

EA02-025

FORD 10/27/03

APPENDIX N

BOOK 15 OF 61

PART 1 OF 4

8

3713 0840

b

3713 0897

10

3713 0899

~~SECRET~~
SPEED CONTROL SWITCH

3713 0807



THIS PAGE IS PRESENT
TO ACCOUNT FOR A
NUMBERING ERROR

1992 Police - ARE THEY 100% ABS/TC?

BOOSTER PROBLEMS - NON RELEASE - WHEN?

- WHERE IS SWITCH PACKAGED ON NON-ABS HYDRA/HA HARD.
- IS SWITCH THERE ON NON SPEED CONTROL

4 DIFFERENT HYD. DISTRIBUTION POSSIBILITIES

VEHICLE WITH ABS/TC

- WITH SPEED CONTROL, SWITCH IN R.R. PROP VALVE
- WITH OUT SPEED CONTROL -
NO SWITCH IN PROP VALVE

VEHICLE WITHOUT ABS/TC

- WITH SPEED CONTROL, SWITCH IN
FUNCTION BLOCK
- WITHOUT SPEED CONTROL
NO SWITCH IN BLOCK.

 * Note printed by JEVANS8 on 21 Dec 1998 at 14:57:41 *

From: FPORTER --DREN007	Date and time 12/18/98 17:04:06
To: WABRAMCZ--DREN005	BEGUN --DREN007
RENGLIS1--DREN005	JEVANS8 --DREN005
DOREL --DREN005	JGREGOIR--DREN005
KGRIBBLE--DREN005	NLAPOINT--DREN005
SLAROUCH--FORDNA1	JMCINERN--DREN005
JNEWE --DREN005	RNEVI --DREN005
GSTEVEN1--DREN005	CTHOMAS5--DREN005
EWELFER1--DREN006	

FROM: F. J. Porter USAET(UTC -05:00)
 Subject: 9F924 Update (19981218)

1992-1993 Town Car F2VC-9F924-A Brake Pressure Switch Investigation

TEAM:

AVT E&E Chassis Electronics:	Fred Porter	x84-53722	fporter
AVT Chassis Engineering:	Joe Evans	x32-23832	jevans8
	Barry Egan	x32-39512	began
AVT E&E E&S:	Rob English	x33-73225	renglis1
AVT Design Analysis:	Norm LaPointe	x59-42686	nlapoint
AVT E&E O&B:	Jim Gregoire	x33-79962	jgregoir
E&E Prod. Veh. Safety:	William Abramczyk	x32-23284	wabramcz
	Ray Nevi	x59-47688	rnevi
Large Luxury VC Safety:	John McInerney	x32-20276	jmcinern
	Joe Neve	x39-08133	jneve
AVT Materials Engineering:	Greg Stevens	x32-36686	gsteven1
	Ken Gribble	x32-38658	kgribble
	Clark Thomas	x59-41313	cthomas5
Central Lab Services:	Steve LaRouche	x84-54876	slarouch

INFORMATION:

NHTSA letter: PE98-053

Vehicles identified: 21 initially identified.
 20 additional vehicles reported since publication of
 the investigation.

Warranty: A total of 89 warranty claims are identified in AWS on the
 F2VY-9F924-A for 1992 and 1993 Town Cars.

Two CQIS reports (WJIAA135 & VDUA322) mention underhood fire
 in connection with the brake pressure switch.
 WJIAA135 occurred at 51,500 miles.
 VDUA322 occurred at 86,802 miles.

Supplier: The pressure switch was manufactured by Texas Instruments. The
 switch was purchased in assembly with the brake proportioning
 valve bought from Surfaces.

Contacts: Surfaces - Mike Thomas (248)543-6520 HILITE Industries
 TI - Rob Sharp (248)305-5729

TI - Russ Baumann (508)236-3314
TI - Charlie Douglas (508)236-3657

Function: The brake pressure switch is a redundant switch for turning off the speed control function.

X-Rays: Taken by Steve LaRouche, Norm LaPointe & Clark Thomas on 12/17/1998. Original photographs and part are in Steve LaRouche's possession.

ON-GOING ACTIVITY:

2 service parts have been ordered from Fairlane Ford for X-ray and other testing by Central Lab Services.

Meeting with representatives of TI is planned for 12/22/1998 to discuss intended operation of the switch. The meeting will be at the Central Laboratory Conference room off of the lobby.

QUESTIONS: (in no particular order)

- 1) What is the normal current in the brake pressure switch?
- 2) Was cruise control standard on Town Car in 1992 and 1993?
- 3) Under what circumstances is brake fluid flammable?

According to Clark Thomas & Mary Haga, brake fluid is flammable at approximately 300 degrees F.

- 4) What is the repair history for vehicles that have exhibited a problem?
Repair history for the two CQIS vehicles are being gathered by Fred Porter.
- 5) What other vehicles use this brake pressure switch? What are their electrical configurations?

MODEL YEAR	92	93	94	95	96	97	98
Town Car	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
Crown Vic	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
Grand Marquis	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
Econoline	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
Club Wagon	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
F-Series		XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
Bronco		XXXX	XXXX	XXXX	XXXX		
Taurus SHO		XXXX	XXXX	----			
Capri			XXXX	XXXX	----		
Windstar			XXXX	XXXX	XXXX	XXXX	XXXX
Falcon				XXXX	XXXX	XXXX	XXXX
Explorer					----	XXXX	XXXX
Ranger					----	XXXX	XXXX
Expedition						XXXX	XXXX
Navigator							XXXX

XXXX = used in model year

---- = may have been used in model year

6) Is this switch still in use? If not, why not? If so, what design changes have been implemented since 1992/1993?

Charlie Douglas of TI is investigating the design changes that may have been implemented on the brake pressure switch beginning in 1992.

7) What fault codes are stored if the brake pressure switch fails?

Regards,

Fred Porter

OV - fporter

fporter@ford.com

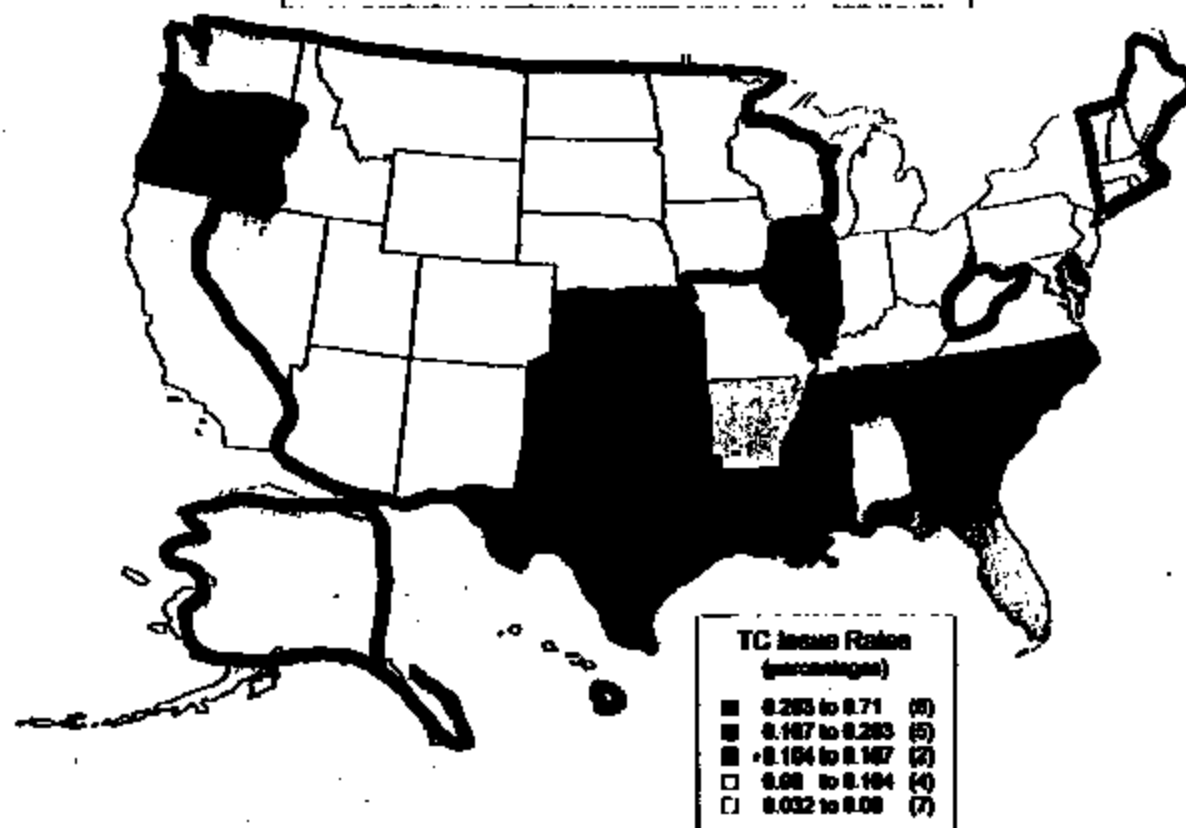
Chassis E/E Systems Applications

(313)845-3722

Bldg 5 - Mail Drop 5030 - Cubicle 3E004

fax: 390-4145

Town Car Issue Rates



3713 0913

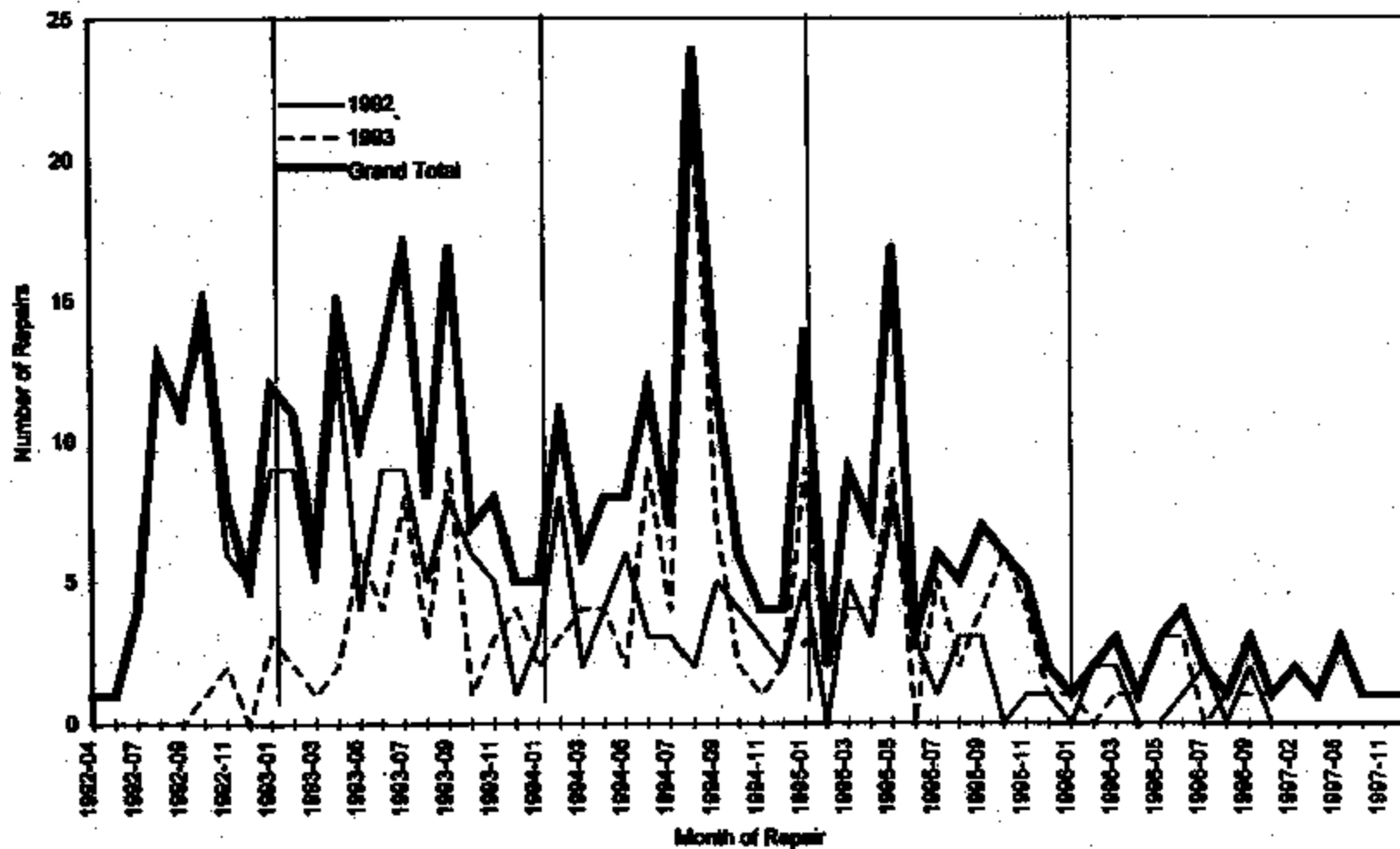
All Brake Pressure Switch Replacements on Panther Vehicles 92/93 by Concern

MDL_YR	(All)
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Customer Concern Code	Data	
	Sum of COSTS	Sum of REPAIRS
A25 - ENGAGEMENT TROUBLES	\$20,925	149
N17 - BRAKES NOISY	\$5,852	60
A26 - DISENGAGEMENT TROUBLES	\$8,408	44
A69 - ADMINISTRATIVE (PARTS RETURN/ETC.)	\$2,070	27
A27 - DOES NOT MAINTAIN A CONSISTENT SPEED	\$3,191	22
A85 - OTHER ELECTRICAL ACCESSORY TROUBLES	\$4,667	22
N11 - UNUSUAL ENGINE NOISE AT IDLE	\$1,274	18
N59 - OTHER SQUEAK/RATTLE (EXCLUDING WIND NOISE)	\$2,121	15
H05 - EXCESSIVE "BRAKE PEDAL EFFORT" REQUIRED	\$1,026	12
H19 - BRAKE-ABS WARNING LIGHT TROUBLES	\$547	7
L63 - BRAKE FLUID LEAK	\$245	5
N27 - VIBRATION OR SHUDDER WHILE BRAKING	\$866	4
H02 - BRAKES GRAB OR LOCK-UP	\$474	3
C05 - A/C DOES NOT WORK	\$335	2
N22 - VEHICLE VIBRATES WHEN DRIVING BELOW 45 MPH	\$126	2
S25 - SEAT BELT COIL/COIL TROUBLES	\$123	2
P68 - OTHER AUTOMATIC TRANSMISSION TROUBLES	\$423	2
P67 - SHIFTS OCCUR TOO EARLY, TOO LATE, TOO OFTEN	\$1,120	2
P51 - DIFFICULT TO OPERATE SHIFT LEVER	\$150	1
H04 - PARKING BRAKE TROUBLES	\$84	1
N18 - UNUSUAL TRANSMISSION NOISE	\$54	1
C50 - OTHER STEERING/HANDLING AND RIDE TROUBLES	\$55	1
L26 - LIGHTS NOT WORKING-INTERIOR	\$25	1
B05 - BODY PANELS HARD TO OPEN	\$23	1
A88 - WIRING TROUBLES	\$75	1
L68 - POWER STEERING FLUID LEAK	\$52	1
P82 - AUTOMATIC - 4 WHEEL/ALL - WHEEL DRIVE TROUBLES	\$180	1
Grand Total	\$52,495	407

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Total Repairs by Month for Pressure Switch on 1992/1993MY Panther Vehicles



3713 0915

Brake Pressure
Switch

TIS 38

State Code	Crown Victoria	Grand Marquis	Town Car
AK	0	0	0
AL	1.08	0	0.94
AR	0	0	0
AZ	0.75	1.41	1.25
CA	0.24	0	0.25
CO	2.2	0	0
CT	0.64	1.02	0
DE	3.11	1.95	0
FL	0.73	1.08	0.25
GA	0.4	0.61	0.6
HI	0	0	0
IA	0	0.57	0
ID	0	0	0
IL	0.53	0.55	0
IN	0.66	0.31	0
KS	0.82	0	1.63
KY	0.37	0.5	0
LA	0	0.41	0
MA	0.49	1.6	0.72
MD	0.45	0.51	0
ME	0	0	0
MI	0.62	0.32	0.67
MN	0	0	0
MO	0.31	0.69	0
MS	0	0	0
MT	0	0	0
NC	0.28	0.75	0
ND	0	0	0
NE	0	0	0
NH	0	0	0
NJ	0	1.21	0.41
NM	0	0	1.17
NY	0	0	0
OH	0.14	0.24	0.14
OK	0.65	0.69	0.44
OR	0.69	0	0
ON	0	0	0
OR	0	0	0
PA	1.05	0.77	0.33
RI	0	0	0
SC	0	1.24	0
SD	0	0	0
TN	0	0.41	1.67
TX	0.51	0.72	0.37
UT	0	0	0
VA	0.19	1.05	0.55
VT	0	0	0
WA	1.09	0	0.55
WI	0.45	0.65	1.34
WY	0	0	0
WY	0	0	0

T18 36

Switch
repairs

Sum of REPAIRS	Vehicle Line AWS		
State Code	Crown Victoria	Grand Marquis	Town Car
AK	0	0	0
AL	3	0	1
AR	0	0	0
AZ	1	2	1
CA	3	0	2
CO	2	0	0
CT	2	1	0
DE	1	1	0
FL	7	23	7
GA	2	3	1
HI	0	0	0
IA	0	1	0
ID	0	0	0
IL	5	8	0
IN	3	1	0
KS	1	0	1
KY	1	1	0
LA	0	1	0
MA	1	8	2
MD	1	1	0
ME	0	0	0
MI	3	3	2
MN	0	0	0
MO	1	2	0
MS	0	0	0
MT	0	0	0
NC	1	2	0
ND	0	0	0
NE	0	0	0
NH	0	0	0
NJ	0	10	2
NM	0	0	1
NY	0	0	0
OH	1	2	1
OK	4	5	2
OR	1	0	0
ON	0	0	0
OR	0	0	0
PA	0	0	1
RI	0	0	0
SC	0	2	0
SD	0	0	0
TN	0	1	2
TX	0	7	3
UT	0	0	0
VA	1	3	2
VT	0	0	0
WA	1	0	1
WI	1	3	2
WV	0	0	0
WY	0	0	0

TIS 38

Volumes
1992 NY

Sum of VEHICLES	Vehicle Line AWA		
State Code	Crown Victoria	Grand Marquis	Town Car
AK	120	0	0
AL	2828	1972	1088
AR	1774	1280	888
AZ	1330	1422	777
CA	12488	8282	7784
CO	808	583	208
CT	3110	881	708
DE	342	508	288
FL	9830	21280	24817
GA	4888	3888	1887
HI	188	0	0
IA	1803	1788	307
ID	210	283	0
IL	8080	9101	3232
IN	4888	3188	1484
KS	1228	1338	818
KY	2880	1877	1284
LA	3888	2428	1832
MA	2088	8348	2787
MD	2200	1888	1200
ME	1842	481	0
MI	4878	8482	2887
MN	1808	1888	333
MO	3288	3417	1828
MS	1873	1021	828
MT	224	181	0
NC	3881	2827	1408
ND	388	388	0
NE	878	738	187
NH	820	888	177
NJ	2808	8281	4841
NM	881	728	888
NV	881	382	288
NY	7287	8371	7308
OH	7234	7228	4882
OK	1788	1838	1103
ON	374	0	0
OR	888	844	183
PA	8884	8478	3081
RI	387	0	0
SC	3228	1808	844
SD	380	278	0
TN	1830	2484	1188
TX	8883	9882	8122
UT	212	282	0
VA	8148	2888	2078
VT	212	121	0
WA	817	881	1888
WI	2083	3840	1482
WV	718	888	188
WY	427	148	0

0 = 0-100

Vehicle/Customer Information

Model Year: Make: VIN#: Mileage:
Build Date: Present Vehicle Location: Who owns vehicle now:
Customer Name: Phone: Is it ok for engineering to contact customer:

Incident Info/Vehicle History

Where did fire originate? (engine compartment quadrant, suspect location, or suspect component(s))

What was the vehicle circumstances when the fire was noticed? Was the vehicle running, parked, engine on/off...
If off, how long?

Did customer notice anything unusual prior to fire? (specifically... difficulty getting the vehicle out of park, speed
control not working, brake warning lamp illuminated, stop lamp inoperative)

Do any underhood relays show evidence of overheating?

Were the underhood fuse links blown?

Were there any fuses that were blown or show evidence of other damage?

Is the correct fuse for the stop lamp switch in the fuse box?

Was there any damage to any wiring in the area where the fire was suspected to start?

Does the air suspension pump show evidence of overheating?

Was there any aftermarket modifications to the vehicle? (specifically car alarm, trailer tow, or remote start)

Was the vehicle involved in a natural disaster/accident that required significant vehicle clean up? If so where was
cleanup performed?

What was vehicle repair history?

Parts that we would like from vehicle if possible to acquire

Brake pressure switch (preferably with wire pigtail/connector attached and still attached to prop valve)

Sample of brake fluid at prop valve (in sealed glass container)

Relay pack located on LH fender apron (with as much wiring as possible)

EDIS 8 module located on LH fender

Speed control module located on LH fender

Air suspension compressor located under air filter

Air suspension relay

Other suspect parts

**1992-93 LINCOLN TOWN CAR
UNDERHOOD FIRES**

PCW-055

NO.	OWNER NAME	ADDRESS	CITY	STATE	ZIP	TELEPHONE	MODEL	YEAR	MODEL	BUILD DATE	SALE DATE	REPORT DATE	REPORT TYPE	MILEAGE	ISSUE REPORTED	POSSIBLE PROBLEM DESCRIPTION
			Huge	OK			1992 Town Car	1992	1992	03/12/92	03/12/92	03/12/92	COF	44,563	Fire	Liners melted on valves of manifold and caused a fire.
			Evergreen Park	IL			1992 Town Car	1992	1992	09/09/92	09/17/92	09/23/92	COF	228,246	Fire	Brakes.
			Shalin	IL			1992 Town Car	1992	1992	12/18/91	04/05/92	07/08/92	COF	21,236	Stalled	Brake lines.
			Los Angeles	CA			1992 Town Car	1992	1992	01/15/92	02/02/92	04/26/92	COF	37,442	Fire	Brake lines.
			Oakbrook	IL			1992 Town Car	1992	1992	08/27/91	09/23/91	04/25/92	COF/MORE	317,088	Fire	Alternator multi-point issue
			Channahon	IL			1992 Town Car	1992	1992	12/18/91	04/13/92	04/08/92	COF	15,772	Headlight	Overheated, drive belt broke, AC tested, burned.
			Memphis	TN			1992 Town Car	1992	1992	09/08/92	02/04/93	10/04/92	COF	31,588	Fire	Brake lines.
			FL Landerdale	FL			1992 Town Car	1992	1992	09/07/92	10/03/92	04/21/93	COF	56,802	Stalls	Brake pressure switch caught on line and caused fire while driving.
			San Antonio	CA			1992 Town Car	1992	1992	03/23/92	08/23/92	12/27/92	COF	35,837	Stalled while	Overheated, melted wires
			Oradell	NY			1992 Town Car	1992	1992	05/22/92	08/23/92	07/09/92	COF	48,116	Overheated	Spark plug wires melted
			Troy	OH			1992 Town Car	1992	1992	03/29/92	11/12/92	08/23/92	COF	14,522	Fire	Brakes.
			Hickory	IL			1992 Town Car	1992	1992	08/05/92	11/05/92	02/26/93	MORE	48,888	Burned	Electrical wiring.
			Hagerstown	IL			1992 Town Car	1992	1992	08/27/92	09/15/92	09/14/92	MORE	23,588	Fire	Unknown.
			Englewood	IL			1992 Town Car	1992	1992	08/18/92	12/08/92	07/05/93	MORE	12,800	Fire	Unknown.
			New Orleans	LA			1992 Town Car	1992	1992	08/25/92	07/09/93	08/20/93	MORE	6,508	Fire	Unknown.
			Iron Station	NC			1992 Town Car	1992	1992	09/04/92	04/06/93	08/24/93	MORE	25,911	Fire	Unknown.
			Pittsburgh	PA			1992 Town Car	1992	1992	12/04/92	01/20/93	03/23/93	MORE	12,388	Fire	Wiring harness.
			Rocky Hill	NY			1992 Town Car	1992	1992	03/18/92	08/23/92	08/20/92	MORE	29,888	Fire	Unknown.
			Stuart Island	FL			1992 Town Car	1992	1992	11/25/91	12/21/91	02/21/92	MORE	48,888	Fire	Unknown.
			Alpharetta	FL			1992 Town Car	1992	1992	07/03/92	09/05/92	01/28/93	MORE	88,888	Fire	Unknown.
			Staten Island	LA			1992 Town Car	1992	1992	08/18/92	09/15/92	09/15/92	MORE	64,888	Fire	Unknown.
			Indianapolis	IN			1992 Town Car	1992	1992	05/11/92	07/28/92	08/23/92	MORE	68,088	Fire	Unknown.
			Jackson	MS			1992 Town Car	1992	1992	08/25/92	08/23/92	07/26/92	MORE	68,888	Fire	Unknown.
			St. Matthews	LA			1992 Town Car	1992	1992	08/13/92	01/21/93	06/11/93	MORE	93,008	Fire	Unknown.
			Fort St. Louis	FL			1992 Town Car	1992	1992	07/31/92	10/08/92	08/05/92	MORE	61,008	Fire	Unknown.
			Shore	FL			1992 Town Car	1992	1992	04/08/92	04/17/92	12/08/92	MORE	1	Fire	Unknown.

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1992-93 LINCOLN TOWN CAR
UNDERHOOD FIRES

PE98-065

NO	OWNER NAME	ADDRESS	CITY	STATE	ZIP	TELEPHONE	MODEL	YEAR	MODEL	BUILD DATE	SALE DATE	REPORT DATE	REPORT TYPE	RELEASE	ISSUE	REPORTED	POSSIBLE PROBLEM DESCRIPTION
			Dayton	TX			1992	1992	Town Car	1992	03/13/92	05/17/92	MORS	37,000	Fire	Unknown	
			Deerly Hills	CA			1992	1992	Town Car	03/13/92	08/12/92	09/14/92	MORS	128	Fire	Unknown	
			San Juan	LA			1992	1992	Town Car	10/11/91	11/14/91	01/12/92	MORS	18,000	Fire	Unknown	
			Winnemucca	NE			1992	1992	Town Car	03/15/92	07/24/92	08/20/92	MORS	80,000	Fire	Unknown	
			Caples	FL			1992	1992	Town Car	05/20/92	08/10/92	12/23/92	MORS	52,000	Fire	Engine compartment, gas leak	
			Stonell	GA			1992	1992	Town Car	03/08/92	04/09/92	08/20/92	MORS	29,000	Fire	Unknown	
			Winnetka	IL			1992	1992	Town Car	07/28/92	08/17/92	09/12/92	MORS	50,212	Fire	Brakes	
			Longville	NY			1992	1992	Town Car	03/28/92	04/10/92	07/08/92	MORS	11,000	Fire	Brakes	
			Crabtree	TX			1992	1992	Town Car	06/04/92	06/30/92	12/23/92	MORS	72,000	Fire	Unknown	
			Apache	TX			1992	1992	Town Car	05/03/92	05/22/92	09/01/92	MORS	50,000	Fire	Fire started above the left head fire.	
			Longport	NY			1992	1992	Town Car	07/15/92	07/21/92	08/25/92	MORS	1	Fire	Engine compartment	
			Lawrenceville	MS			1992	1992	Town Car	08/25/92	08/18/92	08/24/92	MORS/VOI	47,000	Fire	Wiring harness in engine compartment.	
			Wadley	FL			1992	1992	Town Car	03/27/92	08/28/92	07/28/92	MORS	47,000	Fire	Map.	
			Houston	TX			1992	1992	Town Car	03/08/92	08/21/92	12/01/92	MORS	120,000	Fire	Under the hood - catalytic, pressure sensor for the ABS.	
			Fort Lauderdale	FL			1992	1992	Town Car	03/18/92	04/13/92	08/08/92	MORS	1	Fire	Unknown.	
			E. Fairview	NY			1993	1993	Town Car	10/11/92	05/17/93	05/26/93	MORS	80,000	Fire	Under the hood	
			Wilmington	NC			1993	Unknown	Unknown	Unknown	Unknown	12/08/92	MORS	80,000	Fire	Under the hood	
			Alford	FL			1993	1993	Town Car	11/08/92	12/05/92	01/02/93	MORS	40,000	Fire	Under the car	
			Rock Pointe	FL			1993	1993	Town Car	07/23/92	08/14/92	12/02/92	MORS	47,000	Fire	Under the engine	
			Forest Hills	NY			1992	1992	Town Car	12/04/91	12/04/91	03/12/92	MORS	1	Fire	Electrical short	
			Channahon	MS			1992	1992	Town Car	08/27/91	08/28/91	12/22/92	MORS	80,000	Fire	Front suspension.	
			Lakewood	OH			1992	1992	Town Car	04/14/92	06/01/92	12/01/92	MORS/VOI	100,000	Fire	Ignition or electrical system	
			East	GA			1992	1992	Town Car	03/18/92	03/18/92	04/28/92	MORS	63,000	Fire	Unknown	
			Kennett City	MO			1992	1992	Town Car	08/23/92	04/19/93	10/08/93	MORS	72,000	Fire	Electrical system	
			Wichita	TX			1992	1992	Town Car	08/27/91	11/02/91	04/28/92	MORS	40,000	Fire	Electrical	
			West Salem	MO			1993	1993	Town Car	10/22/91	11/14/91	05/20/92	MORS	71,000	Fire	Drain system sensors.	

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1992-93 LINCOLN TOWN CAR
UNDERHOOD FIRES

PE96-055

NO.	OWNER NAME	ADDRESS	CITY	STATE	ZIP CODE	TELEPHONE NUMBER	VIN	MODEL YEAR	MODEL	BUILD DATE	SALE DATE	REPORT DATE	REPORT TYPE	MILEAGE	ISSUE REPORTED	POSSIBLE PROBLEM DESCRIPTION
			Green Beach	FL			ALM121501	1992	Town Car	12/11/91	01/04/92	03/14/92	MORS	70,882	Fire	Electrical
			Springdale	LA			ALM121501	1992	Town Car	08/25/92	03/14/92	01/13/93	MORS/VOO	86,780	Fire	Unknown
			Adair	LA			ALM121501	1992	Town Car	09/19/92	08/02/92	12/09/92	MORS/VOO	80,800	Fire	Electrical short
			West Palm Beach	FL			ALM121501	1992	Town Car	01/02/92	02/11/92	10/14/92	MORS	75,000	Fire	Electrical
			Daytone	TX			ALM121501	1992	Town Car	09/19/92	04/01/92	08/23/92	MORS/VOO	87,039	Fire	Electrical system
			Justin	TX			ALM121501	1992	Town Car	05/05/92	04/01/92	08/23/92	MORS	81,848	Fire	Engine
			Galley	TX			ALM121501	1992	Town Car	12/17/91	04/23/92	09/18/92	MORS	100,000	Fire	Unknown
			Wig Park	IL			ALM121501	1992	Town Car	12/05/91	01/03/92	08/28/92	MORS	86,828	Fire	Left front tire
			Trinidad	TX			ALM121501	1992	Town Car	05/08/92	11/02/92	01/09/93	MORS	86,000	Fire	Unknown
			Cherokee	FL			ALM121501	1992	Town Car	05/08/92	04/23/92	04/23/92	MORS	76,888	Fire	Unknown
			Cocoa Beach	FL			ALM121501	1992	Town Car	08/09/91	08/30/91	09/18/92	MORS/VOO	78,838	Fire	Left front wheel area
			Dallas	TX			ALM121501	1992	Town Car	04/02/92	04/21/92	05/04/92	MORS	60,800	Fire	Engine
			Leahurst	VA			ALM121501	1992	Town Car	04/07/92	05/13/92	04/08/92	MORS	111,288	Fire	Unknown
			Hampton	TX			ALM121501	1992	Town Car	04/18/92	08/01/92	03/12/93	MORS	108,888	Fire	Under the hood
			London	VA			ALM121501	1992	Town Car	08/28/91	11/08/91	09/18/92	MORS	76,888	Fire	Unknown
			Memphis	TN			Unknown	1992	Unknown	Unknown	Unknown	03/13/93	MORS	1	Fire	Under the hood
			Unknown	MA			ALM121501	1992	Town Car	05/04/92	08/09/92	04/21/93	MORS	87,888	Fire	Electrical short
			Belmont	LA			ALM121501	1992	Town Car	07/14/92	08/01/92	10/04/92	MORS	88,888	Fire	Electrical
			Shard Nelly	NJ			ALM121501	1993	Town Car	12/15/92	12/28/92	09/02/93	MORS	88,888	Fire	Electrical
			West Columbia	SC			Unknown	1993	Unknown	Unknown	Unknown	03/08/94	MORS	0,888	Stalled	Stuck
			Crofting	GA			ALM121501	1993	Town Car	02/28/93	03/11/93	04/11/93	MORS	94,888	Fire	Coolant overflow
			Quincy	OR			ALM121501	1992	Town Car	03/10/92	03/28/92	04/02/92	MORS/VOO	116,888	Fire	Spark plug wires
			West Beach	FL			ALM121501	1992	Gr. Marq	04/02/92	05/05/92	09/11/92	COIS	98,000	Fire	Door/trunk switch
			Unknown	MA			ALM121501	1992	Town Car	11/28/91	11/27/91	Unknown	VOO	Unknown	Fire	Unknown
			Unknown	MA			ALM121501	1992	Town Car	05/04/92	08/02/92	Unknown	VOO	Unknown	Fire	Unknown
			Unknown	MA			ALM121501	1992	Town Car	03/16/92	08/21/92	Unknown	VOO	Unknown	Fire	Unknown

3713 0922

1992-93 LINCOLN TOWN CAR UNDERHOOD FIRES

PE98-055

REL	OWNER NAME	ADDRESS	CITY	STATE	ZIP	TELEPHONE	VEH	MODEL	MODEL	BUILD	SALE	REPORT	REPORT	RELEASE	ISSUE	POSSIBLE
								YEAR		DATE	DATE	DATE	TYPE		REPORTED	PROBLEM DESCRIPTION
78	Unknown	Unknown	Unknown	MA	MA	Unknown	11LHLM1102N	1992	Town Car	04/04/92	08/20/92	Unknown	VOQ	Unknown	Fire	Unknown
80	Unknown	Unknown	Unknown	MA	MA	Unknown	11LHLM2102N	1992	Town Car	03/06/92	03/18/92	Unknown	VOQ	Unknown	Fire	Unknown
81	Unknown	Unknown	Unknown	MA	MA	Unknown	11LHLM1109N	1992	Town Car	01/17/92	01/24/92	Unknown	VOQ	Unknown	Fire	Unknown
82	Unknown	Unknown	Unknown	MA	MA	Unknown	11LHLM1104N	1992	Town Car	04/27/92	05/03/92	Unknown	VOQ	Unknown	Fire	Unknown
83	Unknown	Unknown	Unknown	MA	MA	Unknown	11LHLM2104N	1992	Town Car	03/10/92	04/23/92	Unknown	VOQ	Unknown	Fire	Unknown
84	Unknown	Unknown	Unknown	MA	MA	Unknown	11LHLM2111N	1992	Town Car	03/16/92	07/09/92	Unknown	VOQ	Unknown	Fire	Unknown
85	Unknown	Unknown	Unknown	MA	MA	Unknown	11LHLM1102P	1992	Town Car	08/28/91	08/28/91	Unknown	VOQ	Unknown	Fire	Unknown
86	Unknown	Unknown	Unknown	MA	MA	Unknown	11LHLM1102P	1992	Town Car	04/28/92	05/15/92	Unknown	VOQ	Unknown	Fire	Unknown
87	Unknown	Unknown	Unknown	MA	MA	Unknown	11LHLM1102P	1992	Town Car	10/28/92	11/05/92	Unknown	VOQ	Unknown	Fire	Unknown
88	Unknown	Unknown	Unknown	FL	MA	Unknown	11LHLM2104N	1992	Town Car	03/03/92	05/11/92	08/15/92	VOQ	Unknown	Fire	Engine
89	Unknown	Unknown	Unknown	MD	MA	Unknown	11LHLM1104N	1992	Town Car	09/16/92	09/23/92	10/04/92	VOQ	Unknown	Fire	Underhood
90	Unknown	Unknown	Unknown	TX	MA	Unknown	11LHLM2104N	1992	Town Car	08/26/92	08/26/92	Unknown	VOQ	Unknown	Fire	Engine compartment
91	Unknown	Unknown	Unknown	TX	MA	Unknown	11LHLM2104N	1992	Town Car	09/18/92	09/14/92	11/01/92	VOQ	Unknown	Fire	Engine compartment
92	Unknown	Unknown	Unknown	TX	MA	Unknown	11LHLM2104N	1993	Town Car	11/09/92	12/07/92	11/07/92	VOQ	Unknown	Fire	Engine compartment
93	Unknown	Unknown	Unknown	NY	MA	Unknown	11LHLM1102P	1993	Town Car	11/03/92	11/28/92	08/15/92	VOQ	Unknown	Fire	Engine compartment
94	Unknown	Unknown	Unknown	CA	MA	Unknown	11LHLM1102P	1993	Town Car	10/13/92	10/28/92	03/01/93	VOQ	Unknown	Fire	Underhood
95	Unknown	Unknown	Unknown	FL	MA	Unknown	11LHLM1102P	1992	Town Car	01/16/92	11/28/92	11/09/92	VOQ	Unknown	Fire	Underhood
96	Unknown	Unknown	Unknown	LA	MA	Unknown	11LHLM1104N	1992	Town Car	03/24/92	03/24/92	10/01/92	VOQ	Unknown	Fire	Underhood
97	Unknown	Unknown	Unknown	TX	MA	Unknown	11LHLM1104N	1992	Town Car	08/24/92	09/12/92	10/01/92	VOQ	Unknown	Fire	Engine compartment
98	Unknown	Unknown	Unknown	MA	MA	Unknown	11LHLM1104N	1992	Town Car	03/17/92	03/27/92	09/04/92	VOQ	Unknown	Fire	Engine
99	Unknown	Unknown	Unknown	MA	MA	Unknown	11LHLM1102P	1993	Town Car	09/23/92	10/09/92	08/01/92	VOQ	Unknown	Fire	Engine
100	Unknown	Unknown	Unknown	MA	MA	Unknown	11LHLM2102N	1992	Town Car	03/11/92	03/23/92	04/04/92	VOQ	Unknown	Fire	Engine compartment
101	Unknown	Unknown	Unknown	MA	MA	Unknown	11LHLM1104N	1992	Town Car	04/24/92	05/17/92	08/04/92	VOQ	Unknown	Fire	Left front fender area
102	Unknown	Unknown	Unknown	TX	MA	Unknown	11LHLM2104N	1992	Town Car	11/01/91	03/03/92	04/04/92	VOQ	Unknown	Fire	Engine compartment
103	Unknown	Unknown	Unknown	FL	MA	Unknown	11LHLM2104N	1992	Town Car	04/06/92	05/07/92	08/01/92	VOQ	Unknown	Fire	Engine compartment
104	Unknown	Unknown	Unknown	MA	MA	Unknown	11LHLM2104N	1992	Gr Star	08/07/91	08/07/91	05/01/92	VOQ	Unknown	Fire	Stake holder

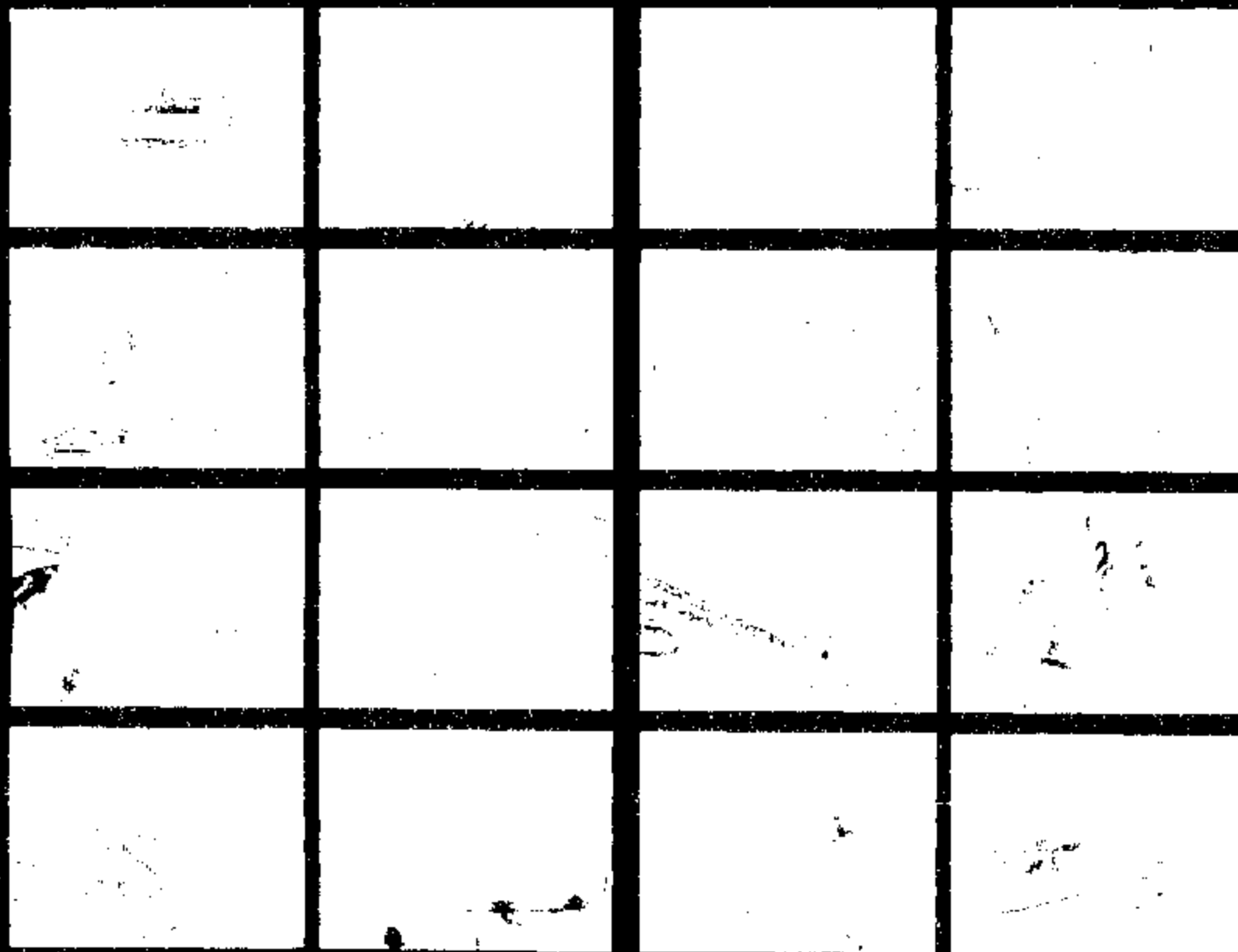
3713 0923

**1992-93 LINCOLN TOWN CAR
UNDERHOOD FIRES**

PE98-053

NO.	OWNER NAME	ADDRESS	CITY	STATE	ZIP	TELEPHONE	MODEL	YEAR	MODEL	BUILD DATE	SALE DATE	REPORT DATE	REPORT TYPE	MILEAGE	ISSUE REPORTED	POSSIBLE PROBLEM DESCRIPTION
105	Unknown	Unknown	Unknown	FL	NA	Unknown	2000 CMTOWN	1992	Granny	03/03/92	03/22/92	06/01/98	VOC	Unknown	Fire	Under hood.
106	Unknown	Unknown	Unknown	FL	NA	Unknown	ELMELMELMEL	1992	Town Car	05/08/92	10/28/92	06/01/98	VOC	Unknown	Fire	Engine compartment.
107	Unknown	Unknown	Unknown	FL	NA	Unknown	ELMELMELMEL	1992	Town Car	04/28/92	09/12/92	07/01/97	VOC	Unknown	Fire	Engine compartment.
108	Unknown	Unknown	Unknown	FL	NA	Unknown	ELMELMELMEL	1992	Town Car	05/08/92	04/18/92	12/01/97	VOC	Unknown	Fire	Left edge of hood and fender.
109	Unknown	Unknown	Unknown	NC	NA	Unknown	ELMELMELMEL	1992	Town Car	05/04/92	09/26/92	09/01/98	VOC	Unknown	Fire	Under hood.
110	Unknown	Unknown	Unknown	FL	NA	Unknown	ELMELMELMEL	1992	Town Car	08/18/92	07/03/92	11/01/98	VOC	Unknown	Fire	Under hood.
111	Unknown	Unknown	Unknown	FL	NA	Unknown	ELMELMELMEL	1992	Town Car	09/15/92	04/28/92	08/01/98	VOC	Unknown	Fire	Under hood.

3719 09/24

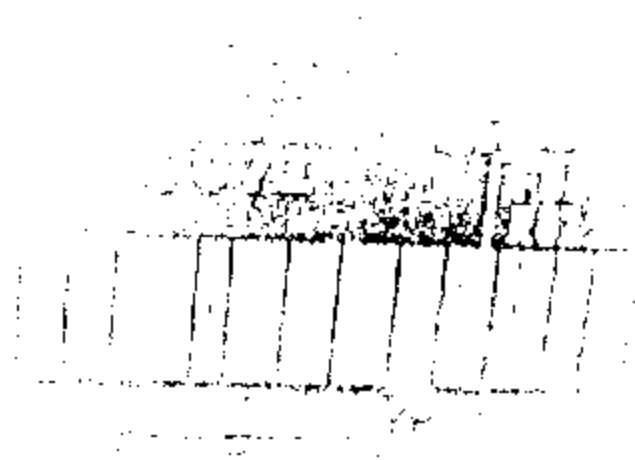


3713 0825

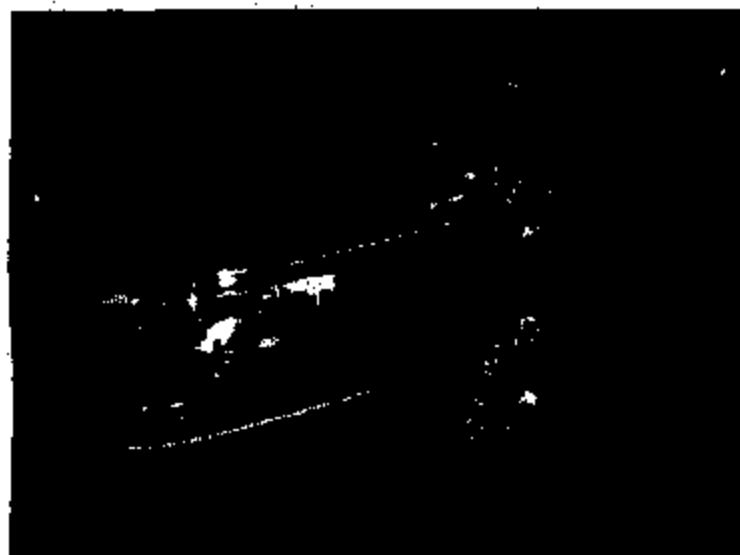
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PE 98-055

8713 0926

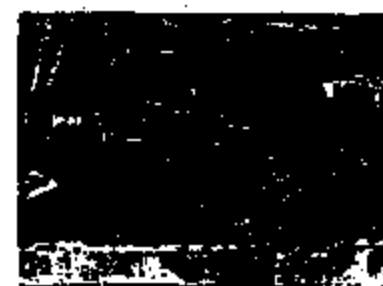


1LNLM92WXNY749071 1992 Lincoln Town Car - Dallas, TX, 99-Jan-13



3713 0827

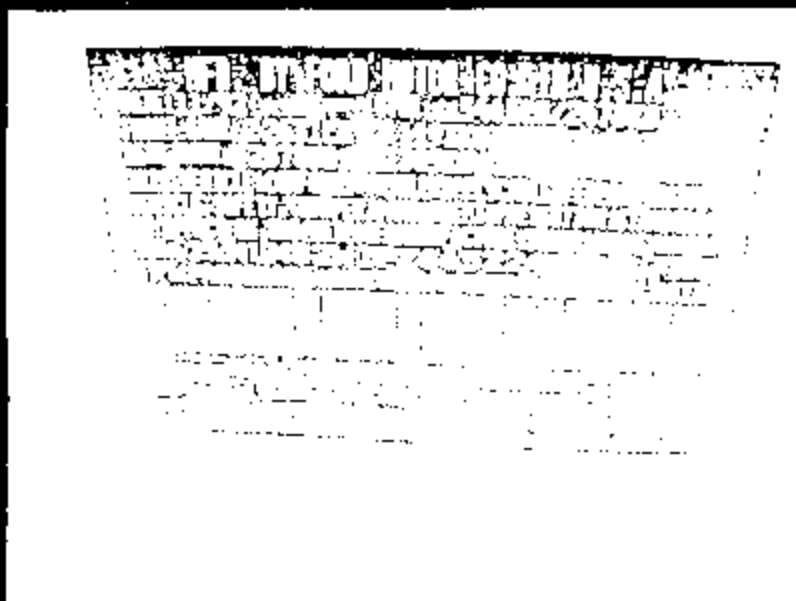
1LNLM92WXNY749071 1992 Lincoln Town Car - Dallas, TX, 99-Jan-13



Switch A

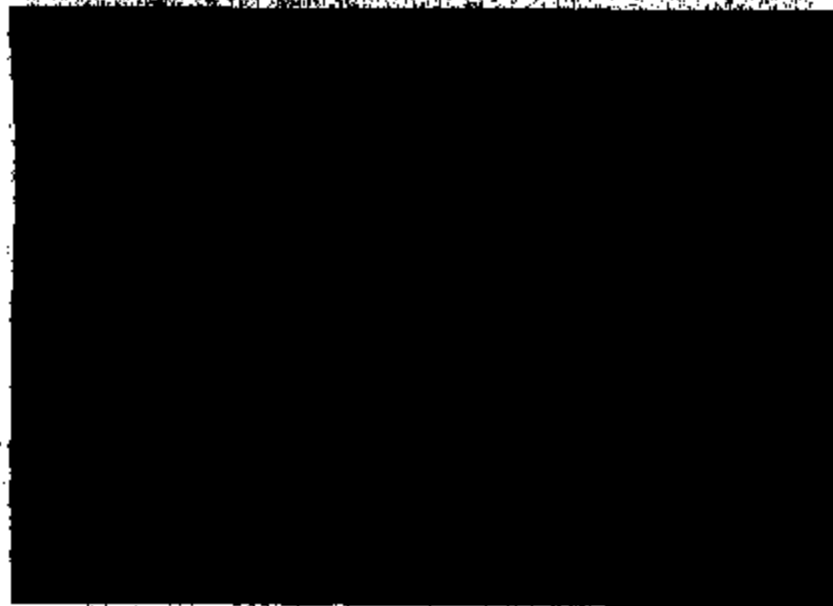
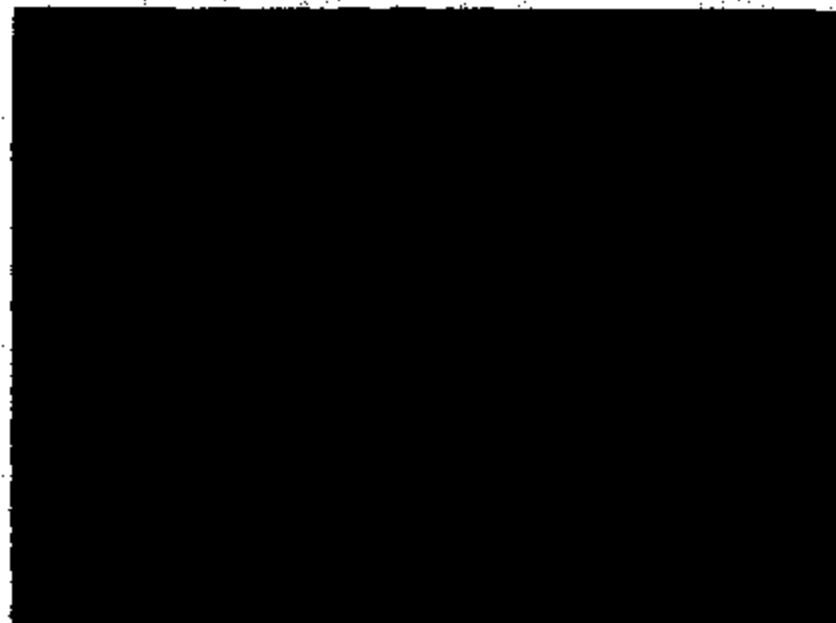
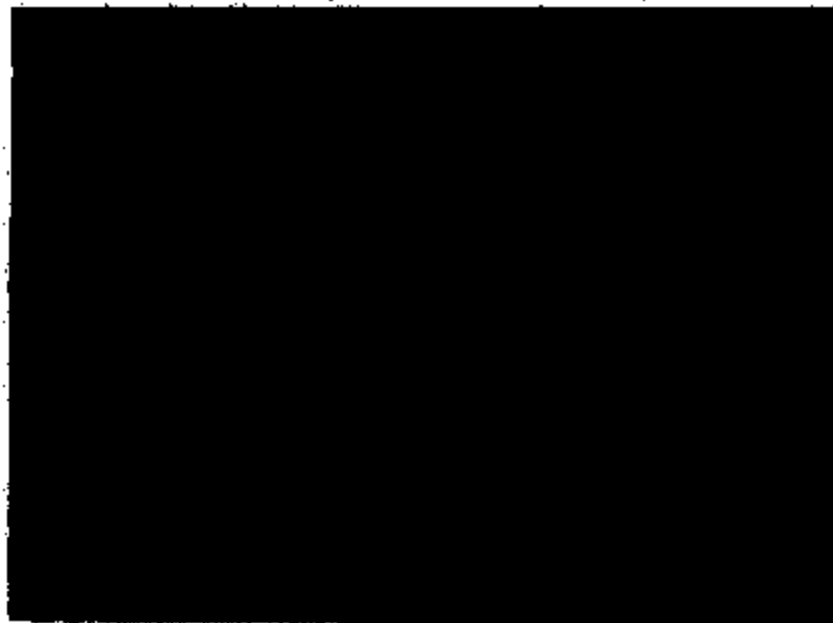
3713 0928

1LNLM92W1PY665224 1993 Lincoln Town Car - Houston, Tx 99-Jan-14 PE98-055



1LNLM92W1PY665224 1993 Lincoln Town Car - Houston, Tx 99-Jan-14 PE98-055

3713 0929



Switch A

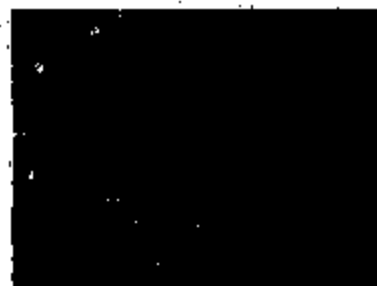
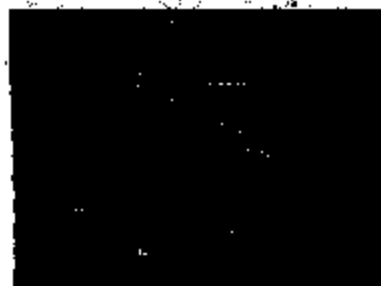
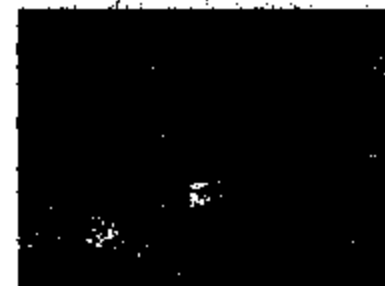
F2VC-9F924-AB 2281

3713 0830

1LNL92W1PY665224 1993 Lincoln Town Car - Houston, TX 99-Jan-14 PE98-055

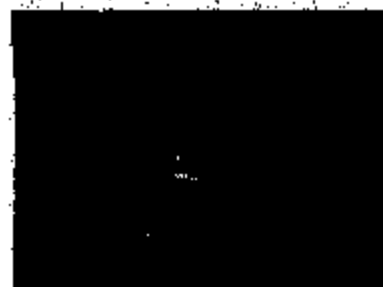
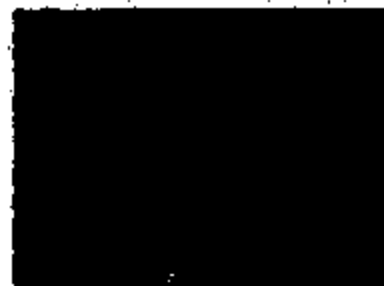
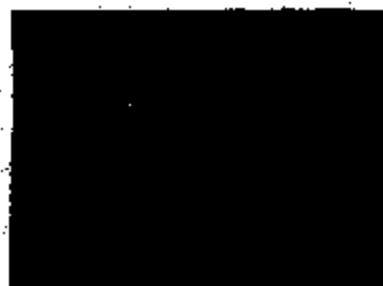


Switch B



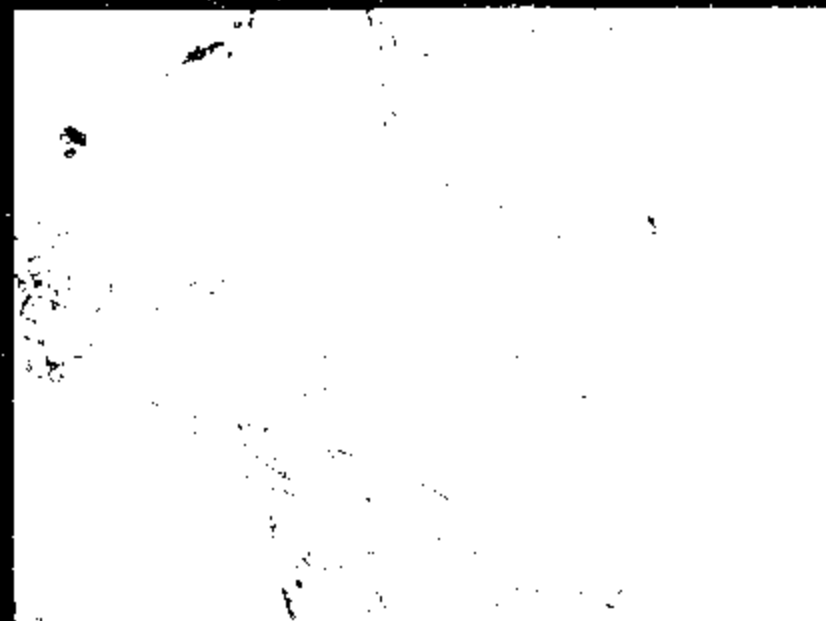
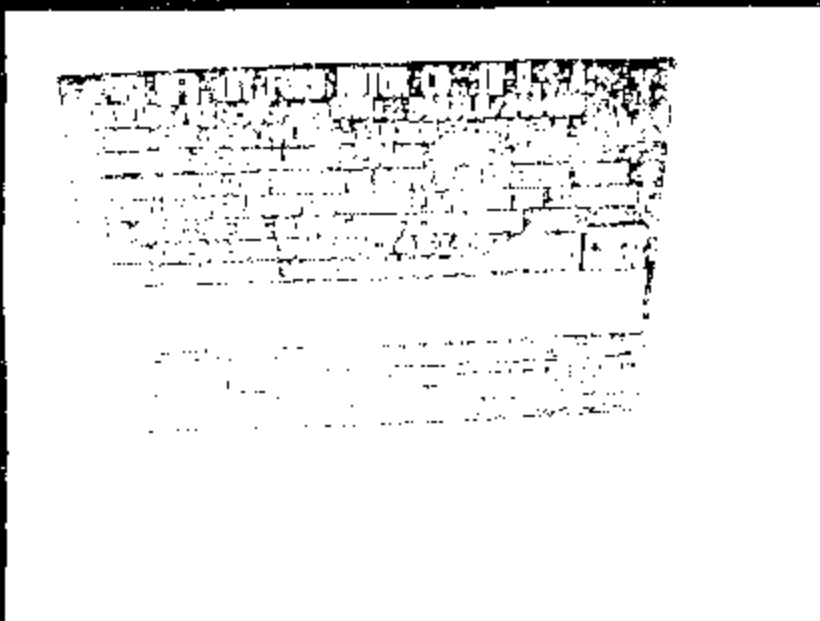
3713 0831

1LNLM83W5NY745119 1992 Lincoln Town Car - Houston, TX 99-Jan-14 PE98-055



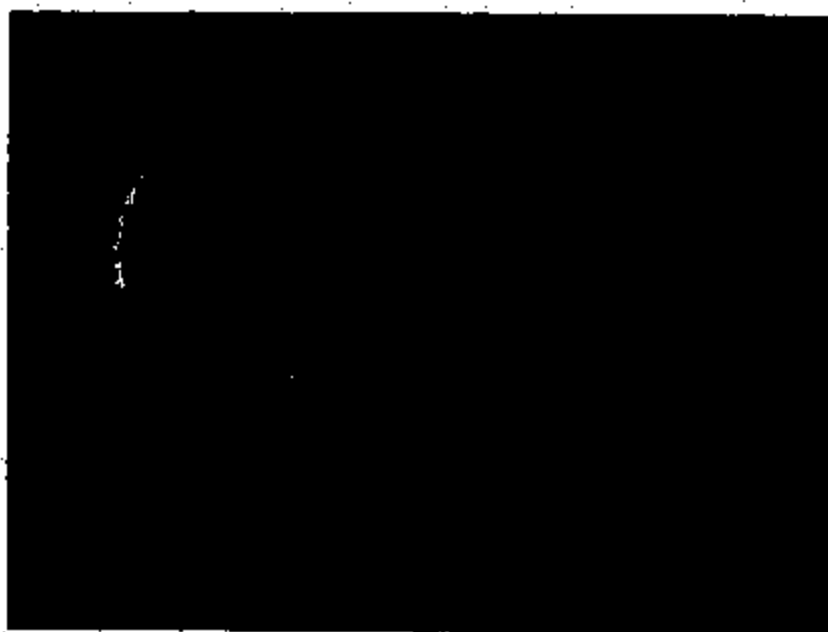
3713 0992

1LNLM83W5NY745119 1992 Lincoln Town Car - Houston, TX 99-Jan-14 PE98-055



3713 0833

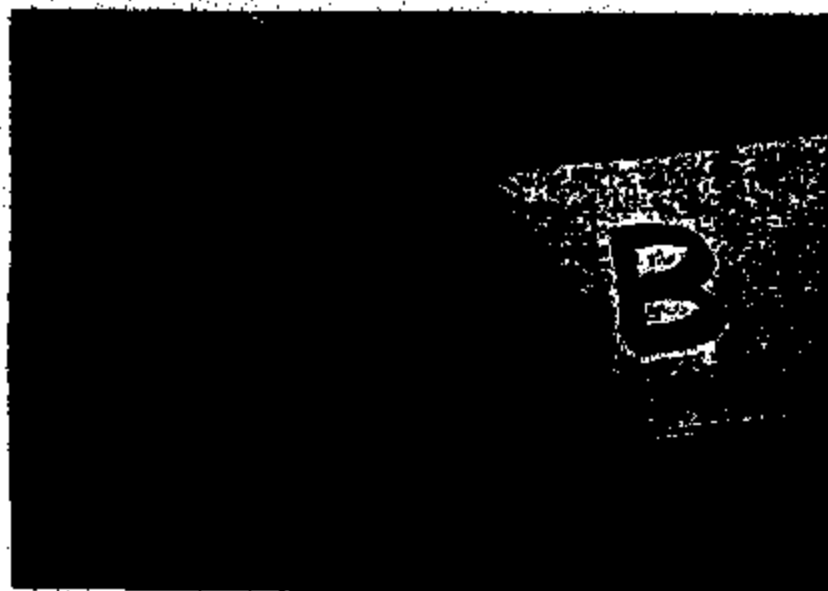
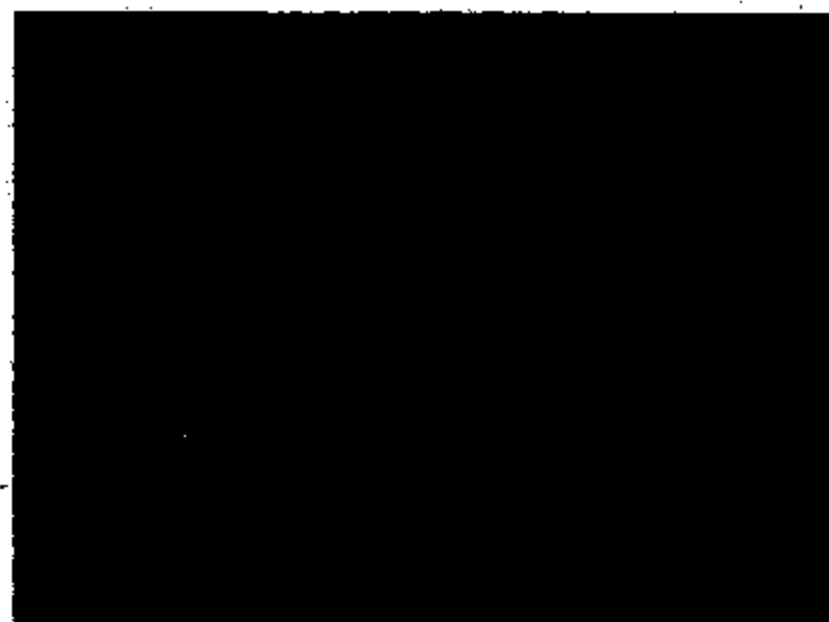
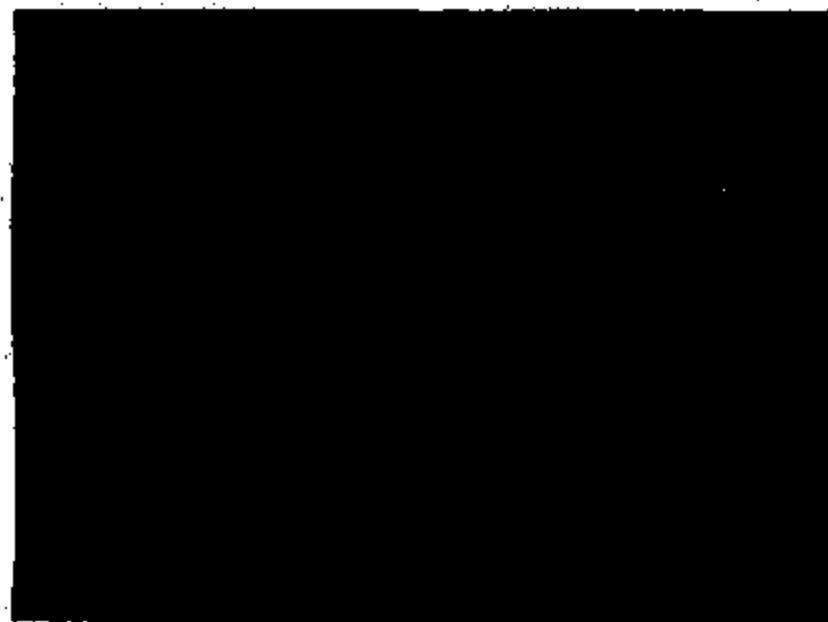
1LNLM83W5NY745119 1992 Lincoln Town Car - Houston, TX 99-Jan-14 PE98-055



Switch B

F2VC-9F924-AB 2114

3713 0834



Switch B

F2VC-9F924-AB 2114

3713 0835

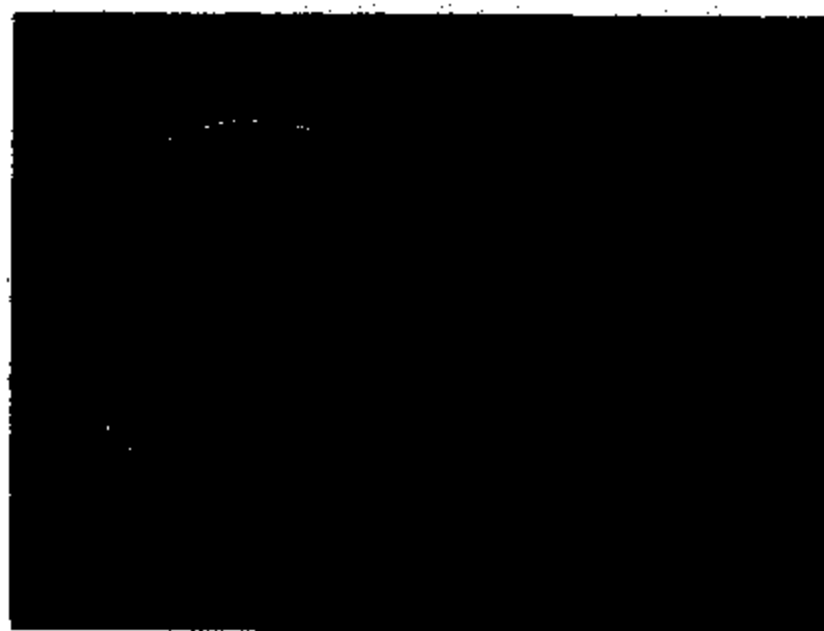
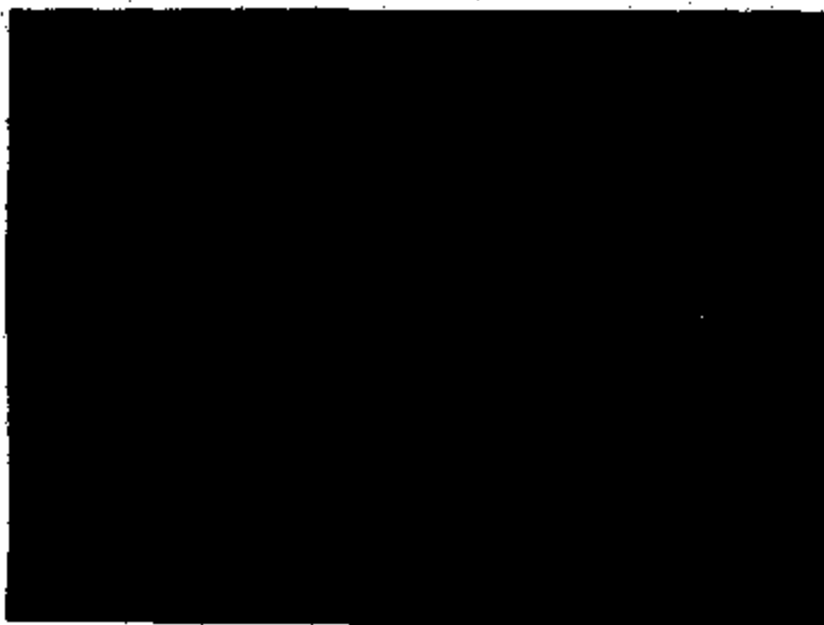
1LNLM83W5NY745119 1992 Lincoln Town Car - Houston, TX 99-Jan-14 PE98-055



Switch C

3718 0636

1LNLM81W2NY703705 1992 Lincoln Town Car - Houston, TX 99-Jan-14 PE98-055



Switch C

F2VC-9F924-AB 2003

3713 0897

1LNLM81W2NY703705 1992 Lincoln Town Car - Houston, TX 99-Jan-14 PE98-055



3713 0936

1LNLM82W7NY740537 1992 Lincoln Town Car - Houston, TX 99-Jan-14 7E98-055



January 15, 1998

Preliminary Findings:

The cup is partially covered with a greenish residue. Residue appears to be primarily an oxide of the brass contact material with possibly a sulfur compound. This suggests transfer of oxide or corrosion product from the brass contacts to the cup.

The stationary contact exhibits intergranular cracks which indicate stress corrosion cracking (SCC). SCC is caused by combination of a specific corrosive environment and a sustained tensile stress (can be localized). Ammonia, ammonia compounds, sulfur compounds, and moisture are known to cause SCC in brass. The contact material has been reported to be 360 brass, which is highly susceptible to SCC.

The presence of brake fluid on the switch side of the diaphragm has been determined. Black residues in the hex port and on the cup, converter, and disc appear to be compounds which may have formed from a reaction between decomposition products (acids) of the polyester base, the brake fluid, and metals in the switch. This suggests that the brake fluid was present on both sides of the diaphragm during the thermal event.

All three diaphragms exhibit what appears to be mechanical damage. The damage does not match up with any mating parts of the switch. This suggests that damage may have occurred prior to assembly. The diaphragm has become brittle and cracked in the vicinity of the damage. Brake fluid has become entrained between the layers (Teflon and capton) of the diaphragms.

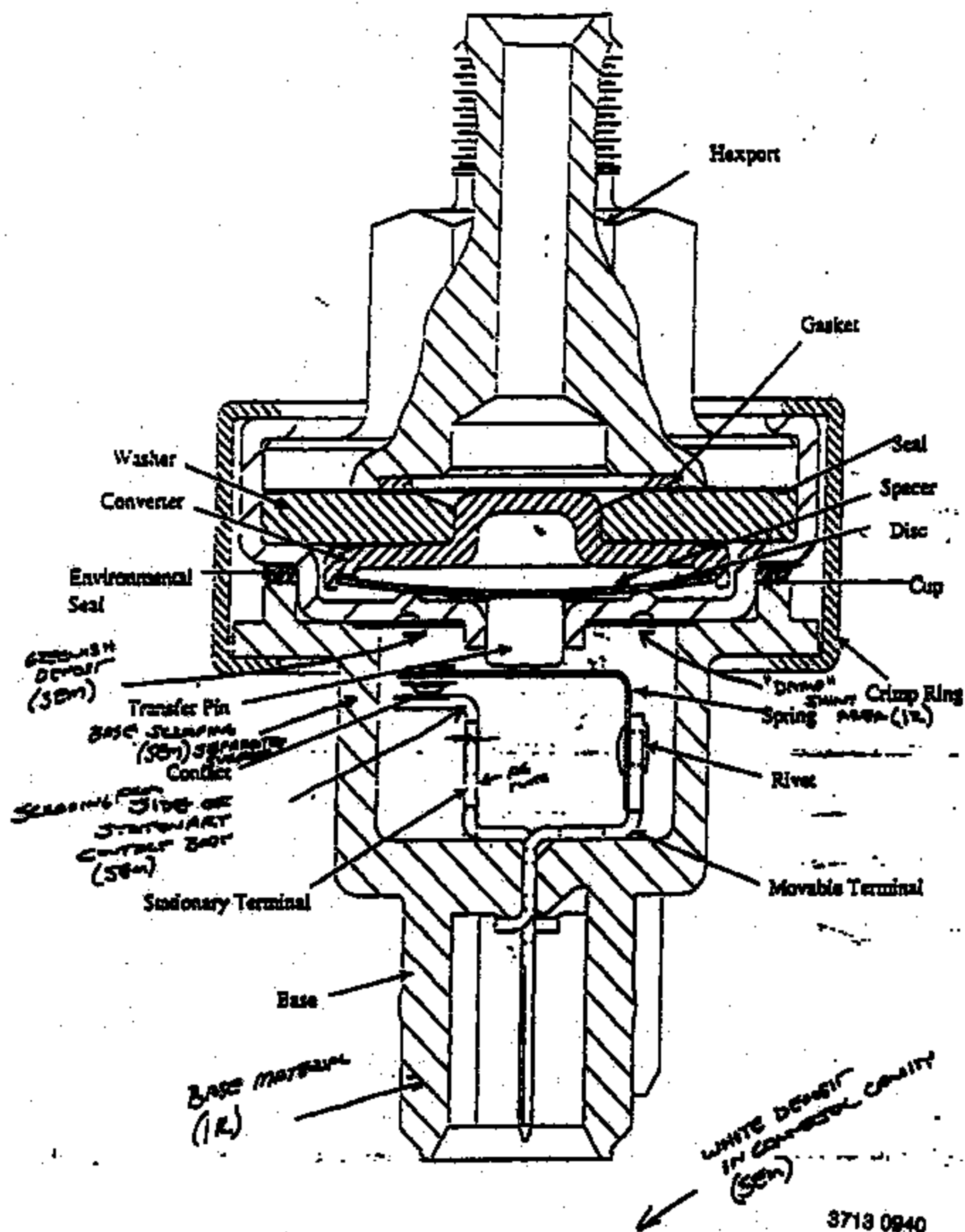
The post of the movable contact melted back into the bulkhead between the switch and terminal cavities of the base. There is also arc damage (localized melting) to one corner of the bridge of the stationary contact. This damage appears fresh (surfaces bright and shiny) which suggests that it may have occurred in the later stages of the thermal event.

The terminals exhibit deposits which appear to be primarily sulfur compounds of the terminal material (tin plated brass). Although these deposits appear visually similar to the deposit found on the cup, they appear to be of different composition.

The white residue found in the connector cavity contains elements found in dry chemical fire extinguishers (Muscovite and phosphorus)

Steve LaRouche

Hydraulic Pressure Switch Cross Section



TOWN CR - BRK PRESSURE SW
FALL 1975

3713 0941

2C017
#5



THIS PAGE IS PRESENT

TO ACCOUNT FOR A

NUMBERING ERROR

3713 0942

1992 TOWN CAR

CKT

	BATTERY TO ENGINE COMPART FUSE BOX	R
	BATTERY TO STEERING MOTOR RELAY	R
36	POB TO ALTERNATOR	BK/O
36	POB TO ALTERNATOR	Y/W
325	POB TO KNOCK SW	DB/O
38	POB TO 1/P FUEL PUMP	BK/O
537	POB TO ANTI-LOCK BRAKE MOTOR RELAY	T/Y PG 423
568	POB TO IGN SWITCH	LG
175	POB TO RR WOOD DEFEAT CTR	BK/Y PG 561
236	POB TO IGN SWITCH	BR
517	POB TO FUEL PUMP RELAY	BK/W
	TRUCK LID SWITCH	
	DOOR LOCK RELAY	
	DOOR LOCK SW SWITCH	
	POB TO SW SWITCH	
937	POB TO AIR FRESH MODULE	R/W
787	POB TO FUEL PUMP RELAY	R/BK
37	POB TO IGN SW/STEERING MOTOR RELAY	Y (ON PG 134)
828	POB TO AMPLIFIER FOR SUB WOOFER AMPLIFIER	P/LB
533	POB TO ANTI-LOCK BRAKE MODULE	T/R
554	POB TO EEC FUEL RELAY/ EEC MODULE	Y/BK
414	POB TO AIR SPRING solenoids (R & L RELAY)	
	AIR SUPP CHASSIS MOTOR & VENT	O/R
931	POB TO TRAILER BATTERY CHARGING RELAY	O
50	POB TO PARK TO ELECT BRAKES (TR)	R
576	POB TO TRAILER LAMP RELAY	DG
10	1/P FUEL PUMP TO BRAKE PUMP SWITCH	LG/R

TO ALTERNATOR
290 POB TO FUEL LINE D CUMULATIVE ONLY GY

296 POB TO ENGINE RUNNING LAMP MODULE W/P 1993 ONLY
1992 WOOD ON UP FUEL PUMP
1993 " " POB

① BARK FLD AND FOR SWS

GARY KLINGER - SPO CONTROL - VOTER

T1 SUPPLER

MAN

(313) 553-1957

FRODO

↳ AER

BURZ 1 USE PERZILLI (TGT) 266-989

FRODO FORER -

SHAW MURRY

AND PERZILLI SW MURRY - 2-24-09

SUMMARY

- 1) Reviewed 166 82/83 Town Car reports which included:
Owner Reports (MORS)
Field Reports (CQIS)
Lawsuits and Claims Litigation Prevention Files
NHTSA Reports

There were 47 reports categorized engine off/unknown and underhood based on the information available.

30 out of 47 are reported engine off.
17 out of 47 are reported unknown.

Of the 30 vehicles reported with the engine off:
15 are reported to be unknown probable cause.
7 are reported to be electrical as a probable cause.
4 are reported as having started in the left front wheel area.
4 are reported as the brake pressure switch probable cause.

Of the 17 vehicles reported with the engine unknown:
11 are reported to be unknown probable cause.
3 are reported to be electrical as a probable cause.
1 is reported as the brake pressure switch as a probable cause.
1 is reported as spark plug wires as a probable cause.
1 is reported as the solenoid pressure sensor as a probable cause.

Specific cause reports were ruled out other than the four components as defined by NHTSA, including the brake pressure switch.

- 2) The file of the 47 vehicles were sent to FCSD for review of option content.
① Trans-Tec ② Traction Assist T-40 & 224
- 3) Provided the list of the 47 vehicles to Vehicle Safety Office for further investigation of these vehicles.

NO EXTERIOR BLIND ON THE EXTERIOR REPAIR

NEXT STEPS:

Review CV/GM CQIS reports for the same criteria as Town Car.
Reviewing Town Car underhood hot circuits, engine off with UTA on 3/2/99.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	12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From available information, we cannot rule out the CHSMA as the responsible party.

[illegible]

3713 0847

1992 and 1993 Town Car underhood fires
one can not rule out the 9F924 switch

WA MT ND MN WI IL IN OH PA NY NJ CT RI ME VT NH MA DE AL AK HI

23 unknown

126 Town Cars
3 Grand Marquis
1 Crown Victoria
Note: Data has not been fully updated for CV/GM

23 unknown

126 Town Cars
3 Grand Marquis
1 Crown Victoria
Note: Data has not been
fully updated for CV/GM

71304-035
99 Feb 89
exp. back possible sw.net

3713 0848

1992 and 1993 Town Car underhood fires
engine off or engine unknown



3713 0849

Joe Valente
Sales Engineer



UT Automotive

A United Technologies Company

United Technologies Automotive, Inc.
8200 Auto Club Drive
Dearborn, Michigan 48126
313-597-2727 Fax: 313-523-2023
Pager: 313-290-8834 Cell Phone: 810-819-0480
E-Mail: jvalente@uta.com

Windshield Low Fluid Switch: 17B649

VL - VB (Town Car)

Next Level of Assembly	Effective In	Effective Out	Component of Assembly
F1VU-17B613-AA	XS4P91A	XS4P93A	F1AU-17B649-AA
F3VU-17B613-AA	XS4P93A	J4P95A	F3AU-17B649-AA

Windshield Washer Pump: 17664

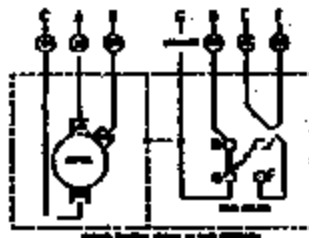
VL - VB (Town Car)

Next Level of Assembly	Effective In	Effective Out	Component of Assembly
F1VU-17B613-AA	XS4P91A	XS4P93A	E57F-17664-AA
F3VU-17B613-AA	XS4P93A	J4P95A	E57F-17664-AA

Windshield Wiper Motor: 17508

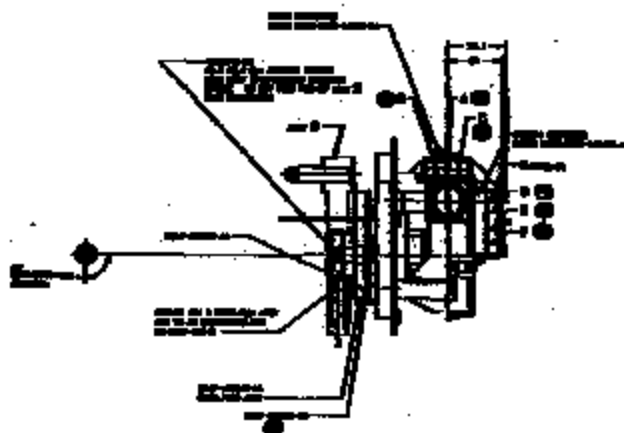
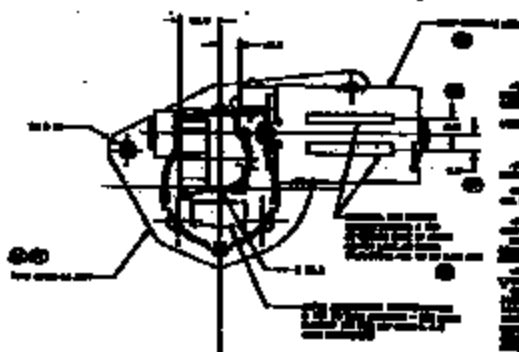
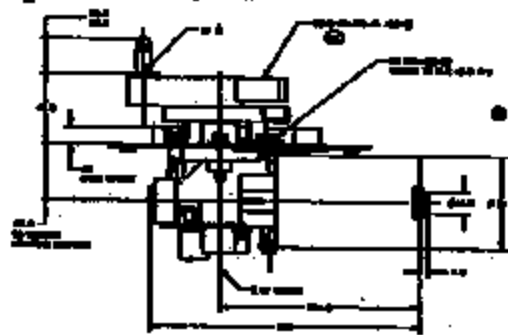
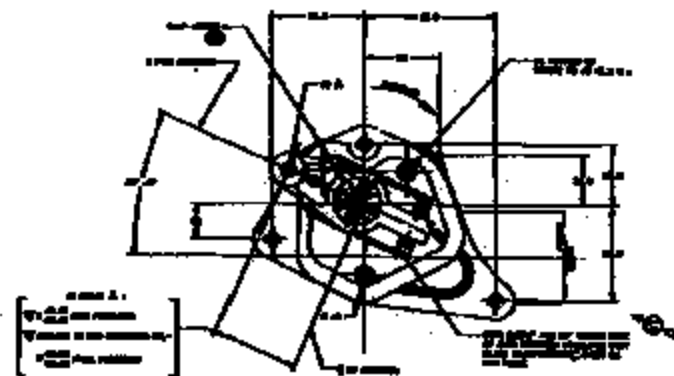
VL - FB (Crown Vic)

Next Level of Assembly	Effective In	Effective Out	Component of Assembly
F1VU-17504-AA	J4P92A	XS4P92A	F0VF-17508-AA
F2VU-17504-AA	XS4P92A	SJ4P95A	F1VU-17508-AA



spring growth	summer drydown
100% 100%	100% 100%
100% 100%	100% 100%
100% 100%	100% 100%

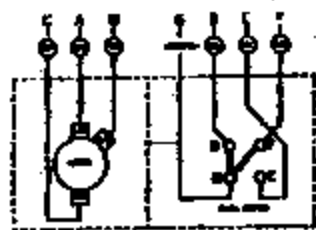
2000-2001		2001-2002	
2000-2001	2001-2002	2001-2002	2002-2003
2001-2002	2002-2003	2002-2003	2003-2004
2002-2003	2003-2004	2003-2004	2004-2005
2003-2004	2004-2005	2004-2005	2005-2006
2004-2005	2005-2006	2005-2006	2006-2007
2005-2006	2006-2007	2006-2007	2007-2008
2006-2007	2007-2008	2007-2008	2008-2009
2007-2008	2008-2009	2008-2009	2009-2010
2008-2009	2009-2010	2009-2010	2010-2011
2009-2010	2010-2011	2010-2011	2011-2012
2010-2011	2011-2012	2011-2012	2012-2013
2011-2012	2012-2013	2012-2013	2013-2014
2012-2013	2013-2014	2013-2014	2014-2015
2013-2014	2014-2015	2014-2015	2015-2016
2014-2015	2015-2016	2015-2016	2016-2017
2015-2016	2016-2017	2016-2017	2017-2018
2016-2017	2017-2018	2017-2018	2018-2019
2017-2018	2018-2019	2018-2019	2019-2020
2018-2019	2019-2020	2019-2020	2020-2021
2019-2020	2020-2021	2020-2021	2021-2022
2020-2021	2021-2022	2021-2022	2022-2023
2021-2022	2022-2023	2022-2023	2023-2024
2022-2023	2023-2024	2023-2024	2024-2025
2023-2024	2024-2025	2024-2025	2025-2026
2024-2025	2025-2026	2025-2026	2026-2027
2025-2026	2026-2027	2026-2027	2027-2028
2026-2027	2027-2028	2027-2028	2028-2029
2027-2028	2028-2029	2028-2029	2029-2030
2028-2029	2029-2030	2029-2030	2030-2031
2029-2030	2030-2031	2030-2031	2031-2032
2030-2031	2031-2032	2031-2032	2032-2033
2031-2032	2032-2033	2032-2033	2033-2034
2032-2033	2033-2034	2033-2034	2034-2035
2033-2034	2034-2035	2034-2035	2035-2036
2034-2035	2035-2036	2035-2036	2036-2037
2035-2036	2036-2037	2036-2037	2037-2038
2036-2037	2037-2038	2037-2038	2038-2039
2037-2038	2038-2039	2038-2039	2039-2040
2038-2039	2039-2040	2039-2040	2040-2041
2039-2040	2040-2041	2040-2041	2041-2042
2040-2041	2041-2042	2041-2042	2042-2043
2041-2042	2042-2043	2042-2043	2043-2044
2042-2043	2043-2044	2043-2044	2044-2045
2043-2044	2044-2045	2044-2045	2045-2046
2044-2045	2045-2046	2045-2046	2046-2047
2045-2046	2046-2047	2046-2047	2047-2048
2046-2047	2047-2048	2047-2048	2048-2049
2047-2048	2048-2049	2048-2049	2049-2050
2048-2049	2049-2050	2049-2050	2050-2051
2049-2050	2050-2051	2050-2051	2051-2052
2050-2051	2051-2052	2051-2052	2052-2053
2051-2052	2052-2053	2052-2053	2053-2054
2052-2053	2053-2054	2053-2054	2054-2055
2053-2054	2054-2055	2054-2055	2055-2056
2054-2055	2055-2056	2055-2056	2056-2057
2055-2056	2056-2057	2056-2057	2057-2058
2056-2057	2057-2058	2057-2058	2058-2059
2057-2058	2058-2059	2058-2059	2059-2060
2058-2059	2059-2060	2059-2060	2060-2061
2059-2060	2060-2061	2060-2061	2061-2062
2060-2061			



10

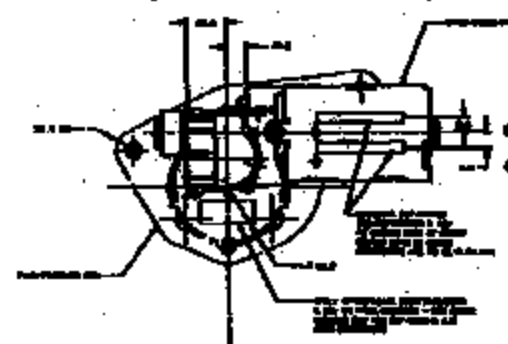
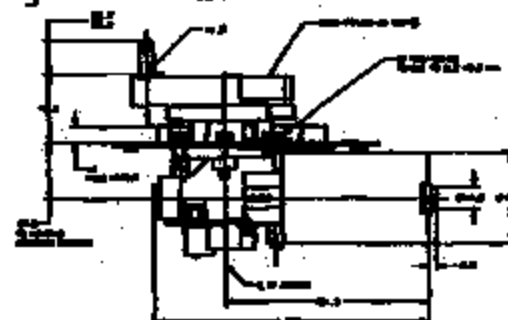
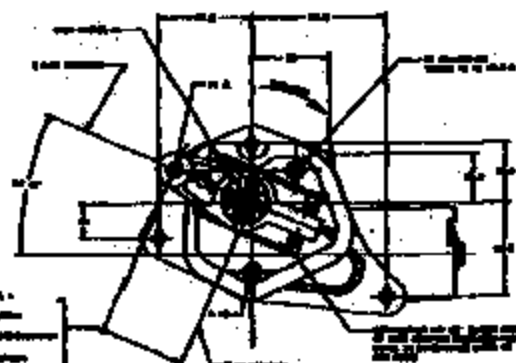
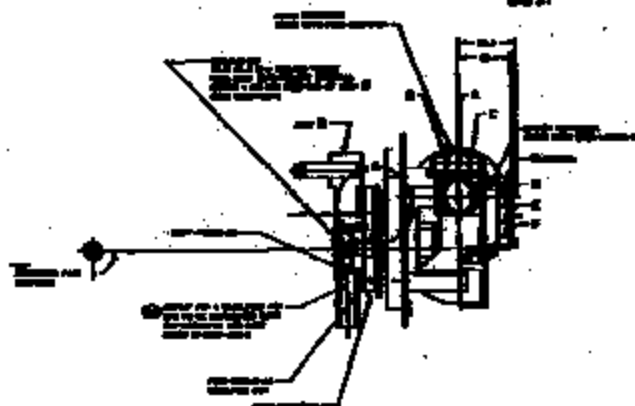
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3713 08650



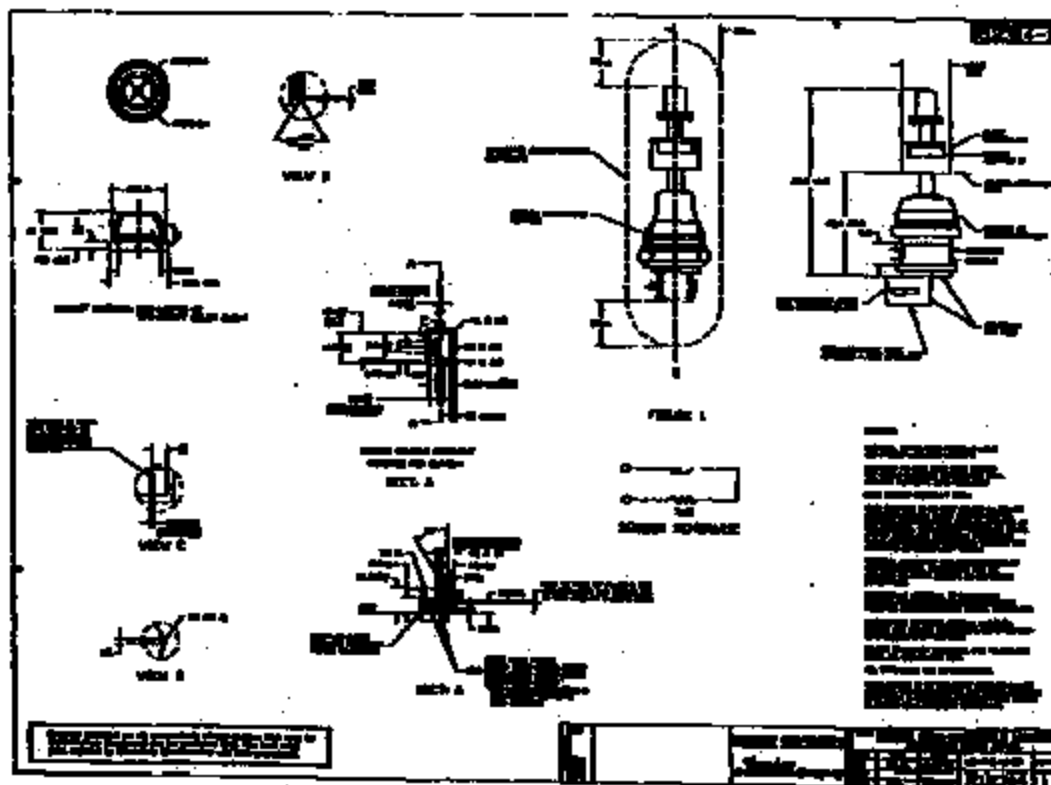
Part Name	Part Number
Motor	100-1000
Switch 1	100-1001
Switch 2	100-1002
Switch 3	100-1003
Switch 4	100-1004
Switch 5	100-1005
Switch 6	100-1006

Part Name	Part Number
Motor	100-1000
Switch 1	100-1001
Switch 2	100-1002
Switch 3	100-1003
Switch 4	100-1004
Switch 5	100-1005
Switch 6	100-1006



This diagram is a schematic representation of the mechanical assembly shown in the cross-sectional views. It illustrates the internal components and their interconnections. The labels with numbers correspond to the parts listed in the tables on the left side of the page. The diagram is intended to provide a clear understanding of the internal structure and operation of the assembly.

TITLE: DATE: DRAWN BY: CHECKED BY: APPROVED BY:	
PARTS LIST: 1. Motor 2. Switch 1 3. Switch 2 4. Switch 3 5. Switch 4 6. Switch 5 7. Switch 6	
MATERIALS: 1. Motor 2. Switch 1 3. Switch 2 4. Switch 3 5. Switch 4 6. Switch 5 7. Switch 6	
NOTES: 1. This diagram is a schematic representation of the mechanical assembly shown in the cross-sectional views. 2. The labels with numbers correspond to the parts listed in the tables on the left side of the page. 3. The diagram is intended to provide a clear understanding of the internal structure and operation of the assembly.	



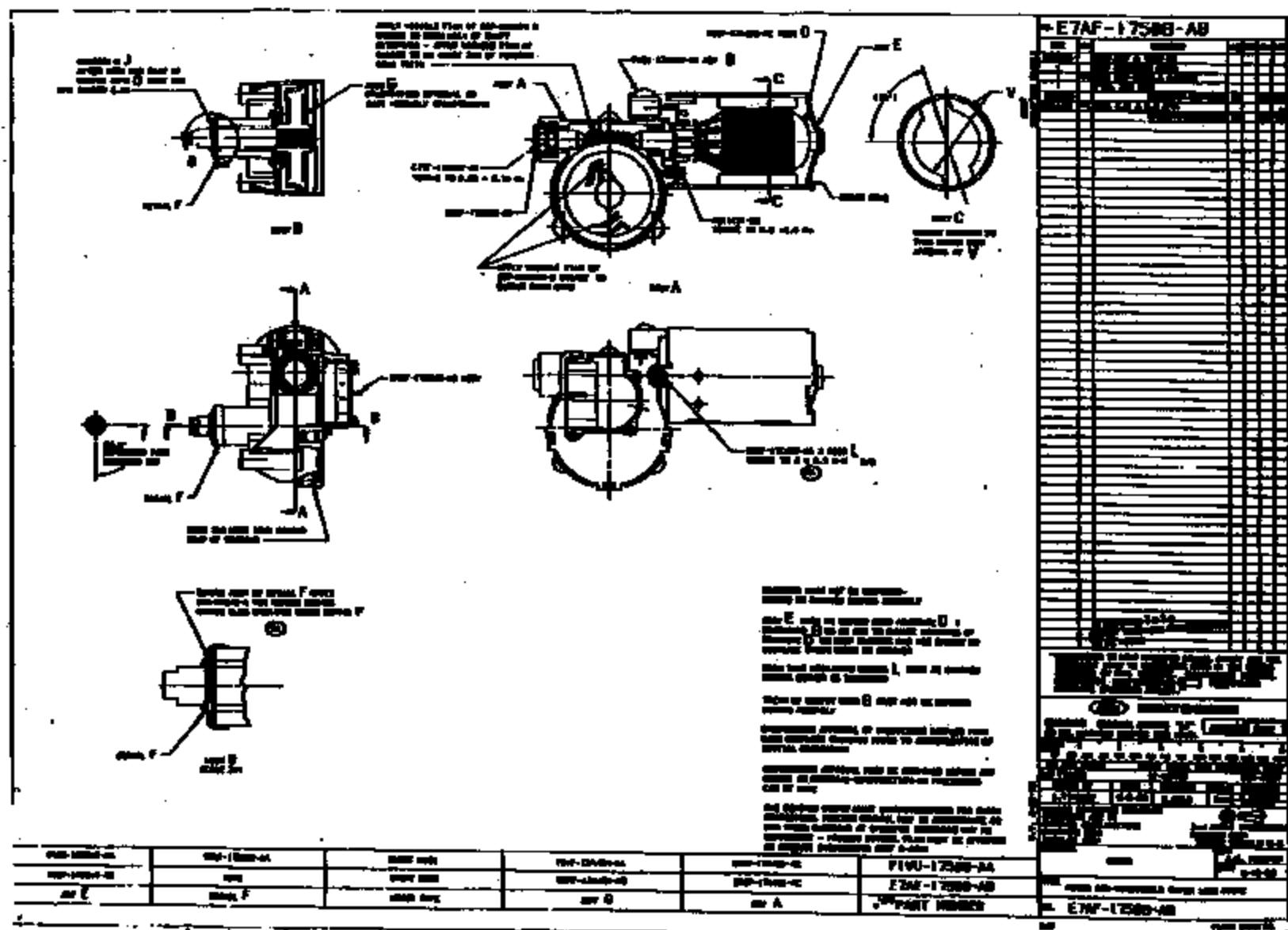
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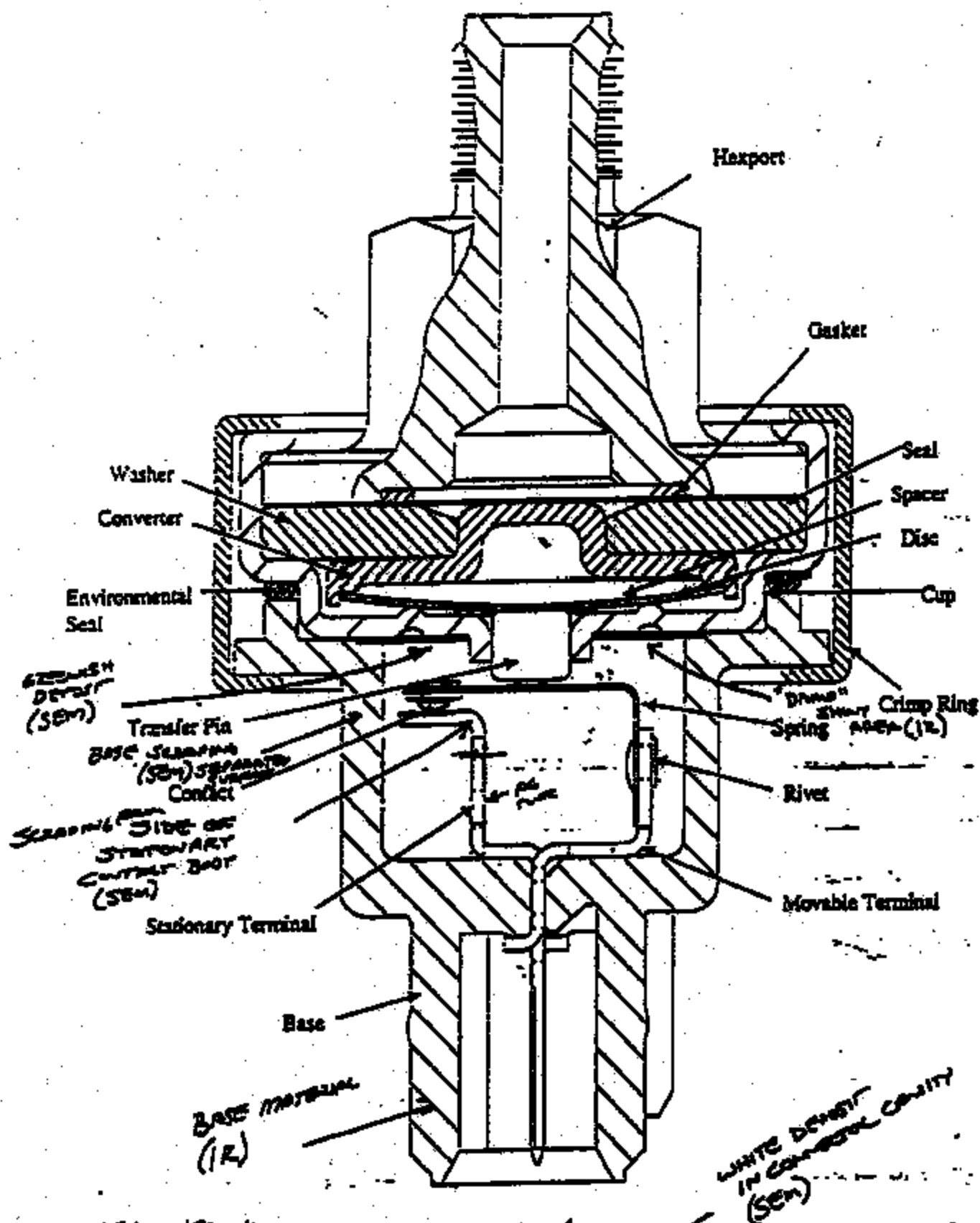
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 2. DATE: [REDACTED]
 3. DRAWN BY: [REDACTED]
 4. CHECKED BY: [REDACTED]
 5. APPROVED BY: [REDACTED]

3713 0861



Hydraulic Pressure Switch Cross Section





Central Laboratory
15000 Century Drive
Dearborn, MI 48120-1257

January 15, 1999

Preliminary Findings:

The cup is partially covered with a greenish residue. Residue appears to be primarily an oxide of the brass contact material with possibly a sulfur compound. This suggests transfer of oxide or corrosion product from the brass contacts to the cup.

The stationary contact exhibits intergranular cracks which indicate stress corrosion cracking (SCC). SCC is caused by combination of a specific corrosive environment and a sustained tensile stress (can be localized). Ammonia, ammonia compounds, sulfur compounds, and moisture are known to cause SCC in brass. The contact material has been reported to be 360 brass, which is highly susceptible to SCC.

The presence of brake fluid on the switch side of the diaphragm has been determined. Black residues in the hex port and on the cup, converter, and disc appear to be compounds which may have formed from a reaction between decomposition products (acids) of the polyester base, the brake fluid, and metals in the switch. This suggests that the brake fluid was present on both sides of the diaphragm during the thermal event.

All three diaphragms exhibit what appears to be mechanical damage. The damage does not match up with any mating parts of the switch. This suggests that damage may have occurred prior to assembly. The diaphragm has become brittle and cracked in the vicinity of the damage. Brake fluid has become entrained between the layers (Teflon and capton) of the diaphragms.

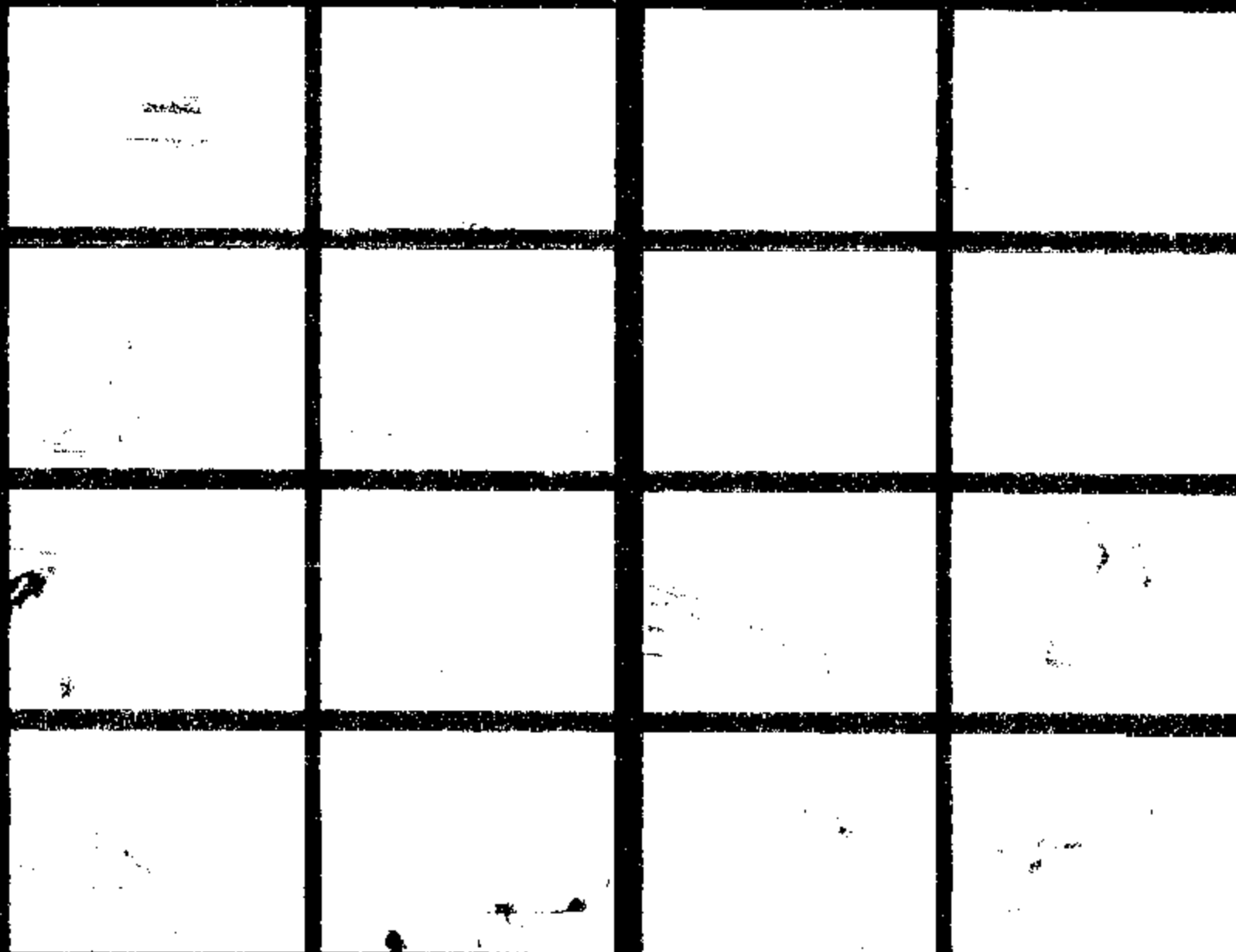
The post of the movable contact melted back into the bulkhead between the switch and terminal cavities of the base. There is also arc damage (localized melting) to one corner of the bridge of the stationary contact. This damage appears fresh (surfaces bright and shiny) which suggests that it may have occurred in the later stages of the thermal event.

The terminals exhibit deposits which appear to be primarily sulfur compounds of the terminal material (tin plated brass). Although these deposits appear visually similar to the deposit found on the cup, they appear to be of different composition.

The white residue found in the connector cavity contains elements found in dry chemical fire extinguishers (Muscovite and phosphorus)

Steve LaRouche

3713 0963



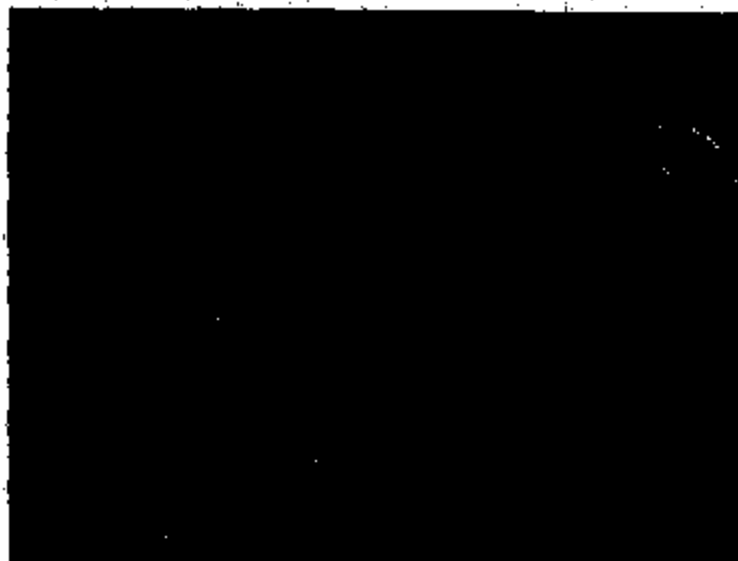
3713 0924

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3713 0965

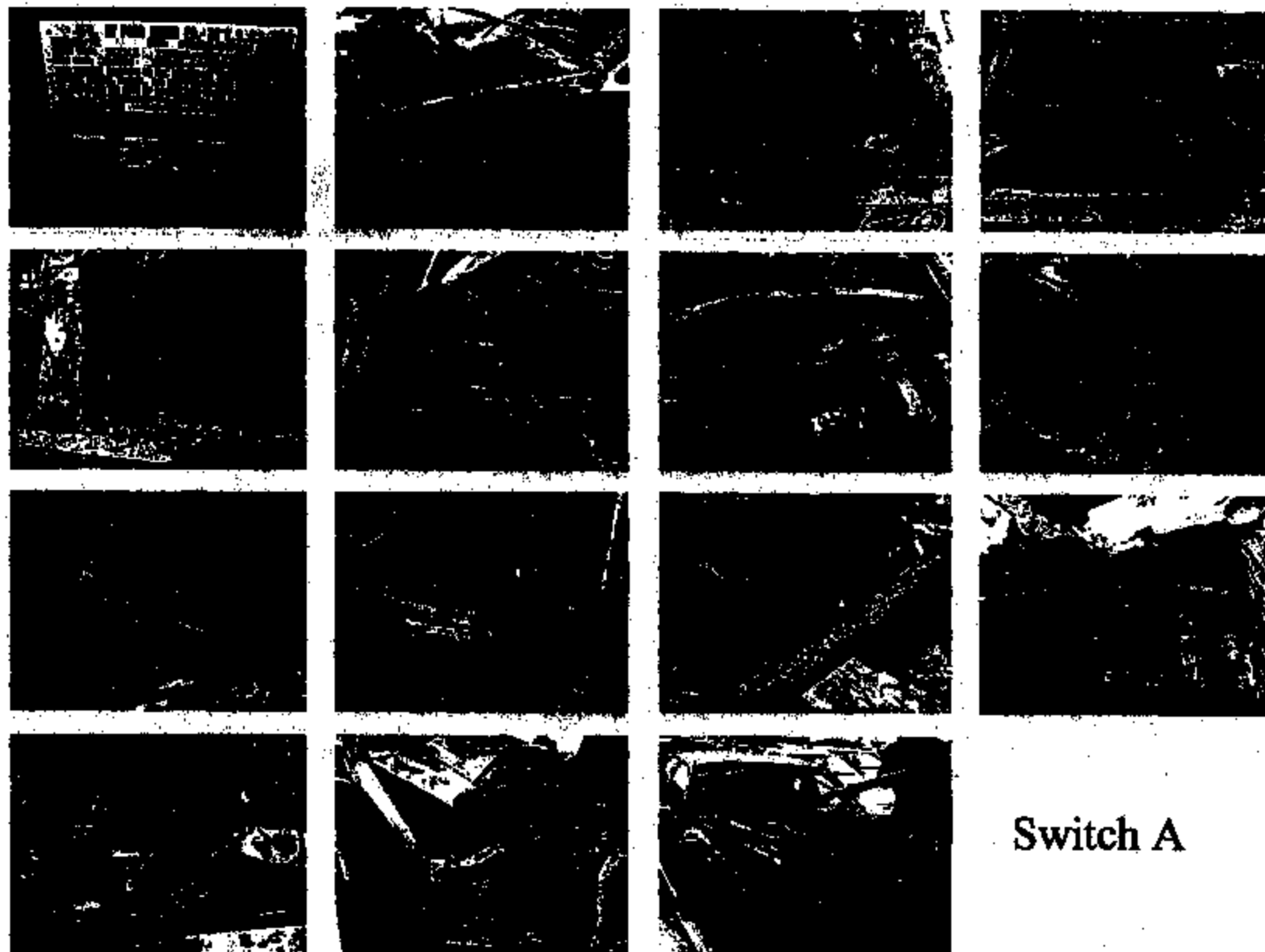
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DE 98-055

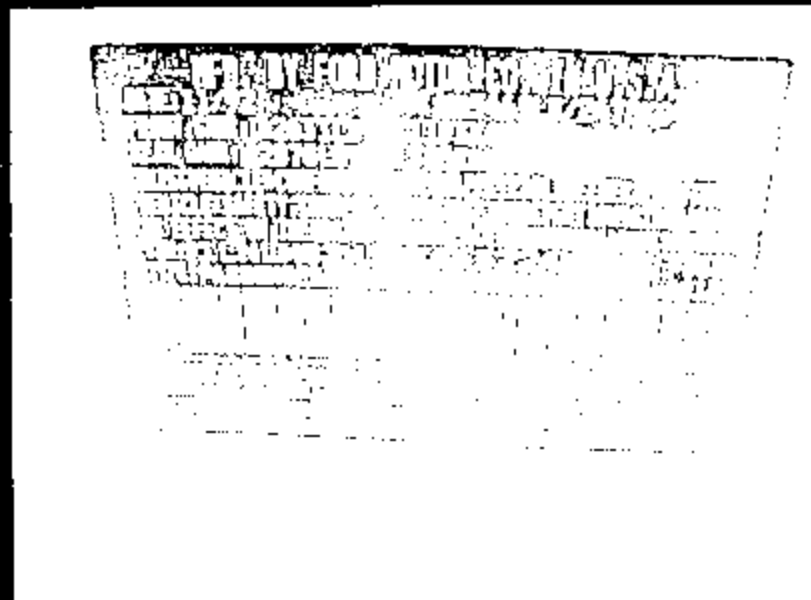


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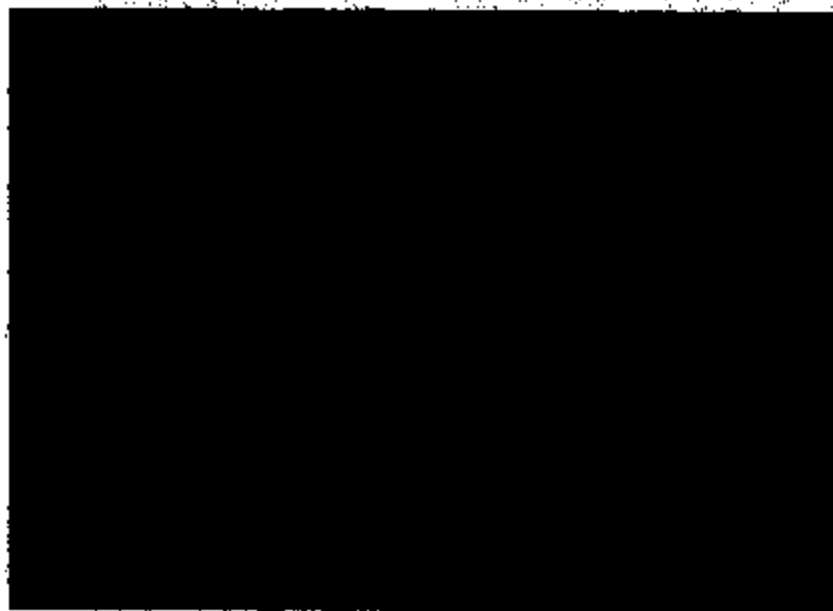
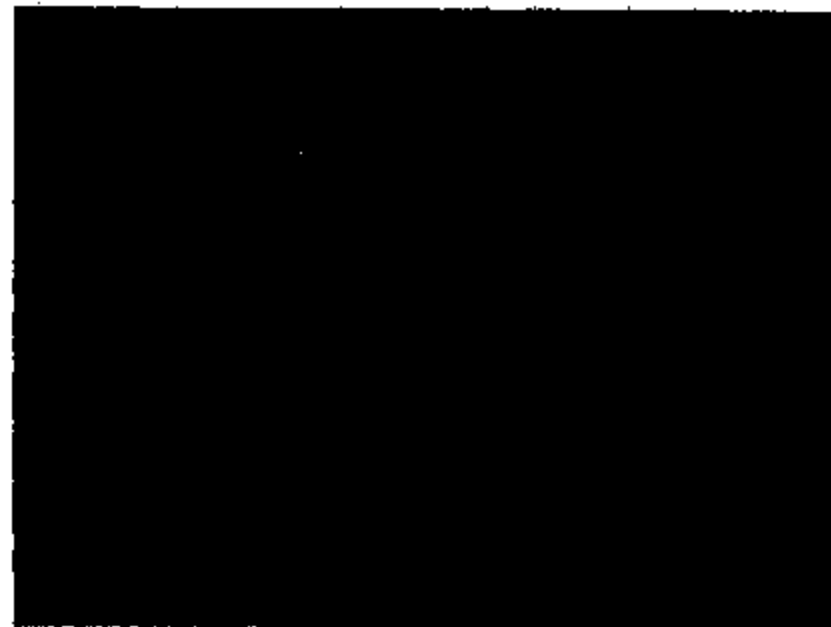


Switch A



3713 0888

1LNLM92W1PY665224 1993 Lincoln Town Car - Houston, Tx 99-Jan-14 PE98-055



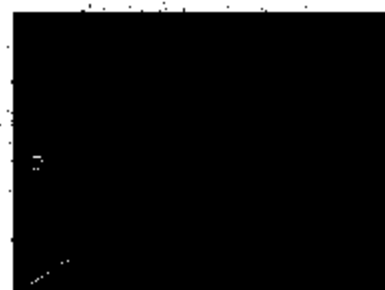
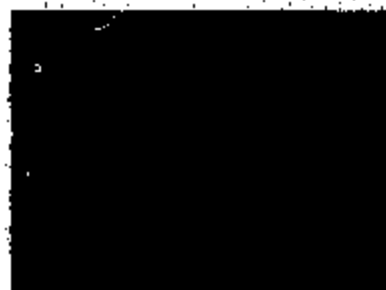
Switch A

F2VC-9F924-AB 2281

3713 0809



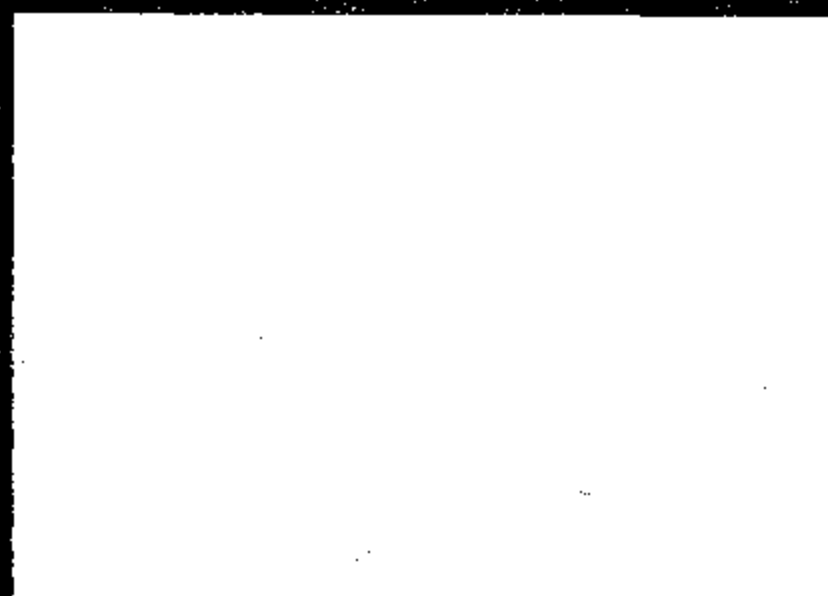
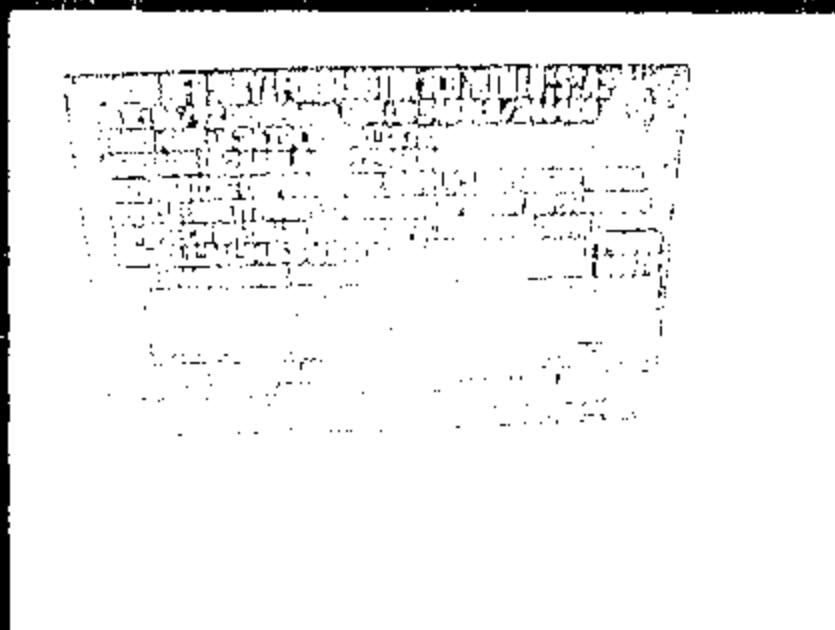
Switch B



3713 0870

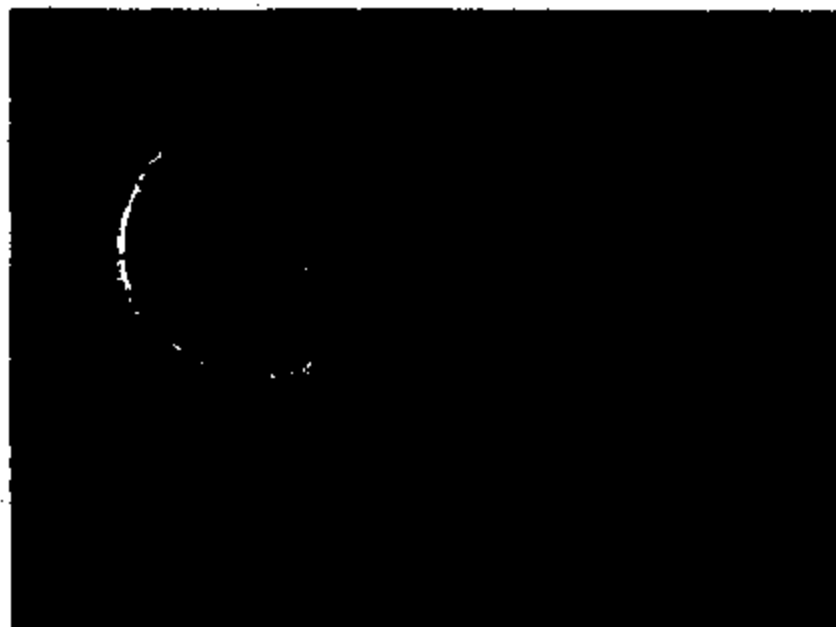
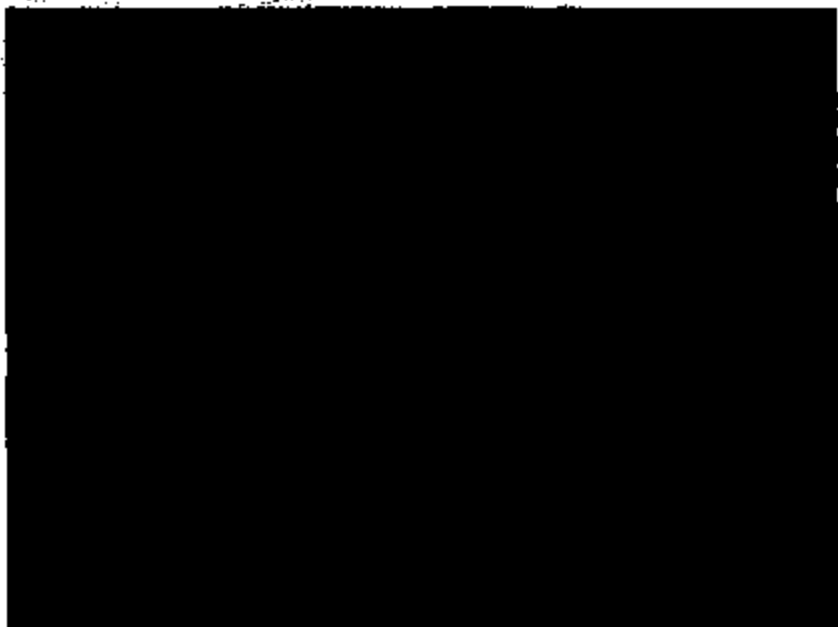


3713 0871



3713 0872

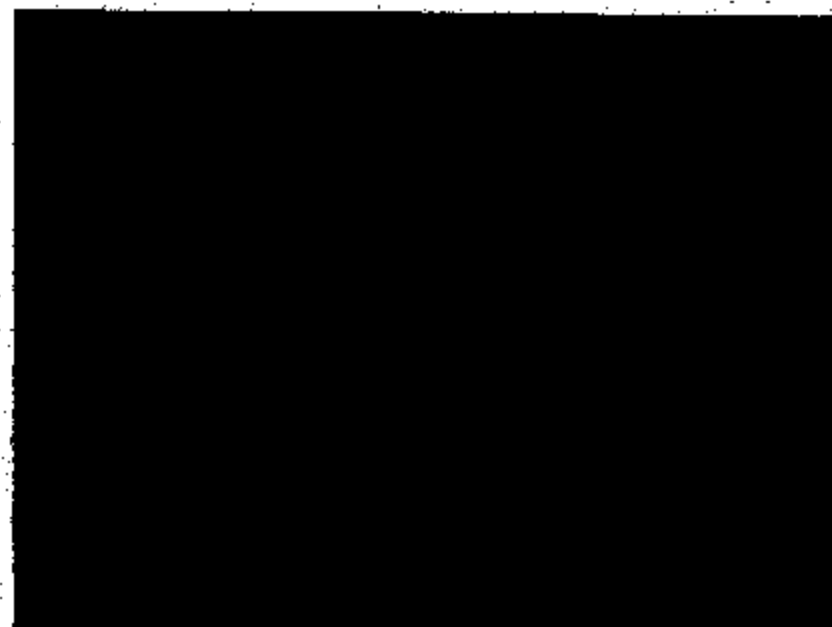
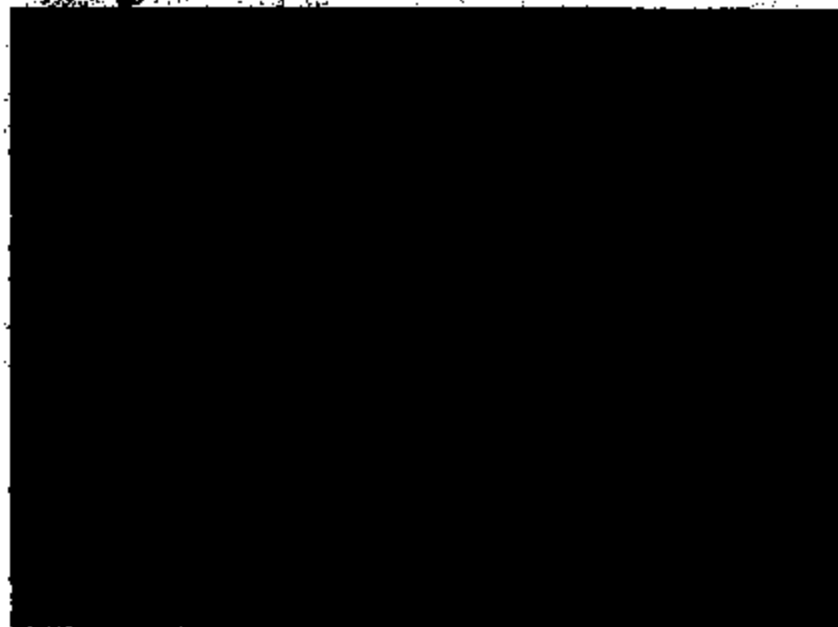
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3713 08/3

Switch B

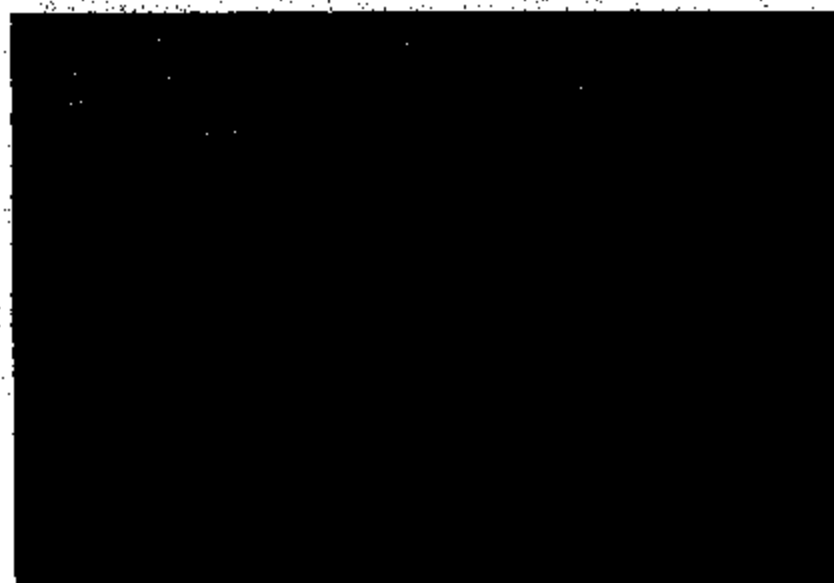
F2VC-9F924-AB 2114



Switch B

F2VC-9F924-AB 2114

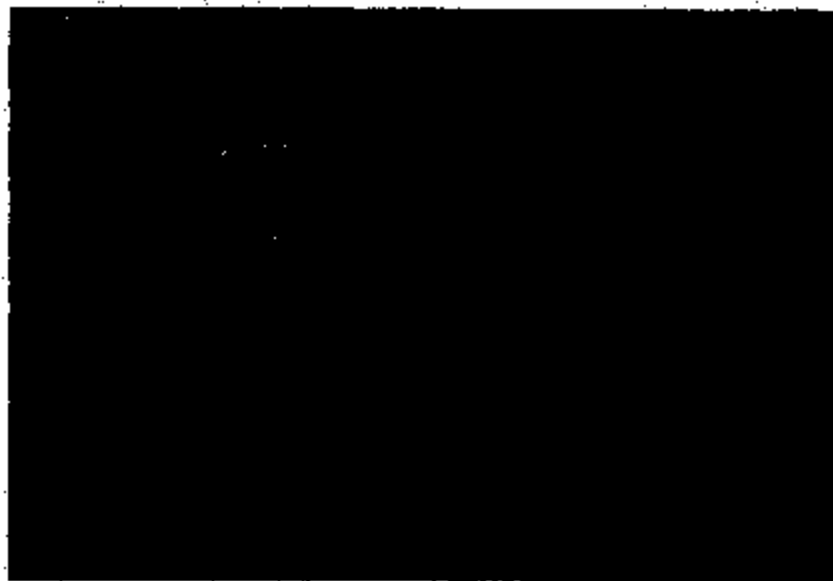
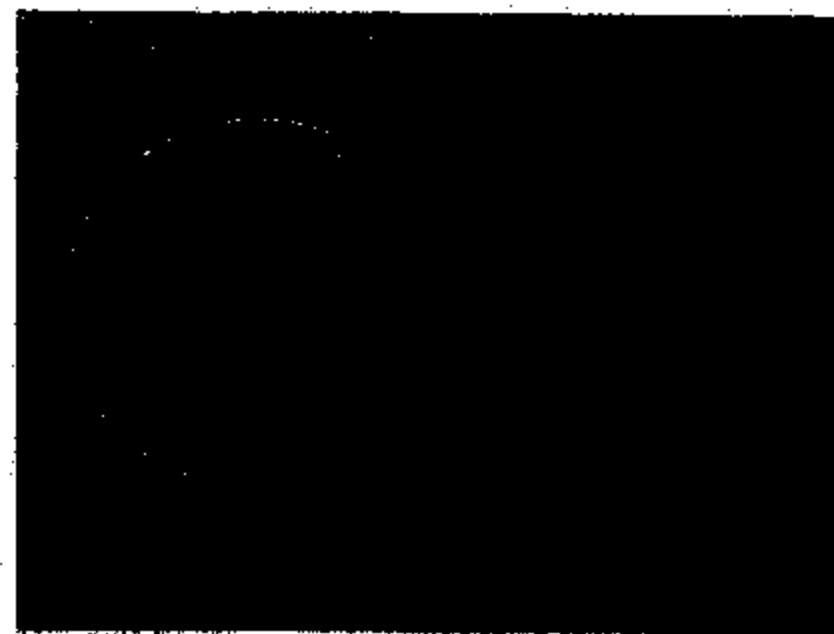
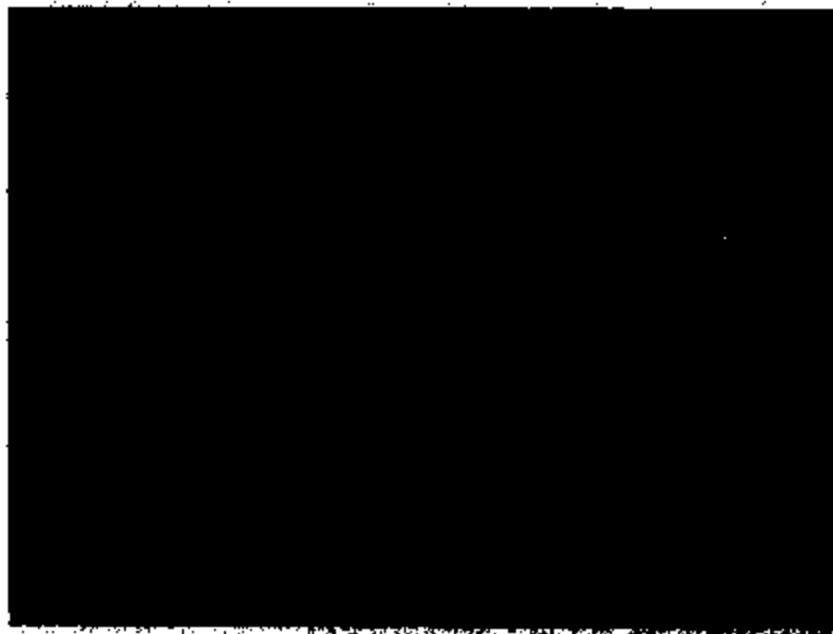
3713 0974



Switch C

3713 0876

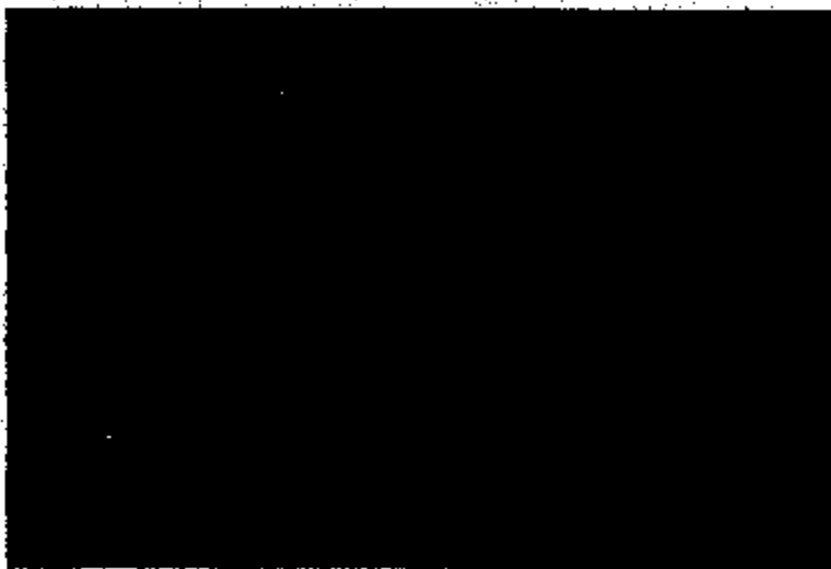
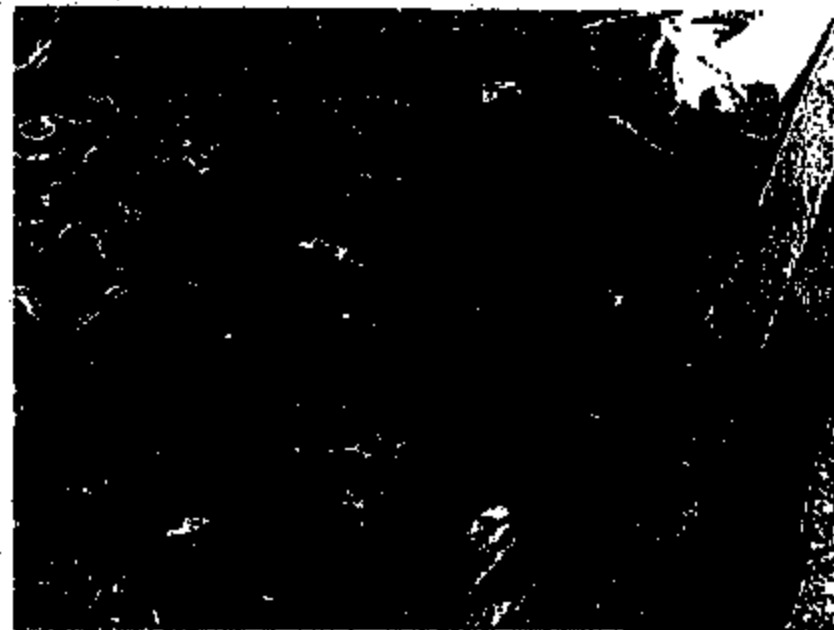
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Switch C

F2VC-9F924-AB 2003

9713 0976



3713 0977

ILNLM82W7NY740537 1992 Lincoln Town Car - Houston, TX 99-Jan-14

1E98-055

1992-93 LINCOLN TOWN CAR UNDERHOOD FIRES

FE98-055

CITY	STATE	ZIP	TELEPHONE	VIN	MODEL	YEAR	MODEL	BUILD	DATE	DATE	REPORT	REPORT	TYPE	MILEAGE	ISSUE	REPORTED	POSSIBLE
Huge	OK			11NLM81WYH	1992	Town Car	031392	030392	091199	091199	091199	091199	COSE/	84,363	Fire	Fire	Under hood on street parked and
Evergreen Park	IL			11NLM81WYH	1992	Town Car	031392	030392	091199	091199	091199	091199	COSE	220,348	Fire	Fire	Under hood on street parked and
Staley	IL			11NLM81WYH	1992	Town Car	031392	030392	091199	091199	091199	091199	COSE	21,289	Fire	Fire	Under hood on street parked and
Los Angeles	CA			11NLM81WYH	1992	Town Car	031392	030392	091199	091199	091199	091199	COSE	37,442	Fire	Fire	Under hood on street parked and
Dearborn	MI			11NLM81WYH	1992	Town Car	031392	030392	091199	091199	091199	091199	COSE	317,800	Fire	Fire	Under hood on street parked and
Salisbury	FL			11NLM81WYH	1992	Town Car	031392	030392	091199	091199	091199	091199	COSE	15,772	Fire	Fire	Under hood on street parked and
Minneapolis	TM			11NLM81WYH	1992	Town Car	031392	030392	091199	091199	091199	091199	COSE	51,300	Fire	Fire	Under hood on street parked and
FL Lauderdale	FL			11NLM81WYH	1992	Town Car	031392	030392	091199	091199	091199	091199	COSE	21,832	Fire	Fire	Under hood on street parked and
Seattle Alaska	CA			11NLM81WYH	1992	Town Car	031392	030392	091199	091199	091199	091199	COSE	25,839	Fire	Fire	Under hood on street parked and
Peabody	NY			11NLM81WYH	1992	Town Car	031392	030392	091199	091199	091199	091199	COSE	49,118	Fire	Fire	Under hood on street parked and
Troy	OH			11NLM81WYH	1992	Town Car	031392	030392	091199	091199	091199	091199	COSE	14,822	Fire	Fire	Under hood on street parked and
Northbrook	IL			11NLM81WYH	1992	Town Car	031392	030392	091199	091199	091199	091199	COSE	40,300	Fire	Fire	Under hood on street parked and
Hopkinton	IL			11NLM81WYH	1992	Town Car	031392	030392	091199	091199	091199	091199	COSE	23,996	Fire	Fire	Under hood on street parked and
Englewood	NJ			11NLM81WYH	1992	Town Car	031392	030392	091199	091199	091199	091199	COSE	12,888	Fire	Fire	Under hood on street parked and
Dear Orlando	LA			11NLM81WYH	1992	Town Car	031392	030392	091199	091199	091199	091199	COSE	0,388	Fire	Fire	Under hood on street parked and
San Diego	NE			11NLM81WYH	1992	Town Car	031392	030392	091199	091199	091199	091199	COSE	24,841	Fire	Fire	Under hood on street parked and
Pittsburgh	PA			11NLM81WYH	1992	Town Car	031392	030392	091199	091199	091199	091199	COSE	12,888	Fire	Fire	Under hood on street parked and
Peachtree	NY			11NLM81WYH	1992	Town Car	031392	030392	091199	091199	091199	091199	COSE	29,980	Fire	Fire	Under hood on street parked and
North Miami	FL			11NLM81WYH	1992	Town Car	031392	030392	091199	091199	091199	091199	COSE	45,800	Fire	Fire	Under hood on street parked and
Melbourne	FL			11NLM81WYH	1992	Town Car	031392	030392	091199	091199	091199	091199	COSE	66,888	Fire	Fire	Under hood on street parked and
Green Ridge	LA			11NLM81WYH	1992	Town Car	031392	030392	091199	091199	091199	091199	COSE	64,888	Fire	Fire	Under hood on street parked and
Indianapolis	IN			11NLM81WYH	1992	Town Car	031392	030392	091199	091199	091199	091199	COSE	66,888	Fire	Fire	Under hood on street parked and
Jackson	MS			11NLM81WYH	1992	Town Car	031392	030392	091199	091199	091199	091199	COSE	66,888	Fire	Fire	Under hood on street parked and
St. Louis	LA			11NLM81WYH	1992	Town Car	031392	030392	091199	091199	091199	091199	COSE	66,888	Fire	Fire	Under hood on street parked and
Port St. Lucie	FL			11NLM81WYH	1992	Town Car	031392	030392	091199	091199	091199	091199	COSE	66,888	Fire	Fire	Under hood on street parked and
Shut	FL			11NLM81WYH	1992	Town Car	031392	030392	091199	091199	091199	091199	COSE	66,888	Fire	Fire	Under hood on street parked and

3713 0978

1992-93 LINCOLN TOWN CAR UNDERHOOD FIRES

PE98-053

NO.	OWNER NAME	ADDRESS	CITY	STATE	ZIP	TELEPHONE	MODEL	YEAR	MODEL	BUILD	SALE	REPORT	REPORT	TYPE	MILEAGE	REPORTED	POSSIBLE
			Capitola	TX			1992	Town Car	1000001	03/03/92	08/17/94	MORE			27,000	Fire	Unknown.
			San Jose	CA			1992	Town Car	8218002	08/18/92	08/14/93	MORE			125	Fire	Unknown.
			New Haven	LA			1992	Town Car	14911491	11/14/91	06/12/93	MORE			38,000	Fire	Unknown.
			Greensville	TX			1992	Town Car	0318000	03/24/92	04/03/97	MORE			60,000	Fire	Unknown.
			Waynes	FL			1992	Town Car	0520002	06/10/92	12/23/93	MORE			92,000	Fire	Engine compartment, gas lines.
			Waynes	GA			1992	Town Car	0320002	04/18/92	08/20/93	MORE			30,000	Fire	Unknown.
			Waynes	IL			1992	Town Car	0718002	08/17/92	10/02/93	MORE			20,210	Fire	Exhaust.
			Waynes	NY			1992	Town Car	0320002	04/18/92	03/05/93	MORE			11,000	Fire	Exhaust.
			Waynes	TX			1992	Town Car	0404002	05/02/92	12/23/93	MORE			73,000	Fire	Unknown.
			Waynes	TX			1992	Town Car	0505002	05/22/92	04/01/97	MORE			95,000	Fire	Fire started above the tail level the.
			Waynes	TX			1992	Town Car	0318002	07/18/92	08/20/93	MORE			1	Fire	Engine compartment.
			Waynes	MS			1992	Town Car	0825002	08/14/92	05/04/93	MORE/			57,000	Fire	Along engine in engine
			Waynes	FL			1992	Town Car	0320002	10/02/92	07/20/93	MORE			47,500	Fire	Exhaust.
			Waynes	TX			1992	Town Car	0318002	04/18/92	12/23/93	MORE			130,000	Fire	Under the hood - exhaust, possible
			Waynes	FL			1992	Town Car	0318002	04/18/92	08/08/93	MORE			1	Fire	Unknown.
			Waynes	NY			1993	Town Car	1001002	04/17/93	12/21/97	MORE			95,000	Fire	Under the hood.
			Waynes	NC			1993	Unknown	1000001	Unknown	12/23/97	MORE			20,000	Fire	Under the hood.
			Waynes	FL			1993	Town Car	11/18002	12/23/92	03/02/97	MORE			40,000	Fire	Under the hood.
			Waynes	FL			1992	Town Car	0723002	08/14/92	12/23/97	MORE			47,000	Fire	Under the engine.
			Waynes	NY			1992	Town Car	1204001	12/04/91	03/18/98	MORE			1	Fire	Electrical short.
			Waynes	KS			1992	Town Car	0827001	08/27/91	03/03/97	MORE			88,000	Fire	Fuel suspension.
			Waynes	OH			1992	Town Car	04/14002	04/14/92	11/01/98	MORE/			100,000	Fire	Ignition or electrical system.
			Waynes	GA			1992	Town Car	0321002	03/21/92	04/20/98	MORE			61,037	Fire	Unknown.
			Waynes	MO			1992	Town Car	0823002	08/23/92	10/04/98	MORE			72,000	Fire	Electrical system.
			Waynes	TX			1992	Town Car	0822001	11/22/91	04/20/98	MORE			66,000	Fire	Electrical.
			Waynes	MO			1992	Town Car	1001001	11/14/91	05/02/98	MORE			71,000	Fire	Brake system failure.

3713 0978

1992-93 LINCOLN TOWN CAR
UNDERHOOD FIRES

PE90-055

NO.	OWNER NAME	ADDRESS	CITY	STATE	ZIP CODE	TELEPHONE	VIN	MODEL	YEAR	MODEL	BUILD DATE	SALE DATE	REPORT DATE	REPORT TYPE	MILEAGE	ISSUE REPORTED	POSSIBLE PROBLEM DESCRIPTION
			Seaside Beach	FL			LNLMB1WBN	1992	Town Car		02/11/92	04/14/92	03/18/92	MORS	70,000	Fire	Electrical.
			Northlake	LA			LNLMB1WBN	1992	Town Car		08/25/92	07/11/92	04/13/93	MORS/VOQ	66,789	Fire	Unknown.
			Orlando	LA			LNLMB21VSN	1992	Town Car		02/15/92	08/02/92	12/08/92	MORS/VOQ	40,800	Fire	Electrical short.
			West Palm Beach	FL			LNLMB21W7N	1992	Town Car		01/22/92	02/11/92	09/14/92	MORS	25,000	Fire	Electrical.
			Dayton	TX			LNLMB1W02N	1992	Town Car		03/18/92	04/01/92	08/25/92	MORS/VOQ	67,500	Fire	Electrical system.
			Austin	TX			LNLMB21W1N	1992	Town Car		05/05/92	08/01/92	08/20/92	MORS	49,990	Fire	Engine.
			Sanbury	TX			LNLMB21W0N	1992	Town Car		02/17/91	04/23/92	08/18/92	MORS	185,000	Fire	Unknown.
			San Jose	CA			LNLMB21W1N	1992	Town Car		08/05/91	07/12/92	08/28/92	MORS	46,800	Fire	Left front tire.
			Houston	TX			LNLMB21W7N	1992	Town Car		04/08/92	11/02/92	07/08/92	MORS	68,000	Fire	Unknown.
			Chesapeake	FL			LNLMB21V2N	1992	Town Car		05/08/92	08/25/92	08/20/92	MORS	36,000	Fire	Unknown.
			Corona Beach	FL			LNLMB1W0N	1992	Town Car		02/10/91	08/30/91	08/18/92	MORS/VOQ	70,800	Fire	Left front wheel area.
			Dallas	TX			LNLMB1W0N	1992	Town Car		04/02/92	04/21/92	06/05/92	MORS	60,000	Fire	Engine.
			Lawrenceburg	VA			LNLMB1W0N	1992	Town Car		04/07/92	06/13/92	04/28/92	MORS	111,300	Fire	Unknown.
			Houston	TX			LNLMB1W0N	1992	Town Car		08/25/92	08/21/92	03/17/93	MORS	100,000	Fire	Under the hood.
			Indian	VA			LNLMB1W0N	1992	Town Car		02/04/91	11/02/91	08/18/92	MORS	78,000	Fire	Unknown.
			Memphis	TN			Unknown	1992	Unknown		Unknown	Unknown	02/15/93	MORS	1	Fire	Under the hood.
			Johnston	MA			LNLMB21W1N	1992	Town Car		08/04/92	08/20/92	04/21/93	MORS	67,000	Fire	Electrical short.
			Houston	LA			LNLMB21W0N	1992	Town Car		07/21/92	08/01/92	10/24/92	MORS	68,880	Fire	Electrical.
			Mount Holly	NJ			LNLMB1W1P	1992	Town Car		09/12/92	12/02/92	08/02/93	MORS	88,000	Fire	Electrical.
			West Columbia	SC			Unknown	1992	Unknown		Unknown	Unknown	03/01/94	MORS	0,000	Staged	Staged.
			Camden	MA			LNLMB1W0N	1992	Town Car		02/28/92	03/11/92	04/21/92	MORS	84,880	Fire	Catalytic converter.
			Orlando	OK			LNLMB1W0N	1992	Town Car		03/14/92	03/29/92	02/02/93	MORS/VOQ	116,800	Fire	Spark plug/wire.
			West Beach	FL			MEC042W1N	1992	Gr. Conv.		04/02/92	05/04/92	06/11/92	COB	80,000	Fire	Decorative switch.
			Unknown	MA			LNLMB21W0N	1992	Town Car		11/25/91	11/27/91	Unknown	VOQ	Unknown	Fire	Unknown.
			Albany	MA			LNLMB21V2N	1992	Town Car		02/28/92	08/02/92	Unknown	VOQ	Unknown	Fire	Unknown.
			Unknown	MA			LNLMB1W0N	1992	Town Car		07/18/92	08/21/92	Unknown	VOQ	Unknown	Fire	Unknown.

3713 0860

1992-93 LINCOLN TOWN CAR
UNDERHOOD FIRES

FE85-065

NO.	OWNER NAME	ADDRESS	CITY	STATE	ZIP CODE	TELEPHONE NUMBER	VIN	YEAR	MODEL	BUILD DATE	SALE DATE	REPORT DATE	REPORT TYPE	MILEAGE	ISSUE REPORTED	POSSIBLE PROBLEM DESCRIPTION
75	Unknown	Unknown	Unknown	MA	019	Unknown	1LNLM51W0HY	1992	Town Car	04/02/92	08/24/92	Unknown	VOQ	Unknown	Fire	Unknown.
80	Unknown	Unknown	Unknown	MA	019	Unknown	1LNLM52W0HY	1992	Town Car	08/05/92	02/16/92	Unknown	VOQ	Unknown	Fire	Unknown.
81	Unknown	Unknown	Unknown	MA	019	Unknown	1LNLM51W0NY	1992	Town Car	01/17/92	01/01/92	Unknown	VOQ	Unknown	Fire	Unknown.
82	Unknown	Unknown	Unknown	MA	019	Unknown	1LNLM51W0HY	1992	Town Car	04/27/92	02/13/92	Unknown	VOQ	Unknown	Fire	Unknown.
83	Unknown	Unknown	Unknown	MA	019	Unknown	1LNLM52W0HY	1992	Town Car	03/02/92	04/03/92	Unknown	VOQ	Unknown	Fire	Unknown.
84	Unknown	Unknown	Unknown	MA	019	Unknown	1LNLM52W0HY	1992	Town Car	05/15/92	07/10/92	Unknown	VOQ	Unknown	Fire	Unknown.
85	Unknown	Unknown	Unknown	MA	019	Unknown	1LNLM5W0PY	1992	Town Car	08/25/91	08/25/91	Unknown	VOQ	Unknown	Fire	Unknown.
86	Unknown	Unknown	Unknown	MA	019	Unknown	1LNLM5W0PY	1992	Town Car	04/08/92	09/15/92	Unknown	VOQ	Unknown	Fire	Unknown.
87	Unknown	Unknown	Unknown	MA	019	Unknown	1LNLM5W0PY	1992	Town Car	10/25/92	11/05/92	Unknown	VOQ	Unknown	Fire	Unknown.
88	Unknown	Unknown	Unknown	FL	329	Unknown	1LNLM52W0HY	1992	Town Car	02/02/92	02/11/92	09/01/92	VOQ	Unknown	Fire	Engine.
89	Unknown	Unknown	Unknown	MD	211	Unknown	1LNLM5W0PY	1992	Town Car	02/15/92	09/05/92	10/01/92	VOQ	Unknown	Fire	Underhood.
90	Unknown	Unknown	Unknown	TX	754	Unknown	1LNLM5W0PY	1992	Town Car	08/08/92	08/28/92	Unknown	VOQ	Unknown	Fire	Engine compartment.
91	Unknown	Unknown	Unknown	TX	754	Unknown	1LNLM5W0PY	1992	Town Car	08/18/92	08/14/92	11/01/92	VOQ	Unknown	Fire	Engine compartment.
92	Unknown	Unknown	Unknown	TX	754	Unknown	1LNLM5W0PY	1992	Town Car	11/09/92	12/01/92	11/01/92	VOQ	Unknown	Fire	Engine compartment.
93	Unknown	Unknown	Unknown	NY	100	Unknown	1LNLM5W0PY	1992	Town Car	11/03/92	11/03/92	08/01/92	VOQ	Unknown	Fire	Engine compartment.
94	Unknown	Unknown	Unknown	CA	900	Unknown	1LNLM5W0PY	1992	Town Car	10/13/92	10/28/92	02/01/93	VOQ	Unknown	Fire	Underhood.
95	Unknown	Unknown	Unknown	FL	329	Unknown	1LNLM5W0PY	1992	Town Car	01/15/92	11/20/92	11/01/92	VOQ	Unknown	Fire	Underhood.
96	Unknown	Unknown	Unknown	ME	041	Unknown	1LNLM5W0PY	1992	Town Car	02/24/92	02/03/92	10/01/92	VOQ	Unknown	Fire	Underhood.
97	Unknown	Unknown	Unknown	TX	754	Unknown	1LNLM5W0PY	1992	Town Car	08/24/92	07/12/92	10/01/92	VOQ	Unknown	Fire	Engine compartment.
98	Unknown	Unknown	Unknown	MA	019	Unknown	1LNLM5W0PY	1992	Town Car	08/19/92	08/27/92	08/01/92	VOQ	Unknown	Fire	Engine.
99	Unknown	Unknown	Unknown	MA	019	Unknown	1LNLM5W0PY	1992	Town Car	08/08/92	08/08/92	08/01/92	VOQ	Unknown	Fire	Engine.
100	Unknown	Unknown	Unknown	MA	019	Unknown	1LNLM5W0PY	1992	Town Car	08/13/92	07/29/92	01/01/93	VOQ	Unknown	Fire	Engine compartment.
101	Unknown	Unknown	Unknown	MA	019	Unknown	1LNLM5W0PY	1992	Town Car	04/24/92	08/12/92	08/01/92	VOQ	Unknown	Fire	Left foot under area.
102	Unknown	Unknown	Unknown	TX	754	Unknown	1LNLM5W0PY	1992	Town Car	11/24/91	08/03/92	08/01/92	VOQ	Unknown	Fire	Engine compartment.
103	Unknown	Unknown	Unknown	FL	329	Unknown	1LNLM5W0PY	1992	Town Car	04/08/92	08/07/92	10/01/92	VOQ	Unknown	Fire	Engine compartment.
104	Unknown	Unknown	Unknown	MA	019	Unknown	1LNLM5W0PY	1992	Gr Marq	08/27/91	08/18/91	08/01/92	VOQ	Unknown	Fire	Brake master.

3718 0901

1992-93 LINCOLN TOWN CAR
UNDERHOOD FIRES

PE98-635

NO.	OWNER NAME	ADDRESS	CITY	STATE	ZIP	TELEPHONE	VIN	MODEL	YEAR	MOOD	DATE	DATE	REPORT	REPORT	TYPE	RELEASE	ISSUE	REPORTED	POSSIBLE	PHYSICAL DESCRIPTION
105	Unknown	Unknown	Unknown	FL	NA	Unknown	2LECA7W6000		1992	Gr. Lorry	09/09/92	09/25/92	09/01/92	VOQ	Unknown	Fire	Under hood.			
106	Unknown	Unknown	Unknown	FL	NA	Unknown	1N1LM67W6000		1992	Town Car	09/04/92	10/29/92	09/01/92	VOQ	Unknown	Fire	Engine compartment.			
107	Unknown	Unknown	Unknown	FL	NA	Unknown	1N1LM67W6000		1992	Town Car	09/09/92	09/13/92	07/01/92	VOQ	Unknown	Fire	Engine compartment.			
108	Unknown	Unknown	Unknown	FL	NA	Unknown	1N1LM67W6000		1992	Town Car	09/09/92	09/15/92	12/01/92	VOQ	Unknown	Fire	Left edge of hood and fender			
109	Unknown	Unknown	Unknown	NC	NA	Unknown	1N1LM67W6000		1992	Town Car	09/04/92	09/26/92	09/01/92	VOQ	Unknown	Fire	Under hood.			
110	Unknown	Unknown	Unknown	FL	NA	Unknown	1N1LM67W6000		1992	Town Car	09/09/92	09/26/92	11/01/92	VOQ	Unknown	Fire	Under hood.			
111	Unknown	Unknown	Unknown	FL	NA	Unknown	1N1LM67W6000		1992	Town Car	09/09/92	09/29/92	09/01/92	VOQ	Unknown	Fire	Under hood.			

3713 0992

BILL SUSSEX - PRES MGR UTA 593-9717

BOB BATTAGLIA - SER UTA 240-3714

JOE STICKLE - 593-9999

MAX LAM - 33-73174

- Taiwan
- Mexico

at least 45K

as more cases

FROM AIRMAIL SUBJ MTR 12-16-98

ROB ENGLISH	AVT-DES-EDS	73225	ENGLISH
NORM LAPORTE	AVT-DES-ANAL	42686	N LAPORTE
Tim Gregoire	AVT-EDS-OPS	7962	T GREGOIRE
FRED PORTER	AVT-EDS	53722	F PORTER
WILLIAM ANANDYK	ASO	23284	W ANANDYK
JOE NOME	LUC	08133	J NOME
JOHN MCNEELEY	LUC-SAFETY	32 20276	J MCNEELEY

 * Note printed by RENGELIS1 on 4 Jan 1999 at 07:30:54 *

From: FPORTER --DEBN007 Date and time 12/18/98 17:04:06
 To: WABRAMCS--DEBN005
 RENGELIS1--DEBN005
 DGOEL --DEBN005
 EGRIBBLE--DEBN005
 SLAROUCH--FORD001
 JNAME --DEBN005
 GSTEVEN1--DEBN005
 EWELEF223--DEBN006

BEGEN --DEBN007
 JEVANS8 --DEBN005
 JGREGOIR--DEBN005
 NLAPPOINT--DEBN005
 JMCINERN--DEBN005
 RNEVI --DEBN005
 CTHOMAS5--DEBN005

FROM: F. J. Porter USAET(UTC -05:00)
 Subject: 97924 Update (19981218)

1992-1993 Town Car F2VC-97924-A Brake Pressure Switch Investigation

TEAM:

AVT ESEN Chassis Electronics:	Fred Porter	X84-53722	fporter
AVT Chassis Engineering:	Joe Evans	X32-23832	jevans8
	Barry Egen	X32-39512	begen
AVT ESEN NOS:	Rob English	X33-73228	renqlis1
AVT Design Analysis:	Norm LaPointe	X59-42886	nlapoint
AVT ESEN OPE:	Jim Gregoire	X33-79962	jgregoir
ESEN Prod. Veh. Safety:	William Abramczyk	X32-23284	wabramcs
	Ray Navi	X59-47688	rnavi
Large Luxury VC Safety:	John McInerney	X32-20276	jmcinern
	Joe Name	X39-08133	jname
AVT Materials Engineering:	Greg Stevens	X32-35686	gsteven1
	Ken Gribble	X32-38638	kgribble
	Clark Thomas	X59-41313	cthomas5
Central Lab Services:	Steve LaRoucha	X84-54876	slarouch

INFORMATION:

NHTSA letter: PE98-055

Vehicles identified: 21 initially identified.
 20 additional vehicles reported since publication of
 the investigation.

Warranty: A total of 89 warranty claims are identified in AWS on the
 F2VY-97924-A for 1992 and 1993 Town Cars.

Two CQIS reports (WJIAA135 & VDUAJ22) mention underhood fire
 in connection with the brake pressure switch.
 WJIAA135 occurred at 31,500 miles.
 VDUAJ22 occurred at 36,802 miles.

Supplier: The pressure switch was manufactured by Texas Instruments. The
 switch was purchased in assembly with the brake proportioning
 valve bought from Surfaces.

Contacts: Surfaces - Mike Thomas (248)543-5820 HILITE Industries
 TI - Rob Sharp (248)808-5729

TI - Russ Baumann (508)236-3314
TI - Charlie Douglas (508)236-3687

Function: The brake pressure switch is a redundant switch for turning off the speed control function.

X-Rays: Taken by Steve LaRouche, Norm LaPointe & Clark Thomas on 12/17/1998. Original photographs and part are in Steve LaRouche's possession.

ON-GOING ACTIVITY:

2 service parts have been ordered from Fairlane Ford for X-ray and other testing by Central Lab Services.

Meeting with representatives of TI is planned for 12/23/1998 to discuss intended operation of the switch. The meeting will be at the Central Laboratory Conference room off of the lobby.

QUESTIONS: (in no particular order)

- 1) What is the normal current in the brake pressure switch?
- 2) Was cruise control standard on Town Car in 1992 and 1993?
- 3) Under what circumstances is brake fluid flammable?

According to Clark Thomas & Mary Haga, brake fluid is flammable at approximately 300 degrees F.

- 4) What is the repair history for vehicles that have exhibited a problem? Repair history for the two QGIS vehicles are being gathered by Fred Porter.
- 5) What other vehicles use this brake pressure switch? What are their electrical configurations?

MODEL YEAR	92	93	94	95	96	97	98
Town Car	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
Crown Vic	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
Grand Marquis	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
Escort	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
Club Wagon	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
F-Series		XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
Bronco		XXXX	XXXX	XXXX	XXXX		
Taurus SHO		XXXX	XXXX	----			
Capri			XXXX	XXXX	----		
Windstar			XXXX	XXXX	XXXX	XXXX	XXXX
Falcon				XXXX	XXXX	XXXX	XXXX
Explorer					----	XXXX	XXXX
Ranger					----	XXXX	XXXX
Expedition						XXXX	XXXX
Navigator							XXXX

XXXX = used in model year

---- = may have been used in model year

- 6) Is this switch still in use? If not, why not? If so, what design changes have been implemented since 1992/1993?

Charlie Douglas of TI is investigating the design changes that may have been implemented on the brake pressure switch beginning in 1992.

- 7) What fault codes are stored if the brake pressure switch fails?

Regards,
Fred Porter OV - fporter fporter@ford.com
Chassis E/E Systems Applications (313)845-3722
Bldg 5 - Mail Drop 3030 - Cubicle 3E004 fax: 390-4145

INFO DE
12/8

WHS 21 TEL LIT?
WHS 21 TEL LIT?

WHS 21 TEL LIT?
92/93 TOWN CAR
92/93 CV/GM

X 27234

MAC LUNN 73-73174

400 Seventh Street, S.W.
Washington, D.C. 20590

U.S. Department
of Transportation
National Highway
Traffic Safety
Administration

T. J. BOEAS

NOV 24 1998

NOV 24 1998

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

DISPOSE of Copies (Black Stamped) by:	
RETAIN Record Copy (Red Stamped) Thru:	2018
Schedule Number:	27.03

L.W. Camp, Director
Automotive Safety and Engineering Standards Office
Ford Motor Company
330 Town Center Drive
Dearborn, MI 48126

NSA-12jfa
PE98-055

91-94

Dear Mr. Camp:

This letter is to advise you that the Office of Defects Investigation (ODI) of the National Highway Traffic Safety Administration (NHTSA) is conducting a Preliminary Evaluation concerning engine compartment fires in certain Lincoln Town Car vehicles manufactured by the Ford Motor Company.

This office has received 21 reports of engine compartment fires in 1992 and 1993 Lincoln Town Cars. The fires in these vehicles are reported to have started while the vehicles were parked and the engines not running. Ten of the reports indicate a fire at the left front fender wheel well area (see photograph, page 6), two indicate a fire at the master cylinder, which is adjacent to the left front fender wheel well area, and the remaining nine reports indicate a fire in the engine compartment. Additionally, five of the reports indicate the vehicle owner's carport, garage, or home, was also damaged as a result of the fire.

A copy of each of the reports is enclosed for your information.

Unless otherwise stated in the text, the following definitions apply to this information request:

- **Subject vehicles:** all 1992 and 1993 Lincoln Town Car vehicles.
- **Ford:** Ford Motor Company, all of its past and present officers, employees, whether assigned to its principal offices or to any of its field or other locations, including all of its divisions, subsidiaries (whether or not incorporated) and affiliated enterprises and all of their headquarters, regional, zone and other offices and their employees, and all agents, contractors, consultants, attorneys and law firms and other persons engaged by or under the control of Ford Motor Company (including all business units and persons previously referred to) who are or were involved in any way with (a) design, analysis, modification or production; (b) testing, assessment or evaluation; or (c) record-keeping, claims, or lawsuits relating to the alleged defect in the subject vehicles.



AUTO SAFETY HOTLINE
(800) 424-6393
Wash. D.C. Area (202) 368-0123

3713 0890

- **Alleged defect:** all under hood fires, or other thermal anomalies, from any source or origin, of any description, level, degree, or magnitude, occurring in the left, or drivers side, of the engine compartment. This would include fires in the area of the left front wheel, or left front fender.
- **Documents:** in the broadest sense of the word, shall mean all written, printed, typed, recorded or graphic matter whatsoever, however produced or reproduced, of every kind, nature, and description, including but not limited to, papers, records, letters, correspondence, memoranda, communications, electronic mail messages (existing in hard copy and/or in electronic storage), faxes, notes, annotations, working papers, drafts, minutes, records, resolutions, books, pleadings, response to discovery, administrative and judicial filings, all transcripts and other recordings of any kind, affidavits, materials and things produced in discovery, statements, summaries, interviews, opinions, reports, newspaper articles, studies, analysis, evaluations, interpretations, applications, agreements, jottings, agendas, bulletins, notices, announcements, instructions, designs, specifications, blueprints, as-builts, manuals, brochures, publications, schedules, journals, statistical data, lists, tabulations, computer printouts, data processing input, data in storage, and data output, microfilm, microfiche, data from optical scanning or recording, photographs, tangible things, and all records kept by electronic, photographic, or mechanical means, any drafts or revisions pertaining to any of the foregoing, and all other things similar to any of the foregoing however denominated and any other data compilations from which information can be obtained, translated if necessary, into reasonably usable form and any other documents.

In order for my staff to evaluate the alleged defect, certain information is required. Pursuant to 49 U.S.C. § 30166, please provide numbered responses to the following questions. Please repeat each question verbatim before the response. If you have previously furnished ODI with information that is responsive to any item(s) in this request, you need not resubmit that information, but your response must cross-reference (by date of response and question number) the earlier submission. If Ford cannot answer any specific question, please state the reason why it is unable to do so. If you claim that any information or material responsive to the following items need not be divulged to the NHTSA because it is privileged, or the work product of an attorney, state the nature of that information or material and identify any document in which it is found by, date, subject or title, name and position of person from and person to whom it was sent, and name and position of any other recipient. You must also describe any privilege that you claim, and explain why you believe it applies.

1. State the total number of subject vehicles sold in the United States by model year.
2. State the number incidents, known to Ford, in which the alleged defect has been reported to have occurred in the subject vehicles. Furnish copies of all documents, from any and all sources, including documents which may not originally have been submitted to Ford, which

are in Ford's possession or control, or of which it is otherwise aware, that pertain, in any way, to any of these incidents. This should include, but is not limited to, all documents possessed by Ford, or of which it is otherwise aware, pertaining to the reports included with this letter. Furnish all documents whether or not Ford has verified the validity of each document. For each incident in this response please provide the vehicle owner's name, address, and telephone number; and identify all vehicles by vehicle identification number, model year, date of manufacture, date of retail sale, date of incident, mileage at the time of the incident, and problem description. For all incidents involving lawsuits please identify the caption, court, docket number, and filing date of each lawsuit and a copy of the complaint document initiating the lawsuit. Sort all incidents by cause and area or component of origin.

92 CUM DATA 03 CUM DATA 92/93 DATA

- 3. State the total number vehicles sold in the United States by model name and model year that have engine compartment configurations (i.e., components and component location, wiring harnesses and harness location) the same as the subject vehicles. Provide a response to question number two for all vehicles identified in your answer to this question.
4. State the number of all warranty claims, including extended warranty claims, and "goodwill," field or zone adjustments received by Ford that relate to the alleged defect in the subject vehicles by calendar year, calendar month, and problem identification. Identify all owners by name, address, and telephone number, and all vehicles by vehicle identification number, model name, model year, date of manufacture, date of retail sale, date of incident, mileage at the time of the incident, and problem description.
- 5. Identify all electrical circuits by name, number, and wire color, located in the left side of the engine compartment that are, or remain, energized by the battery when the ignition key is in the off position. For all circuits identified, provide a schematic drawing which identifies the harness(es) in which they reside, the harness location(s), and the components to which power is supplied.
6. Identify and describe all inspections, tests or other analyses conducted by Ford, its contractors, suppliers, or by any other entities, regarding the inspection of any subject vehicles that relate to the alleged defect, to date. Identify, by name and address, the entity that conducted each such test or analysis. Furnish copies of all reports, surveys, notes, tables, graphs or other documents that pertain to each such test or analysis. State when each test or analysis was initiated and concluded, or whether it is still in progress. Include in your response a description of a worst case scenario.
7. If Ford has issued any bulletins, advisories, or other communications to distributors, retailers, consumers, or any other entity pertaining to the alleged defect in the subject vehicles, provide a copy of each such document. If no such documents have been issued, so state.

- 8. Identify and describe all significant modifications or changes made by or on behalf of Ford in the manufacture, design, or material composition of all components in the subject vehicles that may relate to the alleged defect. The following information must be included for each such modification or change:
- a. the approximate date on which the modification or change was incorporated into production;
 - b. a description of the modification or change;
 - c. the reason for the modification or change; and
 - d. whether the modified or changed components can be interchanged with earlier production components.
9. Provide Ford's assessment of the alleged defect in the subject vehicles, including:
- a. all causal or contributory factors;
 - b. the failure mode;
 - c. the risk to occupant safety it poses; and
 - d. whether there are any circumstances that would provide the vehicle owner or others with warning of its existence.

Your response to this letter, in duplicate, must be submitted to this office by January 6, 1999. Please include in your response the identification codes referenced on page 1 of this letter. If you find that you are unable to provide all of the information requested within the time allotted, you must request an extension from Mr. Thomas Z. Cooper not later than five days from the due date. If you are unable to provide all of the information requested by the original deadline, you must submit a partial response by that date with whatever information you have available, even if you have received an extension.

This letter is being sent to your company pursuant to 49 U.S.C. § 30166, which authorizes NHTSA to conduct any investigation that may be necessary to enforce Chapter 301 of Title 49, U.S. Code. Your failure to respond promptly and fully to this letter could subject Ford to civil penalties pursuant to 49 U.S.C. § 30165 or lead to an action for injunctive relief pursuant to 49 U.S.C. § 30163.

If you consider any portion of your response to be confidential information, include that material in a separate enclosure marked "CONFIDENTIAL." In addition, you must submit a copy of all such material to the Office of Chief Counsel (NCC-30), National Highway Traffic Safety Administration, 400 Seventh Street, SW, Washington, DC 20590, and comply with all other requirements for the submission of confidential business information stated in 49 CFR Part 512.

If you have any technical questions concerning this matter, please contact Mr. John Abbott of my staff at (202) 366-5221.

Sincerely,



Thomas Z. Cooper, Chief
Vehicle Integrity Division
Office of Defects Investigation

Enclosures: 12 VOQ's: 813241, 824016, 808265, 821667, 979634, 521137, 804418, 541041
820316, 536206, 819621, 823462; 5 fire department reports; 2 internet reports; and
2 fire investigator reports

NHTSA:NSA-ODI
NSA-12:JABBOTT:dtd:6-5221:11/17/98
cc:
NSA-01
NSA-12/Subj/Chron/
Document: I:/ABBOTT/Towncar.IR

1992 Lincoln Town Car (1LNLM81W2NY703705)



11/24/98

PE Opening Reports (PE88-055)
1992 Lincoln Town Car Engine Fires

NO.	Source	ST	VIN	M/Y
1	813241	FL	1LNLM82W5NY	92
2	824016	TX	1LNLM81W2NY	92
3	808285	FL	1LNLM82W7NY	92
4	821667	LA	1LNLM81W9NY	92
5	979634	TX	1LNLM82W5NY	92
6	521137	OK	1LNLM81W2NY	92
7	F.D.R.	GA	1LNLM82W3NY	92
8	804418	OH	1LNLM81W8NY	92
9	541041	FL	1LNLM81W3NY	92
10	F.D.R.	FL	1LNLM81W2NY	92
11	F.D.R.	FL	1LNLM82W7NY	92
12	A805280	FL	1LNLM81W0NY	92
13	820316	FL	1LNLM81W3NY	92
14	I/Net	FL	1LNLM81W8NY	92
15	536206	MS	1LNLM83W9NY	92
16	819621	LA	1LNLM82W5NY	92
17	I/Net	FL	1LNLM82W4NY	92
18	F.D.R.	GA	1LNLM82W1NY	92
19	A804221	FL	1LNLM81WP2Y	93
20	823462	MS	1LNLM81W5PY	93
21	F.D.R.	FL	1LNLM81WXPY	93

3713 0696



• Comments
• Journal Entry
• Thoughts & Ideas
• Agenda
• Conversations

A good conversation is a continual feast.
—Robert Bly

December 1998 Daily Record of Events

10
Thursday
34th Day 21 Lst
Week 48

92 Town Car Mtg - Luke Brown's switch
Dim. 1/20/98, 3, TOWN MASTER'S

Joe Brown
Mike Fodera
Paul Porter - SUPERVISOR

"BEACH"

→ Refused on light pressure in EUM

Brake pressure switch called speed control deactivation switch
located in P.E.A. to prop valve.
Supplier = Surfacor

QUESTIONS

- Is brake fluid hydraulic? Brake Pressure Switch
- Will brake fluid replace if reaches hot at all times and not contaminated?
- Is speed control ETD on Town Car?
- How similar is Town Car + 9/16 pin switch ETD, packaging, etc?
- How Town Car VMI's with safety wire had previous recycle repair.
- How single point contact for chassis Brake Switch.
- Why in this just 92 MVI

FOOD DRIVE -

✓ FZVC-9F92A-AB

INVESTIGATION:

We found this risk at _____ ry in _____, Florida. We secured all loose parts and secured the electrical cables as best we could for transport.

Due to the excellent condition this risk is in we are notifying the National Highway Safety Transportation Board, Ford Motor Company, the testing company our firm uses and Allstate officials and other insurance companies with a vested interest to obtain the best research team available for the inspection of this as a co-sponsored team to determine where this loss occurred in this specific vehicle and hopefully in the other 20 or 25 or more vehicles that are found within the state of Florida and other states causing extensive property damage.

The best inspection team will be assembled for visible and microscopic testing of this specific vehicle to determine the exact origin of this cause of which myself and others feel this is going to be a 98% positive chance to determine where and how all of the rest of these Lincoln Town Cars are burning and causing not only property damage but bodily injury.

Due to the Nalley Supreme Court decision it is imperative that Ford Motor Company be allowed to inspect or be present and photograph at the same time our destructive testing is done. If this is not done properly, subrogation will not be allowed to use our findings in any court in this land.

The set of keys were given to the wrecker driver who in turn turned them over to our personnel when it arrived at our office and is secured. This risk will be kept under secured conditions and will not be touched until June 23, 1998 at 10:00 a.m.

It is for this reason I feel that we only have one shot at this because of the minor damage this specific risk has suffered. We feel we can identify the exact component failure to be able to tie all the rest of these in.

EVIDENCE:

1992 Lincoln Town Car



U.S. Department
of Transportation
National Highway
Traffic Safety
Administration

F. J. BOEAS--

NOV 24 1998

NOV 24 1998

**CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

L.W. Camp, Director
Automotive Safety and Engineering Standards Office
Ford Motor Company
330 Town Center Drive
Dearborn, MI 48126

400 Seventh Street, S.W.
Washington, D.C. 20590

DISPOSE of Copies (Black Stamped) by:	
RETAIN Record Copy (Red Stamped) Thru:	2018
Schedule Number:	27.03

NSA-12jfa

PE98-055

Dear Mr. Camp:

This letter is to advise you that the Office of Defects Investigation (ODI) of the National Highway Traffic Safety Administration (NHTSA) is conducting a Preliminary Evaluation concerning engine compartment fires in certain Lincoln Town Car vehicles manufactured by the Ford Motor Company.

This office has received 21 reports of engine compartment fires in 1992 and 1993 Lincoln Town Cars. The fires in these vehicles are reported to have started while the vehicles were parked and the engines not running. Ten of the reports indicate a fire at the left front fender wheel well area (see photograph, page 6), two indicate a fire at the master cylinder, which is adjacent to the left front fender wheel well area, and the remaining nine reports indicate a fire in the engine compartment. Additionally, five of the reports indicate the vehicle owner's carport, garage, or home, was also damaged as a result of the fire.

A copy of each of the reports is enclosed for your information.

Unless otherwise stated in the text, the following definitions apply to this information request:

- **Subject vehicles:** all 1992 and 1993 Lincoln Town Car vehicles.
- **Ford:** Ford Motor Company, all of its past and present officers, employees, whether assigned to its principal offices or to any of its field or other locations, including all of its divisions, subsidiaries (whether or not incorporated) and affiliated enterprises and all of their headquarters, regional, zone and other offices and their employees, and all agents, contractors, consultants, attorneys and law firms and other persons engaged by or under the control of Ford Motor Company (including all business units and persons previously referred to) who are or were involved in any way with (a) design, analysis, modification or production; (b) testing, assessment or evaluation; or (c) record-keeping, claims, or lawsuits relating to the alleged defect in the subject vehicles.



AUTO SAFETY HOTLINE
(800) 424-9393
Wash. D.C. Area (202) 366-0123

3713 0899

- **Alleged defect:** all under hood fires, or other thermal anomalies, from any source or origin, of any description, level, degree, or magnitude, occurring in the left, or drivers side, of the engine compartment. This would include fires in the area of the left front wheel, or left front fender.
- **Documents:** in the broadest sense of the word, shall mean all written, printed, typed, recorded or graphic matter whatsoever, however produced or reproduced, of every kind, nature, and description, including but not limited to, papers, records, letters, correspondence, memoranda, communications, electronic mail messages (existing in hard copy and/or in electronic storage), faxes, notes, annotations, working papers, drafts, minutes, records, resolutions, books, pleadings, response to discovery, administrative and judicial filings, all transcripts and other recordings of any kind, affidavits, materials and things produced in discovery, statements, summaries, interviews, opinions, reports, newspaper articles, studies, analysis, evaluations, interpretations, applications, agreements, jottings, agendas, bulletins, notices, announcements, instructions, designs, specifications, blueprints, as-builts, manuals, brochures, publications, schedules, journals, statistical data, lists, tabulations, computer printouts, data processing input, data in storage, and data output, microfilm, microfiche, data from optical scanning or recording, photographs, tangible things, and all records kept by electronic, photographic, or mechanical means, any drafts or revisions pertaining to any of the foregoing, and all other things similar to any of the foregoing however denominated and any other data compilations from which information can be obtained, translated if necessary, into reasonably usable form and any other documents.

In order for my staff to evaluate the alleged defect, certain information is required. Pursuant to 49 U.S.C. § 30166, please provide numbered responses to the following questions. Please repeat each question verbatim before the response. If you have previously furnished ODI with information that is responsive to any item(s) in this request, you need not resubmit that information, but your response must cross-reference (by date of response and question number) the earlier submission. If Ford cannot answer any specific question, please state the reason why it is unable to do so. If you claim that any information or material responsive to the following items need not be divulged to the NHTSA because it is privileged, or the work product of an attorney, state the nature of that information or material and identify any document in which it is found by, date, subject or title, name and position of person from and person to whom it was sent, and name and position of any other recipient. You must also describe any privilege that you claim, and explain why you believe it applies.

1. State the total number of subject vehicles sold in the United States by model year.
2. State the number incidents, known to Ford, in which the alleged defect has been reported to have occurred in the subject vehicles. Furnish copies of all documents, from any and all sources, including documents which may not originally have been submitted to Ford, which

are in Ford's possession or control, or of which it is otherwise aware, that pertain, in any way, to any of these incidents. This should include, but is not limited to, all documents possessed by Ford, or of which it is otherwise aware, pertaining to the reports included with this letter. Furnish all documents whether or not Ford has verified the validity of each document. For each incident in this response please provide the vehicle owner's name, address, and telephone number, and identify all vehicles by vehicle identification number, model year, date of manufacture, date of retail sale, date of incident, mileage at the time of the incident, and problem description. For all incidents involving lawsuits please identify the caption, court, docket number, and filing date of each lawsuit and a copy of the complaint document initiating the lawsuit. Sort all incidents by cause and area or component of origin.

3. State the total number vehicles sold in the United States by model name and model year that have engine compartment configurations (i.e., components and component location, wiring harnesses and harness location) the same as the subject vehicles. Provide a response to question number two for all vehicles identified in your answer to this question.
4. State the number of all warranty claims, including extended warranty claims, and "goodwill," field or zone adjustments received by Ford that relate to the alleged defect in the subject vehicles by calendar year, calendar month, and problem identification. Identify all owners by name, address, and telephone number, and all vehicles by vehicle identification number, model name, model year, date of manufacture, date of retail sale, date of incident, mileage at the time of the incident, and problem description.
5. Identify all electrical circuits by name, number, and wire color, located in the left side of the engine compartment that are, or remain, energized by the battery when the ignition key is in the off position. For all circuits identified, provide a schematic drawing which identifies the harness(es) in which they reside, the harness location(s), and the components to which power is supplied.
6. Identify and describe all inspections, tests or other analyses conducted by Ford, its contractors, suppliers, or by any other entities, regarding the inspection of any subject vehicles that relate to the alleged defect, to date. Identify, by name and address, the entity that conducted each such test or analysis. Furnish copies of all reports, surveys, notes, tables, graphs or other documents that pertain to each such test or analysis. State when each test or analysis was initiated and concluded, or whether it is still in progress. Include in your response a description of a worst case scenario.
7. If Ford has issued any bulletins, advisories, or other communications to distributors, retailers, consumers, or any other entity pertaining to the alleged defect in the subject vehicles, provide a copy of each such document. If no such documents have been issued, so state.

8. Identify and describe all significant modifications or changes made by or on behalf of Ford in the manufacture, design, or material composition of all components in the subject vehicles that may relate to the alleged defect. The following information must be included for each such modification or change:
 - a. the approximate date on which the modification or change was incorporated into production;
 - b. a description of the modification or change;
 - c. the reason for the modification or change; and
 - d. whether the modified or changed components can be interchanged with earlier production components.
9. Provide Ford's assessment of the alleged defect in the subject vehicles, including:
 - a. all causal or contributory factors;
 - b. the failure mode;
 - c. the risk to occupant safety it poses; and
 - d. whether there are any circumstances that would provide the vehicle owner or others with warning of its existence.

Your response to this letter, in duplicate, must be submitted to this office by January 6, 1999. Please include in your response the identification codes referenced on page 1 of this letter. If you find that you are unable to provide all of the information requested within the time allotted, you must request an extension from Mr. Thomas Z. Cooper not later than five days from the due date. If you are unable to provide all of the information requested by the original deadline, you must submit a partial response by that date with whatever information you have available, even if you have received an extension.

This letter is being sent to your company pursuant to 49 U.S.C. § 30166, which authorizes NHTSA to conduct any investigation that may be necessary to enforce Chapter 301 of Title 49, U.S. Code. Your failure to respond promptly and fully to this letter could subject Ford to civil penalties pursuant to 49 U.S.C. § 30165 or lead to an action for injunctive relief pursuant to 49 U.S.C. § 30163.

If you consider any portion of your response to be confidential information, include that material in a separate enclosure marked "CONFIDENTIAL." In addition, you must submit a copy of all such material to the Office of Chief Counsel (NCC-30), National Highway Traffic Safety Administration, 400 Seventh Street, SW, Washington, DC 20590, and comply with all other requirements for the submission of confidential business information stated in 49 CFR Part 512.

If you have any technical questions concerning this matter, please contact Mr. John Abbott of my staff at (202) 366-5221.

Sincerely,



Thomas Z. Cooper, Chief
Vehicle Integrity Division
Office of Defects Investigation

Enclosures: 12 VOQ's: 813241, 824016, 808265, 821667, 979634, 521137, 804418, 541041
820316, 536206, 819621, 823462; 5 fire department reports; 2 internet reports; and
2 fire investigator reports

NHTSA:NSA:ODI
NSA-12:JABBOTT:dtd:6-5221:11/17/98
cc:
NSA-01
NSA-12/Subj/Chron/
Document: I:/ABBOTT/Towncar.IR

1992 Lincoln Town Car (1LNLM81W2NY703705)



11/24/98

PE Opening Reports (PE98-055)
1992 Lincoln Town Car Engine Fires

NO.	Source	ST	VIN	M/Y
1	813241	FL	1LNLM82W5NY	92
2	824018	TX	1LNLM81W2NY	92
3	808285	FL	1LNLM82W7NY	92
4	821667	LA	1LNLM81W8NY	92
5	979634	TX	1LNLM82W5NY	92
6	521137	OK	1LNLM81W2NY	92
7	F.D.R.	GA	1LNLM82W3NY	92
8	804418	OH	1LNLM81W8NY	92
9	541041	FL	1LNLM81W3NY	92
10	F.D.R.	FL	1LNLM81W2NY	92
11	F.D.R.	FL	1LNLM82W7NY	92
12	A805260	FL	1LNLM81W0NY	92
13	820316	FL	1LNLM81W3NY	92
14	I/Net	FL	1LNLM81W8NY	92
15	536206	MS	1LNLM83W8NY	92
16	819821	LA	1LNLM82W5NY	92
17	I/Net	FL	1LNLM82W4NY	92
18	F.D.R.	GA	1LNLM82W1NY	92
19	A804221	FL	1LNLM81WP2Y	93
20	823462	MS	1LNLM81W5PY	93
21	F.D.R.	FL	1LNLM81WXPY	93

3713 1005

Pol - Let's talk prior to this 12/7/98 mtg

Also - ~~cancel~~ Aerostar Tech Review Mtg for Rev of Fuel Pump in 12/3/98 1:30-3:30

Note printed by TMASTERS on 30 Nov 1998 at 10:05:18

From: TDONOVAN--DREN005
To: TMASTERS--DREN005

Date and time 11/30/98 07:03:59

FROM: TIM DONOVAN
Subject: NETSA Inquiry PR98-055 Kickoff Meeting
FYI

USART(UTC -05:00)

Regards,
Tim Donovan, Manager AVT-MSSE Ongoing Product Development
Bldg. 9, MD 5017, Room 1A043
(313) 390-7420, Fax: 317-9188, E-Mail: usfmc79n@ibmmail.com
*** Forwarding note from BKENNED3--DREN005 11/30/98 06:09 ***
To: TDONOVAN--DREN005
cc: BKENGLIS1--DREN005

BKENNED3--DREN005

FROM: William Kennedy
Subject: NETSA Inquiry PR98-055 Kickoff Meeting

USART(UTC -05:00)

Tim,

Re: the issue I spoke to you about last week. It involves 92/93 Town Cars. As you can see from the attached note - the source of the fires is unknown. Any help your people could provide for the kick-off mtg. would be a help. (A warrant search, or any other info that might help provide more background)

Thanks.

Bill Kennedy
Vehicle/Chassis Engineering
Luxury & Large Car Vehicle Center
(313) 24-85210 FAX (313) 62-16971 email bkenned3@ford.com
*** Forwarding note from DPOLASKI--DREN005 11/25/98 16:29 ***

To: WBOHAN --DREN005	Bill Bohan	WABRAMCZ--DREN005	William Abramczyk
RWHEELLOC--DREN005	Bob Wheelock	LEEDWARDS--DREN005	Lynn Edwards
RNEVI --DREN005	Ray Nevi	ABRANDT1--DREN006	
FEYKAYLO--FORNMA1		FWOORE4 --DREN006	
JLOGEL --DREN005	Jay Logel	RBISKUP --DREN005	Robert Biskup
RCASSEL --DREN005	Reem Cassel	JMCINERN--DREN005	John Moirnerney
MYETT --VISTEON		EGERAGHT--DREN005	Brian Geraghty
CTESKE --DREN005	Chuck Teske	RHNGOLIS1--DREN005	Rob English
EDERING--DREN005	Z. Deering	JBRADLEY--DREN006	
JPETRUCCI--DREN005	Julie Petrucci	BKENNED3--DREN005	William Kennedy
cc: ARKHL --DREN005	Arlene Axel		

FROM: Donna J. Polaski

USART(UTC -05:00)

Requester: Donna Polaski
Date to be scheduled: 12/03/98
Starting time: 9:30AM USART
Ending time: 10:30AM USART

Location: Boardroom - 4th Floor - Fairlane Plaza South

Subject: NETSA Inquiry PR98-055 Kickoff Meeting

Purpose: Subject vehicles: All 1992 and 1993 Lincoln Town Cars

VER Donna CHANGE W '95

3713 1006

Alleged defect: All under hood fires, or other thermal anomalies, from any source or origin, of any description, level degree, or magnitude, occurring in the left, or drivers side, of the engine compartment. This would include fires in the area of the left front wheel, or left front fender. (Mtg. called by E. Abramczyk #23284)

Have a nice day!
Donna J. Polaski
Automotive Safety Office, Suite 800 - Fairlane Plaza South
Ph. (313)32-20526 Fax (313)59-42268 E-Mail: dpolaski@ford.com

NHTSA Inquiry PE98-055 Kickoff Meeting

Subject Vehicles: All 1992 and 1993 Lincoln Town Car vehicles

Alleged Defect: all under hood fires, or other thermal anomalies, from any source or origin, of any description, level degree, or magnitude, occurring in the left, or drivers side, of the engine compartment. This would include fires in the area of the left front wheel, or left front fender

Name	Org	Dept.	Profs	Bldg.	Room	Phone	Fax	Initial
Bill Behen	ASO	PVSC	WBOHAN	FPB	500	29115	42255	BS
William Abramczyk	ASO	PVSC	WABRAMCZ	FPB	500	23254	42255	
Bob Wheelock	ASO	PVSC	RWHEELOC	FPB	500	75586	42255	
Lynn Edwards	ASO	PVSC	LEDWARDS	FPB	500	29425	42255	
Ray New	ASO	PVSC	RNEW	FPB	500	47555	42255	RAN
Joe Bradley	FCSD	Recalls	JBRADLEY	DSC II		72457	51024	
Andrew Brandt	FCSD	Recalls	ABRANDT1	DSC II	255	57510	51024	AB
Frank Bykaylo	FCSD	MORS II	FBYKAYLO	DSC II		54555	55475	
Philip Moore	FCSD	CCIS	PMOORE4	DSC II		44755	55449	PM
John P. O'Shea	OGC	Legal	JPOSH	PTW	300	54353	00019	PO
Jay Legal	OGC	Legal	JLEGAL	PTW	300	43725	00019	
Rob Bishop	OGC	Discovery	RBISHOP	PTW	1400	57734	55552	
Julie Petrucci	PVT	Manager	JPETRUCCI	Wcom		45105	45105	
Jack Paskus	LVC	Eng Dir.						
Mike ZavaRink	LVC	Veh Line Dir.						
Chuck Tappin	LVC	PD Chief Program	CTAPPIN					
Zandra Gearing	LVC	OPD	ZGearing	#1		41053	00012	ZG
John McNamee	LVC	OPD	JMCNAMEE					
Mike Jett	Visteon		MJETT			55577		
Rob English	AVT - Electrical		RENGLIST			73225		RE
Brian Gough	Design Analysis		BGOUGH			40055	44522	
Trevor Worthington	Supv		TWORTH1			55175		
Jaquet Hussain	OTPS, Air	Engineering	JHUSSAIN	2	24425	55115		JH
Mike Solis	Mgr Test		MSOLIS			25577		
Ralph Arning	PTP TSD		PARNING			55750	45960	PA
Tom Masters	AVT - ELCT	OPD	TMASTERS	25	2A024	09657	7155	

Jim old field for Solis AVT Fuel