

M8200 WINCH / HOIST PARTS & PRICE LIST

IMPORTANT: WHEN ORDERING PARTS, BE SURE TO GIVE: WINCH MODEL AND SERIAL NUMBER AND BATTERY VOLTAGE, MAKE, YEAR AND TYPE OF VEHICLE.

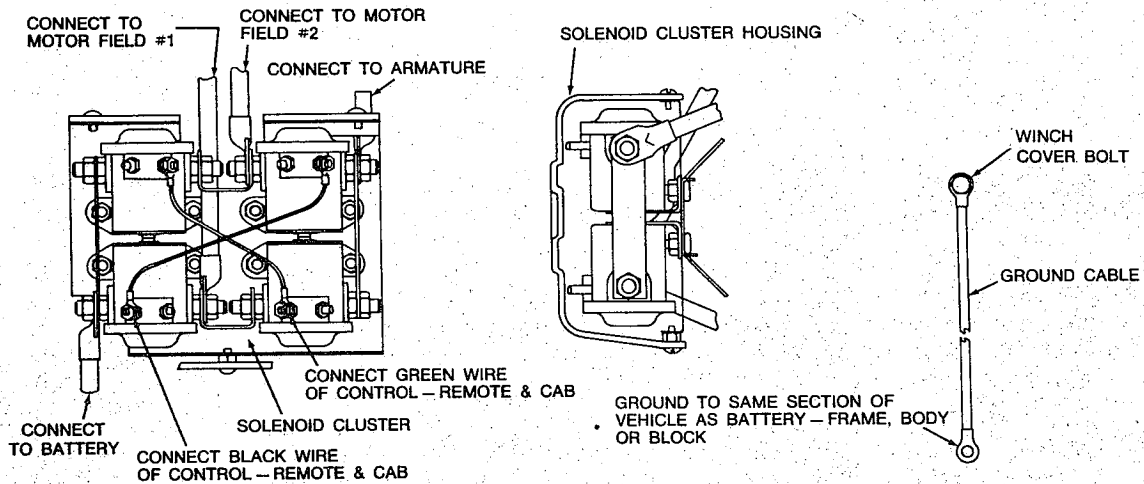
PART NO.	DESCRIPTION	QUAN-TITY	LIST PRICE EACH	PART NO.	DESCRIPTION	QUAN-TITY	LIST PRICE EACH
1041	Plug, Pipe	1	.25	4979	Pin, Anchor	1	1.05
1141	Capscrew, Hx. Head	1	.11	4983	Hook	1	3.00
1159	Ring, Retaining	4	.36	5368	Ring, Retaining	8	.18
1321	Lockwasher	2	.05	5519	Key	2	.36
1322	Nut, Hx. Head	8	.06	5554	Screw, Rd. Hd. Self Tapping	2	.08
1325	Capscrew, Hx. Head	2	.15	5638	Brake Shoe, Inner	1	13.95
1402	Lockwasher	1	.05	5639	Brake Shoe, Outer	1	13.95
1448	Capscrew, Socket Head	1	.25	5641	Spacer	2	.84
1575	Bearing, Needle	1	1.35	5643	Plate, Pawl Mounting	1	6.00
1830	Pin, Dowel	2	.11	5645	Shaft, Brake	1	21.00
1832	Screw, Set	1	.18	5655	Spring, Pawl	2	.75
1833	Spring, Compression	1	.18	5665	O-Ring	1	.69
1834	Ball, Steel	1	.09	5666	O-Ring	1	1.20
1965	Bushing	3	.60	5667	Ring, Retaining	1	.45
1966	Case, Gear	1	32.85	5676	Spacer, Brake Shoe	1	1.05
1968	Gasket	1	.84	5691	Washer	2	.05
1969	Capscrew, Hx. Head	15	.11	5705	Link, Pawl	1	1.05
1970	Bearing	1	5.53	5706	Pawl, Top 6254	1	7.50
1971	Capscrew, Hx. Head	2	.11	5707	Pawl, Bottom 6260	1	7.50
1972	Plug, Pipe	1	.53	5711	Gear, Intermediate	1	44.40
1973	Bearing, Shifter	2	5.36	5717	Clutch Lever, Assy.	1	7.50
1974	Bearing, Needle	1	1.68	5741	Bracket, Fairlead	1	30.00
1976	Shaft, Idler	1	1.19	5742	Fairlead Assy.—Complete	1	50.00
1978	Gear, Main Drive	1	25.27	5744	Shaft, Roller—Vert.	2	2.21
1980	Gear, Pinion	1	6.02	5745	Shaft, Roller—Horiz.	2	2.21
1981	Bushing, Pinion	1	.44	5746	Motor, 12 VDC—Reversing	1	66.65
1986	Key	1	.63	5747	Cover, Gear Case	1	15.75
1987	Shifter Fork Assy.	1	2.45	5749	Gear, Clutch	1	17.01
1991	Pin, Shift Lever	1	.18	5750	Gear, Motor Pinion	1	5.28
1992	Pin, Shifter Fork	1	.11	5751	Adapter	1	3.66
2005	Anchor Pin Assy.	1	.72	5766	Connector, Female Lead Assy.	1	6.15
2007	Bracket, Anchor	1	.28	5768	Bracket, Dash	1	3.60
2008	Capscrew, Hx. Head	1	.18	5770	Connector, Male Plug	1	4.85
2009	Shaft, Main Drum	1	11.38	5774	Conductor—10'-0"	1	2.65
2010	Key	1	.68	5782	Plug, Button	1	.45
2011	Washer, Thrust	2	.11	5790	Pushnut, Pawl Link Retainer	2	.05
2012	Drum Assy., Cable	1	22.75	5830	Handle, Switch	1	2.79
2017	Screw, Set	1	.25	5832	Capscrew, Hx. Head	2	.36
2018	Bracket, Drum Support	1	19.25	5839	Pin, Spring	2	.18
2019	Fitting, Grease	1	.63	5862	Key, Woodruff	1	.20
2026	Cable, Clutch Control	1	5.53	5919	Brake Ratchet Assy.	1	9.45
2038	Motor Bolt Assy.	2	.45	5920	Bearing Ratchet	1	7.25
2040	Switch, Solenoid	4	4.53	5944	Switch, Remote Control	1	4.83
2042	Cable, Battery 48"	1	6.72	5976	Remote Control—Switch, Wire & Plug	1	16.25
2045	200 Ft. 1/4" Galv. Wire Rope w/Hook	1	42.12	5992	Housing, Solenoid Cluster	1	4.86
2049	Roller, Horiz.	2	3.15	5996	Conductor Assy.	1	4.20
2050	Bushing, Fairlead	8	1.05	5997	Dash Control Sw. Assy.	1	12.00
2051	Roller, Vert.	2	3.15	5998	Wire, Solenoid Connector	1	.45
2089	Cable, Ground	1	3.92	5999	Wire, Solenoid Connector	1	.45
2090	Protector, Rubber	3	1.09	6000	Solenoid Cluster	1	30.80
2098	Nut, Hx. Head	8	.07	6002	Bar, Solenoid	2	1.05
2099	Nut, Hx. Head	7	.07	6003	Channel, Solenoid Mounting	1	1.35
2107	Plug, Soft	1	.18	6004	Plate, Solenoid Mounting	1	3.45
2215	Capscrew, Hx. Head	1	.18	6005	Clamp, Hose	2	.75
2558	Switch, Dash	1	5.33	6006	Connector, Solenoid	2	.90
2560	Snatch Block	1	17.50	6007	Cable, Battery 5 1/2"	1	1.20
2593	Nut, Hx. Head	2	.07	6008	Cable, Battery 6 1/2"	1	1.20
2601	150' 5/16" Galv. Wire Rope w/Hook	1	42.12	6009	Cable, Battery 7 1/2"	1	1.20
3138	Spacer	1	.42	6011	Screw, Round Hd. Machine	3	.10
3637	Disc	1	.15	6018	Capscrew, Sq. Head	8	.15
3874	Lockwasher	4	.10	N.P.N.	15 Ft. Tow Cable—Hook Each End	1	6.95
4175	Choker Chain (not shown)	1	21.06				

INSTALLATION INSTRUCTIONS

CONTROL CONNECTIONS FOR YOUR WINCH – AFTER MOUNTING WINCH ON BUMPER OR CUSTOM MOUNTING

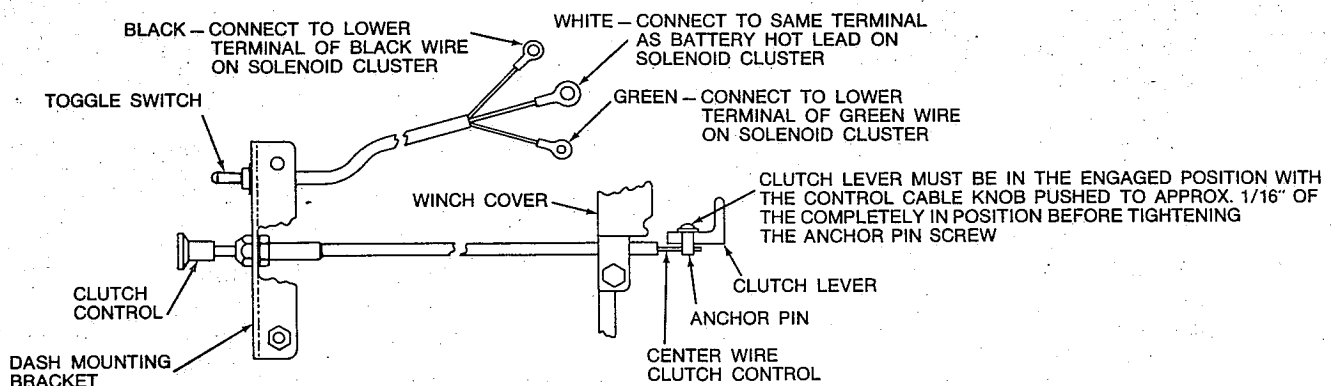
1. Remove two screws from top of solenoid cluster housing. Tilt housing forward and downward to remove.
2. The left terminal (closest to the gearcase) of the lower left solenoid switch is the power input point. Connect one battery cable to this terminal. Cable will lead through notch in solenoid mounting plate, under motor close to gearcase, and on to battery hot terminal. (On all vehicles since 1963, and many before then, the hot terminal is the positive one.)
3. Install the other battery cable from any convenient winch bolt to the same part of the vehicle to which the battery is grounded. This is necessary to provide a good electric current path and allow the winch to deliver full power.

The actual switching of the winch motor is done by the solenoid switches. Two types of controls are available, remote and cab. Either one or both may be used. Installation instructions for both are given.



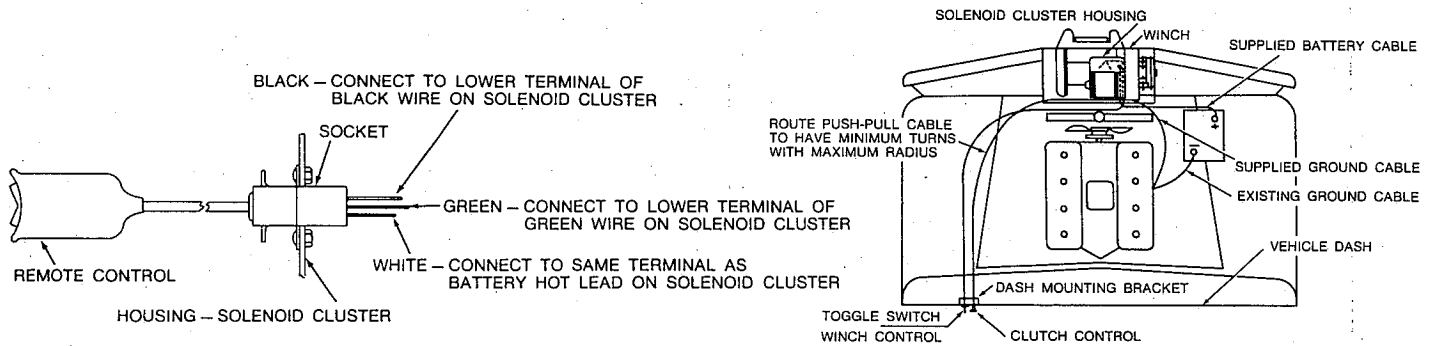
INSTRUCTION FOR CAB CONTROL INSTALLATION

1. Install the dash mounting bracket under the dash on the flange at the bottom of the instrument panel. Location should be chosen for convenient leading of the controls through the firewall and forward to the winch, as well as for ease of operation from the driver's seat.
2. Connect the clutch control through the dash bracket. Lead the cable through the firewall and engine compartment in such a manner that it is protected and out of the way so it will have the fewest possible curves and bends. Sharp bends will cause difficult cable operation.
3. Insert the center wire of the clutch control through its anchor pin on the clutch lever. Move the lever full stroke toward the gear case (into detent). Clamp the cable jacket to the back of the gear case as shown. The end of the jacket should be positioned just short (1/16 in.) of touching the lever. Move the lever out full stroke (into opposite detent). Adjust the control knob at the dash bracket to about 1/16 in. less than all the way in. Tighten the anchor screw at the lever solidly against the wire. Clip off excess wire.
4. Install the toggle switch assembly into the dash bracket as shown. The keyway in the switch threads must be down. Connect the green wire on the same side as the keyway, black on the opposite side terminal and white on the center connection. Lead the wire through the firewall, engine compartment, and grill. Protect it from damage from sharp edges, etc. It should lead under the winch motor next to the gear case and enter the lower corner of the solenoid housing at that point. Connect the black and green wires to the same terminals as the lower ends of the solenoid connecting wires – black to black and green to green. Connect the white wire to the same terminal as the battery cable from the battery.
5. Check for proper operation, both forward and reverse.



INSTRUCTIONS FOR REMOTE CONTROL SOCKET INSTALLATION

1. Cut out 1" dia. hole where embossed in center of housing face or remove plug as provided in some models. Drill two 13/64" dia. holes on centers provided or use socket for template.
2. Insert socket, wires first, into 1" dia. hole from front and attach with hardware provided.
3. Connect wires to solenoid cluster — green to green — black to black — at the lower ends of the black and green wires. Connect white wire to cable coming from battery.
4. Check for proper operation, both forward and reverse, with remote control plugged into socket.



OPERATING INSTRUCTIONS

CLUTCH OPERATION (in cab)

Pull clutch control panel T-Handle to disengage or push T-Handle to engage clutch. With clutch in "disengage" position the winch drum is disengaged from the winch gear box and the wire rope may be pulled from the drum by hand (free spool). With clutch in the "engaged" position the winch drum is geared to the winch and power is required to rotate the drum either in or out. Caution—Never attempt to disengage clutch with tension on the cable.

SWITCH CONTROL (in cab)

The toggle switch actuates the winch motor. There are three positions for the switch, the middle position being "off," and the other two positions are "power in" and "power out" indicated on dash control. The switch must be held in the power positions as the switch is spring-loaded and will automatically return to the "off" location.

BRAKE CONTROL

Your Warn Winch is equipped with an automatic brake which makes the winch suitable for hoisting operations. The automatic brake is in operation *only when the clutch control is in the "engaged" position*. The heavier the load the more braking action occurs. Safety First — Observe hoisting load capacities shown on winch — keep out from under loads.

CLUTCH OPERATION (winch side)

Push clutch shift lever to "disengage" or pull shift lever to engage the clutch.

SWITCH CONTROL (remote control)

The remote control operates similarly to the in-cab toggle switch. The switch must be held in the operating direction desired and will automatically return to the neutral or off position when released.

WINCH OPERATION

The clutch must be released to free spool the cable from the winch drum. To retrieve cable with attached load engage clutch and push toggle switch to "In" or if using remote control press switch to "In." With the clutch engaged your winch will automatically hold an attached load in position. To lower, actuate either the in-cab toggle switch or the remote control switch to *out*, the automatic braking action will allow safe lowering. The action of the pawls puts shock loads on the cable much greater than the actual suspended load weight. Keep cable in good condition and evenly wound on the drum, especially when unit is used for hoisting operations.

LUBRICATION

Lubricate the main shaft grease fitting each time the vehicle is lubed or monthly for hoisting operation. Check the gear case oil level every 6 months. Use a good grade of #30 weight non detergent oil.

