returning to the fully engaged position. The force required to rotate the trigger to the fired position measured low on this sample.

- 5. Gun A-26 was examined. Trigger pull on this gun was also in specification when checked. The sear was free to move in this gun and loosening and tightening the support bracket screw did not effect sear movement. No movement of the fire control could be detected when the screw was tightened. The insert was also checked on the adjustment and inspection setup. The trigger would also not fully return to the fully engaged position on this sample.
- 6. The metal side plates on both A-14 and A-26 were removed. On both samples it appeared that the trigger spring adjustment screw opening was distorted slightly on the bottom side of the hole. It also appeared that the screw may not of been located central to the opening. This resulted in less space for the trigger return spring on the bottom and it was theorized that this could result in binding of the spring during operation. This was not proven however.
- 7. A discussion followed focused on the procedure followed during T & P build. It was discovered that after insert assemblies were built and adjusted on the adjustment and inspection station that the insert assemblies were built into guns by various assemblers. After a gun is built it is checked for trigger pull and if measured out of specification the fire control adjustment screws are adjusted to bring trigger pull into specification. This is done by the assembler at the bench and the is only occused on trigger pull, not whether the fire control change he just made has effected any other parameter in the gun, like trigger return. This is the most probable cause of the tire control related mailtinicions on both A-14 and A-26, misadjusted fire controls with inadequate inspections to catch this situation. An additional factor on gun A-14 may be the support bracket bias resulting in slight sear bind caused by the location of the threaded hole in the receiver being out of specification.
- 8. Bolt stop breakage was discussed. One of E-town's metallurgists is ourrently analyzing failed samples and destructively testing DAT and T & P samples in an attempt to understand the reason for these failures. No solution can be offered at this time.

During a wrap-up meeting in Mayfield all issues were listed along with the most probable cause. This was followed by a listing of actions required by Mayfield to correct these issues on existing T & P product so that a new sample could be selected for a second T & P test. The following proposed plan was offered:

- Mayfield will screen existing guns for stock sink and trigger location in the trigger bow opening and replace stocks as required. A .020" shim must go on both sides of the trigger between the trigger and stock opening. The trigger must be biased to the appropriate side before this check is made.
 - Mayfield will build new insert assemblies using all new parts. The adjustment/inspection setup will be used to set all fire control settings (engagement, over travel and trigger return spring force. All assemblies will be inspected for adequate trigger return force to ensure that all triggers return to full engagement. In addition sears should be inspected to ensure that they are free to move both in and out of the stock (with bracket installed). T & P guns will be rebuilt using these new assemblies. The assemblers will be instructed to check trigger pull and then segregate product based on whether they are below, above or in specification. It should be mentioned that Mayfield has requested a new trigger pull specification of 4 to 5.5 lbs. Yield based on trigger pull will be tabulated by Mayfield and used to support their position on this issue. Any trigger pull specification change needs to have Marketing's approval prior to T & P test start.
- Mayfield will retest product in the modified shooting test booth to verify that the trigger bending has been corrected.
- Mayfield needs to ensure that the support bracket does not bias the fire control insert in any way
 on all T & P product. This should include both inspection and dimensional verification that all
 characteristics that could effect this, like the location and orientation of the threaded hole in the
 receiver are in specification.



Page 2

710 TRAIL & PILOT SERIES- B 11/15/00 TEST LAB TRACKING NUMBER- TLW0300

PRELIMINARY MEASUREMENTS & CHECK

BLUE INDICATES BELOW SPEC. RED INDICATES ABOVE SPEC.

PROOF TEST & MAGNAFLUX COMPLETED AT MAYFIELD # ### ### ### ### ### ##############																				
				HEADSPACE,		gi (i	asar ir 1973 Asar										Ì			
				REM. SPEC		7	H SPRING S		FIRING PIN INI			IOUPDO	CCAD TO	****	O ENCAC	PEMENT	SEAR TO TE	DICCED D	NCACEMI	ENT
ID#			STAMP	GAUGES TLW0300G		LW0300J				LW0300H	OPPER CR	JOHERO			tock @ 2		TLW03001 ir			-111
Ì	}	TLW0300E,F	1 (W 0 3 0 0 E, r	I LW0300G	۱ , ۱			LBS.	, '	LIYU300H 2	3.4	VERAGE	1	2		AVERAGE	1	2 ayıı		AVERAGE
٦,	71001124	YES	YES	MIN.+.002	,	5		5,17	0.017	0.017	0.018	0.0173	0.0297	0.0298		0.0274	0.0298	0.0285	0.0298	0.0294
ŧ .	71001124	Y	Y 23	MIN.+.002	5.25	5.5		6.25	0.018	0.017	0.018	0.0177	0.0277	0.0278		0.0274	0.0279		0.0274	0.0279
	71001104	,	Ϋ́	MiN.+.002	4.25	4.75	426	4,42	0.017	0.016	0.018	0.0170	0.0282	0.0291	0.0272	0.0282			0.0265	0.0272
	71001244	v	, ,	MIN.+.001	4.25	4.5	4.25	8.50	10.018	0.016	0.018	0.0173	0.032	0.0311	0.0307	0,0313		0.0323	0.0336	0.0323
		Ÿ	Ý	MIN.+.001	4.25	4.0	4.23	4.58 4.08	0.018	0.018	0.017	0.0177	0.0268	0.027	0.026	0.0266	0.0301	0.0298	0.0308	0.0302
	71001421	Ý	Ì	MIN.+.001	4.75	4.25	4,25	4.42	0.016	0.016	0.017	0.0163		0.0261	0.0259	0.0261	0.0262	0.0275	0.0267	0.0268
1	71001402	Y	l ;	MIN.+.001	5.5	5.25	5	5.25	An object of Section 1	0.016	0.016	0.0163		0.0299	0.0294	0.0296	0.0273		0.0279	0.0277
	71001504	\ \ \	,	OUT OF TEST.			•		CENTER IN TR				ARKETING				1		5,02.0	
B-9	71001511	Ý	l ;	MIN.+.001	5.5	5.25	5.25	5.33	 20% (20% (20%)) 	0.018	0.017	0.0173		0.0267		0.0271	0.029	0.0275	0.0267	0.0277
	71001529	Y	l 🗼	MIN.+.001	5.5	5.25	5.25	9.33	0.017	0.018	0.017	0.0173		0.0283		0.0291	0,0286	0.0298	0.0308	0.0297
	71001525	, ,	\ \\ \\	MIN.+.002	4.5	5.20	4.5	4.67	0.017	0.017	0.017	0.0170	0.0311	0.031	0.0306	0.0309	0.0295	0.0289	0.0296	0.0293
	71001535	, ,	Ų	MIN.+.001	5.5	5	4.75	548	0.019	් ^{වී} 0.018	0.018	0.0183	0.0273	0.0283	0.0286	0.0281	0.0259	0.0262	0.026	0.0260
	71001539	Ÿ	÷	MIN.+.001	5.5	5	5	5,08 5,17		2072	0.017	0.0177	0.0291	0.0295	0.0299	0.0295	0.0289	0.0282	0.0287	0.0286
	71001559	Ý)	MIN + 002	5	5	5	5.00	0.019	0.019	0.02	0.0193	0.0314	0.0308	0.0315	0.0312	0.0287	0.0284	0.0278	0.0283
	71001578	į	Ÿ	MIN.	4.5	4.75	4.5	4.58	0.017/2	and the same of the	0.017	0.0170	0.029	0.0279	0.0293	0.0287	0.0278	0.0286	0.0293	0.0286
	71001580	Ÿ	Y	MIN.+.001	5.75	5.5	6	5.75	0.017	0.018	0,018	0.0177	0.0307	0.0304	0.0313	0.0308	0,0292	0.0295	0.0305	0.0297
	71001583	Y	Y	MIN.+.002	5	5	5.25	5.08	0.017	0.018	0.019	0.0180	0.036	0.0375	0.0366	0.0367	0.0368	0.0361	0.036	0.0363
	71001584	Y	Y	MIN,+.001	4.75	6	6.25	5.67	20.016	0.018	0.017	0,0170	0.0291	0.0272	0.0286	0.0283	0.0277	0.0276	0.0282	0.0278
	71001595	Υ .	Y	MIN.+.001	5	5.5	5.25	5.25	0.019	0.018	0.019	0.0187	0.0286	0.0282	0.0286	0.0285	0.0265	0.0268	0.0262	0.0265
B-20	71001605	Y	Y	MIN,+.001	5	4.5	4.75	4.75	0.616	0.016	0.017	0,0163	0.0262	0.0271	0.026	0.0264	0.0242	0.0267	0.0272	0.0260
B-21	71001613	Y	Y	BELOW MIN.	5.75	5.75	5.25	5.58	0.017	0.017	0.018	0.0173	0.0256	0.0256	0.0251	0.0254	0.026	0.0262	0.0265	0.0262
B-22	71001623	Y	(Y	MIN.	4.75	4.75	5.25	4.92	0.016	0.018	0.018	0.0173	0.0271	0.0273	0.0262	0.0269	0.0265	0.0274	0.0282	0.0274
B-23	71001632	Y	Υ	MIN.+.001	5	4.75	5.25	5.00	0.018	ം നട	0.047	0.0170	0.0267	0.0271	0.0278	0.0272	0.0292	0.0286	0.0298	0,0292
B-24	71001634	Y	Y	MIN.+.001	5.5	5.5	5.25	5.42	0.019	46.7	- 5 A B C7	. 0.0177	0.0279	0.0278	0.0268	0.0282	0.0304	0.0319	0.0315	0.0313
B-25	71001643	Y	Y	MIN.+,001	4.25	4	4.5	4.25	0.018	007	0.018	0.0177	0.0301	0.0304	0.0312	0.0308	0.0275	0.0274	0.0274	0.0274
B-26	71001647	Y	Υ	MIN.+.001	5	5	5	5.00	0.017	0.017	0,017	0.0170	0.0269	0.0285	0.0292	0.0282	0,0293	0.0283	0.0285	0.0287
B-27	71001724	Y	γ	MIN.+.002	5.75	4.75	4.25	4.92	0.019	0.019	0.02	6.0193	0.0298	0.0304	0.0299	0.0300	0.0292	0.0278	0.0289	0.0286
B-28	71001760	Y	Υ	MIN.+.002	5.25	4.75	4.5	4.83	0.016	0.017	0.015	0.0163	0.0344	0.036	0,0367	0.0357	0,0359	0.0367	0.037	0.0365
	71001782	Υ	Y	MIN.+.002	4.25	4.75	5	4.67	0.019	0.019	0.018	0.0187	0.0294	0.0293	0.0303	0.0297	0,0269	0.027	0.0267	0.0269
B-30	71001789	Y	Υ	MIN.+.002	4.25	4.5	4.5	4.42	0.019	0.017	0,019	0.0183	0.0284	0.0285		0.0292	0,0255		0.0266	0.0261
							VERAGE	4,96			AVERAGE	_0.00752		TEST A	VERAGE	0,02906			VERAGE	0.02878

SPEC.= 4.0 TO 5.5 LBS.

SAAMI MIN.= 0172

SPEC.= .020 TO .025

SPEC.= .020 TO .025



COMMENTS FROM TECHNICIANS-STOCK TAKE DOWN SCREWS ARE NOT TIGHTENED TO TORQUE SPEC, SOME ARE BARELY TIGHTENED AT ALL. SCOPE RING TO MOUNT SCREWS ARE NOT TIGHT





						1980 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	EAR LIFT					ROL INSPECTION TEMOSCOAU	
TLW03001 out o				out of stock @ 2		SEAR MOVEMENTS:	
1	2		VERAGE	ENGAGEMENT	GAP	in stock by feel	
0.0122	0.6139	0.0133	0.0131	0.0315	0.0030	FREE	
0.0127	0.0132	0.0131	0.0130	1	0.0037	FREE	
0.015	0.0145	0.0147	0.0147	0.0330	0.0049	SAN FREE	
0.0151	0.0173	0.0167	0.0164	•	0.0000	FREE	NOTE- MAR ON RECEIVER OUT OF BOX
0.0134	0.0123	0.0113	0.0123	1	0.0008	- FREE	NOTE- MISSING REAR TAKE DOWN SCREW OUT OF BOX, NOTHING IN BO
0,012	0.0124	0.0121	0.0122			FREE, SLIGHT STEP ELT IN SEAR TRAVE	
0.0154	0.0139	0.0136	0.0143	0.0328	0.0038	FREE	
0.0138	0.0132	0.0145	0.0138	0.0297	0.0007	FREE	la de Transit
0.0123	0.0141	0.0141	0.0135	0.0302	0.0000	FREE CHEST	
0.0141	0.0137	0.0131	0.0136	0.0330		FREE, SLIGHT STEP FELT IN SEAR TRAVEL	(%) (%) (4.7)
0.0144	0.0137	0.013	0.0137	0.0309	0.0023	FREE, SLIGHT STEP FELT IN SEAR TRAVEL	
0.0152	0.0143	0.0146	0.0147	0.0329	0.0017	FREE 🧤 🦎	5°
0.013	0.0126	0.0149	0.0135	0,0352	0.0032	FREE 1	ngA
0.0162	0.0163	0.0158	0.0161	0.0320	0.0026	FREE, SLIGHT STEP FELT IN SEAR TRAVEL	1.00 (
0.0156	0.0161	0.0158	0.0158	0.0334	0.0043	FREE	1.85/01.036
0.0137	0.0135	0.0137	0.0136	0.0412	0.0000	FREE	NOTE: SAFETY IN FIRE POSITION OUT OF BOX
0.014	0.0138	0.0138	0.0139	0.0282	0.0026	FREE, SLIGHT STEP FELT IN SEAR TRAVEL	585" 585"
0.0119	0.0119	0.011	0.0116	0.0312	0.0021	FREE	1987
0.0175	0.0153	0.0165	0.0164	0.0318	0.0024	FREE 👸	[25년 (25년 8년 ²⁷ - 19년 18년 (25년 - 19년 1년
0.0151	0.0146	0.0145	0.0147	0.0290	0.0000	FREE	F '''
0.0134	0.0134	0.0144	0.0137	0.0297	0.0040	FREE	ුයර්ගන් , හේමර වැටි.
0.0126	0.015	0.0157	0.0144	0.0296	0.0011	FREE	A CONTRACT OF THE CONTRACT OF
0.0145	0.0141	0.0149	0.0145	0.0334	0.0000	FREE	्रहर्म कर्मा । । । । । । । । । । । । । । । । । । ।
0.0156	0.013	0.0149	0.0145	0.0308	0.0018	FREE	n
0.0129	0.0138	0.0135	0.0134	0.0296	0.0014	FREE	
0.0163	0.0173	0.0175	0.0170	0.0315	0.0017	FREE	Sold and the sold
0.0171	0.0127	0.0149	0.0149		0.0000	FREE	Service Control of the Control of th
0.0162	0.0154	0.0157	0.0158	0.0302	0.0000	FREE	NOTE- MAR ON STOCK OUT OF BOX
0.0128	0.0138	0.0131	0.0132	l	0.0019	FREE	10,300,000,000,000
	TEST A	VERAGE	0.0132	0.0319	0.0025		

SPEC.= .006 TO .018

Confidential

S**BARBER - 5:22:060000553**Ye Order Williams v. Remington