SEARS, ROEBUCK & CO.

Sears, Roebuck & Co. chain saws (formerly known as David Bradley chain saws) are equipped with Power Products engines as shown in the following cross-reference chart. Cross-reference listing is intended for service procedure information only. If parts are required, refer to PARTS PROCUREMENT INFORMATION data following the SAW SERVICE AND MAINTENANCE section and exploded views.

Sears, Roebuck & Co.		Power Products	
Model No.	Drive Type	Model No.	Type No.
917.60001	Gear	AH47	1050E
917.60002	Direct	AH47	1079E
917.60003	Gear	AH47	1050E
917.60004	Direct	AH47	1079B
917.60005	Gear	AH81	40005
917.60006	Gear	AH47	1124
917.60008	Direct	AH47	1125
917.60009	Gear	AH81	40005A
917.60010	Gear	AH47FS	1124
917.60011	Direct	AH81	40006A
917.60013	Gear	AH47FS	1124
917.60014	Direct	AH47	1125
917.60015	Gear	AH81	40005B
917.60016	Gear	AH47	1148A
917.60017	Direct	AH47	1149A
917.60018	Gear	AH47	1152
917.60019	Direct	AH47FS	1153
917.60020	Gear	AH47	1148A
917.60021	Direct	AH81	40006A
917.60022	Gear	AH81	40005C
917.60023	Gear	AH58	1214
917.60024	Direct	AH58	1215
917.60025	Gear	AH47	1224

Sears, Roebuck & Co.		Power Products	
Model No.	Drive Type	Model No.	Type No.
917.60026	Direct	AH47	1225
917.60027	Gear	AH47	1224
917.60028	Direct	AH47	1225A
917.60029	Gear	AH47	1224A
917.60030	Gear	AH47	1152A
917.60031	Direct	AH47	1153A
917.60032	Gear	AH58	1214B
917.60033	Direct	AH58	1215B
917.60034	Gear	AH47	1333
917.60035	Direct	AH47	1334
917.60036	Direct	AH47	1344
917.60037	Gear	AH47	1343
917.60040	Gear	AH47	1333A
917.60041	Direct	AH47	1334A
917.60042	Direct	AH47	1385
917.60043	Direct	AH47	1344A
917.60044	Gear	AH47	1343A
917.61401	Gear	AH58	1283
917.61402	Direct	AH58	1284
917.61403	Gear	AH58	1283A
917.61404	Direct	AH58	1284A
917.61406	Gear	AH58	1377
917.61407	Direct	AH58	1378

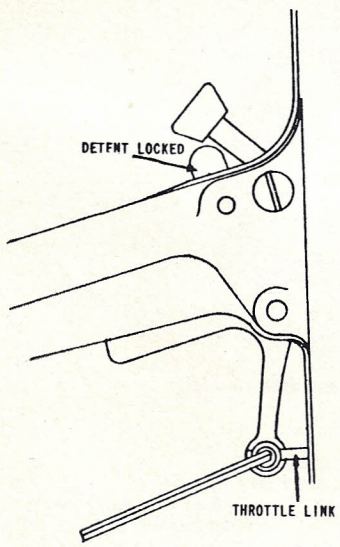

Fig. S1 — Adjusting throttle linkage. Refer to text for procedure.

ENGINE SERVICE NOTES

SPARK PLUG. An Allstate No. 60130 spark plug can be used in all models. Equivalent plugs are AC M45 and Champion J-8J. For cold weather or intermittent operation, a Champion J-11J is recommended. Electrode gap is 0.030.

THROTTLE LINK ADJUSTMENT. On models with adjustable throttle linkage, check and adjust linkage as follows: With throttle trigger locked in detent position as shown in Fig. S1, the carburetor throttle shaft lever should be 1/16 to ⅛-inch away from the idle stop screw. If not, loosen set screw in swivel at lower end of the throttle trigger as shown in Fig. S1, slide the link through the swivel until clearance at idle stop screw is as specified; then, tighten the set screw.

SAW SERVICE AND MAINTENANCE

LUBRICATION. A dry type transmission is used on gear drive models. The only lubrication required is two drops of SAE 30 oil daily in the oil cup on the transmission. CAUTION: Do not over lubricate the transmission as excessive oil in the transmission will cause the drive clutch to slip.

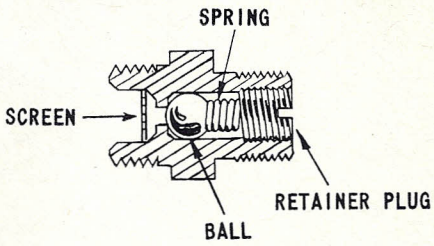

Fig. S2 — When cleaning chain oiler check valve, do not screw retainer plug in past flush with fitting.

The needle bearing in the clutch drum (See Fig. S4) should be lubricated with a thin coat of grease once each season, or whenever the bearing appears to need lubrication. CAUTION: Avoid over lubrication as excessive grease will cause the clutch to slip.

For chain lubrication, fill the oil reservoir with clean SAE 30 oil in summer or SAE 10 oil in winter. In extremely hot weather, SAE 50 oil is recommended; in extremely cold weather, mix kerosene with SAE 10 oil.

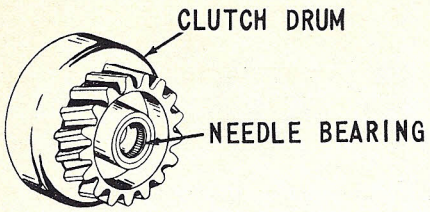

Fig. S4 — Lubricate clutch drum needle bearing occasionally.

OIL LINE CHECK VALVE. A check valve is located in the oil line fitting that connects the oil line to the gear case or saw frame. Refer to Fig. S2 for cross-sectional view of the check valve. Sometimes, foreign material may lodge between the check ball and the seat causing the chain oiler pump to become inoperative. A screen is used in some models. When cleaning the check valve, always reinstall the retainer plug flush with end of fitting. If the plug is threaded in too far, it will cause the oiler pump to be difficult to operate.

CLUTCH. All models are equipped with a four-shoe dry type drive clutch. Renew the clutch drum if scored or grooved. Renew the clutch shoes if clutch slips. Renew the clutch springs if clutch will not release.

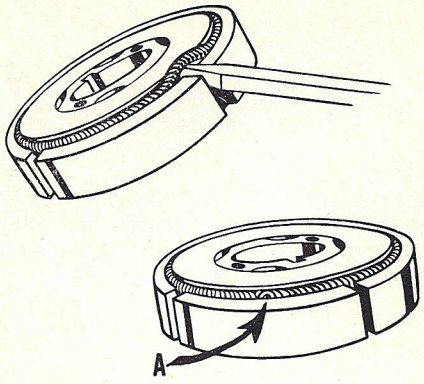

Fig. S5—Removing clutch spring and shoes from rotor.

Two different methods of disassembling the clutch unit are shown in Figs. S5 and S6. Always reinstall the springs with couplings between the shoe slots as shown at (A—Fig. S5).

TRANSMISSION. Disassembly procedure for transmission on gear drive models is evident from inspection of unit and reference to exploded views. The drive clutch is located inside the transmission housing, therefore it is important not to overlubricate the transmission. Refer to LUBRICATION paragraphs.

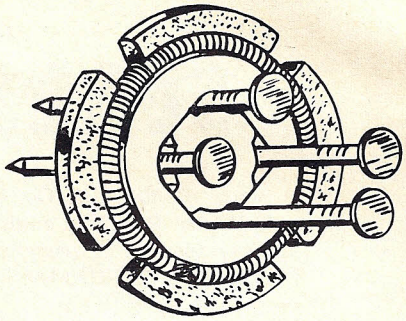

Fig. S6 — Installing clutch shoe retaining springs.

PARTS PROCUREMENT INFORMATION

Parts for Sears, Roebuck & Co., and David Bradley chain saws (including engines) are available from all Sears Retail Stores and Catalog Sales Offices (in Canada, from Simpsons-Sears Limited). Be sure to give complete model and serial number of the chain saw when ordering parts.

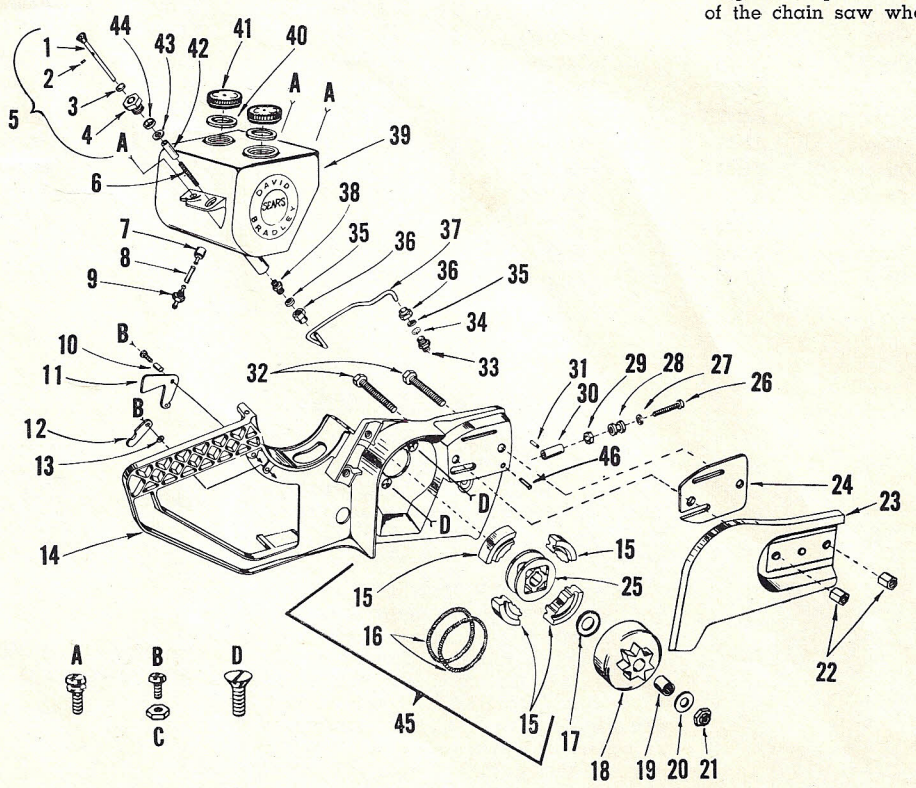

Fig. S7 — Exploded view of tank frame and related part of a typical direct drive model.

5. Oil pump assy.
6. Spring
7. Fuel pickup
8. Hose
9. Fuel fitting
11. Throttle trigger
12. Throttle lock
14. Handle & frame assy.
15. Clutch shoes
16. Clutch springs
17. Washer
18. Clutch drum & sprocket assy.
19. Needle bearing
23. Cover
24. Guide plate
26. Chain adjusting screw
33. Oil fitting
37. Oiler tube
39. Oil & fuel tank

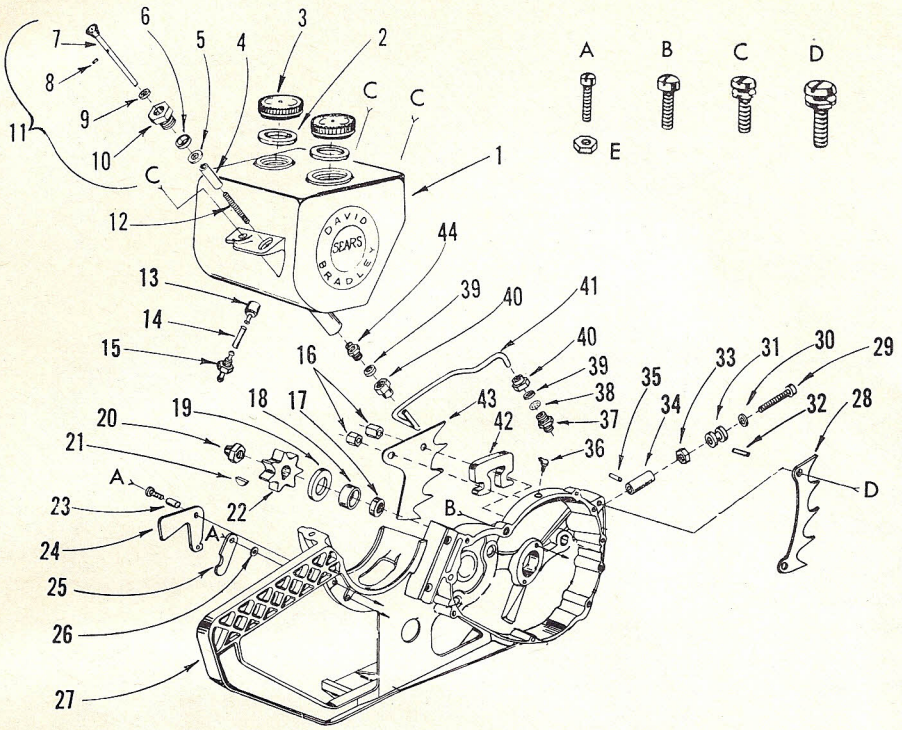

Fig. S8 — Exploded view of tank, frame and related parts of typical gear drive model.

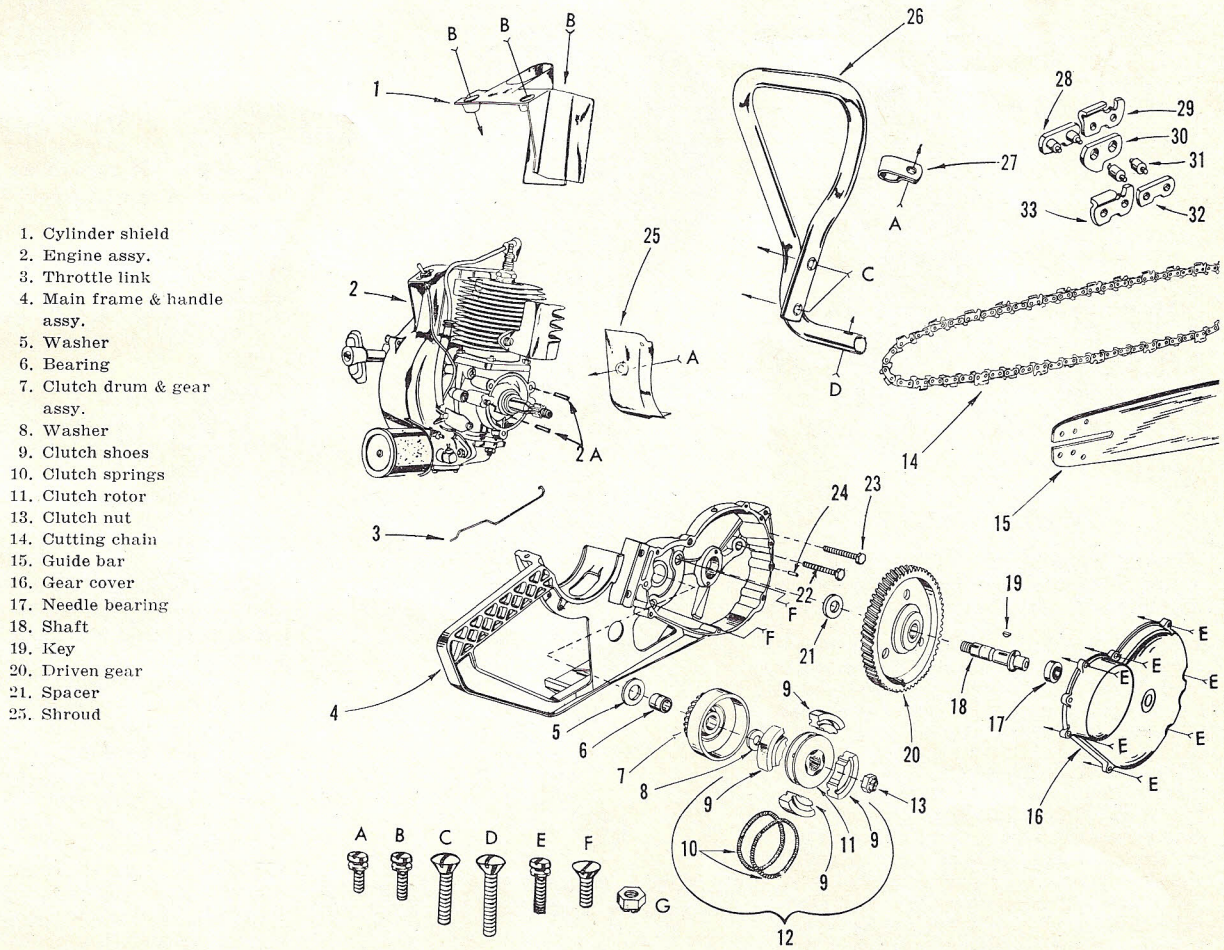

Fig. S9 — Exploded view of gear drive transmission. Refer to Fig. S8 for fuel tank assembly and chain drive sprocket.