	1	} Alternatives, "OOO" Fit
9/15/90270	F1770		TORQUE ARM AND BOSS COMPLETE	DTO1/6, 1/22, 1/51	1	
9/15/90271	Z4/10216		Bush	F1769, F1770	1	
9/15/90272	Z33493	141	Link	All Models	1	
9/15/90254	Z2/47009	} 142	Pin, Special	"	1	} Alternatives, "OOO" Fit
9/15/90273	Z3/32099		Nut, Special	"	1	
	100-17	144	Split Pin, $\frac{3}{32}$ " x $1\frac{1}{2}$ "	"	1	
9/15/90274	F30910	145	Spring, Reaction	"	2	
9/15/90275	Y9707	146	REACTION SPRING PLATE AND SHIELD COMPLETE	"	1	
9/15/90276	Y33490	147	Plate, Reaction Spring	"	1	
9/15/90277	Y33489		Shield	"	1	
9/15/90278	Y33492	148	Oil Shield ...	"	2	
9/15/90279	Z7/44861	149	Distance Piece	"	1	} Spring Reaction and Link
	86-42	150	Nut, Slotted, 1" B.S.F.	"	1	
	134-11	151	Washer, Plain, 1"	"	1	
	100-25	152	Split Pin, $\frac{3}{16}$ " x $2\frac{1}{2}$ "	"	1	
9/15/90280	Z17/30786	154	Bolt, Special, $\frac{3}{8}$ " B.S.F. x $2\frac{1}{8}$ " O.A.	"	4	
	86-39	155	Nut, Slotted, $\frac{3}{8}$ " B.S.F.	"	4	} Torque Arm to Casing
	100-19	156	Split Pin, $\frac{3}{32}$ " x 2"	"	4	
9/15/90281	499-3887		CABLE AND PLUG UNIT COMPLETE	"	1	} Direction Indicator (supplied loose)

NOTE:—Part Numbers Y33493 to 100-25 are also supplied for DTO1/28, 1/41A, 1/43, 1/45, 1/50, 1/53
 Part Numbers 499-3887 and FA0903 (page F.5) are supplied for DTO1/28

