



FREEWAY NEWSLETTER

No 6

Freeway News #1 Lake North Avenue
Herringsett, RI (401) 783-0300
Issued Quarterly \$2.00 per year
Donald J. Martin, Editor 270-2782

7/6/81

Don:

Thanks for the informative newsletter—I enjoyed the June publication that Sue gave me.

I drove my Freeway from Minneapolis to Phoenix in five days, June 29 to July 3, about 1800 miles, and I have some comments that I will forward to you as soon as I clean off my desk.

Bill Kupper
Glendale, AZ

Editor's 3000 Mile Report

At 2775 miles the driven unit of my clutch went out including the button inserts, cam and spring. Our driven unit is 490 but I have included a picture of a similar unit in this issue so you can see the button inserts. There is nothing in the owner's manual about them (see Tom Foresman's letter) but they can be pried out and replaced or turned to wear on the other side.

Then I needed a new chain sprocket on the Jackshaft. I had shimmed the chain too tight and lost most of the teeth.!

I needed a gear puller to get the pillow blocks off the shaft and a five-ton press and torch to get the old clutch off. I then sanded the shaft down on a lathe and the new parts slid on nicely. I also replaced the chain (it is PSD). Like Tom, I had to move the engine, but unlike Bill Scott, I found that the angle iron frame is flexible and can be pried away to get at the two front bolts.

EV EXPO '81

Baltimore — October 21-23

At 2968 my speedometer broke.

Soon after I passed the 500 mile mark the car developed a bucking when accelerating from stop. Dave told me stiffer shocks would help but I continued to experiment. When the driven clutch went I asked again about the bucking. Chris told me it was a structural defect and that only the stiff shocks would help, but they would cost \$20. As I passed the warranty period, However, the above repair work solved the problem without new shocks, but I don't know why. I am averaging 56 mpg with my 1450.



The Newsletter

Starting this month, the price of the next four issues will be \$2.00 for those that haven't yet joined. New features are free advertising for any subscriber, of reasonable size and related to three-wheel cars and high-mileage passenger cars; reprints of the maintenance manual and parts lists; assembly and maintenance instructions for various components of the Freeway; info to generate some interest from those who car fans in general; and advice you of other information sources and events.

There has been some enthusiastic response to Issue #5, but we have a ways to go before it streaks even financially.

Deadline for copy for the winter issue of The Freeway Newsletter is November 16, 1981. No all advertising copy, articles, letters, etc., to the editor before this date.

The ads for the nice words about Issue #5. Does anyone have any innovative ways to buy insurance for the Freeway?

As of August 16, members in twelve states are on the mailing list. In the next issue, I'll report the numbers in each state. Some of you may wish to promote a get-together in your area.

Letters

Dear Editor:

Here is a suggestion: A small section with a title such as "Comments to the MIG". There's the first one - Get hot on the reverse. Right now MIG will not even give an estimate on the date for its availability.

Leonard J. Goss
Mechanicsburg, PA

White's New from Asburyville

H.A. vehicles moved to a larger building. Their new address is 32123 50th, 16th Avenue, same city, same zip. They built 51 cars in July, the most ever in one month. Order numbers 55 of August 10 were up to #1910 and the special color cost is now \$100.00. They are working on the blower problem. The last I heard they were talking to the Gillette Company about a blower used in a blow dryer.

Drivers in New Jersey still have a problem with the helmet law, and with Connecticut planning to allow registration, Harry and I are only known hold out. Harry was off to OJL, Nichols who drove his new car back to Texas; Jack Blum also drove his back to Pennsylvania, and of course, Bill Kuehl who, after his drive back to Phoenix, drove to Los Angeles.

**ASSEMBLY
SEQUENCE**

DRIVEN UNIT



PARTS LIST

ITEM	DESCRIPTION	QTY.	REF.
1	Rear Wheel	1	
2	Front Wheel	1	
3	Gear	1	
4	Blower	1	
5	Motor	1	
6	Flywheel	1	
7	Brake	1	
8	Front Flywheel	1	
9	Front Flywheel	1	
10	Front Flywheel	1	
11	Front Flywheel	1	
12	Front Flywheel	1	

SIMPLICITY at its finest *that's the DUSTER by COMET*

The DUSTERS 1300 imported components in simple quantities to accommodate 1300G and 1114 top with belts... which includes most machine tool drive.



Flywheel parts like a old part in assembly and flywheel are the only flywheel parts for the complete flywheel. 1114 tapered belt. The standard 94 Duster has only flywheel parts for the complete flywheel.

Maintenance is simple. In most cases all you have to do is remove your old clutch, take the DUSTER from its carrier and place it on the flywheel, install the belt, tension the retaining bolts, and you're ready to go. Even you can do it. Just make sure you're belt with other fits the Duster. It is quite simple to add the necessary plates to accommodate 1300G, 1300, 1114 or 1112 belts. The Duster is compatible with a wide range of drives, adding to the ease of installation. And there is a Duster for nearly everyone regardless of crankshaft size.

Maintenance is never a problem because there are fewer moving parts and no severe friction areas within the DUSTERS assembly. Lubrication is handled by the use of a special oil lubricating bearing made of wood. Teflon fibers have been added to a slow lubricant for longer life of bearings. Once the DUSTER has been installed into the machine you just let it perform.

There is a DUSTER for everybody's need and a lot of other applications too. The DUSTER concept is available for all automobiles and other vehicles using belt drive systems such as A.T.V.'s, big Three Wheeled Special Vehicles, even small Automobiles.

For more information contact:

White's New from Asburyville

32123 50th, 16th Avenue

Asburyville, PA 17007

(717) 652-2200

ADVERTISING

Two-wheel Accessories, Catalog
Two-Wheel Corp., 344 Jericho Turnpike,
Mineola, NY 11501
Phone toll-free (800) 645-6060

Lovejoy/Rosta Tensioner Brochure
Lovejoy, Inc.,
2645 Wisconsin Avenue
Downers Grove, IL 60515
112-BS2-0500

Electric Vehicle News-Published Quarterly
USA \$15.00 per 1 year
PO Box 350
Westport, CT 06881
(203) 226-4600

Comet Industries (The Clutch People) Shield Emblem, Vinyl, Decal - 2 1/4"	.10
Embroidered Sew On Patch - 4" across	2.00
Driven Unit Button Inserts (3)	4.50
Activator Puck for Clutch approximately 25.5 grams wt. five-sided-solid ea.	\$ 2.00
GP-730A Clutch and Torque Converter dry lube 12 3/4 oz.	\$ 6.95
Never-Seeze/prevents clutch freeze on crankshaft PTO 1 oz tube	\$ 3.00
Thompson RL-B5 Spark Plug	\$ 2.50

18 OIL CHANGING HOSE

1/8" aluminum shims (set of two)	\$ 2.50
Note: Never shim to the point where your chain is tight-some slack is necessary to ad- just to frame swing rule: one is the equiv- alent of almost two steel shims that come with the car and would replace the original shim after the chain stretches. Further, shimming will distort the distance between the clutch which is important	

SCL Plastic Cleaner and Polish 8oz	\$ 3.00
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All residents add 6% sales tax - Write to
Freeway Newsletter (add .18¢ for postage to
orders under \$2.00)

DRIVE-SYSTEM TERMS

Collective Angle - The sum of the two sheave
face angles. For example, if each sheave has
a 13 degree angle on the face, the collective
angle is 26 degrees. This is the most popular
collective angle of snowmobile drive system
pulleys.

Driven Unit - The driven pulley member of
the variable speed drive system located on
the driven shaft, also called the jackshaft.

Driver - The drive clutch.

Final Drive - On most snowmobiles, this is a
chain drive from the sprocket on the driven
shaft to the sprocket on the track assembly.

Jackshaft - Also referred to as driven shaft.
The driven unit and final drive sprocket
assembly for driving the track are located on
this shaft. Brake assemblies are also mounted
on this shaft on some machines.

Pitch Diameter - The diameter of pulley at the
point where center of belt sides have most
friction ability for driving. The minimum
pitch diameter is the smallest diameter of
pulley's ability; maximum is largest diameter
of pulley's driving ability.

Ratio - The relationship between the number of
times the drive clutch revolves to the revolutions
of the driven unit. Low End Ratio - is the ratio
between the drive clutch and driven unit
when drive clutch is at its smallest pitch
diameter and driven unit at its largest.
High End Ratio-refers to the opposite pitch
diameters of the drive clutch and driven unit.

Secondary Clutch - Term sometimes used to de-
scribe the driven unit of a variable speed drive
system.

Sheaves - The pulley faces. Two sheaves form a
pulley. Moveable sheave is the pulley face that
is moved in and out to create different pitch
diameters for drive belt. Both drive clutch
and driven unit have moveable sheaves. Station-
ary sheave is pulley face that remains in place
as moveable sheave changes position to create
various pitch diameters.

Torque Sensing - Most driven units are torque
sensing. They have a spring loaded cam that will
respond to the torque load demand of the driven
shaft to adjust the ratio of the system.