



Chaparral Industries, Incorporated
5995 North Washington Street
Denver, Colorado 80216 / Telephone (303) 292-1240

WARRANTY ADMINISTRATION BULLETIN

August 4, 1972

WARRANTY ADMINISTRATION BULLETIN #9

To: All Snowmobile Distributors and Dealers (Principal, Service Mgr., Parts Mgr.)

Subject: Replacement of 1973 Firebird Grills

Under separate cover, all Chaparral Distributors are being shipped Mylar grill templates for immediate Dealer distribution for use when installing grills in the units that were shipped from the factory less grills.

Reimbursable installation time will be twelve (12) minutes or .2 hours at Chaparral's regular warranty repair labor rate. A single claim form is to be used and should include as many unit serial numbers as convenient. All serial numbers are to be listed under the parts section of the warranty claim form. GRILL RETRO WARRANTY ADMINISTRATION BULLETIN #9 should be indicated under the "repair instructions" section of the claim form.

Installation instructions have been printed on the templates for convenience.

Thank you for your cooperation.


R. W. Billups
General Service Manager

RWB:ap

WARRANTY ADMINISTRATION BULLETIN

August 4, 1972

WARRANTY ADMINISTRATION BULLETIN #2

To: All Snowmobile Distributors and Dealers (Technical, Service Mgr., Parts Mgr.)

Subject: Replacement of 1513 Piston and Crank

Under separate cover, All Chapteral Distributors are being shipped right with
template for immediate Dealer distribution for use when installing pistons in the
units that were shipped from the factory less pistons.

Returnable installation time will be twelve (12) minutes or .2 hours at
Chapteral's regular warranty repair rate. A single claim form is to be used
and should include as many unit serial numbers as convenient. All serial numbers
are to be listed under the parts section of the warranty claim form. GRILL RETRO
WARRANTY ADMINISTRATION BULLETIN #2 should be indicated under the
"parts instructions" section of the claim form.

Installation instructions have been printed on the template for convenience.

Thank you for your cooperation.


R. W. Billings
General Service Manager

HWB:ap



Chaparral Industries, Incorporated
5995 North Washington Street
Denver, Colorado 80216 / Telephone (303) 292-1240

WARRANTY ADMINISTRATION BULLETIN

August 3, 1972

WARRANTY ADMINISTRATION BULLETIN #8

To: All Snowmobile Distributors and Dealers (Principal, Service Manager, Parts Manager)

Subject: 1973 Throttle and Brake Controls

Reference: Service Bulletin #15 Dated July 12, 1972

It has been determined that several handlebar controls on 1973 Firebird Snowmobiles had been exposed to brake fluid during assembly operations. The total quantity is unknown, however, the serial numbers involved are not expected to be above USN 100470.

Note that not all units prior to this USN are affected and no retro-fit program is being actioned.

The chemical reaction to the Lexan material used in these assemblies is such that the controls will most likely indicate damage by the time they are received either by the Distributor or Dealer. If no damage is obvious by visual inspection, operating the throttle and brake controls several times will normally result in immediate cracks to the control assemblies, IF THEY HAVE BEEN EXPOSED TO BRAKE FLUID.

Should this situation be encountered, the affected controls should be replaced on a warranty basis and through regular warranty channels.

Replacement/repair labor hours will be reimbursed at 15 minutes or .25 hours for each control assembly where encountered.

over...

If a control assembly is replaced due to the above described condition, extreme care must be used to remove ALL traces of the brake fluid that caused the control damage. This can be done with hot water and soap in the handlebar area of the controls.


R. W. Billups
General Service Manager

RWB:ap



Chaparral Industries, Incorporated
5995 North Washington Street
Denver, Colorado 80216 / Telephone (303) 292-1240

WARRANTY ADMINISTRATION BULLETIN

October 13, 1972

Warranty Administration Bulletin #11A

To: Chaparral Distributors Only (Principal, Service Manager, Parts Manager)

Subject: New PolyTrac

Warranty Administration Bulletin #11 referenced particular instructions involving new PolyTracs received, both installed on new snowmobiles and inventory tracks. As a precaution, we advised of the possibility of a small quantity of defective tracks, code date stamping #61, that could be expected to be found in the field. We now would advise that the same return action will be applicable to any new, defective snowmobile tracks that are found in the field, regardless of code date stamping.

We would urge you to re-read WAB #11 and instruct your dealers accordingly when the situation arises. Once again, all claims must have complete information and the claims are not to be returned to Chaparral without the two pieces as specified.

This action applies to PolyTracs rodged and non-rodged WHICH HAVE NOT SEEN SERVICE. All other PolyTracs removed from machines which are to be claimed under warranty will be returned complete and per standard procedures. Your cooperation is appreciated.


R. W. Billups
General Service Manager

RWB:ap

NOTA: NUNCA

DESE

—Nome do(a)
—Endereço
—Cidade/Estado
—CEP
—Data
—Assinatura

—Assinatura do(a)
—Assinatura do(a)

—Assinatura do(a)
—Assinatura do(a)



Chaparral Industries, Incorporated
5995 North Washington Street
Denver, Colorado 80216 / Telephone (303) 292-1240

WARRANTY ADMINISTRATION BULLETIN

October 17, 1972

Warranty Administration Bulletin #14

To: All Chaparral Snowmobile Distributors and Dealers (Principal, Service Mgr., Parts Mgr.)

Subject: Warranty Repair Flat Rate Schedule - 1973 Snowmobiles

This Flat Rate Schedule is based on actual time consumed by an experienced mechanic working on a typical "clean" used machine. Key parts have been capitalized for ease of reference.

A. CHASSIS

Time
(in tenths)

1. Remove and replace HOOD assembly.	.5
2. Remove and replace HOOD PUSH BUTTON or latch.	.1
3. Remove and replace HOOD HINGE.	.1
4. Remove and replace GRILL.	.2
5. Remove and replace DASH assembly.	.6
6. Remove and replace WINDSHIELD.	.2
7. Remove and replace ACCESS DOOR.	.1
8. Remove and replace HEADLIGHT bracket assembly.	.3
9. Remove and replace SPEEDOMETER assembly.	.2
10. Remove and replace SPEEDOMETER CABLE.	.1
11. Remove and replace SPEEDOMETER DRIVE adapter.	.2
12. Remove and replace TACHOMETER.	.2
13. Remove and replace CLUTCH GUARD.	.2
14. Remove and replace BAFFLE assembly, Firebird and SS III.	.7
15. Remove and replace BAFFLE assembly, Thunderbird.	.8
16. Remove and replace PAN assembly.	1.0
17. Remove and replace TOOL BAG.	.1
18. Remove and replace front BUMPER.	.2
19. Remove and replace STEERING STOP.	.1
20. Remove and replace FRONT BULKHEAD assembly.	2.0

A. CHASSIS (continued)

Time
(in tenths)

21. Remove and replace SPINDLE SUPPORT assembly.	1.5
22. Remove and replace SPINDLE OR SPINDLE BUSHING.	.2
23. Remove and replace TILLER BAR WELDMENT.	.6
24. Remove and replace TILLER BAR SUPPORT WELDMENT.	.8
25. Remove and replace TILLER BAR HOUSING.	.2
26. Remove and replace TIE ROD assembly.	.2
27. Remove and replace TIE ROD END.	.1
28. Remove and replace STEERING ARM.	.1
29. Remove and replace SKI assembly.	.1
30. Remove and replace SKI HANGER.	.1
31. Remove and replace SKI BUMPER.	.1
32. Remove and replace SKI TOP SPRING.	.2
33. Remove and replace SKI CENTER SPRING.	.2
34. Remove and replace SKI MAIN SPRING.	.2
35. Remove and replace SKI WELDMENT.	.2
36. Remove and replace SKI SKAG WELDMENT.	.1
37. Remove and replace SKI SHOCK.	.1
38. Remove and replace FOOT PAD SUPPORT.	.5
39. Remove and replace RUBBER FOOT PAD.	.1
40. Remove and replace SEAT assembly, Firebird, SS III.	.1
Thunderbird	.2
41. Remove and replace SEAT BOX assembly.	.5
42. Remove and replace GAS TANK, Firebird, SS III.	.5
Thunderbird	.7
43. Remove and replace INLET FUEL LINE.	.1
44. Remove and replace RETURN FUEL LINE.	.1
45. Remove and replace PULS LINE.	.1
46. Remove and replace INLET FUEL LINE in tank.	.2
47. Remove and replace CARBURETOR assembly.	.2
48. Remove and replace CARBURETOR GASKET.	.2
49. Remove and replace REAR BULKHEAD.	.3
50. Remove and replace TAIL LIGHT assembly.	.2
51. Remove and replace TAIL LIGHT LENS, large or small.	.1
52. Remove and replace TAIL LIGHT MOUNT.	.25
53. Remove and replace TAIL LIGHT BASE.	.2
54. Remove and replace TAIL LIGHT BAZEL.	.2
55. Remove and replace REAR HANDLE GRIP.	.1
56. Remove and replace REAR FLAP.	.1
57. Remove and replace REAR BUMPER.	.2
58. Remove and replace TRAILER HITCH.	.1
59. Remove and replace MUFFLER WELDMENT.	.1
60. Remove and replace MUFFLER BRACKET.	.2
61. Remove and replace EXHAUST MANIFOLD.	.2
62. Remove and replace MUFFLER MOUNTING SPRING.	.1
63. Remove and replace EXHAUST BALL JOINT SPRING.	.1
64. Remove and replace EXHAUST DUMP TUBE.	.1
65. Remove and replace EXHAUST DUMP TUBE CLAMP.	.1

B. CONTROLS

Time
(in tenths)

1.	Remove and replace THROTTLE CONTROL assembly.	.25
2.	Remove and replace HANDLE GRIPS.	.25
3.	Remove and replace THROTTLE LEVER.	.25
4.	Remove and replace TOP OR BASE THROTTLE HOUSING.	.25
5.	Remove and replace THROTTLE CABLE assembly.	.25
6.	Remove and replace KILL SWITCH.	.25
7.	Remove and replace BRAKE CONTROL assembly.	.25
8.	Remove and replace TOP OR BASE BRAKE HOUSING.	.25
9.	Remove and replace BRAKE CABLE assembly.	.25
10.	Remove and replace DIMMER SWITCH.	.25

C. CHAIN CASE, DRIVE AND DRIVEN

1.	Remove and replace CHAIN CASE assembly.	1.2
2.	Remove and replace CHAIN CASE COVER.	.2
3.	Remove and replace TOP SPROCKET.	.25
4.	Remove and replace LOWER SPROCKET.	.25
5.	Remove and replace O RING FLANGETTE.	.35
6.	Remove and replace CHAIN ADJUSTER.	.25
7.	Remove and replace CHAIN.	.25
8.	Remove and replace INPUT BEARINGS.	1.0
9.	Remove and replace INPUT BEARING CONES.	1.0
10.	Remove and replace INPUT SHAFT.	1.0
11.	Remove and replace INPUT SHAFT SEAL.	.7
12.	Remove and replace DRIVEN ASSEMBLY	.6
13.	Remove and replace DRIVEN FIXED SHEAVE.	.7
14.	Remove and replace DRIVEN SLIDING SHEAVE.	.7
15.	Remove and replace DRIVEN SPRING.	.7
16.	Remove and replace DRIVEN END CAP.	.7
17.	Remove and replace DRIVEN RAMP SHOES.	.7
18.	Remove and replace BRAKE HUB AND FLANGE assembly.	.7
19.	Remove and replace DRIVEN LOCK TOP.	.7
20.	Remove and replace CALIPER BRAKE assembly.	.25
21.	Remove and replace BRAKE CLEVIS AND SWITCH.	.2
22.	Remove and replace DRIVER assembly.	.2
23.	Remove and replace DRIVER FIXED SHEAVE.	.2
24.	Remove and replace DRIVER IDLER BUSHING	.2
25.	Remove and replace DRIVER BUSHING RETAINER.	.2
26.	Remove and replace DRIVER COMPRESSION SPRING	.2
27.	Remove and replace DRIVER SLIDING SHEAVE.	.2
28.	Remove and replace DRIVER GARTER SPRING.	.2
29.	Remove and replace DRIVER WEAR DISC AND END CAP.	.2
30.	Remove and replace DRIVE BELT.	.2

D. TRACK, BOGIE AND SLIDE RAIL SUSPENSION

Time
(in tenths)

1. Remove and replace TRACK.	1.0
2. Remove and replace FRONT AXLE.	1.0
3. Remove and replace FRONT AXLE BEARINGS.	1.0
4. Remove and replace DRIVE SPROCKETS.	1.0
5. Remove and replace BOGIE WHEEL.	.1
6. Remove and replace BOGIE WHEEL SHAFT.	.2
7. Remove and replace REAR IDLER WHEELS.	.3
8. Remove and replace REAR IDLER AXLE.	.3
9. Remove and replace REAR CENTER AXLE SPACERS.	.3
10. Remove and replace TRACK ADJUSTING SCREW.	.1
11. Remove and replace BOGIE HANGER.	.2
12. Remove and replace BELL CRANK.	.2
13. Remove and replace BELL CRANK TRUNION.	.2
14. Remove and replace SHOCK.	.1
15. Remove and replace SHOCK MOUNT BUSHING.	.2
16. Remove and replace FORWARD LINK assembly.	.25
17. Remove and replace SLIDE RAIL, SS III (one rail)	.6
Remove and replace SLIDE RAIL, SS III (two rails)	.7
Remove and replace SLIDE RAIL, Thunderbird, Firebird (one rail)	.7
Remove and replace SLIDE RAIL, Thunderbird, Firebird (two rails)	.8

Engine Flat Rate Repair Schedule

E. RECOIL STARTER

Engine Models

	250	All Others
1. Removal and reinstallation of recoil starter only.	.2	.2
2. Replacement of brake springs, retaining springs, caps and/or pawls including removal of recoil from engine and reinstallation.	.3	.3
3. Replacement of recoil spring, including removal of recoil from engine and reinstallation.	.5	.5
4. Replacement of recoil handle, buffer and retaining cup.	.1	.1
5. Complete overhaul of recoil, including thorough check of all parts and, if necessary, replacement of worn out parts. Includes also cleaning and reassembling with low temperature grease where necessary, testing for proper operation, removal of recoil from engine and reinstallation.	.5	.5
6. Replacement of rope drum, including removal of recoil from engine and reinstallation.	.5	.5
7. Removal and reinstallation of carrier, including removal and reinstallation of recoil.	.3	.3

F. IMPELLER

Engine Models

250

All Others

1. Replacement of impeller, including removal and re-installation of recoil, carrier, and blower housings, exchange of magnetic flywheel and adjustment of ignition timing. 1.3
2. Replacement of ring gear, including removal and re-installation of recoil, carrier, and blower housing. .7

G. MAGNETO ASSEMBLY

1. Checking engine timing and contact breaker gap; adjust - 1.0 1.5
ment if necessary. Includes removal and reinstallation of recoil starter and carrier assembly.
2. Replacement of contact breaker assembly. Includes 1.5 2.0
engine timing, removal and reinstallation of recoil starter, carrier assembly, fan cowl, and flywheel.
3. Replacement of ignition coil, generating coil or con- 1.5 2.0
denser. Includes engine timing, removal and reinstallation of recoil starter, carrier assembly, fan cowl, and flywheel.
4. Replacement of armature plate assembly and magnetic 1.0 1.5
flywheel. Includes engine timing, removal and reinstallation of recoil starter, carrier assembly, fan cowl, and disassembly and assembly of complete flywheel.
5. Removal and reinstallation of high tension ignition coil .2 .2
located on the outside of the engine.

H. CARBURETOR AND ADAPTER BLOCK

1. Removal and reinstallation of carburetor, including re- .2 .2
placement of carburetor flange gasket.
2. Removal and reinstallation of adapter block and gaskets. .3 .5
Includes removal and reinstallation of carburetor.

I. ELECTRIC STARTER

1. Removal and reinstallation of electric starter. .5
2. Removal and reinstallation of starter bracket. .2

J. REMOVAL AND REINSTALLATION OF CRANKCASE ASSEMBLY, CRANKSHAFT AND MAIN BEARINGS

1. Removal and reinstallation of crankshaft, one or both 2.0 3.0
main bearings and crankcase halves. Includes complete tear down and re-assembly of engine and timing.

J. REMOVAL AND REINSTALLATION OF CRANKCASE ASSEMBLY, CRANKSHAFT AND MAIN BEARINGS (cont'd)	Engine Models	
	250	All Others
2. Replacement of ignition side oil seal (engine partly disassembled). Includes removal and reinstallation of recoil starter, carrier assembly, fan cowl, fly-wheel, armature plate, and engine timing.	2.0	3.0
3. Removal and reinstallation of oil seal on drive side (P. T. O. end). Includes removal and reinstallation of clutch.	2.0	3.0
K. COMPLETE ENGINE REMOVAL		
1. Complete engine removal. Covers only the time involved in actual removal and reinstallation of an engine to accomplish repair work requiring same. See other schedule listings for individual repair operations.	1.0	1.0
L. PISTON, CYLINDER, AND HEAD		
1. Replacement of piston. Includes removal and replacement of head, shrouds, gaskets, carburetor, exhaust flange, cylinder, and piston.	1.5	2.0
2. Replacement of cylinder. Includes removal and replacement of head, shrouds, carburetor, exhaust flange, cylinder, and gaskets.	1.0	1.5
3. Replacement of head. Includes removal and replacement of shrouds, head, and gaskets.	.7	1.0

SERVICE AND WARRANTY DEPT.
CHAPARRAL INDUSTRIES, INC.



Chaparral Industries, Incorporated
5995 North Washington Street
Denver, Colorado 80216 / Telephone (303) 292-1240

WARRANTY ADMINISTRATION BULLETIN

October 17, 1972

Warranty Administration Bulletin #15

To: All Snowmobile Distributors and Dealers (Principal, Parts Mgr., Service Mgr.)

Subject: Parts Return for Fuel Tanks Claimed Defective
1972 Snowmobiles - P/N's 31058/31059/40059
1973 Snowmobiles - P/N's 51059-1/51059-3

We are simplifying the procedure for the return of defective fuel tanks that occasionally will be found in the field during the forthcoming season. If and when a defective fuel tank is encountered in the field and it is determined that a warranty claim is to be submitted, Chaparral will require, rather than to return the entire fuel tank, the filler neck for the fuel tank (part numbers indicated above) to be cut out of the tank and returned to the attention of the Service and Warranty Department by parcel post or other appropriate means. By using the postal service facilities we will not require the use of RMA's and red tags. The piece should be sent certified mail, with the receipt being attached to the claim to be reimbursed at the time the claim is processed.

Thank you for your cooperation.


R. W. Billups
General Service Manager

RWB:ap



WARRANTY ADMINISTRATION BULLETIN

October 17, 1972

Warranty Administration Bulletin #18

To: All Chaparral Distributors and Dealers (Technical, Parts Mkt., Service Mkt.)

Subject: Parts Return for Fuel Tanks Claimed Defective
1972 Snowmobiles - P/N's 31028/31029/40029
1972 Snowmobiles - P/N's 31028-1/31029-2

We are simplifying the procedure for the return of defective fuel tanks that occasionally will be found in the field during the forthcoming season. If and when a defective fuel tank is encountered in the field and it is determined that a warranty claim is to be submitted, Chaparral will require, rather than to return the entire fuel tank, the filler neck for the fuel tank (part number indicated above) to be cut out of the tank and returned to the attention of the Service and Warranty Department by parcel post or other appropriate means. By using the postal service facilities we will not require the use of RMA's and red tags. The piece should be sent certified mail, with the receipt being attached to the claim to be returned at the time the claim is processed.

Thank you for your cooperation.


R. W. Billings
General Service Manager

RWB:ap



Chaparral Industries, Incorporated
5995 North Washington Street
Denver, Colorado 80216 / Telephone (303) 292-1240

WARRANTY ADMINISTRATION BULLETIN

October 11, 1972

Warranty Administration Bulletin #13

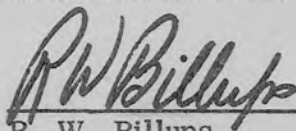
To: All Chaparral Distributors and Dealers (Principal, Service Mgr., Parts Mgr.)

Subject: 1973 Chaparral Snowmobile Model 250 Firebird Clutch Engagement

Reports received indicate a high clutch engagement speed will be experienced on model 250 Firebirds prior to serial number 111087. To improve the engagement and the clutch operation it is necessary to replace the garter spring #37014-3 (red) with garter spring #37014-1 (black).

When this situation is encountered the garter spring is to be replaced, and a repair labor of .2 hours, or 12 minutes will be allowed.

Reference is to be made to this Warranty Bulletin in the Repair Instructions section of the claim, and all claims are to be processed in the usual manner.


R. W. Billups
General Service Manager

RWB:ap

WARRANTY ADMINISTRATION BULLETIN

October 11, 1978

Warranty Administration Bulletin #18

To: All Chevrolet Distributors and Dealers (Principal, Service Mgr., Parts Mgr.)

Subject: 1973 Chevrolet Snowmobile Model 330 Fixed Chute Engagement

Reports received indicate a high clutch engagement speed will be experienced on model 330 Fixed Chute prior to serial number 111037. To improve the engagement and the clutch operation it is necessary to replace the faster spring 437014-3 (red) with faster spring 437014-1 (black).

When this situation is encountered the faster spring is to be replaced, and a repair labor of 1.5 hours, or 12 minutes will be allowed.

Reference is to be made to this Warranty Bulletin in the Repair Instructions section of the manual, and all claims are to be processed in the usual manner.

[Signature]
H. W. Higgins
General Service Manager

RW:Bap