



Fast Parts For Faster Cars

***Formula Ford 1600 ■ Club Ford 1600 ■ Ford 2000 ■ Sports 2000
4 -Cylinder Ford Powered Parts Catalog***

A word from Peter

One July afternoon in 1967 I stood at the Paddock Bend of Brands Hatch Race Track in England and watched 14 freshly painted single-seat race cars take to the track driven by a bunch of unknown drivers, hopeful I'm sure that this could be the start of a successful career as a racing driver. I felt a tingle of excitement myself and a feeling that somehow these little, affordable, cars would finally bring me into a more active role in motor racing.

That race was the first Formula Ford race ever held in the world, from which grew a legendary training ground for many modern greats in motor sport. World Champions such as James Hunt, Jody Schecter, Ayrton Senna and Emerson Fittipaldi all cut their teeth in Formula Ford. The list of famous Formula Ford "graduates" worldwide is too long to mention here, but impressive it is.

Formula Ford has now grown into other step-up formula such as Formula Ford 2000, Sports 2000 and yes, even Formula Atlantic. Since Formula Ford allowed me to become active in motor racing and because I was always helping out my fellow competitors in the USA by acquiring hard to get racing equipment from my native England, it was only natural that British American Transfer or BAT as you know us would evolve.

Throughout the years we have expanded our racing expertise beyond Formula Ford to all 4 Cylinder Ford based racing cars. This includes FF1600, Club Ford, S2000, Formula Continental, Formula Atlantic and even Production, Showroom Stock, Improved Touring, and Circle Track Ford powered race cars. With this, our forth, catalog we have tried to offer you more than just a list of parts and part numbers. You will find technical information and even valuable tips from famous engine builders as well as a comprehensive mix of hard parts, tools and accessories at prices that reflect our ability to buy in volume and direct from the manufacturer.

I am proud of my highly capable staff. You can confidently allow them to handle even your most difficult technical requirements. We not only offer you over 30 years of international racing experience - we also care.

Peter Thompson
President
BAT Inc.

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Engine

1600 OHV FF Hard Parts

	illustration	part#
FF 1600 Service Engine	1	F1A
Race Prepared FF Engine		F1AZ
FF 1600 Short Block		F1C
Race Prepared FF Short Block		F1CZ
Cylinder Block Bare	2	F2G
Race Prepared Cylinder Block		F2GZ
Freeze Plug Set		F2FP
Front Timing Cover (Recon)	3	F2H
Rear Cover (Recon)	4	F2HH
Dowel- Block to Bellhousing		F2GD
Main Cap Bolt	5	F2K
Main Cap Stud Set H.D. (10x)		F2KS
Crankshaft (forged 2002 spec.)	6	F5N
Crankshaft Sprocket	7	F5P
Crankshaft Key	8	F5O
Crankshaft Pilot Bearing		F11F
Crankshaft Pulley (tooth belt drive)		F61

Tips from the Pros

"On straight cylinder bores, meaning no more than .0003" variation from top to bottom, we use a top ring end gap of .015". We also check the land clearance at the bottom of the ring, and if it exceeds .0045" we discard that piston."

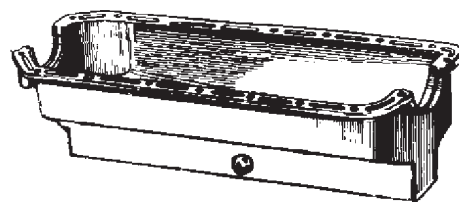
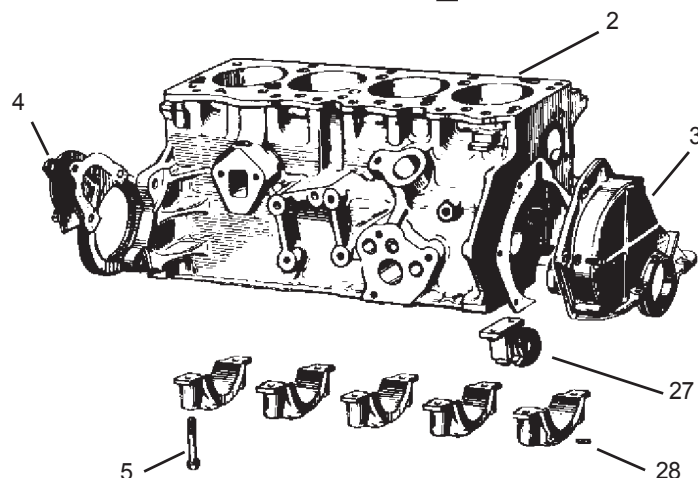
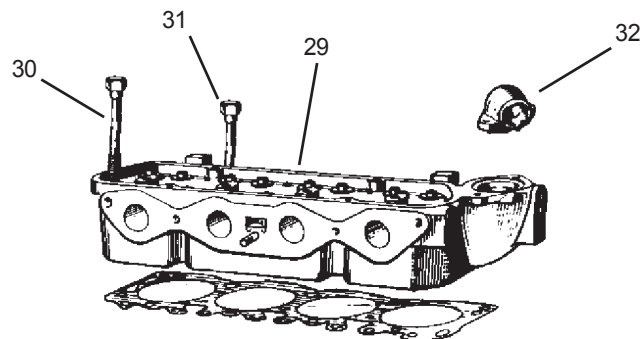
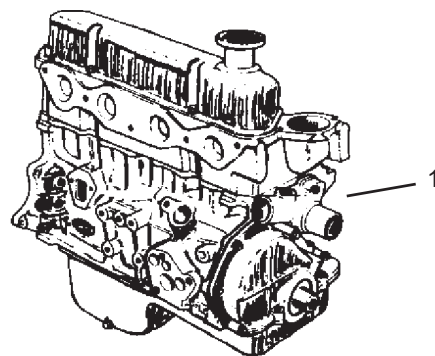
-Ted Wenz of Savannah Race Engines

Flywheel (Recon)	9	F5R
Ring Gear 110T (10.125" ID)	10	F5S
Ring Gear 110T (10.00" ID)	10	F5SA
Flywheel Bolt- H.D.	11	F5TA
Flywheel Clutch Dowel		F11G
FF Piston Std. (Hepolite) w/pin	12	F4BB
Cortina Piston +.030 w/pin	12	F4BD
FF Piston Set - Forged 2005 spec		F4BF
Ring Set Moly +.005" (file fit)	13	F4ABH
Ring Set Gapless Moly +.005" (file fit)	13	F4T.005
Top Ring Set Moly +.005"	13	F4ACH
Ring Set Cortina Std. Type +.030"	13	F4AD
Wrist Pin	14	F4C
Circlip Wrist Pin (Spirolock)	15	F4CL
Connecting Rod (Recon)	16	F4E
Connecting Rod Bolt- Standard.	17	F4F
Connecting Rod Bolt- H.D.	17	F4FA
Connecting Rod Bolt- H.D. (12 point)	17	F4FB
FF Camshaft- Blueprint on new core	18	F5A
FF Camshaft- Blueprint regrind on Ford core		F5AB
FF Camshaft Kit w/springs & followers		F5AK

Tips from the Pros "In most cases, 1600 cam timing should be 4 degrees retarded, although sometimes we use a little less."

-Arnie Loyning of Loyning's Engine Service

Cam Follower (Uprated) .516" O.D. (set 8)	19	F5B
Cam Follower Race Prep. .516" O.D. (set 8)	19	F5BR
Cam Follower (Cortina) .436" O.D. (set 8)	19	F5BA
Cam Follower Race Prep. .436" O.D. (set 8)	19	F5BAR



Product Note:

Parts specific to the Cortina engine are noted. Differences between Cortina and Uprated engine include; piston and cylinder head configurations, valve sizes, and cam follower bore diameter. Most other Uprated parts interchange. Please call if you have any further questions.

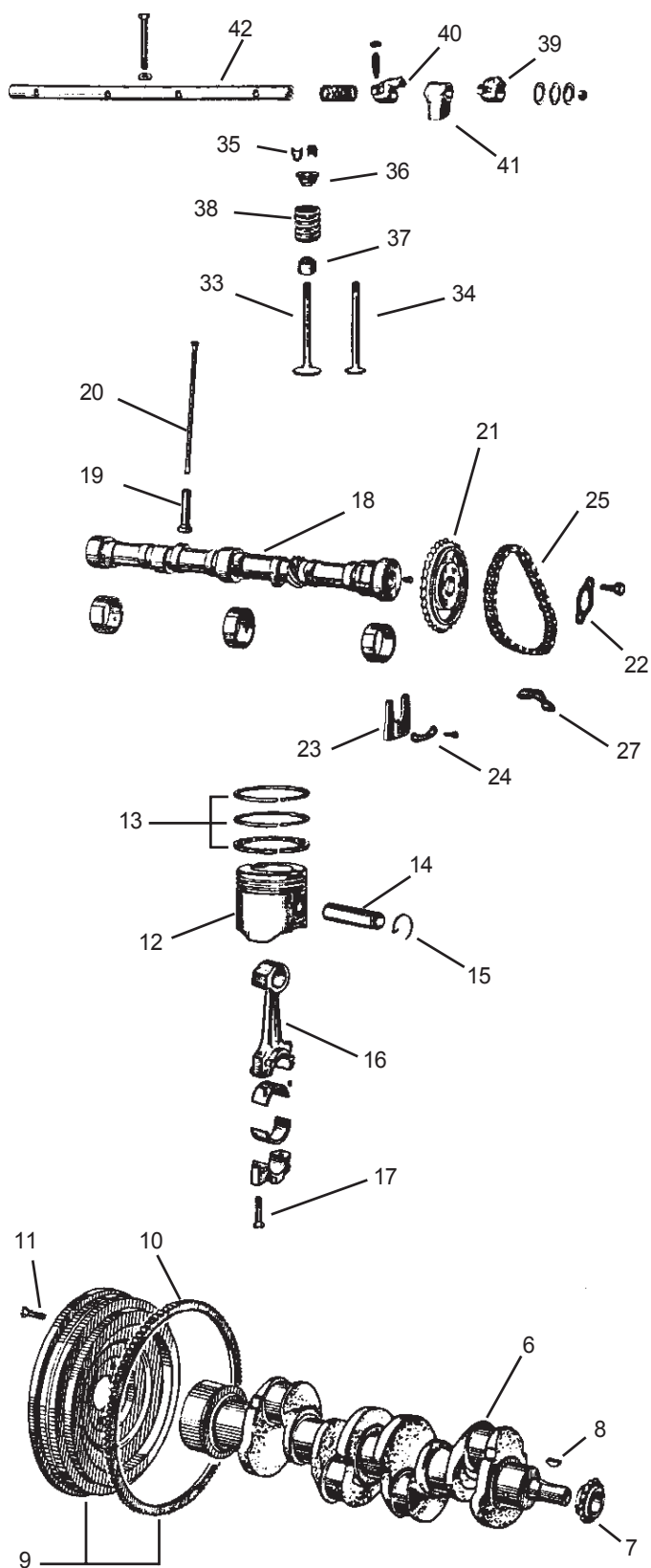


	illustration	part#
Push Rod	20	F5C
Camshaft Sprocket	21	F5F
Camshaft Lock Tab	22	F5H
Camshaft Thrust Plate	23	F5J
Thrust Plate Lock Tab	24	F5K
Dowel Camshaft Std.		F5E
Offset Dowel 1 Degree		F5EA1
Offset Dowel 2 Degree		F5EA2
Offset Dowel 3 Degree		F5EA3
Offset Dowel 4 Degree		F5EA4
Offset Dowel 5 Degree		F5EA5
Offset Dowel 6 Degree		F5EA6
Offset Dowel 7 Degree		F5EA7
Offset Dowel 8 Degree		F5EA8
Offset Dowel 9 Degree		F5EA9
Timing Chain	25	F5G
Timing Chain Tensioner	26	F2J
Timing Chain Tensioner Arm	27	F5I
Pin-Tensioner Arm	28	F2L
Cylinder Head Casting (recon)	29	F2A
Cylinder Head Casting (aluminum)		F2AL
Dowel- Clyinder Head to Block		F2O
Head Bolt Long	30	F2D
Head Bolt Short	31	F2E
H.D. Head Bolt Set		F2DS
Water Outlet	32	F2F
Water Outlet (with radiator filler on top)		F2FA
Valve Cover (steel)		F604S
Valve Intake Uprated (standard)	33	F3HAE
Valve Intake Uprated (stainless)	33	
Valve Intake Cortina	33	F3HB
Valve Exhaust Uprated (standard)	34	F31AE
Valve Exhaust Uprated (stainless)	34	
Valve Exhaust Cortina	34	F31B
Valve Lock (keeper)	35	F3D
Valve Spring Retainer	36	F3E
Valve Stem Seal	37	F3G
Race Valve Spring Set (chrome silicon)	38	F3F
Valve Spring Cup		F3FC
Race Valve Spring Set (euro type)	38	F3FE
Rocker Arm Right	39	F3C
Rocker Arm Left	40	F3B
Rocker Pedestal- (alloy 2002 spec)	41	F3P
Rocker Shaft- (2002 spec)	42	F3SHD
Rocker Arm Assembly (recon)		F3A
Intake Manifold Uprated (recon)		F8B

Product Note:

All 1600 OHV Formula Ford parts listed here are legal for SCCA FF 1600 racing.

Engine

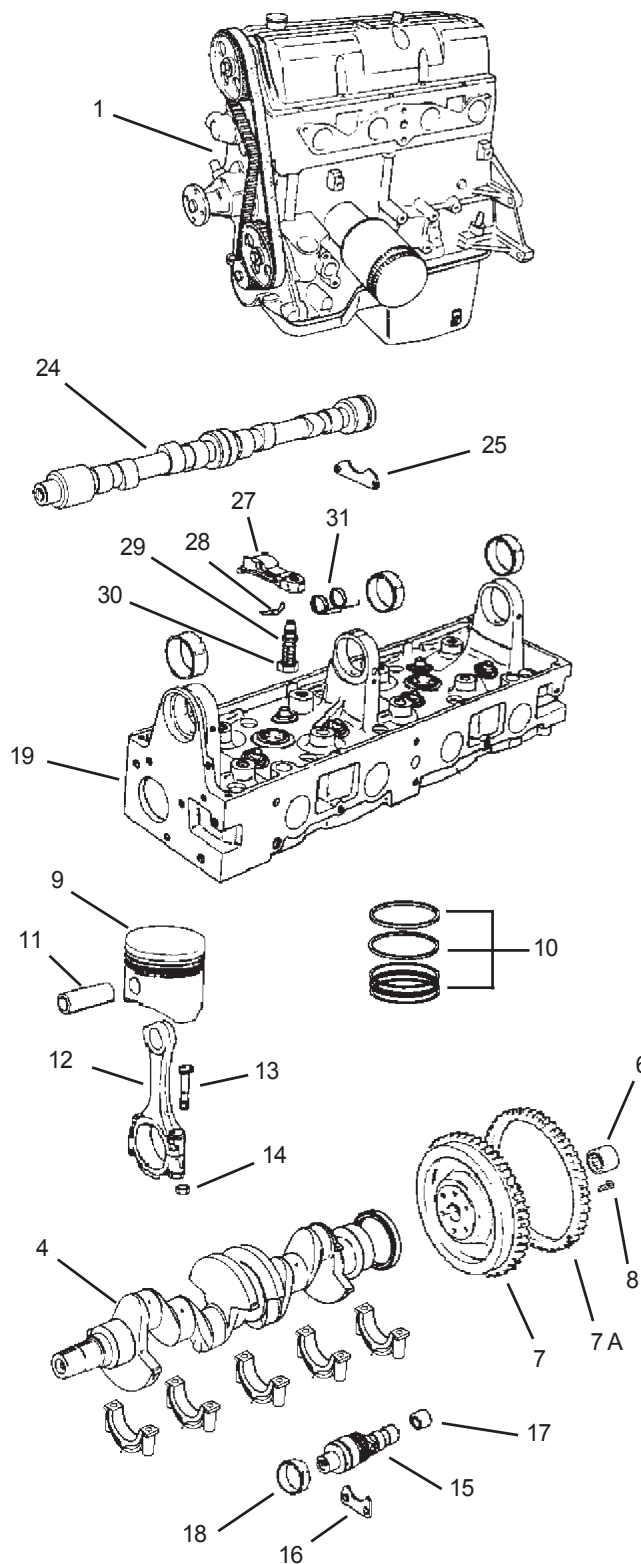
2000 OHC Hard Parts

	illustration	part#
Service Engine	1	S1B
Short Block (85 spec.)		S1C
Cylinder Block Bare (85 spec.)		S2G
Freeze Plug Set		S2FP
Front Cover Crank	2	S2H
Front Cover Aux. Shaft	3	S2HD
Bolt- Main Cap		S2K
H.D. Main Cap Stud Set		S2KS
Dowel-Block to Bellhousing		F2GD
Oil Pump- standard wet sump		S2P
Oil Pump Drive Shaft		S2PS
Fuel Pump (AC/Ford)		S10A
Fuel Pump Push Rod		S10P
Water Pump (Ford)		S6A
Water Pump (alloy)		S6AA
Crankshaft	4	S5N
Crankshaft Recon (used)		S5NU
Crank Key (long)		S50
Crank/Aux Key (short)		S50S
Sprocket- Crankshaft	5	S5P
Crankshaft Pilot Bearing	6	F11F
Pulley Crank/Oil/Water Pump- tooth belt		S61
Flywheel w/Ring Gear 130T	7	S5R
Flywheel- Used		S5RU
Flywheel Ring Gear 110T	7A	F5S
Flywheel Ring Gear 135T	7A	S5S
Flywheel Bolt	8	S5T
Flywheel Bolt Set H.D.	8	S5TS
Piston Std. 99 spec. (Ford/JE) forged	9	S4B2F
Piston Std. 85 spec. (Hepolite)	9	S4B5A
Race Ring Set Moly +.005 (file fit)	10	S4AB
Race Ring Set Moly (file fit) for S4B2F piston		S4ABF
Ring Set Moly- Top Ring Only +.005"		S4AC
Ring Set Gapless Moly +.005" (file fit)		S4T.005

Tips from the Pros

"The ideal piston to cylinder wall clearance in the 2000 engine is .005". We use moly top rings and set the end gap to .015". -Arnie Loyning of Loyning Engine Service

Wrist Pin	11	S4C
Connecting Rod (cast) <i>Fomoco</i>	12	S4E
Connecting Rod (forged) <i>Fomoco</i>	12	S4EF
Connecting Rod Set (4) (forged) <i>Crower</i>		S4ECS
Con Rod Bolt	13	S4F
Con Rod Bolt H.D.	13	S4FA
Con Rod Nut	14	S4FN
Con Rod Bolt/Nut Set H.D. (SPS type)	14	S4FS
Auxiliary Shaft	15	S5D
Thrust Plate- Aux. Shaft	16	S5JD
Bushing- Aux. Shaft	17	S5DB
Bearing- Aux. Shaft	18	S5DC
Cylinder Head 85 spec. w/valves	20	S2AE
Head Plug		S2AP
Water Outlet	21	S2F
H.D. Head Stud Set	22	S2DS
Bolt- Cyl. Head (torx 55)	22	S2DT
Valve Cover Narrow (early)	23	S604S
Valve Cover Wide (late)	23	S604SL



Product Note:

All 2000 OHC Ford parts listed here are legal for SCCA S2000/FF2000 racing.

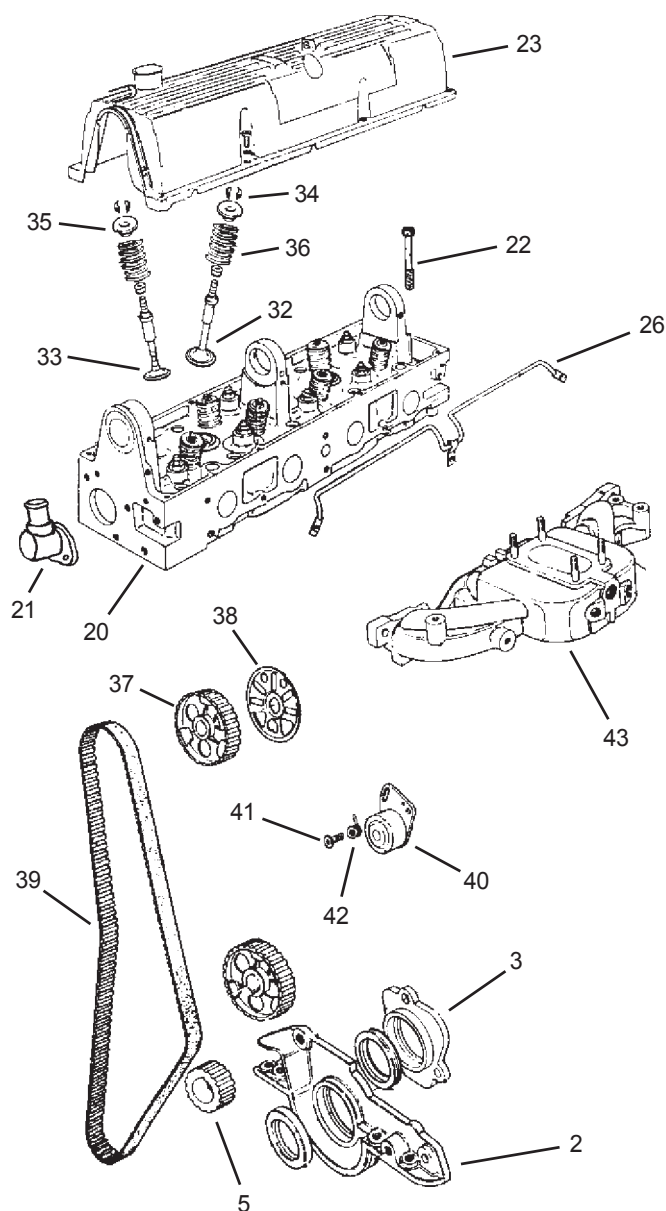


illustration part#

Camshaft- European Ford 85 Spec.	24	S5A
Camshaft- New 2010 Rules Spec	24	S5AL
Thrust Plate- Camshaft	25	S5J
Oil Spray Tube- Camshaft	26	S5ST
Cam Follower - each	27	S5B
Cam Follower - set 8	27	S5BA
Adjuster Clip	28	S5AC
Adjuster Nut	29	S5AN

Tips from the Pros

"We set the camshaft timing (2000 OHC) at 2 to 4 degrees retarded, usually ending up at 3 degrees. When removing and replacing the timing belt always mark the belt's direction of rotation." -Curtis Farley of CF Engines

Adjuster Stud	30	S5AS
Adjuster Spring H.D.	31	S5ASP
Valve Intake	32	S3HAF
Valve Exhaust	33	S31AF
Valve Lock (keeper)	34	S3D
Valve Spring Retainer	35	S3E
Race Valve Spring Set	36	S3FA
Valve Spring Cup		S3FC
Offset Cam Key 1 Degree		S5EA1
Offset Cam Key 2 Degree		S5EA2
Offset Cam Key 3 Degree		S5EA3
Offset Cam Key 4 Degree		S5EA4
Offset Cam Key 5 Degree		S5EA5
Sprocket- Camshaft / Aux. Shaft	37	S5F
Sprocket Guide Plate	38	S5FT
Cam Drive Belt	39	S5G
Cam Drive Belt H.D.	39	S5GA
Tensioner- Cam Drive Belt	40	S5I
Tensioner Bolt	41	S51B
Tensioner Spring	42	S51S
Intake Manifold	43	S8A
Intake Manifold (used)		S8AU

Competition Engine Bearings

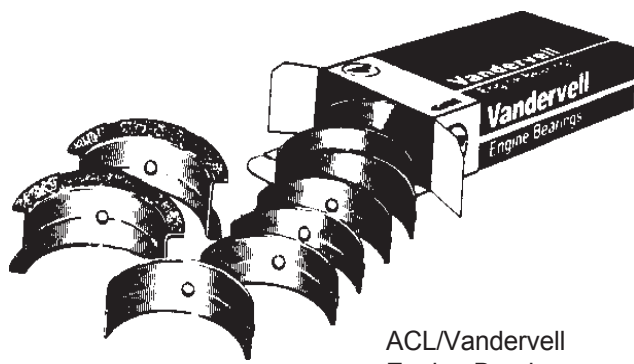
1600 OHV "Kent" Engine

Main Bearing Set STD.	F16A
Main Bearing Set +.010"	F16B10
Main Bearing Set +.020"	F16B20
Main Bearing Set +.030"	F16B30
Main Bearing Set +.040"	F16B40
Main Bearing Set +.050"	F16B50

Tips from the Pros

"We align hone all 1600 and 2000 cylinder blocks to high tolerance specification, finding that too much bearing clearance makes it difficult to hold race oil pressure. We use a maximum of .002" clearance on the mains and .0015"-.002" on the rods. This allows a low viscosity racing oil (preferably a 10W-30 synthetic) at a minimum running pressure of 35 psi on 1600 engines. 2000 ohc engines need 50 psi of oil pressure to ensure adequate cam and follower lubrication."

-Sandy Shamlian of QuickSilver Race Engines



ACL/Vandervell
Engine Bearings

1600 Engine Bearings Continued....

The following EC Main Bearings have +.0008" additional crankshaft clearance.

Main Bearing Set EC STD	F16DSD
Main Bearing Set EC +.010"	F16E10
Main Bearing Set EC +.020"	F16E20
Main Bearing Set EC +.030"	F16E30

The following EC Main Bearings are for +.015" align bored blocks and also have +.0008" additional crankshaft clearance.

Main Bearing Set EC STD/+.015" align	F16F
Main Bearing Set EC +.010"/+.015" align	F16G10
Main Bearing Set EC +.020"/+.015" align	F16G20
Main Bearing Set EC +.030"/+.015" align	F16G30

Rod Bearing Set STD.	F16H
Rod Bearing Set (<i>Special EC .002"</i>)	F16HA
Rod Bearing Set +.010"	F16I10
Rod Bearing Set +.020"	F16I20
Rod Bearing Set +.030"	F16I30
Rod Bearing Set +.040"	F16I40
Rod Bearing Set +.050"	F16I50
Thrust Washer Set STD.	F16K
Thrust Washer +.010"	F16L10
Thrust Washer +.0025"	F16L25
Thrust Washer +.005"	F16L005
Thrust Washer +.0075"	F16L75
Cam Bearing Set	F16M
Cam Bearing Set (<i>Special +.020" Back</i>)*	F16MA
* for align bored cam journals	
Small End Bushing Set (Rods)	F16N

Competition Engine Bearings**2000 OHC Engine Bearings**

Main Bearing Set STD	S16A
Main Bearing Set +.010"	S16B10
Main Bearing Set +.020"	S16B20
Main Bearing Set +.030"	S16B30

The following Main Bearings are for +.015"/.40mm align bored blocks

Main Bearing Set STD/+.015" align	S16F
Main Bearing Set +.010"/+.015" align	S16G10

Rod Bearing Set STD.	S16H
Rod Bearing Set +.010"	S16I10
Rod Bearing Set +.020"	S16I20
Rod Bearing Set +.030"	S16I30
Thrust Washer Set	S16K
Cam Bearing Set	S16M
Cam Bearing Set (<i>Special .015"=.40mm Back</i>)*	S16MA

* for align bored cam towers



Vandervell
Engine Bearings

**Condition - Oil Starvation****Bearing Appearance:**

Heavy discoloration and metal removal, often leading to seizure.

Cause:

Lack of oil leading to excessive heat generation. May be due to inadequate lubrication or improper bearing running clearances.

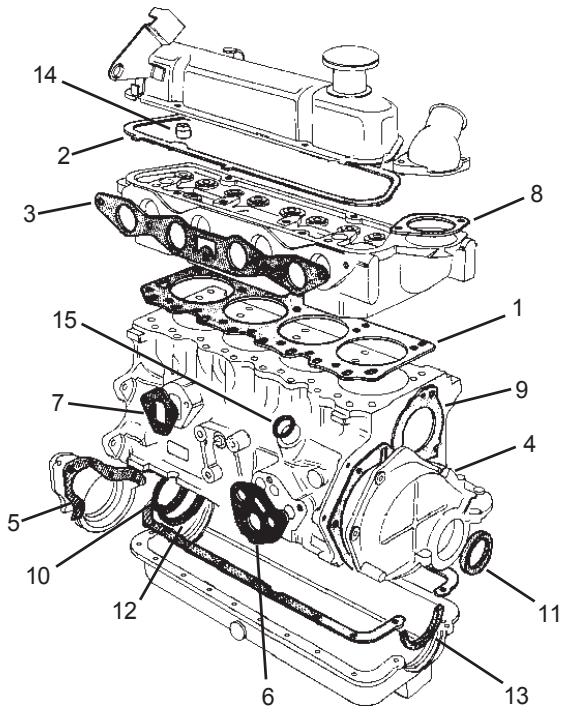
Corrective Action:

1. Regrind journal
2. Check oil pump and relief valve
3. Check oil ways for blockage
4. Check oil filter and by-pass valve
5. Check clearance if possible, otherwise check housing and journal sizes.
6. Replace with ACL/Vandervell bearings.

Product Note:

Engine bearings are strictly **ACL/Vandervell** lead-indium—simply the worlds finest. Please do not confuse these bearings with inferior reticular tin-aluminum bearings, regardless of whose name is on the box. Lead-indium bearings are the only type you will find in quality racing engines.

Also note that some Ford 1600 OHV and 2000 OHC cylinder blocks are factory align-bored +.015" on the crankshaft housing bore. Always check the old bearing shells, in most cases they will be marked, (example: Std/.015, .010/.015, .020/.015, .030/.015)



Product Note:

Gaskets listed on this page are legal for SCCA FF1600 & S2000 racing unless marked with an asterisk (*)

Gaskets

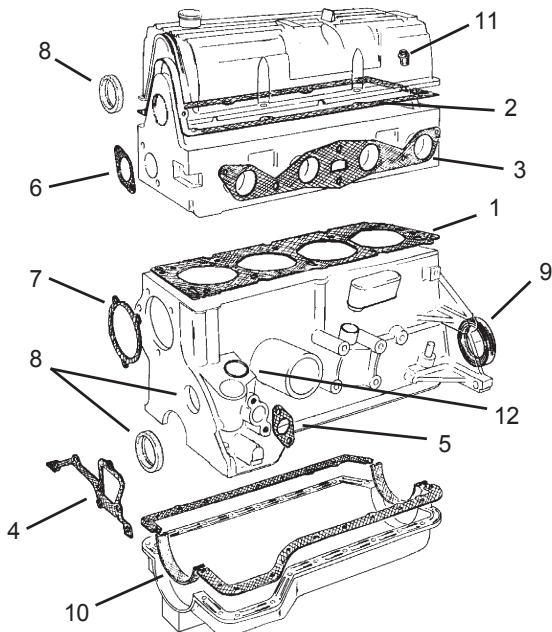
1600 OHV Engine

Full Gasket Set (includes head and lower set)		F15A
Head Set (head gasket and up)		F15B
Lower Set (parts below head gasket)		F15CL
Sump (pan) Set (rails & F/R pan seals)		F15C
Sump (pan) Set (rails w/cork pan seals)		F15CC
Head Gasket (Reinz) German	1	F15D
Head Gasket (Fel-Pro) USA	1	C15D
Head Gasket (Payen) England	1	F15DP
Valve Cover Gasket	2	F15E
Intake Manifold Gasket	3	F15F
Inlet/Exhaust Manifold Gasket (non X-Flow)		F15FA
Header Gasket (1 piece)		C15G
Carb. Base Gasket		F15H
Carb. Bowl Gasket 32/36 DGV		F15I
Front Cover Gasket	4	F15J
Rear Cover Gasket	5	F15K
Oil Pump Gasket	6	F15L
Fuel Pump Gasket	7	F15M
Water Neck Gasket	8	F15N
Water Pump Gasket	9	F15P
Rear Crank Seal	10	F15Q
Front Crank Seal	11	F15R
Rear Pan Seal	12	F15S
Front Pan Seal	13	F15T
Valve Stem Seal	14	F3G
Distributor "O" Ring	15	F9SL

Gaskets

2000 OHC Engine

Full Gasket Set- Ford/German		S15A
Head Set- Ford/German (head gasket & up)		S15B
Head Set- Alternate- (head gasket & up)		S15BA
Lower Engine Set- (parts below head gasket)		S15CL
Sump (pan) Set- (rails & F/R pan seals)		S15C
Sump (pan) Set- (with cork ends seals)		S15CC
Cylinder Head Gasket- Ford/German	1	S15D
Cylinder Head Gasket- Fel pro		S15DF
Valve Cover Gasket Early (narrow)	2	S15E
Valve Cover Gasket Late (wide)	2	S15EL
Intake Manifold Gasket	3	S15F
Header Gasket (one piece)		S15G
Carb. Base Gasket		F15H
Carb. Bowl Gasket 32/36 DGV		F15I
Front Cover Gasket	4	S15J
Fuel Pump Gasket	5	S15M
Water Neck Gasket	6	S15N
Water Pump Gasket	7	S15P
Oil Seal Cam/F.Crank/Aux. Shaft	8	S15R
Oil Seal Rear Crankshaft	9	F15Q
Seal Oil Pan Front or Rear	10	S15S
Valve Stem Seal	11	F3G
Distributor "O" Ring	12	S9SL



Race Engine Clearances:

Main Bearings	.002"
Con Rod Bearings	.0015"-.002"
Camshaft Bearings	.002"-.0023"
Piston to Cylinder Wall	.004"-.0045"
Top Ring End Gap	.015"
Crankshaft End Float	.005"-.011"
Camshaft End Float	.004"-.0075"
Wrist Pin	.0002"-.0003"
Intake Valve Stem	.002"
Exhaust Valve Stem	.0025"
Intake Valve Lash	.012"
Exhaust Valve Lash	.022"

Race Engine Torque Specs:

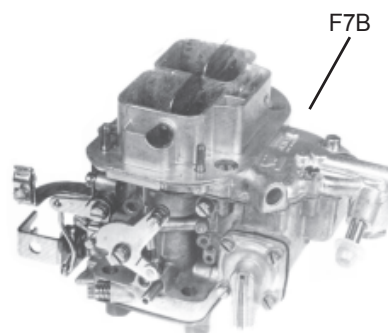
Head Bolt	75 lbs. ft.
Main Cap Bolt	70 lbs. ft.
Rod Cap Bolt (std.)	35 lbs. ft.
Rod Cap Bolt (HD)	43 lbs. ft.
Flywheel Bolt	54 lbs. ft.
Pressure Plate Bolt	15 lbs. ft.
Rocker Shaft Bolt	30 lbs. ft.
Camshaft Bolt	15 lbs. ft.
Thrust Plate Bolt	3.5 lbs. ft.
Chain Tensioner Bolt	7 lbs. ft.
Oil Pump Bolt	15 lbs. ft.
Oil Sump Bolt	8 lbs. ft.
Front Cover Bolt	7 lbs. ft.
Rear Cover Bolt	15 lbs. ft.
Water Pump Bolt	7 lbs. ft.
Water Neck Bolt	15 lbs. ft.
Crankshaft Pulley Bolt	28 lbs. ft.
Fuel Pump Bolt	15 lbs. ft.
Rocker Cover Screw	3.5 lbs. ft.
Intake Manifold Bolt	15 lbs. ft.
Exhaust Manifold Bolt	15 lbs. ft.
Carb to Manifold Nut	15 lbs. ft.
Spark Plug	25 lbs. ft.

Race Engine Clearances:

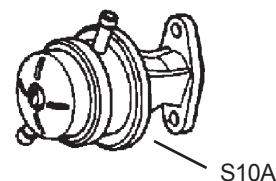
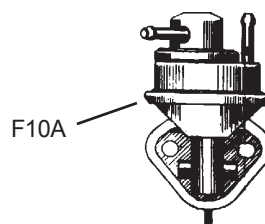
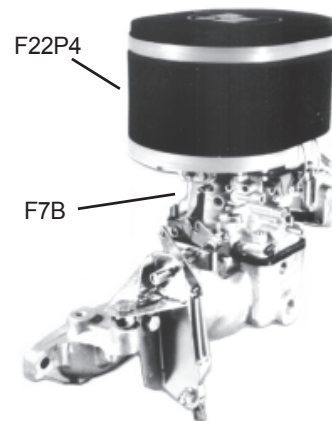
Main Bearings	.002"
Con Rod Bearings	.0015"-.002"
Camshaft Bearings	.0018"-.0026"
Piston to Cylinder Wall	.005"
Top Ring End Gap	.015"
Crankshaft End Float	.0032"-.011"
Camshaft End Float	.0016"-.0047"
Wrist Pin	.0007"-.00153"
Intake Valve Stem	.002"
Exhaust Valve Stem	.0025"
Intake Valve Lash	.010" Cold
Exhaust Valve Lash	.012" Cold

Race Engine Torque Specs:

Head Bolt	85 lbs. ft.
Main Cap Bolt	75 lbs. ft.
Rod Cap Nut	35 lbs. ft.
Flywheel Bolt	50 lbs. ft.
Pressure Plate Bolt	15 lbs. ft.
Oil Sump Bolt	8 lbs. ft.
Rocker Cover Bolt	5 lbs. ft.
Front Cover Bolt	13 lbs. ft.
Water Neck Bolt	15 lbs. ft.
Camshaft Sprocket Bolt	35 lbs. ft.
Crankshaft Pulley Bolt	28 lbs. ft.
Intake Manifold Bolt	15 lbs. ft.
Exhaust Manifold Bolt	15 lbs. ft.
Carb to Manifold Nut	15 lbs. ft.
Spark Plug	20 lbs. ft.



This Formula Ford induction system features a **Weber 32/36 DGV (F7B)**, with a **ITG 100mm Filter Assembly** mounted atop a **Upated type FF1600 Intake Manifold (F8B)**.

**Fuel System**

Fuel Pump 1600 OHV	F10A
Fuel Pump* 1600 OHV (cast body/adjustable inlet)	F10AA
<i>*provided with -6AN male fittings inlet/outlet</i>	
Fuel Pump 2000 OHC	S10A
Fuel Pump 2000 OHC (cast body/adjustable inlet)	S10AA
Fuel Pump Push Rod 2000 OHC	S10P
Fuel Pump Facet Electric	F10FE
Fuel Pump Facet Electric (blue top)	F10FB
Weber 32/36 DGV Carburetor 1600/2000	F7B
Race Prepped Weber 32/36 DGV Carb.	F7BP
Weber Minor Repair Kit* DFM	F7C
Weber Minor Repair Kit* DGV	F7E
<i>*gaskets, seals, accel pump, needle/seat, float</i>	
Float DGV (brass)	F7F
Float DGV (plastic)	F7FP
Emulsion Tube F6 DGV	F71
Emulsion Tube F5 DGV	F71-5
Accel Pump Diaphragm DGV	D7PD
Gasket Carb Bowl DGV	F151
Sync-Link Kit* (simultaneous linkage for DGV)	F7SL
<i>*includes: link ends, spacers and dual pump jet</i>	



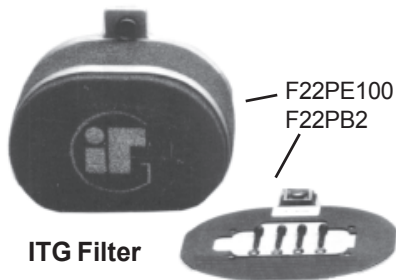
F10FE



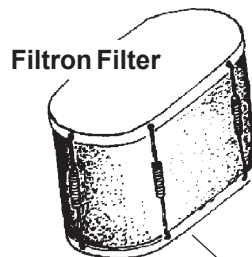
F10FB



C536PR



ITG Filter



Filtron Filter

F22A

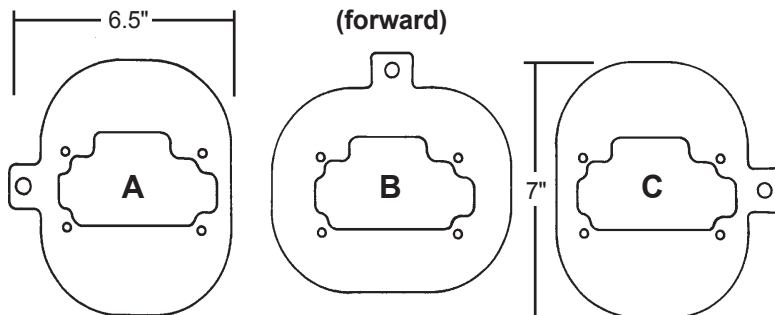
Nylon Reinforced Frame

ITG Filter Anatomy

Filter Breathes Through Front Panel

High Flow Foam Outer layer, with Fine Mesh Fire Retardant Inner Layer

Backing Plates available for various applications



ITG Weber DGV Filter Base Plates

Main Jet #125	Weber 32/36 DGV	F7G125
Main Jet #130	Weber 32/36 DGV	F7G130
Main Jet #135	Weber 32/36 DGV	F7G135
Main Jet #140	Weber 32/36 DGV	F7G140
Main Jet #145	Weber 32/36 DGV	F7G145
Main Jet #150	Weber 32/36 DGV	F7G150
Main Jet #155	Weber 32/36 DGV	F7G155
Main Jet #160	Weber 32/36 DGV	F7G160
Main Jet #165	Weber 32/36 DGV	F7G165
Main Jet #170	Weber 32/36 DGV	F7G170
Main Jet #175	Weber 32/36 DGV	F7G175
Main Jet #180	Weber 32/36 DGV	F7G180
Main Jet #185	Weber 32/36 DGV	F7G185
Main Jet #190	Weber 32/36 DGV	F7G190
Main Jet #195	Weber 32/36 DGV	F7G195
Main Jet #200	Weber 32/36 DGV	F7G200
Air Jet #135	Weber 32/36 DGV	F7H135
Air Jet #140	Weber 32/36 DGV	F7H140
Air Jet #145	Weber 32/36 DGV	F7H145
Air Jet #150	Weber 32/36 DGV	F7H150
Air Jet #155	Weber 32/36 DGV	F7H155
Air Jet #160	Weber 32/36 DGV	F7H160
Air Jet #165	Weber 32/36 DGV	F7H165
Air Jet #170	Weber 32/36 DGV	F7H170
Air Jet #175	Weber 32/36 DGV	F7H175
Air Jet #180	Weber 32/36 DGV	F7H180
Air Jet #185	Weber 32/36 DGV	F7H185
Air Jet #190	Weber 32/36 DGV	F7H190
Air Jet #195	Weber 32/36 DGV	F7H195
Air Jet #200	Weber 32/36 DGV	F7H200
Air Jet #205	Weber 32/36 DGV	F7H205
Air Jet #210	Weber 32/36 DGV	F7H210
Air Jet #215	Weber 32/36 DGV	F7H215

Filtration

Filtron Filter Assembly DGV	F22A
Filtron Standard Element 5"	F22B
Filtron Element 3.75"	F22D
Filtron Element 7"	F22E
Filtron Spring Pack	F22C
Filtron Oil Bottle (large)	F22G
ITG Filter Assembly (disposable type)	F22P1

Product Note:

The ITG air filters are an excellent choice for 1600 and 2000 engines using the Weber DGV carburetor. We offer 3 base plate versions and 4 filter heights ranging from 25 to 100mm. To order a complete filter kit simply choose the required base plate orientation and filter height to fit your requirements. We can also supply a wide range of base plates and filter sizes to fit other applications, call for more information.

ITG Element 100mm	F22PE10
ITG Element 150mm	F22PE15
ITG Element 65mm	F22PE65
ITG Element 40mm	F22PE40
ITG Element 25mm	F22PE25
ITG Base Plate Weber DGV (drawing A & C)	F22PB1
ITG Base Plate Weber DGV (drawing B)	F22PB2

Electrical System

1600 OHV Ignition

	Illustration	Part#
Distributor Bosch- Points Type		F9AB
Distributor Bosch- Electronic		F9ABE
Distributor Bosch TFI- Electronic*		F9ABE2
*includes: built-in electronic module & wiring harness		
Cap- Motorcraft	8	F9B
Cap- Bosch	1	F9BB
Cap- Bosch Electronic (male ends)		F9BBE
Cap- Bosch 90 Side-entry		F9BBS
Cap- Lucas		F9BL

Tips from the Pros

"We find that a competitive FFord Engine needs between 38 to 40 degrees of total ignition advance."- **Ted Wenz of Marcovicci-Wenz Engineering.**

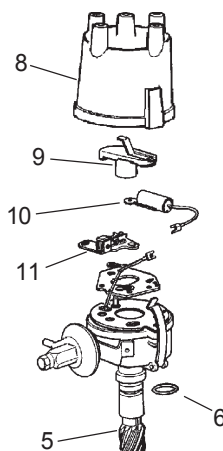
Point Set- Motorcraft	11	F9E
Point Set- Bosch (high tension)	3	F9EBR
Point Set- Lucas		F9EL
Electronic Conversion Kit- for Bosch		F9EC
Electronic Conversion Kit- for Lucas		F9ECL
Electronic Conversion Kit- for Motorcraft		F9ECM
Rotor- Motorcraft	9	F9F
Rotor- Bosch	2	F9FB
Rotor- Bosch w/RPM Limiter		F9FBR
Rotor- Lucas		F9FL
Condenser- Motorcraft	10	F9G
Condenser- Bosch	4	F9GB
Condenser- Lucas		F9GL
Distributor Drive Gear- Bosch or Motorcraft	5	F9C
Distributor Drive Gear- Lucas		F9CL
Distributor O Ring- Bosch or Motorcraft	6	F9SL
Distributor Hold Down- Bosch	7	F9HD
Coil Lucas Sports		F9D
Coil Bosch 1.1 Ohm		F9DB
Spark Plug- FF1600 NGK		F539
Coil Bosch Blue Top		F9DA
Ignition Module Ford Type		C9M
Ignition System Racing* (for F9ABE)		C9U
*includes: ignition module w/rev. limiter & coil		
Bosch TFI Module (for F9ABE2)		F9H
8mm Racing Wire Set (over valve cover)		F9HT
8mm Racing Wire Set (around front)		F9HTF
Coil Wire Kit 24" (for above)		F9HTC
Ignition Wire Separator		F9S

2000 OHC Ignition

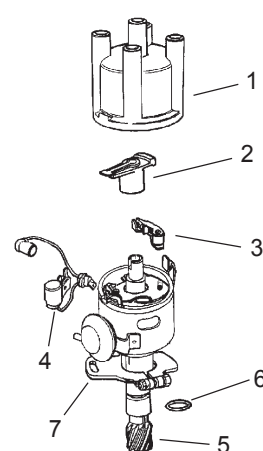
Distributor Bosch-Points Type	S9A
Distributor Bosch Electronic	S9AE
Cap- Bosch (for S9A)	F9BB
Point Set- Bosch	S9E
Electronic Conversion Kit (for S9AB)	S9EC
Rotor- Bosch (for S9AB)	F9FB
Rotor- Bosch Electronic	S9FE
Ignition Condenser- Bosch (for S9AB)	S9G
Distributor Drive Gear	S9C
Distributor O Ring	S9SL
Ignition Module Motorcraft TFI	S9H
Distributor Plug-in Lead (for S9AB)	S9HL
8mm Racing Wire Set (over valve cover)	S9HT
8mm Racing Wire Set (around rear)	S9HTR
Coil Wire Kit 24" (for above)	F9HTC
Ignition System Racing* (for S9AE)	C9U

*includes: ignition module w/rev. limiter & coil

Motorcraft Distributor

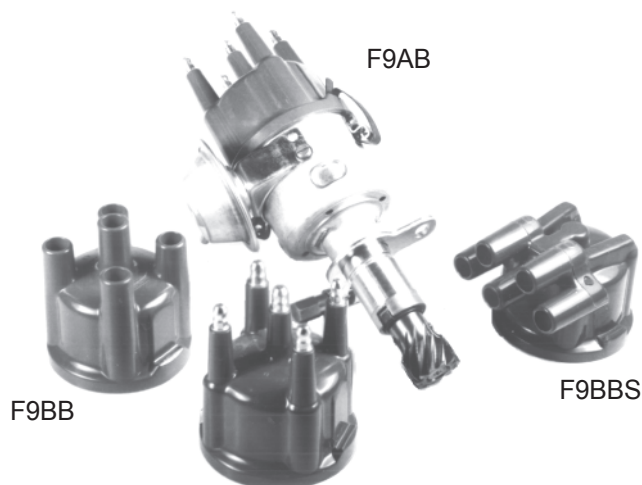


Bosch Distributor



Product Note:

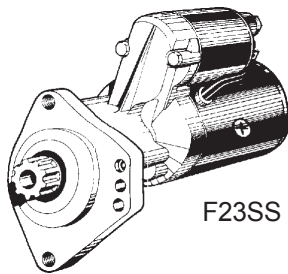
Formula Ford 1600's come with either a Bosch, Motorcraft or Lucas distributor. Be sure to correctly identify the distributor before ordering, parts are **NOT** interchangeable between the makes. Also note that our 1600 Bosch points are of a higher spring tension for competition use.



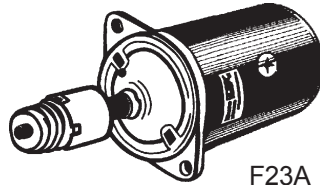
F9D



F9FBR



F23SS



F23A



F23C10



F23MS



F27A



F27B

Product Note:

These rugged mechanical gauges have 2 1/16" black faces and are illuminated. Temperature gauges are equipped with 7 foot long capillary tubes with 3/8"BSP adaptors. A 5/8" UNF adaptor is also available. Pressure gauges do not include tubing kits. Special hose ends are now available to plumb pressure with Aeroquip -3AN hose.

Starter Motors

Starter Lucas 2 Bolt 9 Tooth	F23A
Starter Lucas 3 Bolt 10 Tooth	F23B
Starter Bendix 9 Tooth	F23C9
Starter Bendix 10 Tooth	F23C10
Starter Bendix Compressor Tool	F23G
Starter Bosch 3 Bolt 10 Tooth	F23F
Tilton Super Starter	F23SS
Tilton XLT Super Starter (7lbs lightweight)	F23SL
BAT Hi-torque Micro Starter (2 bolt)	F23MS
BAT HT Micro Starter- Adjustable (2 bolt)	F23MA

Product Note:

The **Tilton Super Starter** and **BAT Micro Starter** types are high capacity vibration-resistant gear reduction starters which can be mounted in several orientations for optimum clearance. These starters are built tough, and will give much longer service than any other design. New for 2000, the **BAT Micro Adjustable** is designed with a special nose mounting plate with more index positions and easier mounting fastener access. This allows the starter to be used in "hard to fit applications" **Tilton** also offers the benefits of the super starter in a very light weight package the **Super Starter XLT**. **Tilton Super Starters** are also available for other high performance applications; call for more information.

Master Electrical Switches

Kill Switch Lucas	F27A
Kill Switch Key Type	F27B
Kill Switch Key Type (Hella)	F27BH

Instrumentation

Gauges & Hardware

Water Temp Gauge 110c	F25ACR
Oil Temp Gauge 140c	F25BCR
Oil Pressure Gauge 100psi	F25C10
Oil Pressure Gauge 160psi	F25C16
Dual Gauge 160psi/120c (temp)	F25DC
Dual Gauge 100psi/140c (oil)	F25DCR
Dual Gauge 100psi/110c (water)	F25DCW
Pressure Line 6 Foot (to 1/8" BSP)	F25E
Pressure Line 9 Foot (to 1/8" BSP)	F25ER
Hose End* 1/8" BSP to -3AN Hose (straight)	ABS3STF
Hose End* 1/8" BSP to -3AN Hose (45 degree)	ABS345F
Hose End* 1/8" BSP to -3AN Hose (90 degree)	ABS390F
*special hose end for connecting -3AN hose to the 1/8 BSP flat seal found on Smiths/Raceparts type gauges.	
Fitting 3/8" BSP x 3/8" UNF female/male	F25FM
Fitting 3/8" BSP x 5/8" UNF female/male	F25FM5
Fitting 3/8" BSP x 5/8" UNF male/male	F25MM
Fitting 1/8" BSP x 1/4" NPT male/male	4NF2BS



F25C10



F25C16



F25ACR



F25BCR



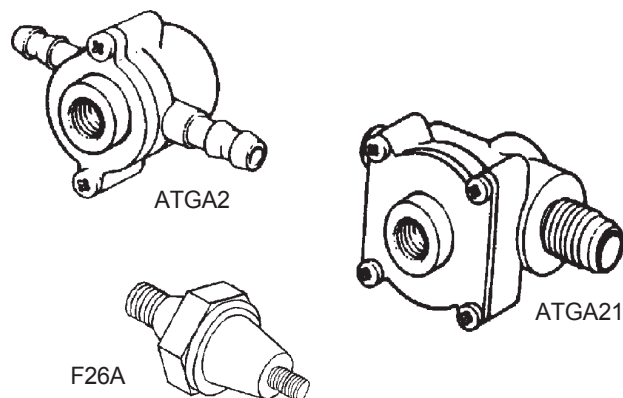
F25DC



F25DCR

Gauges & Hardware Cont...

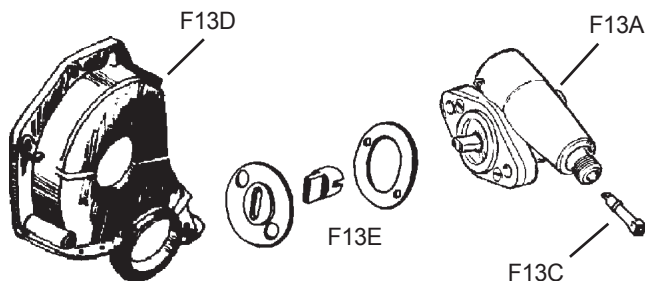
Fitting 3/8" BSP x 3/8" BSP male/male	BSM6-6
In line Temp Gauge Adaptor* 1/2" push-on	ATGA2
In line Temp Gauge Adaptor* 1/2 BSP female	ATGA2D
In line Temp Gauge Adaptor* AN-8	ATGA2H
In line Temp Gauge Adaptor* AN-10	ATGA21
In line Temp Gauge Adaptor* AN-12	ATGA2J
* Temp gauge adaptors have 5/8 UNF port	
Oil Pressure Switch 35psi	F26A
Oil Pressure Switch 20psi	F26B
Oil Pressure Switch Adjustable 15-60psi	F26C
Oil Pressure Tee 1/8" NPT	F26T
Warning Light	F26L
Early Warning System Kit	F26WS

**Tachometer Drives**

Tach Drive Gear Box FF1600 (brown)	F13A
Reversing Gear Box 2000 (black)	F13AA

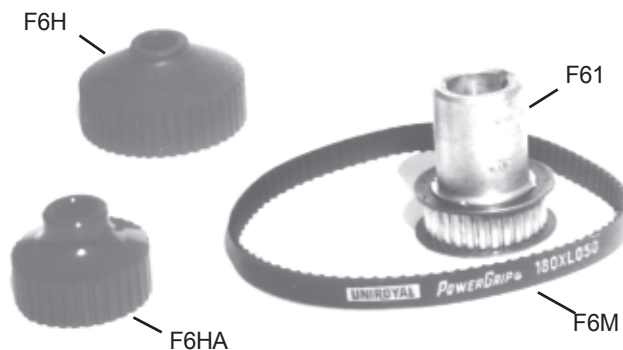
Product Note:

Cable driven Tachometers generally run at 1/4 crank speed. The Tach Drive Gearboxes mount the cable 90 degrees and reduce the rotation by 2:1. Thus a camshaft driven gearbox will achieve a total reduction of 4:1 (crank vs. cam = 2:1). Our Tach Cables will fit all of our Gearboxes and all Smiths (directional) Tachs. Jones (non-directional) Tachs will require a small drive adaptor to run these cables.

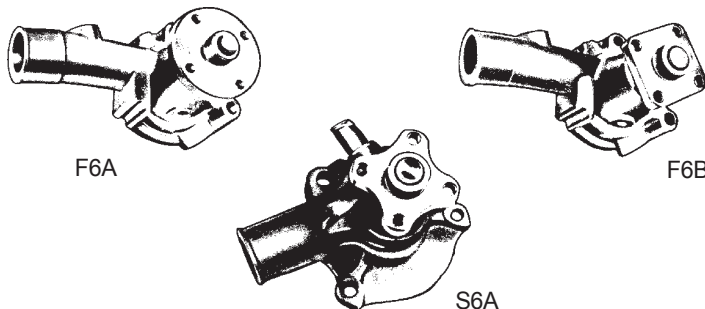
Tach Drive Components

Tach Cable 66 inch	F13B66
Tach Cable 72 inch	F13B72
Tach Cable 84 inch	F13B84
Tach Cable 96 inch	F13B96
Tach Cable 108 inch	F13B108
Cable Dog	F13C
Machined Front Cover- FF1600	F13D
3 Piece Mount & Drive	F13E
Side Tach Drive Mount*	F13F

*mounts at standard oil pump location, when using front cover mounted drysump pumps.

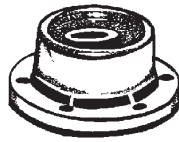
Water Pump Drives**Cooling System**

Water Pump 1600 OHV (.5" Shaft)	F6A
Water Pump 1600 OHV (.625" Shaft)	F6B
Water Pump 2000 OHC	S6A
Water Pump Light Alloy 2000 OHC	S6AA
Pulley 44 Tooth (.5" ID)	F6G
Pulley 34 Tooth (.5" ID)	F6GA
Pulley 44 Tooth (.625" ID)	F6H
Pulley 34 Tooth (.625" ID)	F6HA
Drive Belt 170 X L050	F6K
Drive Belt 180 X L050	F6M
Drive Belt 190 X L050	F6N
Drive Belt 190J Polly-V	S19VB
1600 Crankshaft Pulley	F61
2000 Crankshaft Pulley	S61

Water Pumps



F17FB



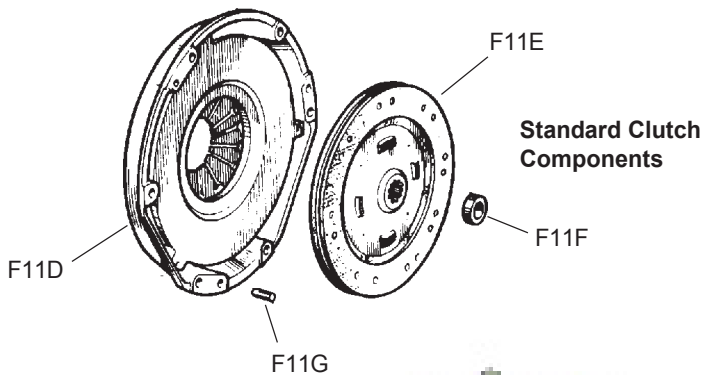
F17FA



F17A

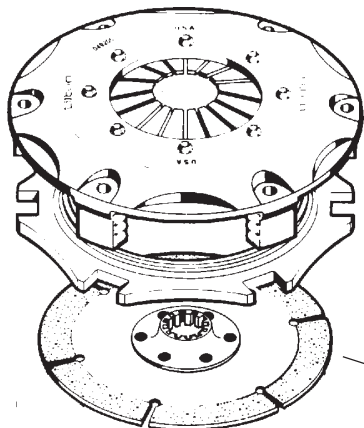
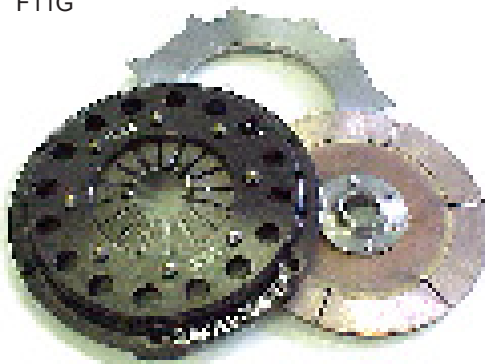


F17B



Standard Clutch Components

F11AQ



**F11A
Tilton OTII F3 Type
Clutch Assembly**

F11B (disk only)

Powertrain

Drive Joints

Drive Coupling FF (standard)	F17A
Drive Coupling FF (heavy duty)	F17B
Drive Coupling Large (FT200 type)	F17C
Universal Joint FF (small)	F17D
Universal Joint FF (large)	F17E
CV Joint FF	F17F
CV Joint FF (lightweight type)	F17FL
CV Boot (VW style)	F17FB
CV Boot (aero style)	F17FA

1600 OHV Clutch

Clutch Cover FF Std. Borg & Beck	F11D
Clutch Assembly F3 Tilton	F11A
Clutch Assembly F3 B&B (ring style)	F11AA
Clutch Assembly F3 Quarter Master V-drive	F11AQ
Clutch Disk 7.5" FF B&B Std.- 7/8" x20 spline	F11E
Clutch Disk 7.25" F3 Type- 7/8" x20 spline	F11B
Bolt Kit- Tilton F3 Clutch (to flywheel)	F11BK
Bolt Kit- Q/Master F3 Clutch (to flywheel)	F11BQ
Clutch Sliding Plate (ring type)	F11C
Pilot Bearing	F11F
Throw Out Bearing	WC26
Retaining Clip (for TOB)	WC27
Clutch Dowel	F11G
Clutch Alignment Tool- 7/8" x20 spline	F11H
Clutch Special FF1600	

includes: standard type F11E Disk and Pressure Plate F11D

F11SPL

2000 OHC Clutch

Clutch Cover Std. Borg & Beck	S11D
Clutch Assembly F3 Tilton	S11A
Clutch Assembly F3 B&B (ring style)	S11AA
Clutch Assembly F3 Quarter Master V-drive	S11AQ
Clutch Disk 8.5" B&B Std.- 1" x23 spline	S11E
Clutch Disk 8.5"- 7/8" x20 spline	S11EA
Clutch Disk 7.25" F3 Type- 1" x23 spline	S11B
Bolt Kit- Tilton F3 Clutch (to flywheel)	F11BK
Bolt Kit- Q/Master F3 Clutch (to flywheel)	F11BQ
Pilot Bearing	F11F
Throw Out Bearing	WC26
Retaining Clip (for TOB)	WC27
Clutch Dowel	F11G
Clutch Alignment Tool- 1" x23 spline	S11H

Product Note:

BAT is a full line distributor for Tilton and Quarter Master Clutch and Flywheel components. Other clutch components such as alloy racing flywheels, 2 and 3 disk clutch packs, metallic carbon and ceramic clutch linings, and hydraulic release bearings are also available. We are happy to assist in your selection of these components for various racing applications.

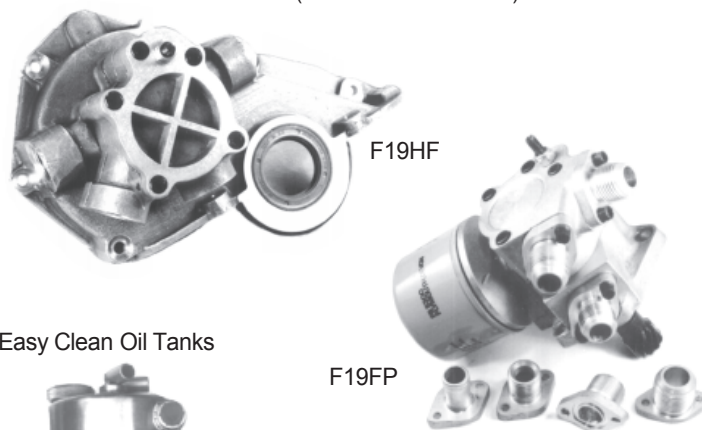
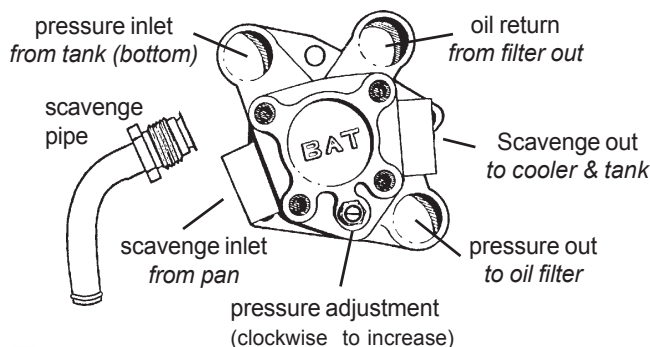
Dry Sump Equipment

1600 OHV Engine

D/S Pump 5 Port Titan (7/8" scavenge - 5/8" pick-up)	F19T
D/S Pump 5 Port Pace (1" scavenge - 5/8" pick-up)	F19B
D/S Pump 5 Port Titan (1" scavenge - 3/4" pick-up)	F19T1
D/S Pump 5 Port Pace (with tach drive)	F19AT
D/S Filter Pump Pace (uses spin-on oil filter)	F19FP
Filter- Filter Pump Replacement	F19FF
D/S Pump Twin Scavenge	F19H
D/S Pump Front Mount Twin Scavenge	F19HF
Scavenge Tube & Nut 5/8" (for F19T & F19B pumps)	F19TA
Scavenge Tube 3/4" (clip in type for F19T1 pump)	F19TB
Dry Sump Pan FF1600 (steel) 5/8" pick-up	F19F
Dry Sump Pan FF1600 (alloy)	F19FA
Dry Sump Pan FF1600 (steel) 3/4" pick-up	F19FB
Dry Sump Pan Rope Seal Type (steel)	F19F
Dry Sump Pan Twin Scavenge (steel)	F19G
Crankshaft Scraper (bolts to pan rail)	F19CS
Filter Screen & Washer	F19FS
D/S Pump Rebuild Kit (for Filter Pump)	F19FPK
D/S Pump Rebuild Kit (for Pace F19B pumps)	F19KTP
D/S Pump Rebuild Kit (for Titan 7/8" pumps)	F19TKT
D/S Pump Rebuild Kit (for Titan 1" pumps)	F19TKT1
Pressure Rotor 5/8" & Shaft (for Pace pumps)	F19RS
Pressure Rotor 5/8" & Shaft (for Titan pumps)	F19RST
Pressure Rotor Set 5/8" (fits all pumps)	F19S/8
Scavenge Rotor Set 7/8" (fits all pumps)	F197/8
Scavenge Rotor Set 1" (fits all pumps)	F198/8
Pump Scroll Gear	F19SG
Scroll Gear Set- Bronze (oil pump & distributor)	F19SGB
Oil Tank Light Alloy (14.25" x 7.25")	F19D
Oil Tank Small Easy-Clean Type (14" x 6.5")	F19E
Oil Tank Medium Easy-Clean Type (14" x 8.25")	F19EM
Oil Tank Large Easy-Clean Type (16" x 9.5")	F19EL



Typical 5 Port Oil Pump Plumbing



Easy Clean Oil Tanks



F19E

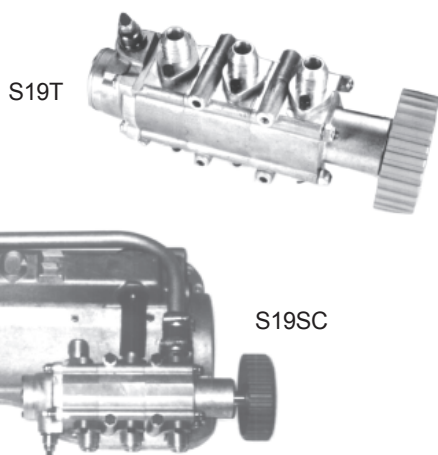


BSP and -AN Oil Fittings

2000 OHC Engine

Dry Sump Kit Pace*	S19SC
*includes: alloy pan with integral pump, pulleys, plumbing	
Dry Sump Kit Pace for Swift*	S19SK
*includes: pump, bracket, pulleys (less pan)	
Dry Sump Pump Pace (3 stage)	S19T
Dry Sump Kit Titan Series II (jackshaft driven)*	S19A
*includes: pump, steel pan, pulleys, plumbing	
Dry Sump Kit Titan Series II (above with alloy pan)	S19AB
Dry Sump Kit Titan Series II (above less oil pan)	S19AC
Dry Sump Kit Titan Series II (crankshaft driven)*	S19AD
*includes: pump, mounting for Swift, less oil pan	
Dry Sump Pump Titan Series II (3 stage)*	S19T2
*can be ordered with either 22T pulley or 30T pulley	
Dry Sump Oil Pan- Twin Scavenge (steel)	S19F
Dry Sump Oil Pan- Twin Scavenge (alloy)	S19FA
Crankshaft Scraper (bolts to pan rail)	S19CS
Filter Screen- Oil Pan	F19FS
Pulley- Crank Oil/Water Pumps	S61
Pulley- Crank Titan (15 Teeth)	S19DB
Pulley- Pump Pace (30 Teeth)	S19P
Pulley- Pump Titan (22 Teeth)	S19EJ
Pulley- Pump Titan (30 Teeth)	S19DP
Pulley- Pump Titan (32 Teeth)	S19PA
Pulley- Jackshaft Titan (22 Teeth)	S19J

All drysump ports are BSP (British standard pipe) parallel thread. BAT stocks a complete range of BSP hose ends and adaptors. If you prefer using the Aeroquip system we can supply BSP to AN adaptors for easy conversion. This is covered in our MOCAL oil control catalog.

**2000 OHC Drysump (cont.)**

Belt 187L x 050	S19BS
Belt 210L x 075	S19B
Belt 225L x 075	S19BL
Pump Rotor (specify Pace or Titan)	S19R
Pump Shaft (specify Pace or Titan)	S19S
Pump Seal Kit (specify Pace or Titan)	S19K
Pressure Relief Assembly (specify Pace or Titan)	S19PR
Flange Fitting AN-8 (specify Pace or Titan)	AFAN8
Flange Fitting AN-10 (specify Pace or Titan)	AFAN10
Flange Fitting AN-12 (specify Pace or Titan)	AFAN12
Flange Fitting 1/2 BSP (specify Pace or Titan)	AFBS8
Flange Fitting 5/8 BSP (specify Pace or Titan)	AFBS10
Flange Fitting 5/8 push-on (specify Pace or Titan)	AFST10
Flange Fitting 3/4 push-on (specify Pace or Titan)	AFST12

Dry Sump Tech Info

Dry sump systems may seem overly complex at first, but they are really quite simple in operation. Basically the idea is to be able to evacuate more oil from the engine than can be delivered. This keeps the crankcase or sump "dry" and reduces the amount of oil being whipped up (windage) giving more power and cutting down on crankcase pressures. Generally this is achieved with a double pump which has a larger scavenge section than pressure section. Most racing pumps will have an adjustable pressure relief valve which will allow accurate setting of the oil pressure to compensate for temperature and wear. Some pumps such as those used on the 2000 OHC engines have two scavenge sections to increase the scavenge volume. These pumps must be used with a sump which has two oil pick-ups, and conversely a sump with two pick-ups must be used with a twin scavenge oil pump.

Dry sump pumps for engines based on the Ford push-rod blocks such as Formula Ford, Twin-Cam, BDA, MAE etc. are generally either mounted on the side of the engine and driven by skew gear off the camshaft, or are front mounted and driven directly off the nose of the camshaft. Side mount pumps are very compact and require no additional clearance in front of the engine (they must be used on Twin-Cam and BDA engines). However, the skew gears are costly in terms of power absorbed to drive the pump. Front mounted pumps are popular on engines which lay over on their sides such as an MAE and they allow the use of very large scavenge sections because they are driven by roller chain from the nose of the camshaft.

2000 OHC Engines use dry sump pumps driven by a reinforced toothed belt and mount along side the engine in various locations. All of these systems use a three stage pump with two scavenge stages and a twin pick-up pan. Not all of these pumps use the same pulley sizes, but all use the same pulley ratio of 1/2 crankshaft speed in order to drive a tachometer gearbox if necessary. Naturally a twin scavenge belt driven pump has the potential of becoming quite a bulky assembly, but recent developments have resulted in much more compact and efficient designs.

In operation, oil drawn from the engine sump is then sent to a holding tank usually by way of an oil cooler. Since the oil is a frothy mix of oil and foam, the oil tank should be designed to de-aerate this oil and maintain a solid head of oil ready to supply the engine. There

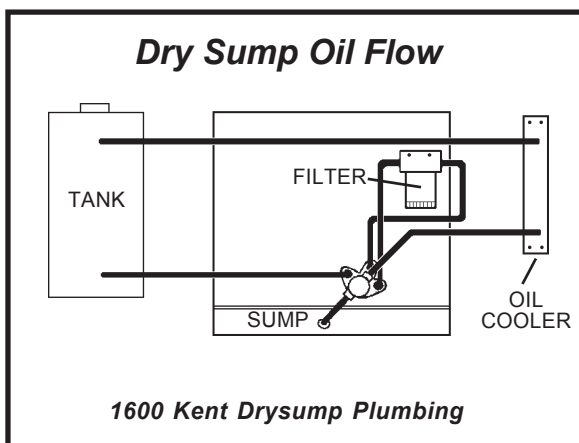
should also be a breathing space provided in the tank and provision to vent this space to a catch can. The pressure stage of the pump will then draw de-aerated oil from the bottom of the oil tank and supply this oil under pressure to an oil filter. From here the oil will be delivered to the engine's main oil galley. Another option would be to fit the oil cooler after the oil filter on the return, the theory being the de-aerated oil will cool more efficiently.

The most efficient oil pumps are of the Gerotor type as opposed to the simple gear pump. Gerotor pumps move more oil for their size, and more importantly they aerate the oil less than the gears on a gear pump. To maintain this efficiency the internal running clearances in the pump must not be too great or else there will be a dramatic pressure drop. In normal conditions a pump will wear very little if any at all, but should an engine experience some sort of internal failure a lot of gritty oil can pass through the pump very quickly and serious damage can result. Fortunately, oil pump components, rotors, and overhaul kits are available from us which will allow you to service or even reclaim a substandard oil pump.

We have basically two types of dry sump pans available. These pans are either fabricated from sheet steel or cast aluminum. The sheet steel pans have the advantage of being less expensive and more durable, but many later cars are using the sump as a structural chassis member and thus a special cast aluminum pan with bosses

to accept chassis mounting may be required. These light alloy pans usually have a removable windage tray which makes them easier to clean. Any good sump should have an internal screen to trap any debris which would otherwise be sucked into the pump. All of our sump pans have externally removable filter screens which can be easily cleaned and replaced.

When starting a dry sump engine for the first time after engine installation it is essential to ensure that there is unrestricted oil flow through all oil lines. This means no kinked or crushed hoses. With the oil tank filled oil should issue freely from the hose end which provides oil to the pressure-in side of the pressure pump stage. If the tank is located far from the engine as on some older cars with front mounted oil tanks it often helps to raise the front of the car a couple of feet when cranking the engine over to establish initial oil pressure.



Brake Tech Info

Most FF1600 and S2000 cars come equipped with either Girling or Lockheed (AP Racing) brake components. Some cars such as the Zink Z10 use an ATE brake caliper. Early FFs usually had either the small (528) Girling 12SP caliper or the larger (533) 14LF caliper. The 12SP caliper is easily identified because it has only two bridge bolts which hold the caliper halves together. The 14LF caliper uses four bridge bolts.

There are generally three types of Lockheed calipers used. The smallest caliper is generically called the LD19 type and is currently almost universal on Formula Fords and even some 2000 cars. The bigger brother of this caliper or LD20 type is mostly found on 2000 cars and the newest caliper, the four piston LD65 "Metro" caliper is only found on 2000 cars.

There is a vast selection of brake pad compounds available for all of these calipers to suit the requirements of various tracks and drivers. The one cardinal rule is to never, never mix different brake compounds front and rear on a race car. We offer brake pads in a wide range of compounds and heat ranges from Ferodo, Mintex, and a number of Carbon Kevlar and Carbon Metallic manufacturers. With the decline of asbestos worldwide many of the familiar older racing compounds are being replaced with new non-asbestos versions. Some of the earliest asbestos-free pads on the market were not very good, obviously holdovers until better versions could be developed. However the latest racing pad offerings by both Mintex and Ferodo are now very good. Mintex offers the new 1144 non-asbestos material as a replacement for both 171 and 121 compounds offering very similar performance characteristics. Ferodo is now offering non-asbestos 3466F and 4003F compounds that replace their popular 2430 and DS11 compounds. When selecting brake pads we recommend consulting our staff if you are unsure of your requirements.

Master cylinders and brake calipers can be overhauled using kits manufactured by either Girling or Lockheed and new caliper pistons are now available in stainless steel to replace the original chrome plated pistons. When overhauling brake calipers it is strongly advised by the manufacturers to not split the caliper apart.

Brake Compound Info

Mintex M1144 (replaces 171) is a non-asbestos resin bonded low-metallic friction material utilizing a blend of specialized steel/acrylic fibres. M1144 has a high coefficient of friction (.44) throughout a wide operating temperature range (up to 650c) with excellent feedback "pedal feel". M1144 is factory "burnished" for easy break-in and minimal fade on the first heating cycle. Both fade and wear characteristics are excellent.

Carbon Kevlar pad material offers superior fade resistance and a high coefficient of friction (.44-.49) throughout a wide temperature range (to 750c). Material is bonded to the backing plate with a ceramic insulator and pads come pre-burnished for ease of break-in. Pad material has excellent wear characteristics and is equally "rotor friendly".

Master cylinders and calipers usually suffer more from sitting idle between race seasons than any other cause. Since competition brake fluid can readily absorb moisture from the atmosphere the biggest threat to a hydraulic system is corrosion of the pistons and calipers, master or slave cylinders. The corroded piston either sticks or scores the bore it rides in with obvious results. The solution is to store your racer in a dry environment or "exercise" the hydraulics frequently during the off season.

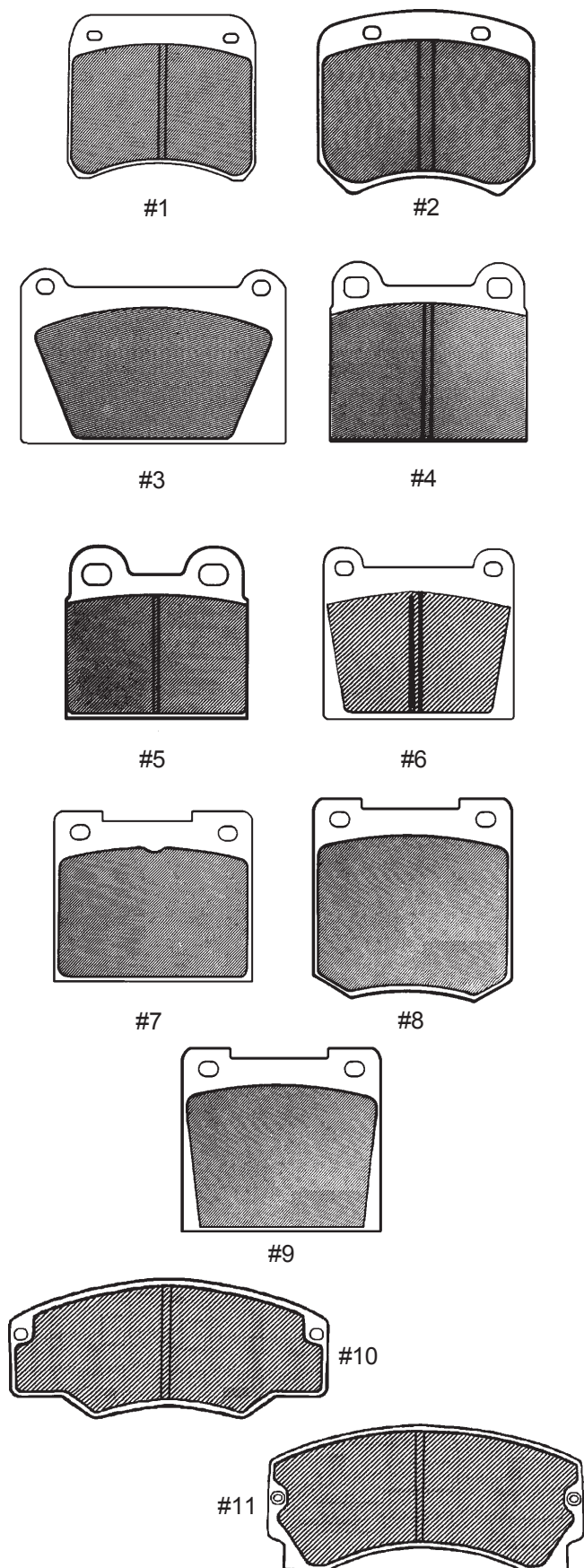
We strongly advise against the use of silicone brake fluid on a race car. There are two compelling reasons for this. First, silicone fluid has the unusual property of becoming slightly compressible at high temperatures. This results in a spongy pedal at the worst possible time. Secondly, silicone brake fluid has the ability to "creep" under rubber seals. The problem here is that brake caliper pistons depend on seal hysteresis, or drag to retract the piston after a brake application. Since silicone fluid creeps under the seal lip the piston just slides on the seal and does not retract properly. The result is pad drag on the rotor. Use a good competition brake fluid like AP 550 which is formulated for British brake systems and is ideal for FF1600 and 2000 cars.

Sometimes it is necessary to change the hydraulic ratio between master cylinder and caliper or slave cylinder to achieve a different result. Increasing the master cylinder size will increase brake effort, but reduce travel. Decreasing master cylinder size will give less pedal effort and a longer stroke. This of course assumes that the caliper piston size is unchanged. For example, a car which ends up always having its brake balance adjuster all the way to one side or another may benefit from a different master cylinder size. The same rules apply to a hydraulic clutch as well, thus if a driver complains of too much pedal travel to release the clutch, a larger master cylinder could be fitted, but there will also be corresponding increase in pedal effort. We highly recommend using -3 Aeroquip brake hoses, and a large selection of specialized brake fittings is available for British calipers and master cylinders. Laying out and fitting these systems is a very specialized matter and we recommend consulting our staff with your requirements.

Ferodo 3466F (replaces 2430) utilizes a non-asbestos base of steel filaments dispersed randomly within a blend of selected modifying agents and a special impregnant. 3466F has a high coefficient of friction (.42) throughout its operating temperature range (up to 500c). Wear characteristics for pads is very good with good feedback "pedal feel".

Ferodo 4003F (replaces DS11) utilizes a non-asbestos blend of selected friction materials in a complex matrix consolidated with a specially developed impregnate. 4003F has a high coefficient of friction (.42) throughout its operating temperature range (up to 750c). 4003F is particularly suited to severe duty applications and is not physically damaged by moderate oil contamination. Both fade and wear characteristics are excellent.

Racing Brake Pads



Pad Set LDB19 Ferodo 4003F	1	F14A
Pad Set LDB19 Ferodo DS2000	1	F14A2
Pad Set LDB19 Ferodo 3466F	1	F14AB
Pad Set LDB19 Ferodo 3410AF	1	F14AF
Pad Set LDB19 Carbon Kevlar (medium)	1	F14AK
Pad Set LDB19 Carbon Kevlar (hard material)	1	F14AKH
Pad Set LDB19 Mintex 1144	1	F14M4
Pad Set LDB19 Mintex 1155	1	F14M5
Pad Set LDB19 Mintex 1166	1	F14M6
Pad Set LDB20 Ferodo 4003F	2	F14B
Pad Set LDB20 Ferodo DS2000	2	F14B2
Pad Set LDB20 Ferodo 3410AF	2	F14BB
Pad Set LDB20 Carbon Kevlar (medium)	2	F14BK
Pad Set LDB20 Carbon Kevlar (hard material)	1	F14BKH
Pad Set LDB20 Mintex 1144	2	F14BM4
Pad Set LDB20 Mintex 1155	2	F14BM5
Pad Set LDB20 Mintex 1166	2	F14BM6
Pad Set LDB65 Ferodo 4003F	3	F14JF
Pad Set LDB65 Carbon Kevlar (medium)	3	F14JK
Pad Set LDB65 Mintex 1144	3	F14JM
Pad Set FDB2 Ferodo 4003F	4	F14H
Pad Set FDB2 Ferodo DS2000	4	F14H2
Pad Set FDB2 Ferodo 3466F	4	F14HB
Pad Set FDB2 Ferodo 3434F	4	F14HH
Pad Set FDB2 Carbon Kevlar (medium)	4	F14HK
Pad Set FDB2 Carbon Kevlar (hard material)	4	F14HKKH
Pad Set FDB2 Mintex 1144	4	F14HM
Pad Set FDB3 Ferodo 4003F	5	F14C
Pad Set FDB2 Ferodo DS2000	5	F14C2
Pad Set FDB3 Ferodo 3434F	5	F14CC
Pad Set FDB3 Carbon Kevlar (medium)	5	F14CK
Pad Set FDB3 Carbon Kevlar (hard material)	5	F14CKH
Pad Set FDB3 Mintex 1144	5	F14CM
Pad Sets GDB528*	6	
(*use GDB533 pad and modify backing plate to fit)		
Pad Set GDB533 Ferodo 4003F	7	F14D
Pad Set GDB533 Ferodo 3403AF	7	F14DAF
Pad Set GDB533 Ferodo 3466F	7	F14DD
Pad Set GDB533 Carbon Kevlar (medium)	7	F14DK
Pad Set GDB533 Carbon Kevlar (hard material)	5	F14DKH
Pad Set GDB533 Mintex 1144	7	F14DM
Pad Set GDB535 Ferodo 4003F	8	F14E
Pad Set GDB535 Ferodo 3466F	8	F14EE
Pad Set GDB535 Mintex 1144	8	F14EM
Pad Set GDB538 Ferodo 4003F	9	F14G
Pad Set GDB538 Ferodo 3466F	9	F14GG
Pad Set MDB1200 Mintex 1144	10	F14TM
Pad Set MDB 1201 Mintex 1144	11	F14TMS

Hydraulics

Master Cylinder Components

Master Cylinder Girling .625"	MCG62
Master Cylinder Girling .70"	MCG70
Master Cylinder Girling .75"	MCG75
Master Cylinder Girling Remote Reservoir*	MCG__R
*add (R) to above part numbers MCG62R, 70R, 75R	
Master Cylinder Cap Girling Large	MCGCL
Master Cylinder Cap Girling Small	MCGCS
Reservoir Extension Girling Small	MCRG1
Moisture Barrier Girling Small	MBG1
Master Cylinder Lockheed .625"	MCL62
Master Cylinder Lockheed .70"	MCL70
Master Cylinder Lockheed .75"	MCL75
Master Cylinder Lockheed Large Reservoir*	MCL__L
*add (L) to above part numbers MCL62L, 70L, 75L	
Master Cylinder Lockheed Remote Reservoir*	MCL__R
*add (R) to above part numbers MCL62R, 70R, 75R	
Master Cylinder Cap Lockheed	MCLC
Reservoir Extension Lockheed	MCRL1
Extension "O" Ring	MCRL2

Product Note:

The following Lockheed series 4600 Master Cylinders will be the eventual replacement for the original "tin tank" models used on many formula cars. This new range of master cylinders feature a removeable 7.04 fl. oz. plastic reservoir, four available bore sizes, and standard 4.50" long pushrod with 5/16" UNF. We will continue to support both old and new Lockheed master cylinder types for as long as components remain available.

Master Cylinder Lockheed .625"	MCL62B
Master Cylinder Lockheed .75"	MCL75B
Master Cylinder Lockheed .875"	MCL87B
Master Cylinder Lockheed 1.0"	MCL10B

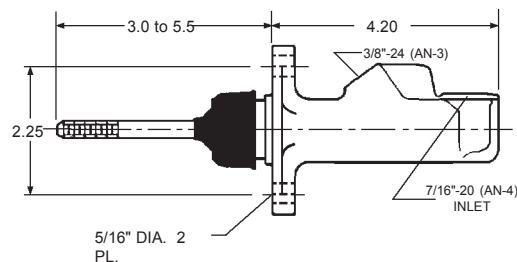
Master Cylinder Repair

Master Cylinder Kit Girling .625"	RKG62
Master Cylinder Kit Girling .70"	RKG70
Master Cylinder Kit Girling .75"	RKG75
Master Cylinder Kit Lockheed .625"	RKL62
Master Cylinder Kit Lockheed .70"	RKL70
Master Cylinder Kit Lockheed .70" (Annular)	RKL70A
Master Cylinder Kit Lockheed .75"	RKL75
Master Cylinder Kit Lockheed .75" (Annular)	RKL75A
Brake Assembly Grease	MBAG

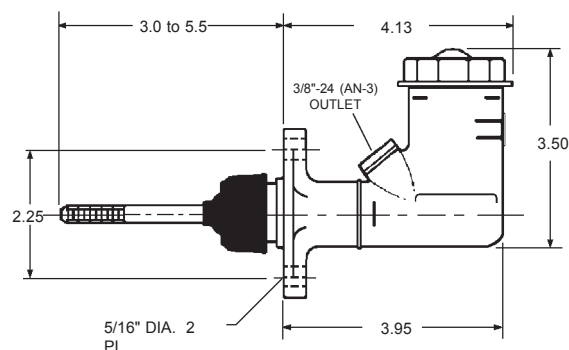
Brake Fluid Reservoirs

Small Tin Tank (75cm ³) 5/16" push-on	MFR1
Medium Plastic Tank (185cm ³) 5/16" push-on	MFR2
Large Plastic Tank (210cm ³) 5/16" push-on	MFR3

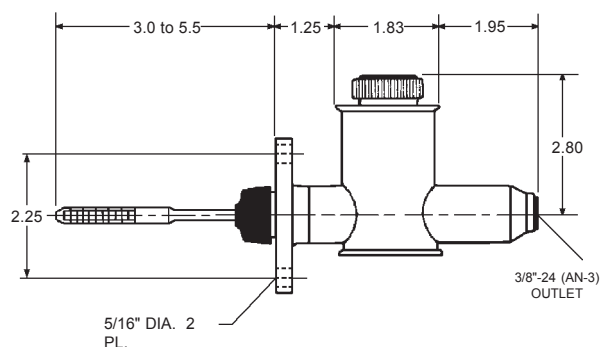
Girling Remote Master Cylinder



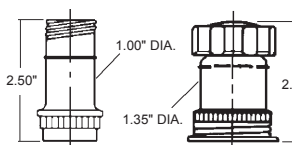
Girling Master Cylinder



Lockheed Master Cylinder

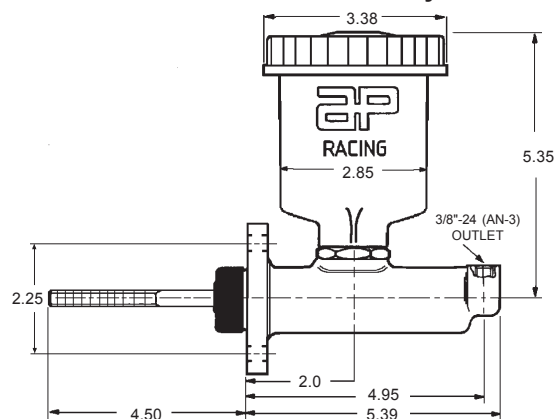


Lockheed Extension

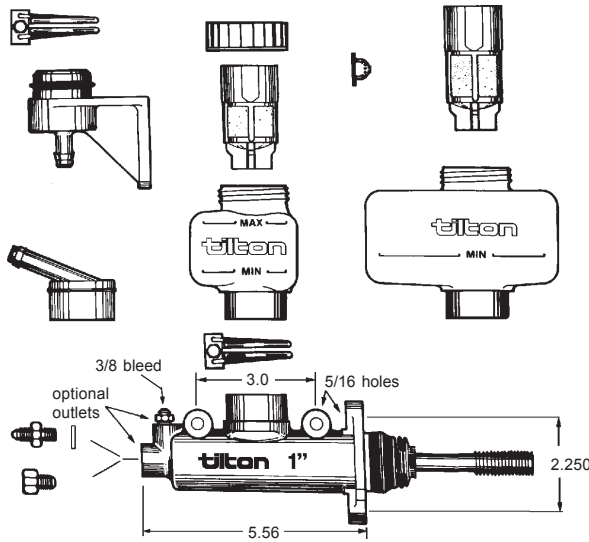


Girling Extension

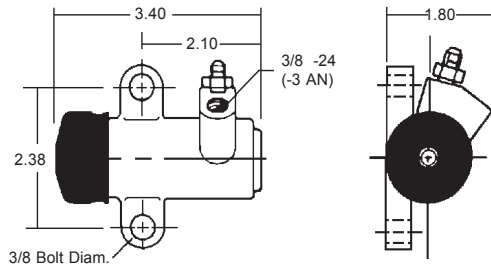
Lockheed 4600 Master Cylinder



Tilton Master Cylinder Kit



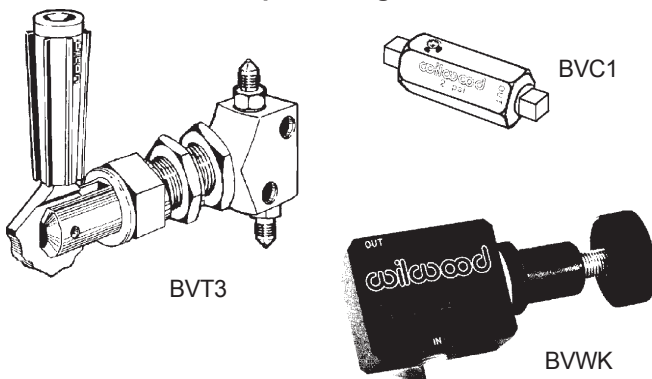
Girling Slave Cylinder



Racing Brake Fluid



Brake Proportioning Valves



Master Cylinder Kits

Master Cylinder Tilton Kit .625"	MCT62
Master Cylinder Tilton Kit .70"	MCT70
Master Cylinder Tilton Kit .75"	MCT75
Master Cylinder Tilton Kit .875"	MCT87
Master Cylinder Tilton Kit 1.0"	MCT10
Master Cylinder Tilton Kit 1.125"	MCT125

Disk & Caliper Components

FF1600 AP Brake Disk	F425
FF1600 AP Brake Disk- inboard rear	F425R
FF2000 Front or Rear Brake Disk-	call with application
Caliper Small Lockheed LD19 Left	BC19L
Caliper Small Lockheed LD19 Right	BC19R
Caliper Large Lockheed LD20 Left	BC20L
Caliper Large Lockheed LD20 Right	BC20R
Caliper Piston Small Lockheed LD19 (stainless)	BCP19
Caliper Repair Kit ATE Large	RKCA2
Caliper Repair Kit ATE Small	RKCA3
Caliper Repair Kit Girling Small (12SP)	RKCG12
Caliper Repair Kit Girling Large (14LF)	RKCG14
Caliper Repair Kit Lockheed Small (LD19)	RKCL19
Caliper Repair Kit Lockheed Large (LD20)	RKCL20
Caliper Repair Kit Lockheed 4 Piston S2000	RKCL65
Cross Feed Seals (LD19)	RK19S

Slave Cylinders

Slave Cylinder .875"	WC39
Slave Cylinder Universal	WC39U
Slave Cylinder Repair Kit .875"	RKS87

Racing Brake Fluid

Brake Fluid AP Competition (16.9oz. 500ml.)	MC550
Brake Fluid Wilwood 570 (12oz. 355ml.)	MC570
Brake Fluid Wilwood 570 (6 Pack)	MC57-6
Brake Fluid Wilwood 570 (24 Case)	MC57-C

Proportioning Valves

Tilton Prop. Valve AN-3	BVT3
Tilton Prop Valve AN-4	BVT4
Tilton Prop Valve 10mm x 1.0	BVT1
Wilwood Prop. Valve (lever style) 1/8" -27 NPT	BVWL
Wilwood Prop. Valve (knob style) 1/8" -27 NPT	BVWK
Wilwood Brake Check Valve (one way)	BCV1
Wilwood Brake Pressure Valve (2 psi)	BPV2
Wilwood Brake Pressure Valve (10 psi)	BPV10

WA Parts List

WA Parts List	illustration	part#	comments
Dog Clutch Ring	A	W12B	narrow stlye lug
1st Input Gear	B		see gear sets
1st Pinion Gear	C		see gear sets
2nd Input Gear	D		see gear sets
2nd Pinion Gear	E		see gear sets
3rd Input Gear	F		see gear sets
3rd Pinion Gear	G		see gear sets
4th Input Gear	H		see gear sets
4th Pinion Gear	K		see gear sets
Rear Cover	1	WA1	
Inter Lock Plug	10	WA10	
Stud (short)	12	WA12	
Stud (long)	13	WA13	
Selector Detent Spring	14	WA14	
Detent Ball	15	WA15	
Detent Plug	16	WA16	
Bushing	19	WA19	
1st Rev. Stop Plunger	2	WA2	
Selector Finger	20	WA20	
1st-Rev. Shift Selector	21	WA21	
2nd-3rd Shift Selector	22	WA22	
4th-5th Shift Selector	23	WA23	
Interlock	24	WA24	
1st-Rev. Shift Fork	25	WA25	reverse on 4 speed
Pinch Bolt	26	WA26	
2nd-3rd Shift Fork	27	WA27	1st-2nd on 4 speed
4th-5th Shift Fork	28	WA28	3rd-4th on 4 speed
Washer	29	WA29	
Plunger Spring	3	WA3	
Nut	30	WA30	
Space Washer	31	WA31	
Rear Pinion Bearing	32	WA32	
Layshaft Washer		WA33	
Pinion Nut	34	WA34	left hand thread



BAT can supply both Hewland and Webster gears, replacement parts, and components for the Hewland (MK9) VW based transaxles used in Formula Ford 1600's and 2000's.



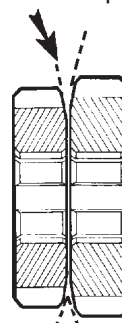
illustration

part#

comments

Layshaft Bearing	35	WA35	
Lock Tab Washer		WA36	
Layshaft Nut	37	WA37	coarse-right hand thread
Draw Bolt	38	WA38	
Cotter Pin	39	WA39	
Plug	4	WA4	
Hub Spacing Shim .005"	40	WA40	
Hub Spacing Shim .015"	40	WA40A	
Reverse Sliding Gear	41	WA41	for 4 speed
1st/Reverse Sliding Gear	41	WA41-4	for 5 speed
1st Reverse Hub	42	WA42	
Hub Spacer	42A	WA42A	needed for 4 speed
2nd-3rd Hub	48	WA48	
Needle Bearing	52	WA52	
4th-5th Hub	54	WA54	2 pieces
4th-5th Thrust Washer	57	WA57	
Layshaft 4 speed	58	WA58-4	
Layshaft w/fixed Low Gear	58	CALL	optional ratios available
Reverse Driver 4 speed	59	WA59	no spacer required
Layshaft Spacer	61	WA61	
Layshaft Thrust Washer	66	WA66	
Bearing Carrier	7	WA7	
Pilot Bearing Retaining Bolt	8	WA8	

NOTE: Arrow indicates gear bevel position



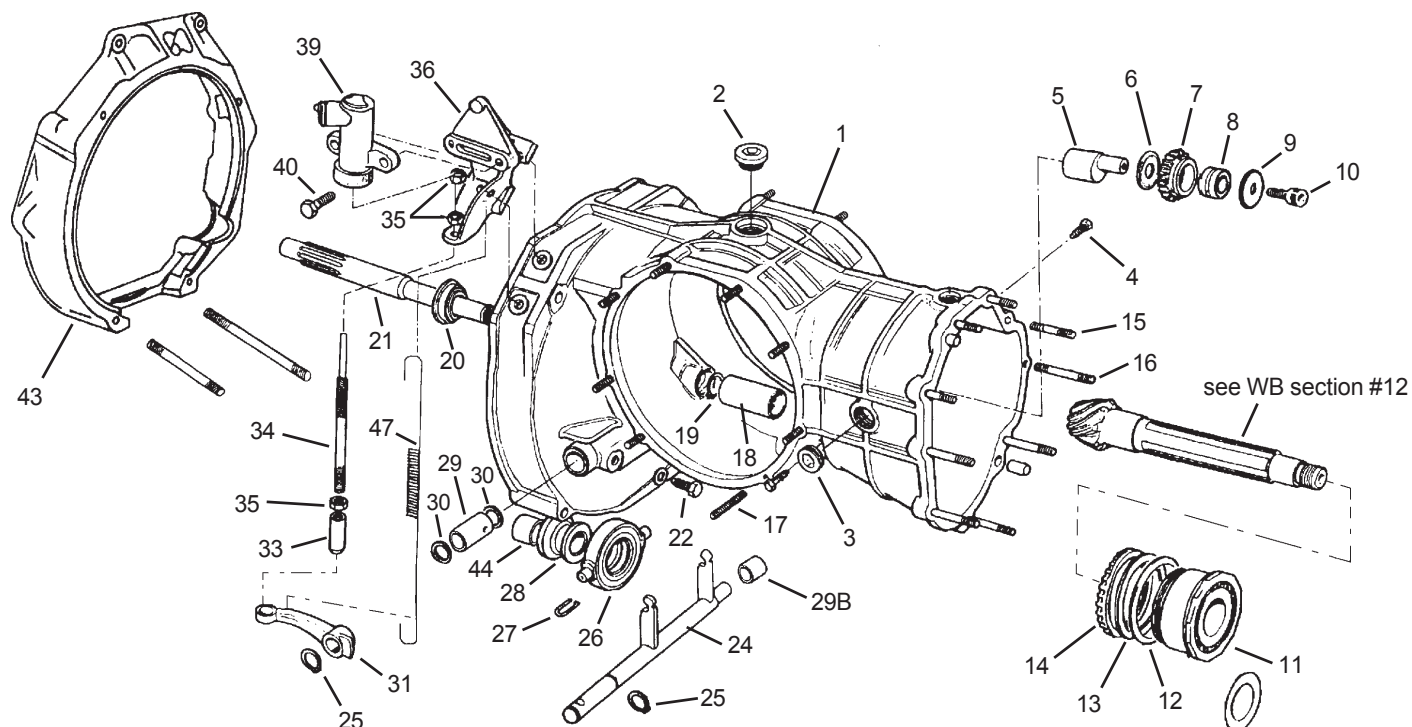
WC Parts View**Hewland Mk6-Mk9 Transaxle****WC Parts List**

	illustration	part#		
Main Case	1	WC1	Bobbin S2000	WC28S2
Bolt-Idler Bearing	10	WC10	Bobbin S2 (F3 Clutch)	WC28S2R
Pinion Bearing	11	WC11	Cross Shaft Bushing 20mm	WC29
Nut Backing Washer	13	WC13	Cross Shaft Bush 20mm (small)	WC29B
Spanner Nut	14	WC14	Cross Shaft Bush 16mm (small)	WC29C
Short Stud- Bearing Carrier	15	WC15	Oil Filler Plug	WC3
Long Stud- Bearing Carrier	16	WC16	Seal- 16mm	WC30-16
Stud Side Plate	17	WC17	Seal- 20mm	WC30-20
Coupling Sleeve	18	WC18	Lever	WC31
Circlip Clutch Shaft	19	WC19	Snap Ring	WC32
Oil Filler Plug	2	WC2	Push Rod End	WC33
Oil Filler Plug (magnetic)	2	WC2A	Pushrod	WC34
Oil Seal		WC20	Jam Nut	WC35
Input Shaft FF Std. (11 9/16")	21	WC21	Slave Cylinder Bracket	WC36
Input Shaft FF Long (12 11/16")	21	WC21L	Slave Cylinder .875"	WC39
Input Shaft Swift DB1 (17 1/8")		CALL	Slave Cylinder Repair Kit	RKS87
Input Shaft S2000 (11 9/16")	21	WC21S2	Gear Box Adaptor Webster	WC43
Input Shaft Swift 2000 (17 1/8")		CALL	Gear Box Adaptor Titan	WC43T
Input Shaft Super Vee		WC21SV	Bobbin Bushing FF	WC44
Retaining Bolt	22	WC22	Bobbin Bushing FF (F3 Clutch)	WC44F3
Washer	23	WC23	Bobbin Bushing S2	WC44S2
Cross Shaft 20mm	24	WC24	Bobbin Bushing S2 (F3 Clutch)	WC44S2R
Cross Shaft 16mm (early)		WC24A	Layshaft Front Bearing	WC45
Snap Ring	25	WC25	Clutch Return Spring	WC46
Clutch Release Bearing	26	WC26	Reverse Idler Spigot	WC5
Retaining Clip	27	WC27	Back Washer	WC6
Bobbin FF	28	WC28	Reverse Idler Gear	WC7-4
Bobbin FF (F3 Clutch)		WC28F3	Bearing	WC8
			Front Washer	WC9

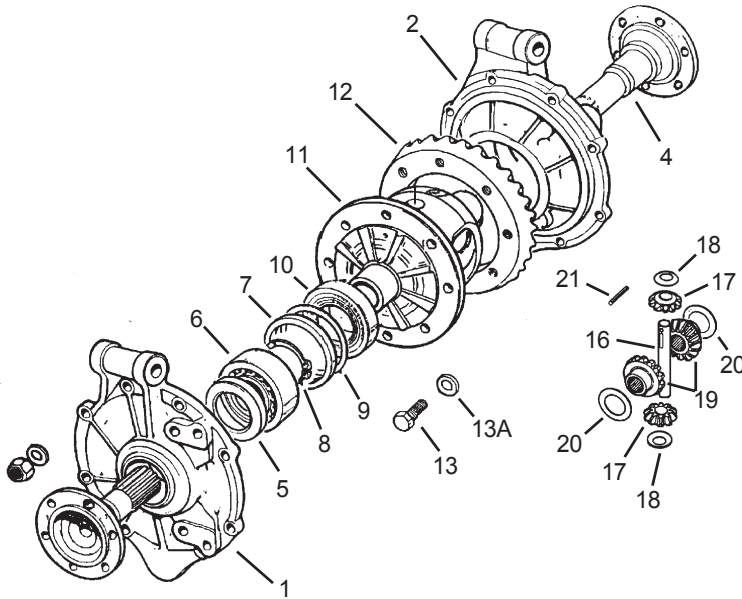
WB Parts View**Hewland Mk8-Mk9 Transaxle****WB Parts List**

	illustration	part#
Side Plate MK9 RH	1	WB1
Side Plate MK9 LH	2	WB2
Stub Axle MK9 RH	3	WB3
Stub Axle MK9 LH	4	WB4
Stub Axle Seal	5	WB5
Stub Axle Bearing	6	WB6
Stub Axle Circlip	8	WB8
Differential MK8-9	11	WB11
Ring & Pinion 8:31	12	W831H
Ring & Pinion 9:31		W931H
Ring & Pinion 10:31		W1031H
Ring Gear Bolt	13	WB13
Washer	13A	WA31
Nut-Side Cover	14	WB14
Washer	15	WB15
Cross Shaft	16	WB16
Spider Gear	17	WB17
Dished Washer	18	WB18
Side Gear	19	WB19
Flat Washer	20	WB20
Roll Pin	21	WB21

Gearbox Tech Info

The Mark 4-9 Hewland and Webster gearboxes are quite rugged for their size. If properly set up the unit should be completely trouble free when used with a FF1600. These gearboxes also perform well in S2000 service, but because of the extra torque generated by the 2000 engine some extra care is necessary.

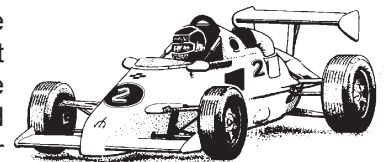
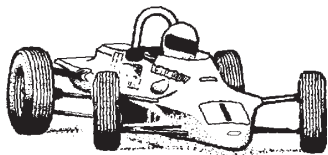
Since the gearbox does not bolt directly to the engine, but to an adaptor which attaches to the engine, a spacer or "bobbin" is used to correctly space the clutch release bearing. Most cars use a standard bellhousing adaptor which is 2.15" thick. Some cars use special bellhousing adaptors which are thicker and thus a special long input shaft and long bobbin is required. Racing type F-3 clutches will also require a longer bobbin because of pressure plate spring height differences. We offer these F3 type bobbins in the proper lengths for both FF1600 and FF2000/S2000 applications.

Four and five speed versions of the gearbox use the same basic gears for all gear positions except first gear on a five speed version. A four speed is actually using 2nd through 5th as 1st through 4th with a spacer located where first gear normally is. A four speed can be converted back to five speed configuration by replacing the 1st gear hub, sliding gear and 1st gear set.

We only advise using a lubricant that has an (EP) additive, the Torco synthetic gear oil listed elsewhere in this catalog is an excellent choice. The (EP) additive is necessary to protect the ring and pinion from the severe side loads encountered in racing gearboxes.

As far as wear goes, if the face of the dogs on either the dog rings or gears themselves become rounded over the corners more than 1/3 of the depth of the dog, that component should be replaced to prevent jumping out of gear. On 2000 cars pay particular attention to the shape and wear pattern on the gear teeth on first and second gears. If the gear tooth is no longer a nice involute shape and is beginning to flatten out then the gear must be immediately replaced.

Another sign of trouble is if the gearbox is excessively noisy. Because of the straight cut gears the gearbox is certainly not quiet, however a siren like sound that can be heard over the engine as a car powers past the pits is a sure sign of something amiss. Excessive preload on the rear carrier bearings can lead to such an occurrence.



Mk8-Mk9 Gear Sets

	<i>part#</i>	<i>ratio</i>
13:38 1st Gear Set*	W1338	2.923
14:37 1st Gear Set*	W1437	2.642
14:38 1st Gear Set*	W1438	2.714
15:36 1st Gear Set*	W1536	2.400

* used only in 5 speed configuration

15:37 Gear Set	W1537	2.467
15:36 Gear Set	W1536	2.400
16:36 Gear Set	W1636	2.250
16:35 Gear Set	W1635	2.188
16:34 Gear Set	W1634	2.125
17:35 Gear Set	W1735	2.059
17:34 Gear Set	W1734	2.000
17:33 Gear Set	W1733	1.941
18:34 Gear Set	W1834	1.889
18:33 Gear Set	W1833	1.833
18:32 Gear Set	W1832	1.778
19:33 Gear Set	W1933	1.737
19:32 Gear Set	W1932	1.684
19:31 Gear Set	W1931	1.631
20:32 Gear Set	W2032	1.600
20:31 Gear Set	W2031	1.550
20:30 Gear Set	W2030	1.500
21:31 Gear Set	W2131	1.476
21:30 Gear Set	W2130	1.429
21:29 Gear Set	W2129	1.381
22:30 Gear Set	W2230	1.364
22:29 Gear Set	W2229	1.318
22:28 Gear Set	W2228	1.273
23:29 Gear Set	W2329	1.261
23:28 Gear Set	W2328	1.217



We offer the new Webster Super Duty Gears which are uprated to reduce the chance of gear damage in high (torque) stress situations. These gears incorporate a new advanced tooth design featuring: shaving, double tapering, crowning, and center grinding on the pitch circle for positive engagement. All this combines to help eliminate stress concentrations caused by off-center gear tooth loading, and offers a much stronger gear more suitable for 2000, Olds, and Cosworth powered applications.

Mk8-Mk9 Gear Sets Continued...

	<i>part#</i>	<i>ratio</i>
21:25 Gear Set	W2125	1.190
23:27 Gear Set	W2327	1.174
24:28 Gear Set	W2428	1.167
21:24 Gear Set	W2124	1.143
24:27 Gear Set	W2427	1.125
24:26 Gear Set	W2426	1.083
25:27 Gear Set	W2527	1.080
25:26 Gear Set	W2526	1.083
26:26 Gear Set	W2626	1.000
26:25 Gear Set	W2625	.0962
27:25 Gear Set	W2725	0.926
27:24 Gear Set	W2724	0.889

Staffs Gear Sets

Staffs Type 2nd Gear Sets

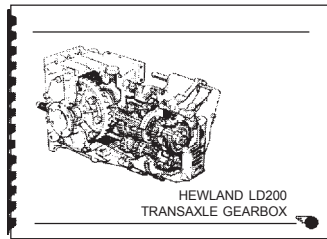
	<i>part#</i>	<i>ratio</i>
13:27 Gear Set	W2S1327	2.077
14:26 Gear Set	W2S1426	1.857
14:27 Gear Set	W2S1427	1.929
14:28 Gear Set	W2S1428	2.000
14:30 Gear Set	W2S1430	2.142
15:27 Gear Set	W2S1527	1.800

Staffs Type 3rd-5th Gear Sets

14:26 Gear Set	W3S1426	1.857
14:27 Gear Set	W3S1427	1.929
15:25 Gear Set	W3S1525	1.667
15:26 Gear Set	W3S1526	1.733
15:27 Gear Set	W3S1527	1.800
16:24 Gear Set	W3S1624	1.500
16:25 Gear Set	W3S1625	1.563

Staffs 3rd-5th Gear Sets Continued...

	<i>part#</i>	<i>ratio</i>
16:26 Gear Set	W3S1626	1.625
17:23 Gear Set	W3S1723	1.353
17:24 Gear Set	W3S1724	1.411
17:25 Gear Set	W3S1725	1.471
18:22 Gear Set	W3S1822	1.222
18:24 Gear Set	W3S1824	1.333
19:22 Gear Set	W3S1922	1.158
19:23 Gear Set	W3S1923	1.211
20:25 Gear Set	W3S2025	1.250
21:24 Gear Set	W3S2124	1.143
21:25 Gear Set	W3S2125	1.190
24:26 Gear Set	W3S2426	1.083
24:27 Gear Set	W3S2427	1.125
25:26 Gear Set	W3S2526	1.040



LD 200 Shop Manual

Shop manuals for the LD200 are now available. Everything you need to know about the LD200 transmission under one cover.

F30B



Torco Gear Oil

Torco synthetic gear oils are designed to withstand tremendous heat and provide extreme anti-score protection for high torque loading conditions. Torco 75w/90 gear oil is GL-6 rated and includes extreme pressure and limited slip additives. Torco synthetic gear oil is also compatible with seals and will not cause leaks. We highly recommend Torco for all racing gearbox applications.

C2S

LD200 Gear Sets

LD200 1st Gear Sets

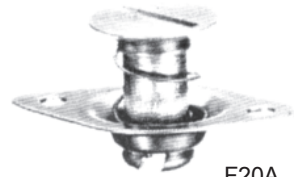
	<i>part#</i>	<i>ratio</i>
15:36 Gear Set	W1D1536	2.40
16:35 Gear Set	W1D1635	2.19
17:35 Gear Set	W1D1735	2.06
17:34 Gear Set	W1D1734	2.00
17:33 Gear Set	W1D1733	1.94
18:34 Gear Set	W1D1834	1.98
18:33 Gear Set	W1D1833	1.83
18:32 Gear Set	W1D1832	1.78
19:33 Gear Set	W1D1933	1.74
19:32 Gear Set	W1D1932	1.68
19:31 Gear Set	W1D1931	1.63
20:32 Gear Set	W1D2032	1.60
20:31 Gear Set	W1D2031	1.55

LD200 2nd-4th Gear Sets

16:35 Gear Set	W2D1635	2.19
16:34 Gear Set	W2D1634	2.13
17:35 Gear Set	W2D1735	2.06
17:34 Gear Set	W2D1734	2.00
17:33 Gear Set	W2D1733	1.94
18:34 Gear Set	W2D1834	1.89
18:33 Gear Set	W2D1833	1.83
19:33 Gear Set	W2D1933	1.78
19:31 Gear Set	W2D1931	1.63
20:32 Gear Set	W2D2032	1.60
20:31 Gear Set	W2D2031	1.55
20:30 Gear Set	W2D2030	1.50
21:31 Gear Set	W2D2131	1.48
21:30 Gear Set	W2D2130	1.43
21:29 Gear Set	W2D2129	1.38
22:30 Gear Set	W2D2230	1.50
22:29 Gear Set	W2D2229	1.32
22:28 Gear Set	W2D2228	1.27
23:29 Gear Set	W2D2329	1.26
23:28 Gear Set	W2D2328	1.22
21:25 Gear Set	W2D2125	1.19
23:27 Gear Set	W2D2327	1.17
24:28 Gear Set	W2D2428	1.17
21:24 Gear Set	W2D2124	1.14
24:27 Gear Set	W2D2427	1.13
24:26 Gear Set	W2D2426	1.08
25:27 Gear Set	W2D2527	1.08
23:24 Gear Set	W2D2324	1.04

Body Fasteners

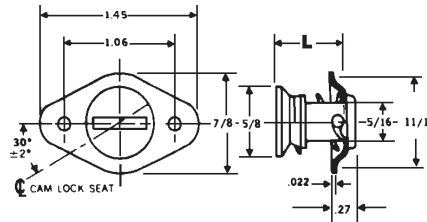
Terry Body Springs w/hooks (2 per set)	F21A
Toggle Latch Adjustable w/hook	F21B
Dzus Fastener 40	F20A40
Dzus Fastener 45	F20A45
Dzus Fastener 50	F20A50
Dzus Fastener 55	F20A55
Dzus Fastener 60	F20A60
Dzus Fastener 65	F20A65
Dzus Fastener 70	F20A70
Dzus Fastener 75	F20A75
Dzus Fastener 80	F20A80
Dzus Fastener 85	F20A85
Dzus Spring 200	F20AS1
Dzus Spring 250	F20AS2



F20A



F20AS1



F21A

Books, Manuals & Videos

Haynes Weber Carburetor Manual C205

(theory & operation, maintenance & tuning, detailed overhaul procedures covering Weber & Zenith carbs)

Rebuild & Tune Kent Crossflow Engines F202

(covers the teardown and buildup of the Kent series engines- good info, specs, drawings etc.)

Build & Maintain FF1600 Engines F203

(building & maintaining FF1600 engines A to Z, lots of tips, specs, data makes this book a must have)

Haynes Escort R/S Mexico Manual F204

(chapters on 2000 OHC and BDA engines, teardown, rebuild, engine specs., torques, diagrams- also covers the remaining systems of the European R/S Escort)

Engine Building & Maintenance - Video F206

(video segments covering installation of new engines- first time start up procedures, tuning 1600 & 2000 engines and keeping them running at their best, hosted by engine builder Jay Ivey)

Rebuild & Tune X Flow & Pinto 2.0L Engines F209

(covers the teardown and buildup of the Kent 1600 and Pinto 2000 engines- good info, specs, drawings etc.)

Hewland Mk8/9 Manual F30

Hewland LD200 Manual F30-200

Power Tune Ford SOHC & DOHC 2000 Engines S202

(covers the teardown and buildup and tuning on the 2000 sohc & dohc (YB) type engines- good info, specs, drawings etc.)

How To Modify Ford SOHC Engines S204

(the bible on modifying the 2.0L Pinto engine by David Vizzard, a must for understanding what works and how to do it)

BAT Items

BAT Tee Shirts- Haynes cotton sweatshirt grey shirts with BAT logo (similar to rear cover) - sizes large, x-large C202

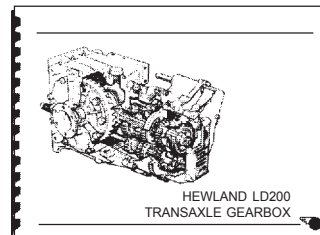
BAT "Fast Ford" Stickers (5" round)- free on request



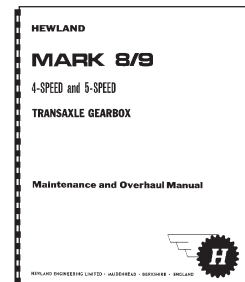
C205



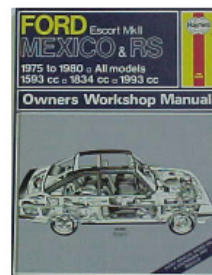
F202



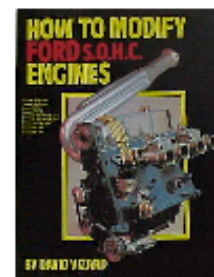
F30-200



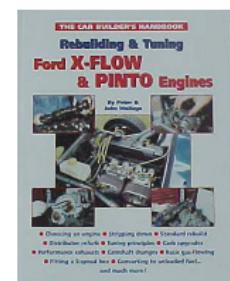
F30



F204



S204



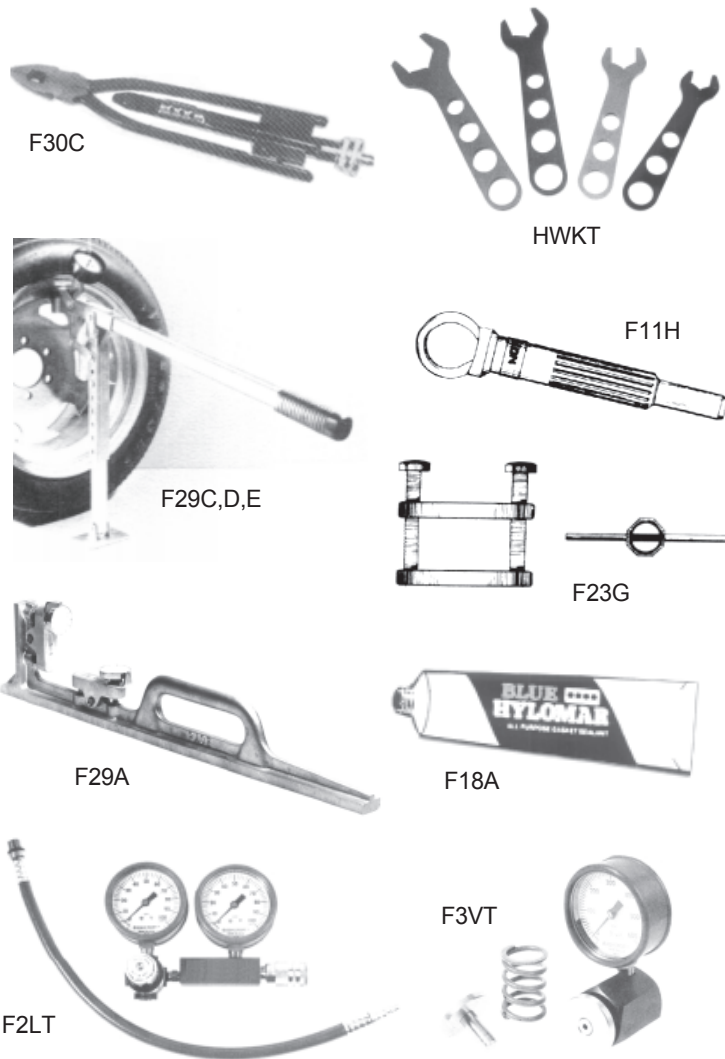
F209



S202



F203

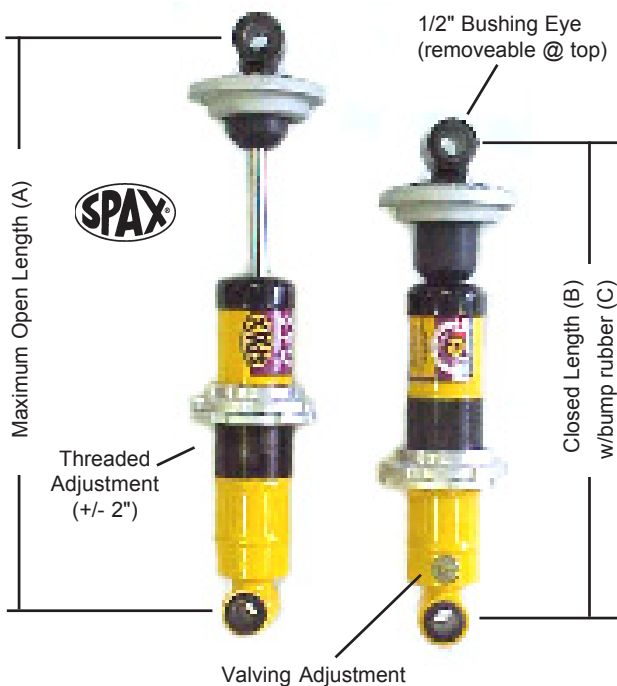


Tools & Chemicals

Starter Bendix Compressor	F23G
Safety Wire Pliers	F30C
Lock Wire Spool .032"	F30B
Hose End Wrench Set (-6, -8, -10, -12 -16AN)	HWST
Valve Spring Tester Kit*	F3VT
*includes: 300# gauge w/drill press flange	
Dual Gauge Leakdown Tester	F2LT
Tire Gauge 2 1/2" 0-60 psi	F30E
Pit Board Set w/numeral cards	F30PB
Camber Gauge	F29A
Corner Weight Checker 0-400#	F29C
Corner Weight Checker 0-600#	F29E
Corner Weight Checker 0-1000#	F29D
Spring Perch "C" Spanner/Wrench	F414C
Quick Lift Formula Car Jack	F29Q
Clutch Alignment Tool 1600 OHV	F11H
Clutch Alignment Tool 2000 OHC	S11H
Hylomar Tube 100gr.	F18A
Hylomar Case (12 tube 100gr.)	F18B
Araldite Epoxy w/hardener	F18C
Copaslip Tube	F18D
Lobro CV Joint Lube	C550L
Torco Synthetic Gear Oil 75w/90	C2S
Torco Engine Assembly Lube (4 oz.)	C2L
Cam Lube (4 oz.)	C5CL
Air Filter Oil Spray (16 oz.)	F22DR

Spax Adjustable Gas Dampers

Many of the English manufactured formula cars (now "Vintage Formula Fords") came equipped with Spax shock absorbers. Spax competition dampers feature 12 position 1:1 to 1:6 bump to rebound adjustment, low viscosity damping fluid with internal hygroscopic gas cell, removable top eye/bushing with bump stop, anodized 2.25" aluminum spring perch & lock, electroplated housing/body. All units are factory tested & fully rebuildable. We have been stocking three of the most popular formula car applications (see specifications below). All are designed for use with 2.25" coil springs and have a perch adjustment of + or - 2". The main difference between them is the open length (A), closed length (B), and closed length with bump stop (C) specification.

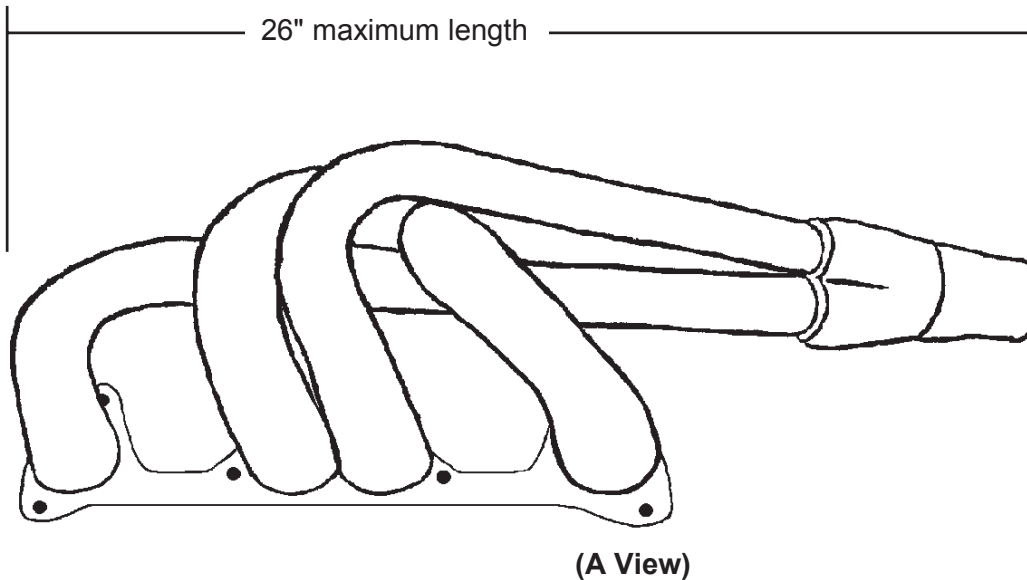


part# **FG451** (A) 12.5" (B) 8.25" (C) 9.75"
(for use with 8.5" spring)

part# **FG453** (A) 13.25" (B) 8.75" (C) 10.75"
(for use with 9" spring)

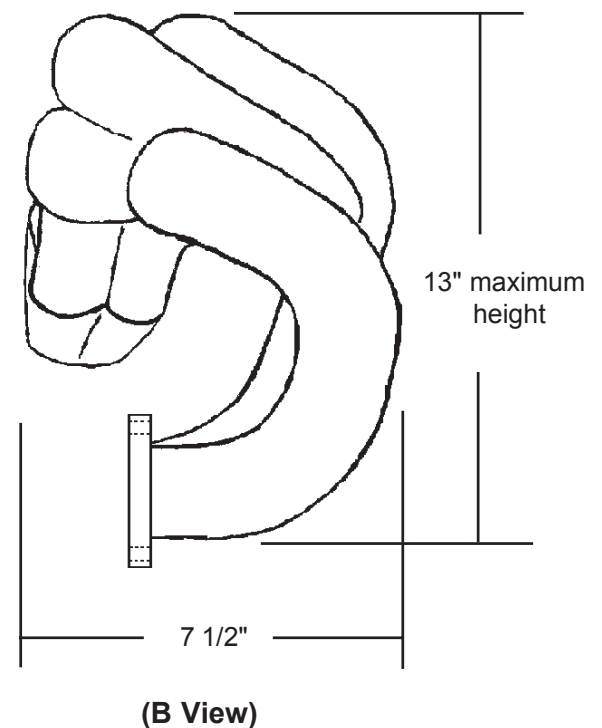
part# **FG452** (A) 14.25" (B) 9.25" (C) 11.00"
(for use with 10" spring)

F521U FF 1600 Header (upswept)



Other information:

- two piece design (header/collector) & separate tail section
- header incorporates 1.5" mandrel bent tubing
- primary tube lengths are 27" (+ or - 1")
- one piece flange and gasket



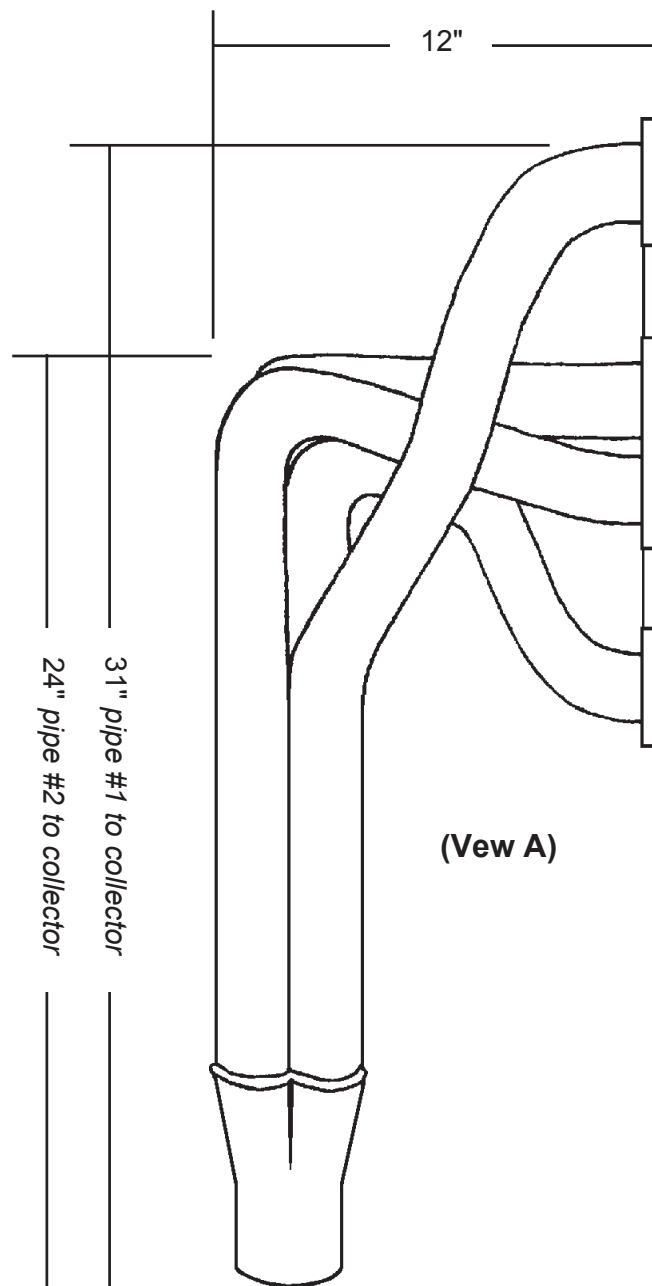
Header F521U (up-swept design)

Side (A View) header & tail

Front to Rear (B View)

F521CA FF 1600 Header (out & back incline)

- Other information:
- two piece design (header/ collector) & separate tail section
 - straight out and back design
 - tail pipe section can be cut for "tune" to length
 - header incorporates 1.50" mandrel bent tubing / slip fit 2" collector
 - primary tube lengths are 26" (+ or - 1")

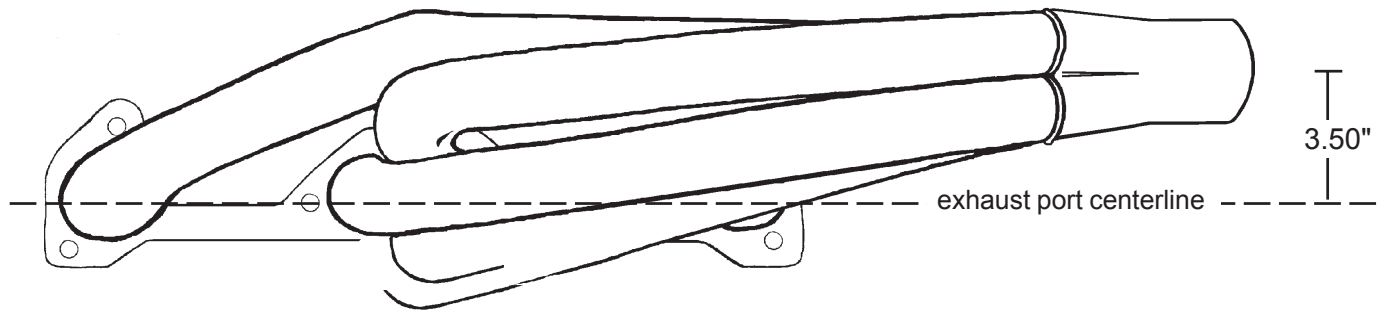


Header F521CA (out & back) incline

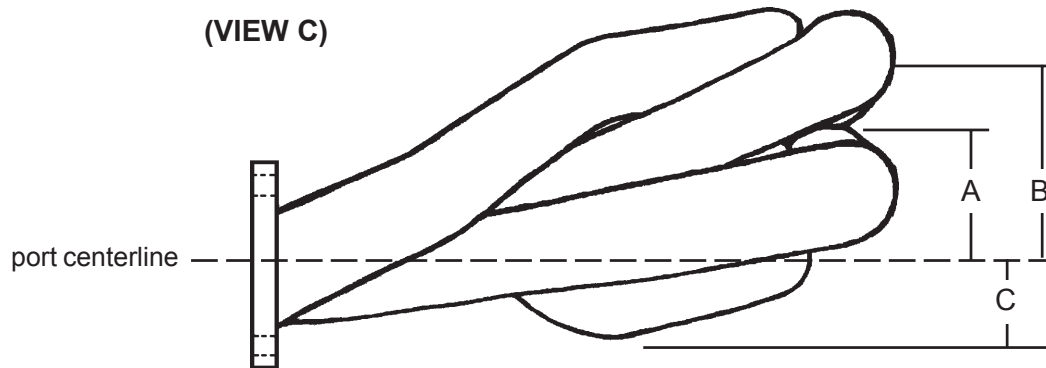
Top View (A) header & tail

F521CA FF 1600 Header (out & back incline)

(VIEW B)



(VIEW C)



(height above centerline forward of pipe 2) A = 2.5"

(height above centerline @ rear of collector) B = 3.5"

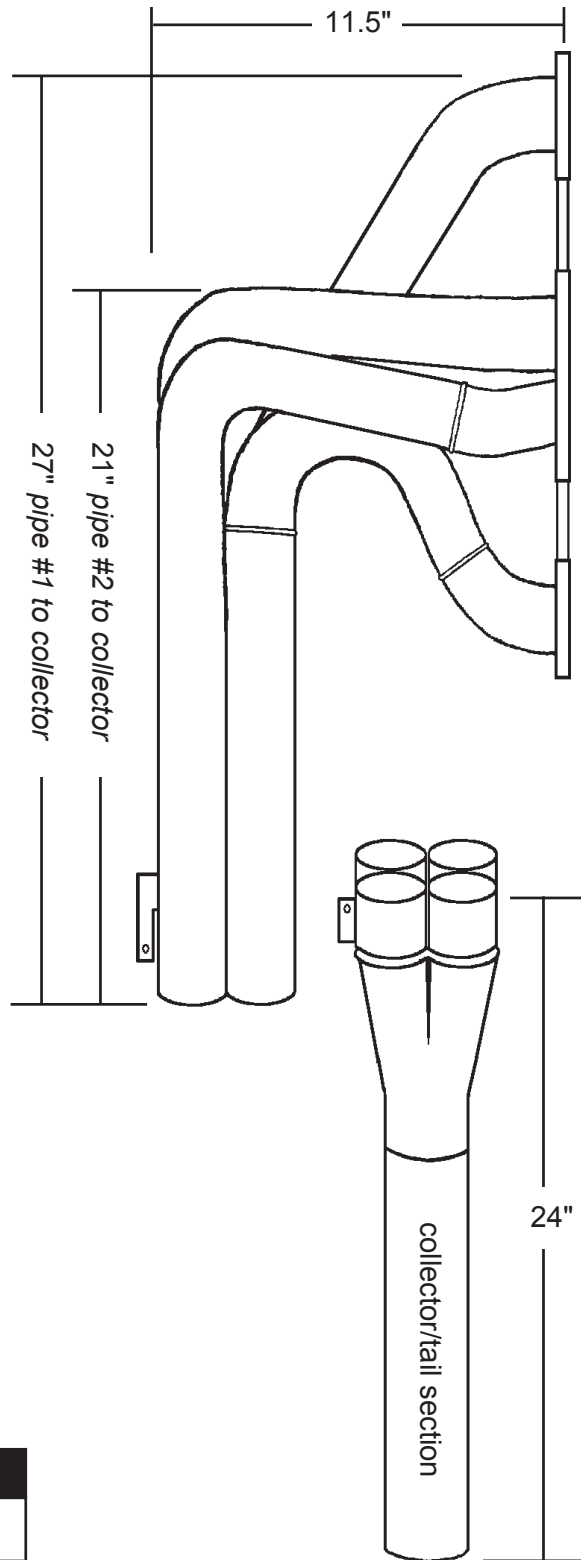
(measurement below centerline pipe 4) C = 1.75"

F521CA header (out & back) incline

Slide View (B) header

Front View (C) header

F521C FF 1600 Header (out & back) Crossle type



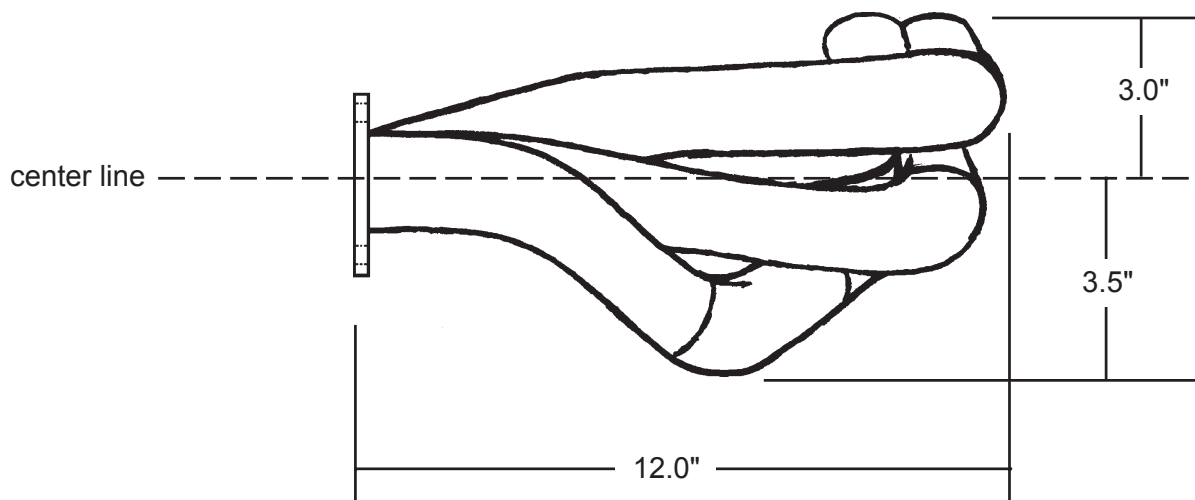
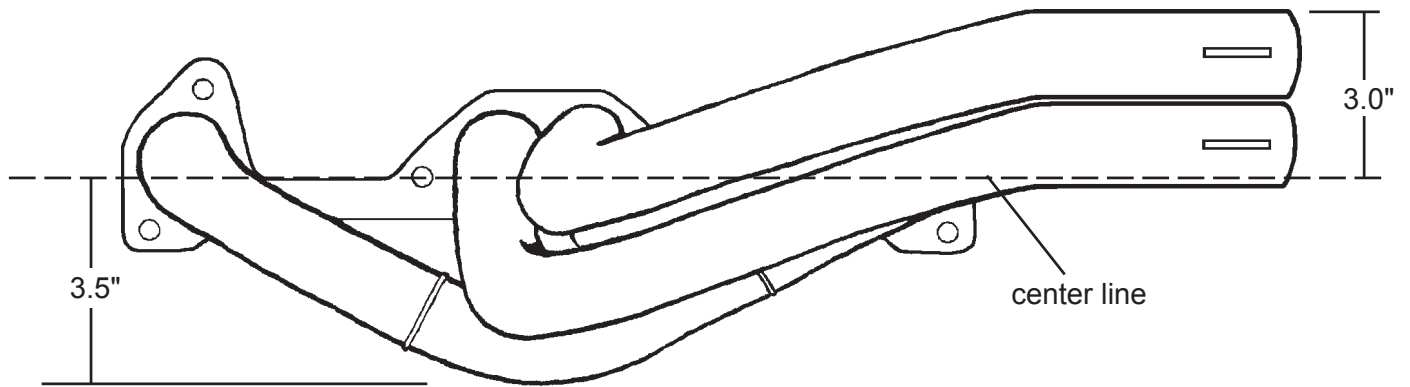
F521C information:

- straight out & back
O.E. for Crossle 30/40 series
(can be fitted to others)
- two piece design -
header with separate
collector/tail section
- header incorporates
1 1/2" mandrel bent tubing
- primary tube lengths are
28" (+ or - 1")
- one piece flange

F521C header (out & back) Crossle

Top View (A) header & tail

F521C *FF 1600 Header (out & back) Crossle type*

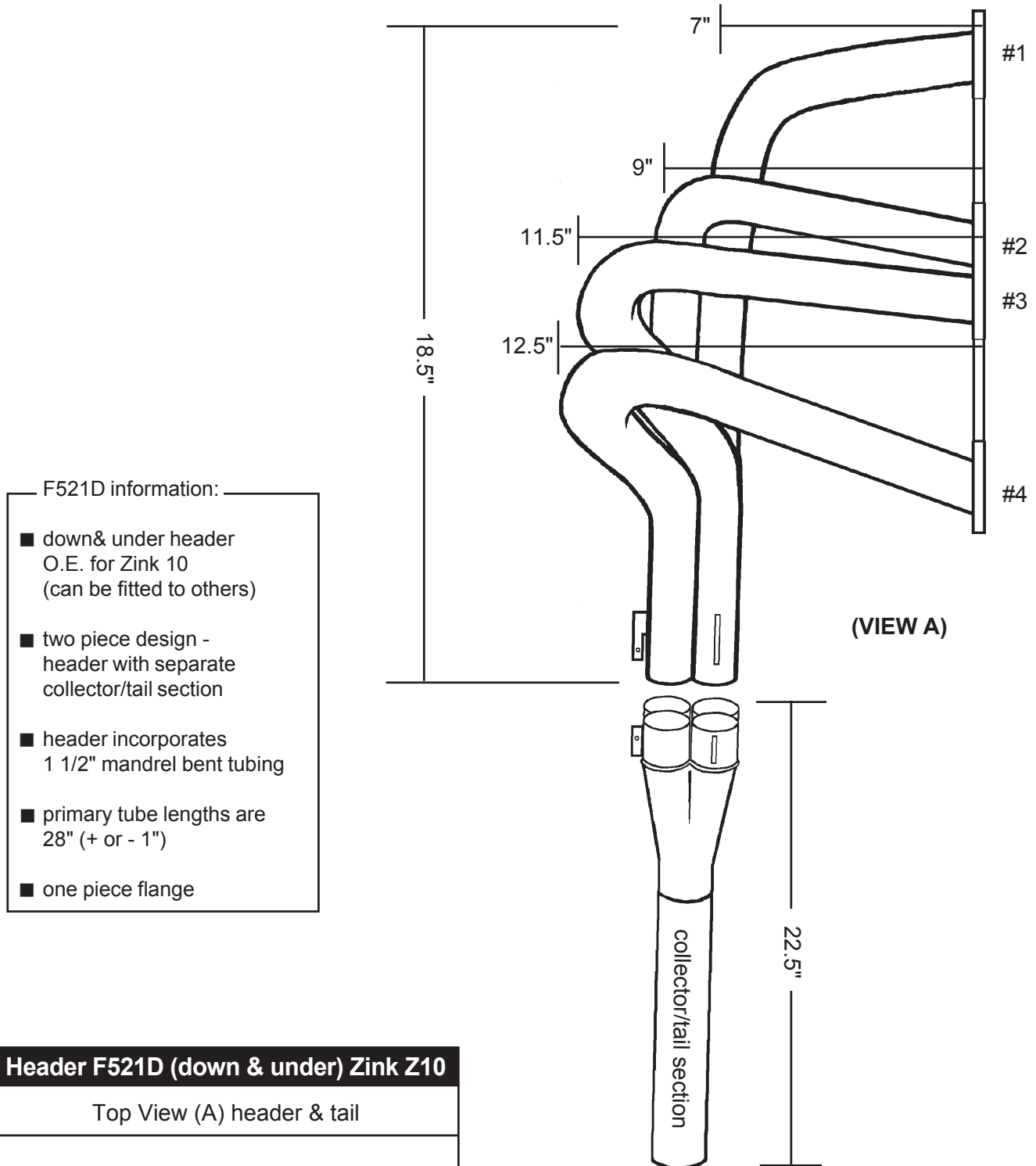


F521C header (out & back) Crossle

Side View (B) header

Front View (C) header

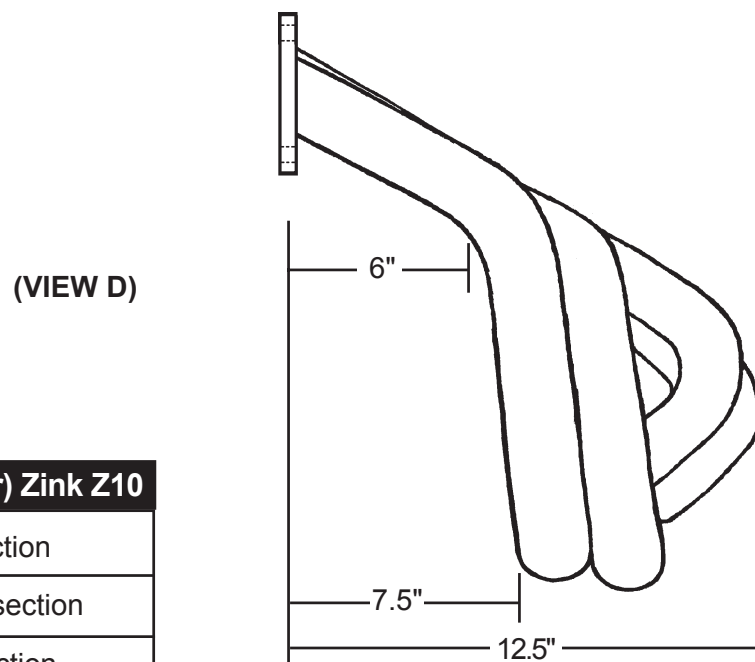
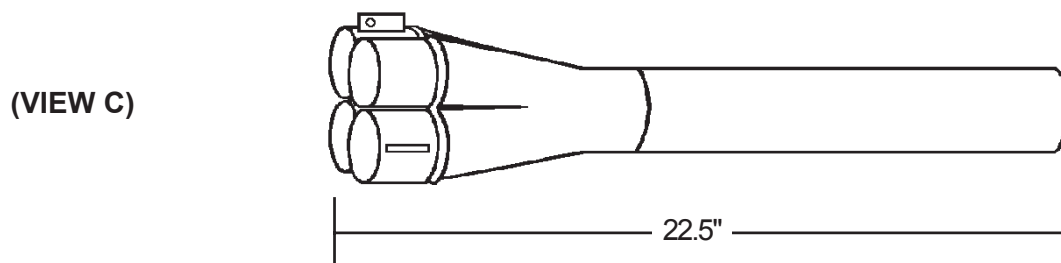
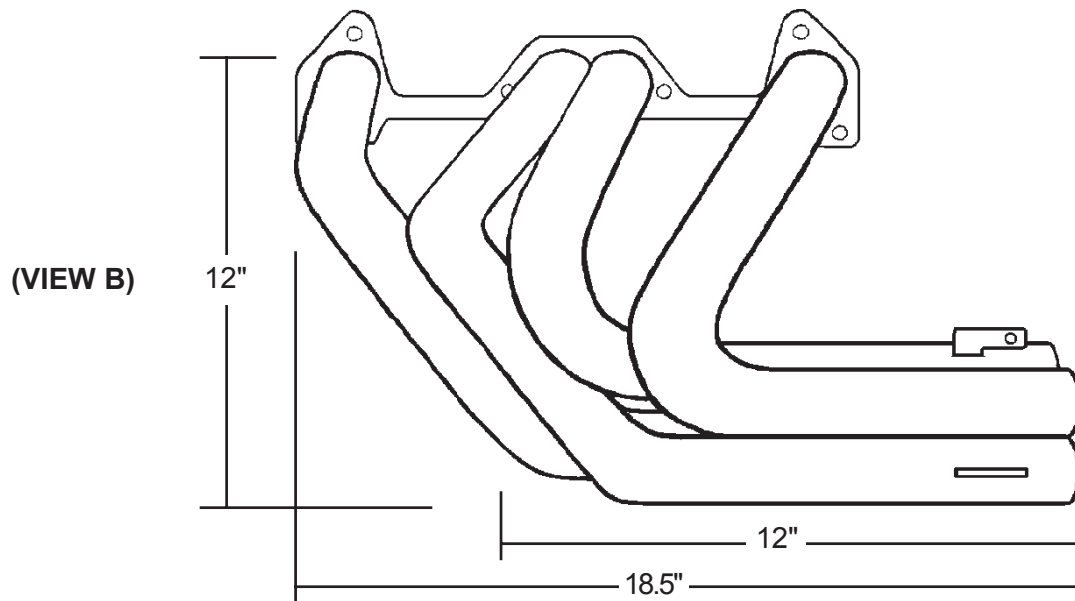
F521D FF 1600 Header (down & under) Zink Z10



Header F521D (down & under) Zink Z10

Top View (A) header & tail

F521D *FF 1600 Header (down & under) Zink Z10*



Header F521D (down & under) Zink Z10

Side View (B) header section

Side View (C) collector/tail section

Front View (D) header section

PAGE 3

F1A	DISC	F5EA8	13.25
F1AZ	DISC	F5EA9	13.25
F1C	DISC	F5G	44.50
FICZ	DISC	F2J	119.00
F2G	DISC	F51	26.00
F2GZ	DISC	F2L	4.50
F2FP	29.45	F2A	DISC
F2H	69.00	F2AL	945.00
F2HH	79.00	F2AZ	DISC
F2GD	5.50	F20	3.40
F2K	4.95	F2D	6.50
F2S	40.00	F2E	4.45
F5N	725.00	F2F	21.20
F5NZ	DISC	F2FA	67.20
F5P	40.50	F604S	22.75
F50	4.50	F3HAE	21.25
F11F	18.00	F3HB	26.75
F61	124.50	F31AE	32.20
F5R	155.00	F31B	24.50
F5S	79.50	F3D	3.60
F5SA	74.50	F3E	15.25
F5T	DISC	F3G	0.60
F5TA	7.45	F3F	79.50
F11G	2.55	F3FC	2.85
F4BA	85.10	F3FE	32.00
F4BB	85.10	F3C	DISC
F4BD	DISC	F3B	DISC
F4BE	DISC	F3P	42.00
F4AB	DISC	F3SHD	135.00
F4ABH	99.00	F3A	155.00
F4T005	DISC	F8A	131.00
F4ACH	59.00	F8B	DISC
F4AD	69.00		
F4AE	99.00		
F4C	14.50		
F4CL	1.75		
F4E	95.00		
F4F	5.25		
F4FA	9.75		
F4FB	15.45		
F5A	395.00		
F5AB	DISC		
F5AK	379.00		
F5B	124.50		
F5BR	205.00		
F5BA	170.00		
F5BAR	259.00		

PAGE 4

F5C	9.50
F5F	65.00
F5H	9.80
F5J	42.00
F5K	6.45
F5E	3.25
F5EA1	13.25
F5EA2	13.25
F5EA3	13.25
F5EA4	13.25
F5EA5	13.25
F5EA6	13.25
F5EA7	13.25

PAGE 5

S1B	DISC
S1C	DISC
S2G	DISC
S2FP	19.00
S2H	73.05
S2HD	12.95
S2K	4.95
S2KS	134.50
F2GD	5.50
S2P	57.00
S2PS	17.95
S10A	99.50
S10P	15.25
S6A	74.50
S6AA	62.50
S5N	795.00
S5NU	DISC
S50	7.20
S5OS	4.60
S5P	35.75
F11F	8.25
S61	99.50
S5R	345.00
S5RU	DISC
F5S	74.50
S5S	89.00
S5T	5.00
S5TS	47.40

S5B2F	CALL
S4B5A	92.75
S4AB	82.00
S4ABF	85.50
S4AC	48.80
S4T.005	189.00
S4C	17.50
S4E	33.80
S4EF	100.00
S4ECS	450.00
S4F	3.49
S4FA	3.90
S4FN	1.75
S4FS	59.50
S5D	235.00
S5JD	DISC
S5DB	DISC
S5DC	22.50
S2AE	695.00
S2AZ	DISC
S2AP	0.55
S2F	39.00
S2DS	129.00
S2DT	6.45
S604S	59.95
S604SL	69.95

PAGE 6

S5A	249.00
S5AL	395.00
S5J	19.00
S5ST	55.00
S5B	25.00
S5BA	185.00
S5AC	5.05
S5AN	0.99
S5AS	6.65
S5ASP	6.15
S3HA	24.50
S31A	31.50
S3D	1.75
S3E	4.95
S3F	DISC
S3FA	159.00
S3FC	2.50
S5EA1	14.50
S5EA2	14.50
S5EA3	14.50
S5EA4	14.50
S5EA5	14.50
S5F	62.50
S5FT	12.15
S5G	35.65
S5GA	64.75
S51	70.95
S51B	9.35
S51S	1.99
S8A	279.00
S8AU	95.00
F16A	115.50
F16B10	115.50
F16B20	115.50

F16B30	115.50
F16B40	115.50
F16B50	115.50
F16DSD	115.50
F16E10	115.05
F16E20	115.50
F16E30	115.50
F16F	115.50
F16G10	115.50
F16G20	115.50
F16G30	115.50
F16H	79.50
F16HA	79.50
F16110	79.50
F16120	79.50
F16130	79.50
F16140	79.50
F16150	79.50
F16K	29.60
F16L10	N/A
F16L25	33.50
F16L5	33.50
F16L75	N/A
F16M	39.25
F16MA	52.50
F16N	29.80
S16A	99.50
S16B10	105.00
S16B20	105.00
S16B30	105.00
S16F	99.50
S16G10	99.50
S16H	79.00
S16110	99.00
S16120	99.00
S16130	99.00
S16K	29.75
S16M	40.35
S16MA	62.00

PAGE 8

F15A	124.50
F15B	83.25
F15CL	47.70
F15C	27.45
F15CC	25.50
F15D	51.50
C15D	39.75
F15DP	47.50
F15E	9.95
F15F	9.70
F15FA	21.45
C15G	9.45
F15H	22.75
F151	5.25
F15J	5.50
F15K	4.95
F15L	4.45
F15M	11.50
F15N	3.95

F15P	3.40
F15Q	39.25
F15R	17.45
F15S	6.05
F15T	5.05
F3G	0.60
F9SL	1.35
S15A	189.00
S15B	115.00
S15BA	68.50
S15C	26.25
S15CC	15.50
S15D	39.85
S15DF	28.50
S15E	8.95
S15EL	15.45
S15F	15.90
S15G	11.00
F15H	21.50
F151	5.25
S15J	6.75
S15M	14.40
S15N	1.90
S15P	2.95
S15R	9.45
F15Q	29.25
S15S	6.95
F3G	0.60
S9SL	0.85

PAGE 9

F10A	159.00
F10AA	74.25
S10A	99.50
S10AA	92.50
S10P	15.25
F10FE	DISC
F10FB	DISC
F7B	374.50
F7BP	DISC
F7V	DISC
F7C	DISC
F7E	65.00
F7F	39.00
F7FP	DISC
F71	22.20
F7J200	DISC
F7PD	13.35
F151	5.25
F7SL	59.95

PAGE 10

F7G125	5.45
F7G130	5.45
F7G135	5.45
F7G140	5.45
F7G145	5.45
F7G150	5.45
F7G155	5.45
F7G160	5.45

F7G165	5.45
F7G170	5.45
F7G175	5.45
F7G180	5.45
F7G185	5.45
F7G190	5.45
F7G195	5.45
F7G200	5.45
F7H135	5.45
F7H140	5.45
F7H145	5.45
F7H150	5.45
F7H155	5.45
F7H160	5.45
F7H165	5.45
F7H170	5.45
F7H175	5.45
F7H180	5.45
F7H185	5.45
F7H190	5.45
F7H195	5.45
F7H200	5.45
F7H205	5.45
F7H210	5.45
F7H215	5.45
F22A	DISC
F22B	DISC
F22D	DISC
F22E	DISC
F22C	DISC
F22G	DISC
F22P1	DISC
F22PE10	79.25
F22PE15	89.50
F22PE65	79.25
F22PE40	77.50
F22PE25	77.50
F22PB1	21.50
F22PB2	21.50
F22PB3	USE PB1

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F9AB	249.00
F9ABE	259.00
F9ABE2	DISC
F9B	19.45
F9BB	13.25
F9BBE	25.25
F9BBS	54.00
F9BL	35.50
F9E	13.50
F9EB	12.15
F9EBR	19.90
F9EL	13.98
F9EC	109.00
F9ECM	139.00
F9F	6.25
F9FB	10.20
F9FBR	39.90
F9FL	5.50

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F9G	8.35
F9GB	22.60
F9GL	3.65
F9C	59.00
F9CL	35.00
F9SL	2.25
F9HD	9.25
F9D	39.00
F9DB	48.50
F539	2.37
F9DA	55.00
C9M	59.75
C9U	DISC
F9H	169.00
F9HT	36.95
F9HTF	36.95
F9HTC	5.75
F9S	5.95
S9A	349.00
S9AE	424.49
F9BB	11.25
S9E	5.95
S9EC	99.50
F9FB	8.75
S9FE	7.65
S9G	15.40
S9C	37.75
S9SL	1.60
S9H	119.50
S9HL	24.25
S9HT	35.00
S9HTR	39.00
F9HTC	5.75
C9U	DISC

PAGE 12

F23A	99.00
F23B	99.00
F23C9	19.50
F23C10	19.50
F23G	11.95
F23F	135.00
F23SS	DISC
F23MS	225.00
F23MA	DISC
F27A	42.00
F27B	27.50
F27BH	19.00
F25ACR	79.50
F25BCR	79.50
F25C10	67.50
F25C16	67.50
F25DC	145.00
F25DCR	159.00
F25DCW	159.00
F25E	10.00
F25ER	13.50
ABS3STF	10.80
ABS345F	18.00
ABS390F	18.00

F25FM	12.75
F25FM5	12.75
F25MM	7.20
4NF2BS	5.30

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BSM6-6	4.75
ATGA2	27.50
ATGA2D	49.50
ATGA2H	49.50
ATGA21	49.50
ATGA2J	49.50
F26A	11.25
F26B	9.50
F26C	CALL
F26T	4.25
F26L	10.25
F26WS	29.95
F13A	285.00
F13AA	190.00
F13B66	DISC
F13B72	DISC
F13B84	DISC
F13B96	DISC
F13B108	DISC
F13C	7.50
F13D	92.50
F13E	35.00
F13F	79.50
F6A	62.00
F6B	142.50
S6A	74.50
S6AA	62.50
F6G	119.00
F6GA	119.00
F6H	116.80
F6HA	119.00
F6K	13.50
F6M	10.50
F6N	11.50
F61	124.50
S61	99.50

PAGE 14

F17A	94.50
F17B	189.00
F17C	32.95
F17D	17.95
F17E	32.00
F17F	87.50
F17FL	59.00
F17FB	9.95
F17FA	24.95
F11D	169.00
F11A	499.50
F11AA	409.00
F11AQ	395.00
F11E	99.50
F11B	99.50
F11BK	15.50

F11BQ	9.00
F11C	159.50
F11F	22.00
WC26	40.00
WC27	2.00
F11G	3.60
F11H	6.95
F11SPL	261.50
S11D	95.00
S11A	489.00
S11AA	409.00
S11AQ	395.00
S11E	89.00
S11EA	49.50
S11B	99.50
F11BK	15.50
F11BQ	9.00
F11F	22.00
WC26	40.00
WC27	2.00
F11G	2.55
S11H	6.95
S11SPL	DISC

PAGE 15

F19T	695.00
F19B	624.50
F19T1	695.00
F19AT	DISC
F19FP	789.00
F19FF	14.95
F19H	375.00
F19HF	675.00
F19TA	57.75
F19TB	57.75
F19F	DISC
F19FA	545.00
F19FB	345.00
F19G	395.00
F19CS	28.90
F19FS	44.45
F19FPK	495.00
F19KTP	369.00
F19TKT	395.00
F19TKT1	395.00
F19RS	229.00
F19RST	259.00
F195/8	110.25
F197/8	110.25
F198/8	110.25
F19SG	89.00
F19SGB	115.00
F19D	235.00
F19E	489.00
F19EM	525.00
F19EL	540.00
S19SC	1250.00
S19SK	950.00
S19T	775.00
S19A	1025.00
S19AB	1075.00

S19AC	DISC
S19AD	825.00
S19T2	665.00
S19F	395.00
S19FA	479.00
S19CS	31.50
F19FS	44.45
S61	99.50
S19DB	DISC
S19P	86.50
S19EJ	DISC
S19DP	DISC
S19PA	89.00
S19J	

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S19BS	16.00
S19B	28.50
S19BL	18.50
S19R	39.95
S19S	74.50
S19K	17.95
S19PR	
AFAN8	29.50
AFAN10	29.50
AFAN12	29.50
AFBS8	29.50
AFBS10	29.50
AFST10	17.50
AFST12	17.50

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F14A	55.00
F14A2	52.50
F14AB	46.70
F14AF	27.50
F14AK	83.50
F14AKH	87.50
F14AM4	89.00
F14AM5	89.00
F14AM6	89.50
F14B	68.50
F14B2	75.50
F14BB	32.50
F14BK	83.50
F14BKH	89.00
F14BM4	89.00
F14BM5	89.00
F14BM6	89.00
F14JF	44.95
F14JK	115.00
F14JM	99.00
F14H	90.20
F14H2	65.50
F14HB	35.00
F14HH	39.00
F14HK	94.00
F14HKH	99.00
F14HM	99.50
F14C	75.50

F14C2	53.00
F14CC	35.00
F14CK	89.50
F14CKH	99.00
F14CM	120.00
F14D	60.50
F14DAF	24.50
F14DD	44.50
F14DK	95.00
F14DKH	109.00
F14DM	89.00
F14E	42.95
F14EE	35.00
F14EM	55.00
F14TM	59.95
F14TMS	65.97

PAGE 19

MCG62	122.50
MCG70	122.50
MCG75	122.50
MCG62R	109.00
MCG70R	109.00
MCG75R	109.00
MCGCL	5.00
MCGCS	6.50
MCRG1	23.00
MBG1	11.95
MCL62	N/A
MCL70	N/A
MCL75	N/A
MCL62L	CALL
MCL70L	CALL
MCL75L	CALL
MCL62R	CALL
MCL70R	CALL
MCL75R	CALL
MCLC	2.95
MCRL1	9.95
MCRL2	2.25
MCL62B	125.00
MCL75B	125.00
MCL87B	125.00
MCL10B	125.00
RKG62	19.50
RKG70	21.50
RKG75	19.50
RKL62	23.50
RKL70	23.50
RKL70A	23.50
RKL75	23.50
RKL75A	19.50
MBAG	7.50
MFR1	9.99
MFR2	25.99
MFR3	34.99

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MCT62	75.00
MCT70	75.00

MCT75	75.00
MCT87	75.00
MCT10	75.00
MCT125	75.00
F425	92.50
F425R	92.50
BC19L	195.00
BC19R	195.00
BC20L	235.00
BC20R	235.00
BCP19	19.90
RKCA2	16.95
RKCA3	16.95
RKCG12	39.50
RKCG14	19.50
RKCL19	18.50
RKCL20	29.50
RKCL65	21.00
RK19S	DISC
WC39	109.00
WC39U	77.00
RKS87	11.25
MC550	DISC
MC570	DISC
MC57-6	DISC
MC57-C	DISC
BVT3	99.50
BVT4	99.50
BVT1	99.50
BVWL	81.75
BVWK	63.50
BCV1	30.00
BPV2	24.00
BPV10	24.00

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W12B	DISC
WA1	DISC
WA10	DISC
WA12	DISC
WA13	DISC
WA14	DISC
WA15	DISC
WA16	DISC
WA19	DISC
WA2	DISC
WA20	DISC
WA20S(W20S)	DISC
WA21	DISC
WA22	DISC
WA23	DISC
WA24	DISC
WA25	DISC
WA26	DISC
WA27	DISC
WA28	DISC
WA29	DISC
WA3	DISC
WA30	DISC
WA31	DISC

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WA31 DISC	16 DISC	WB19 DISC	W3S1725 DISC	F208 DISC
WA32 DISC	WC29-20 DISC	WB20 DISC	W3S1822 DISC	F209 DISC
WA33 DISC	WC3 DISC	WB21 DISC	W3S1824 DISC	F30 DISC
WA34 DISC	WC30-16 DISC		W3S1922 DISC	F30-200 DISC
	WC30-20 DISC		W3S1923 DISC	S202 DISC

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WA35 DISC	WC31 DISC	W1338 DISC	W3S2025 DISC	S204 DISC
WA36 DISC	WC32 DISC	W1437 DISC	W3S2124 DISC	C202 DISC
WA37 DISC	WC33 DISC	W1438 DISC	W3S2125 DISC	
WA38 DISC	WC34 DISC	W1536 DISC	W3S2426 DISC	
WA39 DISC	WC35 DISC	W1537 DISC	W3S2427 DISC	
WA4 DISC	WC36 DISC	W1536 DISC	W3S2526 DISC	
WA40 DISC	WC39 DISC	W1636 DISC		
WA40A DISC	RKS87 11.25	W1635 DISC		
WA41 DISC	WC43 DISC	W1634 DISC		
WA41-4 DISC	WC43T 369.00	W1735 DISC		
WA42 DISC	WC44 DISC	W1734 DISC		
WA42A DISC	WC44F3 DISC	W1733 DISC		
WA48 DISC	WC44S2 DISC	W1834 DISC		
WA52 DISC	WC44S2R DISC	W1833 DISC		
WA54 DISC	WC45 DISC	W1832 DISC		
WA57 DISC	WC46 DISC	W1933 DISC		
WA58-4 DISC	WC5 DISC	W1932 DISC		
WA59 DISC	WC6 DISC	W1931 DISC		
WA61 DISC	WC7-4 DISC	W2032 DISC		
WA66 DISC	WC8 DISC	W2031 DISC		
WA7 DISC	WC9 DISC	W2030 DISC		
WA8 DISC		W2131 DISC		

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WC1 DISC	WB1 DISC	W2130 DISC	W2D1635 DISC	
WC10 DISC	WB2 DISC	W2129 DISC	W2D1634 DISC	
WC11 DISC	WB3 DISC	W2230 DISC	W2D1735 DISC	
WC13 DISC	WB4 DISC	W2229 DISC	W2D1734 DISC	
WC14 DISC	WB5 DISC	W2228 DISC	W2D1733 DISC	
WC15 DISC	WB6 DISC	W2329 DISC	W2D1834 DISC	
WC16 DISC	WB8 DISC	W2328 DISC	W2D1833 DISC	
WC17 DISC	WB11 DISC	W2125 DISC	W2D1933 DISC	
WC18 DISC	WB13 DISC	W2327 DISC	W2D1931 DISC	
WC19 DISC	WB14 DISC	W2428 DISC	W2D2032 DISC	
WC2 DISC	WB15 DISC	W2124 DISC	W2D2031 DISC	
WC2A DISC	WB16 DISC	W2427 DISC	W2D2030 DISC	
WC20 DISC	WB17 DISC	W2426 DISC	W2D2131 DISC	
WC21 DISC	WB18 DISC	W2527 DISC	W2D2130 DISC	
WC21L DISC	F20A50 DISC	W2626 DISC	W2D2129 DISC	
WC21S2 DISC	F20A55 DISC	W2625 DISC	W2D2230 DISC	
WC21SV DISC	F20A60 DISC	W2725 DISC	W2D2229 DISC	
WC22 DISC	F20A65 DISC	W2724 DISC	W2D2228 DISC	
WC23 DISC	F20A70 DISC	W2S1327 DISC	W2D2329 DISC	
WC24 DISC	F20A75 DISC	W2S1426 DISC	W2D2328 DISC	
WC24A DISC	F20A80 DISC	W2S1428 DISC	W2D2125 DISC	
WC25 DISC	F20A85 DISC	W2S1430 DISC	W2D2428 DISC	
WC26 DISC	F20AS1 DISC	W2S1527 DISC	W2D2124 DISC	
WC27 DISC	F20AS2 DISC	W3S1426 DISC	W2D2427 DISC	
WC28 DISC	C205 DISC	W3S1427 DISC	W2D2426 DISC	
WC28F3 DISC	F202 DISC	W3S1525 DISC	W2D2527 DISC	
WC28S2 DISC	F203 DISC	W3S1526 DISC	W2D2324 DISC	
WC28S2R DISC	F204 DISC	W3S1527 DISC		
	F206 DISC	W3S1624 DISC		
		W3S1625 DISC		
		W3S1626 DISC		
		W3S1723 DISC		
		W3S1724 DISC		

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F21A 12.95
F21B 10.55
F20A40 DISC
F20A45 DISC

PAGE 29

F23G 11.95
S2DT 6.45
F30C 65.00
F30B 14.00
HWST 55.00
F3VT DISC
F2LT DISC
F30E 49.00
F30PB 79.00
F29A DISC
F29C DISC
F29E DISC
F29D DISC
F29Q DISC
F11H 6.95
S11H 6.95
F18A DISC
F18B DISC
F18C DISC
F18D DISC
C550L DISC
C2S DISC
C2L DISC
C5CL DISC
F22DR DISC
FG451 225.00
FG453 179.00
FG452 179.00

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F521U 395.00

PAGE 30-31

F521CA 395.00

PAGE 32-33

F521C 395.00

PAGE 34-35

F521D 395.00

BAT makes every effort to maintain our current prices for as long as possible, however we do reserve the right to make price adjust-ments without notice.

Terms of Business

Hours

Order desk hours are Monday through Friday 9:00 a.m. until 5:00 p.m. Eastern Time. Whenever possible orders received before 12:00 noon will be processed and shipped the same day. If anyone would like to visit our location we would like to request that you please make an appointment before dropping by. We enjoy seeing our customers, discussing their cars, and showing them our latest developments, however, some days or times of day are better for us to give the attention we like to offer.

Ordering Procedure

You may place an order by telephone, fax, or by mail. Ordering by telephone will connect you to a technical-sales advisor who will help with any questions, or make ordering recommendations, if you require. Knowing your 6 digit BAT customer number, catalog part numbers, quantities, and description of order items will help minimize any possible errors in processing your order. Telephone orders may be placed during business hours as listed above. Fax orders may be placed anytime day or night.

Payment

Payment may be made by Visa, Master Card, Money Order or Personal Check. Orders which have been paid for by Personal Check will be shipped only after the check has cleared (allow up to 14 days). Orders accompanied by Personal Checks that have been bank certified will be shipped with out delay. We have no objections to shipping on a COD basis if required, however, all COD's must be paid upon delivery with cash or certified check. When ordering by mail or fax by Visa or Master Card be sure to include your card number and expiration date. Residents of countries outside the United States must pre-pay for their goods in U.S. currency. All prices for goods shipped outside the continental United States are quoted FOB Sarasota, FL. All shipping/duty charges must be the responsibility of the consignee at rates applicable to that particular country.

Shipping

Unless otherwise stated all orders will be shipped by United Parcel Service (UPS) surface system. We can also ship by an express (overnight, 2 day or 3 day) service if required, check with us for details and additional charges. Items too large or heavy for UPS service will be shipped common carrier (truck) freight collect. Optional shipping services include Surface Mail, Air Mail, and Air Freight at current rates.

Back Orders

We dislike back orders as much as you do, and although we carry a huge inventory of merchandise it is inevitable that we will sometimes run out of certain items. In this case we will hold the order open and ship the back ordered item directly when the item becomes available. If an item looks like it will be on back order for longer than 4 weeks we will try and let you know the approximate time of delivery. You will then have the opportunity to re-confirm or cancel your order.

Special Orders

Some items that we offer are available as special orders. This includes custom variations on catalog items and race prepared parts. All special order items require a 50% deposit at the time the order is placed with the balance due at time of shipping. You will be advised at the time of your order if any item falls into this category.

Returns

All returns must be authorized by BAT with in 30 days of the invoice date and must be sent prepaid. Returns must have an authorized RGA number and be accompanied by a copy of the original invoice. A restocking charge of 20% may be assessed at our discretion depending on the reason for the return. Certain parts such as bearings, electrical items and piston rings or any part that has been modified or installed in any way are not returnable.

Warranties

All parts are covered only by the manufacturers warranties and/or guarantees. BAT Inc. can assume no responsibility or liability for use or application by the user. Claims for goods damaged in transit are the responsibility of the carrier. You should always examine the contents of your package and notify the carrier immediately if there is any sign damage.

- Important Notice -

Most of the equipment in this catalog is intended for racing or off-highway use in the United States. BAT Inc. ships all over the world so we must make it the responsibility of the customer to check the legality of fitting any part to his/her car. There are many different State, Federal and provincial regulations governing the replacement of automotive parts and BAT assumes no responsibility or liability for their illegal use. Please check the regulations in your area before ordering.

Prices and equipment are subject to change without notice.

