MITCHELLOCK TYPES 16-B, 16-S, 17-A, 17-S

pescription:—Mitchellock ignition switches incorporate a change in design from the Electrolock types (previous section) in that the primary lead from the switch to the coil is armored and the breaker lead from the coil is not taken through the switch but is connected directly to the distributor (see wiring illustrations). The Types 17-A and 17-S do not have this armored cable. The location of the terminals on the lock case differs with the various types (see illustration). Mitchellocks designed for use with Startix automatic starting switch have two 'On' positions, one for use in timing with ignition connected but Startix inoperative, and the second position with both ignition and Startix operative. This second position is the regular operating position of the switch. Details on each type switch are given on the car data sheet ('On' positions may be left and right or both to the right of the 'Off' position).

SERVICING:—To Disassemble Mitchellocks—Disconnect all leads and remove lock from mounting on dash, Remove stakings at rear of lock case which retain lock case cover, Remove all terminal screws and bushings, Pull lock case cover and contact base assembly out of lock case. Rotary contact assembly and adapter may then be remove, See special directions below for removal of each type lock cylinder from lock case.

To Assemble Mitchellocks:—Insert adapter in lock case making certain that tongue and pin on end of lock cylinder engage groove and slot on end of adapter. Insert rotary contact assembly and see that tongue and small pin on end of adapter enter groove and pin hole in end of rotor. Install contact base assembly, insert terminal screws (with bushings in place) through holes in lock case and screw firmly in place in terminal lugs on contact base assembly. See that ground strip on contact base assembly makes good contact with lock case, install lock case cover making certain that groove in cover engages projection within case, stake case securely.

Briggs & Stratton Lock Cylinders on Types 16-B, 16-S. To service these lock cylinders, first remove lock from mounting, disconnect ammeter lead and turn key to extreme right hand position, insert a 1/16 inch diameter pin as far as possible in hole in side of lock case, pull lightly on key until lock cylinder can be withdrawn.

Yale & Towne Lock Cylinders on Types 16-S, 17-S. These lock cylinders are removed for servicing in the same manner as the Briggs & Stratton lock cylinders used on the Types 16-B, 16-S. Follow directions in paragraph above.

Hurd Lock Cylinders on Type 16-S#5174. To service these lock cylinders, first remove lock from mounting, disconnect ammeter lead, turn key to extreme right hand position, press down on retaining pin (which projects into the small hole located at the top of the threaded front end of the lock case) with a small pointed tool until lock cylinder can be withdrawn.

Independent Lock Cylinders on Type 16-S—#5172, 17-A—#5159. To service these lock cylinders, disconnect ammeter lead, turn key to extreme right hand position, withdraw key, insert special 'extracting key', press key in as far as possible until lock cylinder can be withdrawn. These special 'extracting keys' will be sold only to authorized service stations and the number of the lock for which they are to be used must be specified (see list below).

TROUBLE SHOOTING:—Test circuits through the switch, using a lamp and test points, for each switch position to determine if switch is operating correctly. If switch appears to be defective, disassemble as directed above and examine. It should be remembered that Startix terminal is connected to feed terminal only with the switch key in the 'running' position and is not connected with the switch in the 'timing' position.

MITCHELLOCK TYPES 24-B, 24-R, 24-S

NOTE:-Mitchellocks differ from 'Electrolock' types also manufactured by the Mitchell Specialty Company in that the switch is designed to be connected to the Ignition coil by armored cable (rather than to the distributor as on Electrolocks), so that the coil lead is protected (rather than the breaker lead from the coil to the distributor). When Mitchellocks are used, the breaker lead is run directly from the coil to the distributor terminal and is not taken through the switch. Switch types numbered from 1 to 15 are Electrolocks, types above 15 are Mitchellocks.

DESCRIPTION: -Similar in design to previous type Mitchellocks except that terminals located on lock case cover (see illustration). Furnished in three types

B' Type (24-B)-Has extra terminal for gasoline gauge or other accessory

connection. Accessory terminal live only with switch 'on'.

'R' Type (24-R)—Same as above but switch has two 'on' positions; one for regular running with ignition on, and a second position with accessory terminal live but ignition off. This position may be used for gasoline gauge reading with engine not running or for radio control with car parked.

'S' Type (24-S)—Has additional terminal for Startix or other automatic starting device connection. Switch has two 'on' positions; one for regular running with Startix operative, and a second position with ignition on but Startix inoperative. This position used when checking timing or whenever automatic

SERVICING:-To disassemble Mitchellock-With switch removed from dash and all leads disconnected, remove stakings on lock case retaining lock case cover, pull cover and entire rotor and switch base assembly out of case. Replace rotor and switch base assembly as a unit. This unit (Part No. 6420) normally stocked with sufficient excess current wire length so that wire can be cut to desired length for any installation.

To Assemble Mitchellock—See that prong on lock cylinder enters slot in face of adapter on forward end of rotor and switch base assembly, and that ridge in lock case beginning and that ridge in lock case beginning to lock in lock case registers with slot on side of switch base, push assembly into lock

Case, replace cover, stake securely.

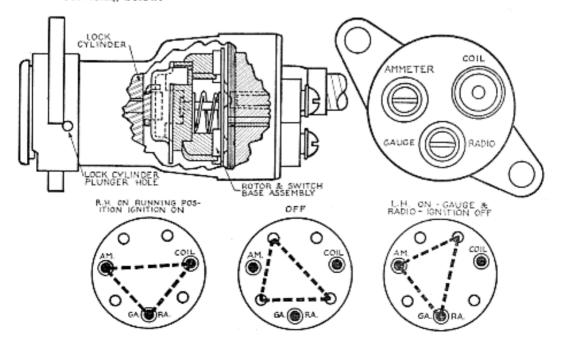
Lock Cylinder:—To remove ignition lock, turn key to extreme right hand position (B & S locks only), insert 1/16" diameter pin in hole in side of lock case directly health dead decrease lock cylinder cyring retainer, pull lock cylinder out. behind head, depress lock cylinder spring retainer, pull lock cylinder out.

TROUBLE SHOOTING:—Test circuits through switch with lamp and test points.

See description of the control of

See description above for terminals which should be 'live' with switch key in

each position. If switch circuits are completed correctly and ignition still unsatisfactory, remove ignition coil base (cable connection) by taking out three screws. This will expose coil terminal in base. Check circuit through switch and coil lead to this terminal. If circuit tests OK, disconnect coil, test coil and replace if necessary. If tests indicate switch defective, disassemble as directed in Servicing below.



MITCHELLOCK APPLICATION LIST

TYPES USED AS ORIGINAL EQUIPMENT ON ALL CAR MODELS.

. 12 - 11 - 12 - 11			
Extra contraction of the contrac		Lock	Switch and Lock
Car Model and Year	Туре	Assembly	Cable Cylinder
Chrysler, C6, CZ Coupe ('35)	24-B	6674	6675
Chrysler, C6, CZ (Radio)	24-R	0490	
Chrysler, C6, CZ Sedan ('35)	24-B	6676	6677 —
Chrysler C6 CZ (Radio)	24-R	6499	
Chrysler C1 C3 Evp. (1935)	24-14	0497	
Chrysler C7 C8 (1936)	24-B		
Chrysler C7 C2 (Convertible)	24-B	6748	
Chrysler, C9, C10, C11 (1936)	24-B	6744	6745628
Chrysler, Royal C16, Imp. C14 ('37)	24-B	7055	70567078
Chrysler Cust. Imp. C15 (1937)	24-B	7057	70587078
Chrysler, Airflow C17 (1937)	24-B	6744	628
Continental, 40 ('33), 41 ('34)	16-S	5174	6678 —
Continental, Flyer 60 (1933)	16-S	5174	6678 —
Cord, 810 (1936)	16-S	6679	6680662
Cord. 812, Schgd, 812 (1937)	16-S	6679	6680662
DeSoto, Airstrm, SF (1935)	24-B	6505	6682
DeSoto, Airstrm, (Taxicab)	24-R	6520	6687 —
DeSoto, Airflw. SG (1935)	24-R	6503	6681
DeSoto, Airstrm, S1 (1936)	24-B	6518	6686628
DeSoto, Airstrm. (Conv.)	24-B	6746	6747628
DeSoto, Airflw. S2 (1936)	24-B	6688	6689628
DeSoto, S3 (1937)	24-B	7055	7056707
Dodge, DU, DV Coupe ('35)			
Dodge, DU, DV Sedan ('35)	24-R	6507	
Dodge, D2 (1936)	24-R	6508	6697
Dodge, D5 (1937)			
Franklin, Olympic 18 ('33-'34)			
Hudson, E Six (1933)			
Hudson, GH Six (1935)			
Hudson, HT, HU, HHU (1935)	24-B	6509	6685
Hudson, 63 Six (1936)			
Hudson, 64, 65, 66, 67 (1936)	24-B	6696	6698
Hudson, 73 Six (1937)			
Hudson, 74, 75, 76, 77 (1937)	24-B	7063	7064609
Hupmobile, 321-K, ('33), 421, A ('34)	16-B	6699	5176,
Hupmobile, 417W ('34), 517W ('35)	16-B	6701	5722
Hupmobile, 421J ('34), 521J ('35)	16-B	6700	5721
Hupmobile, 427T ('34), 527T ('35)			
Hupmobile, 518D ('35), 618G ('36)			
Hupmoone, 516D (35), 618G (36)	24-B	0104	0703

Car Model and Year	Туре	Lock Assembly	Switch and Cable	Lock Cylinder
Hupmobile, 521O ('35), 621N ('36)	24-B	6704	6705	
LaFayette, 3610 (1935-36)	24-B	6708	6700	
Nash, 1120, 1130 (1933)	16-8	5173	6708	6760
Nash, 3540 (1935)	24-B	6510	6707	
Nash, 3640 ('35), 3640A ('36)	24 B	6700	0707	
Packard, 905, 906 (1932)	16_8	5145	6709	6760
Packard, 1001, 2, 3, 4 (1933)	16-5	5002	5100	
Packard, 1001, 2, 3, 4 (1933)	16-8	5145	5102	
Packard, 1107, 8 (1934)	16-9	5999	6710	
Packard, 11085 (1934)	16 5		0741	
Packard, 1207 (1935)	16-8	5202	0742	
Packard, 1207 (1935)				
Packard, 1208 (1935)				
Packard, 120 LHD. (1935)				
Packard, 120 RHD. (1935)				
Packard, 120 RHD. (1935)				
Packard, 120 RHD. (1935)	24-B	0) 1160	2)0714 3) 6719	0700
Packard, 120B RHD. (1936)	24-D	0514 (0	7)0(13	6760
Packard, 120B RHD. (1936)	24-B	0014 (0	2)0714,	
Packard, 115C Six (1937)	24-B	FORE	trace	0700
Packard, 120C (1937)	24-B	7000	7000	0100
Plymouth, PJ, PJ DeLuxe ('35)	24-K	6515		
Plymouth, PJ 7 Pass. Sedan ('35)	24-K		0710	0000
Plymouth, P1, P2 (1936)	24-R			0200
Plymouth, P3, P4 (1937)	24-R	7061	7062	0200
Reo, 1N Models (1933)	16-S	6721		
Reo, 2N Models ('33-'34)	16-S	6719	5171	
Reo, S2, 3, 4, 5, 7 ('33-4-5)	16-S	6718	5170	
Rolls Royce, 1934-35	17-S	5796 (2	A) —	6006
Studebaker, Dict. 5A, 6A (1937)	24-R	7071	7072	C200
Studebaker Pres 3C (1937)	24-R	7073		
Torrenlano G GII (1935)	24.13	6509		
The war and a land (1000)	24B	6696	0090	The second section is a second
manualana 70 71 70 (1027)	94.12	57110534	7.00%	
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337311 27 (1027)	17-A	5132514	\$ 1	
777(11) no 12 miode + CCD (1029)	166-26	2114414	J. C. and Street Printers and Street	and the second second second second
********* ******* CCD (1020)	10.5	6724 11	Self-control (Control Control	
117:11 Oscaplosed COOA 000A (199)	116 52	0.724 11	Self annual Contraction of the C	
Willys Overland, 690A (Closed)	16-S	5172 (I	D)6726	

(A)-No armored cable used (coil lead not protected). (B)-Cable Length 451/2".

(C)—Cable Length 37%". (D)—Cable Length 4-1/16". (E)—Cable Length 6%".

NOTE—Mitchellocks are designed to be connected to the ignition coil by armored cable (except 'A' types without cable). See preceding section for complete data on Electrolocks also manufactured by Mitchell Specialty Company which are connected to distributor by armored cable.