



FISHER

Reference Manual

Rev. 04

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Safety Definitions

WARNING

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious personal injury.

CAUTION

Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTE: Indicates a situation or action that can lead to damage to your snowplow and vehicle or other property. Other useful information can also be described.

NOTE: This manual is for reference only and was created to serve as an addition to the FISHER® Service Training Manual. It contains information on noncurrent products that are often the subject of technical questions and problems. This material is not complete, may not be accurate, and should not be used in place of the Kit Selection Guide/eMatch or other regularly updated documents. Additional product information is available on the Internet at www.fisherplows.com and www.homesteaderplows.com or from the Fisher Engineering Technical Service Department.

REFERENCE MATERIALS

Web Site Technical Resources

Located under the "Tech Support" section of our Web site (www.fisherplows.com) are some technical resources that you should know about. These resources often go unused and can be a practical aid to help in snowplow and spreader diagnosis and repair. The reference documents on the Web site can be printed and bound as a manual for quick reference by Parts & Accessories employees or simply viewed online when needed.

There are 2 main headings under the "Guides" section on the Web site:

1. **Mechanic's**

- Mechanic's Guides (all complete currently offered guides)

2. **Schematics**

- Schematics for the Minute Mount® System with original headlamps

Located under the "Reference Materials" heading in the "For Our Distributors" section are the following documents:

1. **Service Training Manual**

- This workbook, updated each summer, is used at our Factory Authorized Service Training (FAST) schools.
- Each year, every FAST school attendee receives a hard copy of this manual. Distributors without attendees are mailed copies.

2. **Reference Manual**

- This manual contains hard-to-find Conventional and Minute Mount System snowplow, as well as spreader, information from many sources, including some of those listed above.
- The reference manual is a great resource to help you and your customers identify parts.

LITERATURE

Minute Mount® & Minute Mount® 2 System Mount Kit Literature					
Chevy/GMC			Dodge		
Kit #	PL	II	Kit #	PL	II
7125	6452	29042	7124	6449	
7129	6454	29214	7130	6435	
7138	6459	29043	7137	6463	
7139	6465		7141	6480	
7142	6478		7149	21588	
7144	20547	29044	7153	21410	
7146	20809		7155	21849	29142
7146-1	26201	26200	7157	21930	64065
7148	20607		7165	26689	26165
7154	21705		7167	63804	63803
7154-1	26207	26206	7170-1	64062	64061
7160	25998	68162	7170-2	29126	29127
7161	26077	64019	7178	27271	27272
7168	68161	64025	7180	29185	29186
7169	64014	64015	7186	29824	29823
7171	64203	64204	7189	40962	40963
7175	26678	26677	Mitsubishi		
7177	26870	26871	Kit #	PL	II
7182	29354	29353	7162	22507	
Ford			7162-1	26861	29045
Kit #	PL	II	7179	27657	27656
7126	6430		International		
7128	6457		Kit #	PL	II
7131	6476		7140	6467	
7132	6485	42001	7151	21352	
7136	6496		7151-1	27055	
7150	21320	29031	7151-2	26203	26202
7152	21633		Jeep		
7152-1	26205	26204	Kit #	PL	II
7159-2	22303	63890	7163	26376	
7164	26563	29046	7163-1	48430	29215
7172	28505	28504	Nissan		
7173	64554	64555	Kit #	PL	II
7174	64464	64463	7143	20570	
7176	64690	64689	7190	41151	41152
7183	29512	29513	Universal		
7187	69273	69274	Kit #	PL	II
7188	40875	40876	7156	22036	
Toyota			7156-1	26209	26208
Kit #	PL	II			
7147	20578				
7158	21988	27638			
7166	27014	27638			
7185	29566	29567			

LITERATURE

Minute Mount® & Minute Mount® 2 System Mount Kit Literature				
Owner's Manuals		Lit. No.	A-Frames	PL II
MM2 SD, HD, XBLADE™, XLS™, XtremeV™		44224	MC A-Frame/Angle Frame (28665)	26947 with
MM2 LD, RD/HD, X, MC (Isolation Module)		26405	MC A-Frame/Angle Frame (27255-1)	27918 Headgear
MM2 EZ-V® (Insta-Act®, Isolation Module)		26406	MC (20703-1)	20793
MM (Insta-Act, Isolation Module)		26407	MC (8446-1, 27255)	20796 27331
MM EZ-V (Insta-Act, Isolation Module)		26467	HD (22168)	22227 22195
MM SEHP (Relay System)		21462	RD/HD M-Series (27597, 27598)	27639
Minute Mount 2 System Blades		PL		
HT Series™ (69450)		69381	RD (27150)	27082 27476
XLS (50810)		50578	SD, 6'-9" & 7-1/2' (27995-1)	68256 with
XtremeV (44675-1, 44685-1, 44695-1, 44775-1, 44785-1, 44795-1)		44226	LD, 6'-9" & 7-1/2' (27995-1)	26457 Headgear
XBLADE (27510-1, 27512, 28100-1, 28200, 28510-1, 28520, 29100-1, 29200, 29618-1, 29619-1)		44916	LD, 7-1/2' (22175)	22264 22195
MM2 EZ-V (Includes A-frame II) (28885, 28895)		27592	LD, 6'-9" (22169)	22263
Minute Mount 2 System Headgear			PL	II
MM2 MC Series (12/04-___) (29250, 29350)		26945	HT Series (69450)	69381 69382
MM2 MC Series (9/01-12/04) (27250, 27350)		26180	XLS (50600)	50578 50579
MM2 SD Series (27775, 28069)		68257	XtremeV (44600, 446500)	44226 44227
MM2 LD Series (27775, 28069)		26183	EZ-V (28888)	27591 27589
Minute Mount System Blades		PL		
MM EZ-V (includes A-frame II) (21442, 26596)		21808	MC Series (29999)	26156 26157
MM MC (___-9/01)(22350, 21000)		20801	HD/XBLADE Series (27777, 28900)	27370 27446
M Series (27500, 28000, 28500, 29000)		26093	RD/HD/XBLADE Series (27777, 28900)	27475 27476
MM LD Series (22609, 22075)		22231	SD Series (27750-1)	27370 27374
L Series (7657, 7658, 7659, 7761, 28850)		21987	LD Series (27750-1)	26181 26474
Accessories			Minute Mount System Headgear	PL II
XtremeV Blades		PL/II		
Back Drag Edge Kit (44281-1, 44282-2, 44283-2)		29406	EZ-V (8840-1)	21807 26631
Blade Stop Kit (44473)		44815	MC (8445, 8446-1, 27255)	20796 27331
Blade Wing Extension (44610-1)		44618	HD (22250 w/M Blades)	22229 26094
4-Piece Cutting Edge Kit (29675)		29665	HD (22250 w/L Blades)	22228 22195
SnoFoil® Accessories		PL/II	RD/HD (22240 w/M Blades)	26094
HT Series (69660)		69687		
RD/HD M Series (27100)		26449	RD/HD (22240 w/L Blades)	22228 22195
7-1/2'-10' RD/HD, LD & MC Series Blades		29644	HS/LD (22230)	22248 22195
7-1/2'-10' RD/HD, LD & MC Series Blades		29644	LD (22135)	22249
Shoe Kits		PL/II	Rubber Deflectors	
XLS Shoe Kit (50700)		50699	HT Series (69605)	69686
XtremeV Curb/Wear (44850-1, 44851-1)		44852	XLS (50628)	50690
XBLADE Curb/Wear (27222)		26683	XtremeV (44710)	29401
Curb Guard Kits (44405, 44406)		44416	EZ-V – 8-1/2' (21619)	21894
LD, SD Series (26145)		26147	EZ-V – 9-1/2' (26572)	26573
HS Series (20505)		20506	XBLADE (8' & 9' only) (27600)	27605
Other		PL/II	XBLADE (all blades) (27600-1)	26647
Blade Stop Kit (26634)		26650		
Control Dual-Lock Fastener Mounting Kit		20275	MC Series (22390)	22395
Removable Spring Tool (20043)		6486	7-1/2' – 9' LD/RD/HD (All Series)	26031
ProTube™ Guard (26239, 26240)		26244	Lights	
Ballast Retainer Kit (62849)		28338	Mini Strobe (26018-1 and 26018)	26214
MM2 Emergency Parts Kit (27930)		26374	Full Size Strobe (26019)	26415
Skid Plate Kit (20555)		20550	Mini Bar (26020)	26416
License Plate Bracket (22366)		22358	Full Size Bar (26021)	26417
			Other	
			Headlamp Extension Bracket Kit (28330)	28334
			Headlamp Extension Bracket Kit (29596)	29597

LITERATURE

POLY-CASTER™, PRO-CASTER™ and SPREADER KIT LITERATURE									
Description	Serial #	OM	II	Body Comp PL	Chutes PL	Drive Comp PL	Durst Gear Case PL	Parts Kit PL	Cab Control & Elec Comp II/PL
POLY-CASTER Poly Hopper II Spreaders	0901–Higher	94197	94194	94191			N/A	N/A	94189
POLY-CASTER Poly Hopper Spreaders	0001–0608	95749	95742	95844			N/A	N/A	96378
	0609–0711			95921					
	0712 – Higher			96111					
PRO-CASTER Hopper Spreaders	0126–0302	94865	94867	94873	94869 (Offset)	94871	N/A	94875	94647
	0303–0401				95243 (Hydr)				
		0402–0608	95491 (Center)		95905				
	0609–0805	95243 (Hydr)							
	0806 – Higher	96208	96210	96202		96206			
Old-Style Hopper Spreaders	2600–3849	80324	80309	See OM for PL; see II for Maintenance			See below*		
	3850–4763	80357	80359				See below*		
	4764–4808						See below*		
	4809–4996	68880	68938	94639	94641 (RC) 94643 (HC)	94637	68956	94651	68964 (Std Cab Control) 94647 (11-pin Cab Control)
	4997–5644								
	5645–7663	94633	94635					94649 (Gas) 94651 (Hyd)	

* Drive Comp	PL	II
Briggs RC	68916	See Hopper II
Briggs HD	68917	
Tecumseh	68959	94493

		PRO-CASTER		
Accessories	POLY-CASTER	0806 – Higher	0126 – 0805	Old Style
Top Screen Fastener Repair Kit	96047			
Vehicle Battery Kit II/PL		96212	94879	94644
Baffle Replacement Kit PL		N/A		68819
Inverted Vee RC MS PL	95969	96202	94873	68970
Inverted Vee RC SS PL				68971
Inverted Vee HC MS & SS PL				68972
Ratchet Tie-Down Strap Kit PL		68791		
Hold-Down Kit PL		68599		
CHMSL Kit PL		96202	94873	6456
Belt Drive Idler Kit II/PL		95707		
Work Light Kit II/PL		95715		

LITERATURE

SPEED-CASTER™ & SPEED-CASTER™ 2 Spreaders							
MOUNT							
Vehicle Make	Kit #	Under-Frame		In-Bed		Support Frame	
		II	PL	II	PL	II	PL
Dodge	27936	27949	27950	13666	68689	27949	68727
	63827	63845	63844	13666	68689	63845	68727
	67040-2	13761	68726	13666	68689	13761	68727
Ford	65780	13762	68721	13666	68689	13762	68727
	67450	67460	68746	13666	68689	67460	68727
	67500	67498	67491	13666	68689	67498	68727
	64720	64722	64723	13666	68689	64722	68727
GM	65890	13760	68719	13666	68689	13760	68727
	67470	67477	68720	13666	68689	67477	68727
	67510	67523	67524	13666	68689	67523	68727
	67925	67523	95695	13666	68689	67523	68727
HOPPER							
Spreader	Serial #'s	OM	Hopper PL	Drive PL	Electrical		
					II	PL	
SPEED-CASTER	115297 – Higher	9511	68723	68725	13763	68723	
SPEED-CASTER 2	202389–202649	13722	68757	68758	13763	68757	
	202650 – Higher	94418	94416	94415	13763	94416	
Low-Profile Spreaders							
MOUNT							
Model #	Serial #	Receiver Mount		Fixed Mount		SWING AWAY® Mount	
		II	PL	II	PL	II	PL
110, 1000, 2000	N/A	94380	94381	94433	68518	94432	68519
HOPPER							
Model #	Serial #	OM	Hopper PL	Drive PL	Electrical II	Electrical PL	
Model 110	7192 – Higher	68661	68663	68664	13763	68666	
Model 500	03010130000195331	95363	95365		13763	95365	
Model 1000	10001–10002	68661	68673	68674	13763	68666	
	10003 – Higher	94431	68673	68674	13763	94429	
Model 2000	20237–20363	68661	68673	68674	13763	68666	
	20364 – Higher	94431	68673	68674	13763	94429	
Model 2500	0806 – Higher	96073	96076	96076	13763		
MISCELLANEOUS							
Literature # (Type)	Description		Literature #	Description			
63689 (II)	CHMSL Relay Kit SPEED-CASTER		95474 (II)	Low Profile Spinner Ring			
63694 (II)	Spreader Harness Repair Kit SPEED-CASTER		95607 (II/PL)	Low Profile Model 500 Screen Kit			
68689 (II)	CHMSL Relay Kit (Low Profile)		95640 (II/PL)	Model 500/1000 Point of Purchase Display Stand			
63694 (II)	Spreader Harness Repair Kit (LP)		P2178 (II)	Truck Protector			
68587 (II)	Back Stop Kit		94837 (OM)	Under Tailgate Spreader (UTS)			
68589 (II)	Top Screen Kit		94839 (II)	Under Tailgate Spreader (UTS)			
68680 (PL)	Deflector Kit		94841 (PL)	Under Tailgate Spreader Trough			
95582 (II)	Deflector Kit – Model 500		94843 (PL)	Under Tailgate Spreader Spinner			
94518 (II)	Speed Control w/Adapter		94844 (PL)	Under Tailgate Spreader Mount			

LITERATURE

Homesteader™ Personal Plow Literature					
Description	PL	II	OI	OM	Warranty
Off-Truck Components/Plow Gear (27550)	27551	27554			
6'-8" Blade	27563				
7'-4" Blade	27563				
Shoe Kit	27794				
Hydraulics/DA Ram Assy & Scrape Lock Adj	27565	28033			
Fish-Stik® Hand-Held Control	13715	27812	27814		
Solenoid Joystick	6368	27815	27817		
Headlamp Aiming		27769			
Headlamps	27767				
Isolation Module (4-Port)	28562	28561			
Isolation Module (3-Port)	29207	29206			
Splash Shield Replacement Kit (24 x 18)	28268				
Splash Shield Replacement Kit (32 x 24)	64685				
Owner's Manual				27567	
Warranty (1 Year – Personal Plow)					27569
Warranty (2 Years)					6416 / 6417
MOUNT KITS					
Dodge 33903	27587	27586			
Dodge 33913	29347	29346			
Dodge 33923	40943	40942			
Ford 1203	27647	27646			
Ford 1213	28009	28008			
Ford 1213-1	27057	27056			
Ford 1223	27424	27423			
Ford 1233	28477	28476			
Ford 31243	29393	29392			
Ford 31253	40925	40926			
GM 1503	27652	27651			
GM 1523	28026	28025			
GM 1533	64415	64414			
GM 1533-1	27262	27263			
GM 31543	28363	28362			
GM 31543-1	48363	48362			
GM 31553	29413	29412			
Jeep 3713	28048	28047			
Jeep 3713-1	28431	28429			
Jeep 3713-2	48431	48429			
Jeep 3723	64609	64608			
Jeep 42113	29722	29721			
Jeep 42021	29231	29230			
Jeep 42113	29722	29721			
Nissan 31303	64646	64645			
Nissan 31313	29317	29316			
Toyota 2303	28058	28057			
Toyota 2313	28265	28264			
Toyota 32323	28864	28865			
Toyota 32333	29580	29581			

LITERATURE

IM Elec. System	PL	II	Controls	PL	II	OI	
28800, 28801, 28802 (New H13 Headlamps)	28810		8292 Joystick	6368	27815	27817	
28806 H13 Bulb Handling	–	28814	9400 Fish-Stik®	13715	27812	27814	
29033 H13 Adapter Kit	–	29034	9700 EZ-V® Hand-Held (6 Button)	96446	–		
3-Port Module – All Parts	29207	29206 & 29225	9800, 29600, 29800 EZ-V, XLS™ & XtremeV™ Hand-Held (9 Button)		96444	96445	
4-Port Module – All but 26640	28562	28561 & 44780	9900, 29700, 49900 EZ-V, XLS & XtremeV Joystick		96357	96355	
26640 (Ford, International, MC)		26645	Repair Instructions for Controls with PC Board	–	–	96455	
26500-1 (Central Hydraulics)	26499		49700 HT Series™ Joystick	48506	48503	48504	
26705-1 On-Truck Wiring Kit	29266	–	49800 HT Series Hand-Held		48505	48506	
8435 (Old-Style Headlamps)	27767	26411	3-Port IM Adapters			II	OI
Hydraulics	PL	II	26641-1 HB-5 to 1A/2A			29209	–
9825-1	26199	**	27968-1 (2B to 2E)			29226	–
9840-2		**	28027-2 (In-Line)			29547	–
9835-1		27816	28860-1 HB-5 to HB-2 (Mitsubishi FG)			29210	–
9825-1, 9835, 9840-2	21993	21842	29056-1 (Lights to Relay)			29515	–
9825-2	28442	–	29234 & 29235 (Ford)			29236	–
9828-4	26527	**	29399, 29400 & 29400-1 2-pin (HB-3) to H11			29456	–
9828-3	26151		29033 H13			29034	–
9828-2	26468	26469	Tools				OI
22147-1, 22150-1	–	27190	26470-2 Isolation Module Tester				26473
26497 (IA w/Relay System)	–	26496	29290-1 Diagnostic Harness Kit				29289
8225, 8240, 8425 (MM Only)	20751						
8428 (MM Only)	21812	20996					
Flushing Procedure	–	26404					

Description	Literature Number	Part Number
Back-up/O-Ring Kit (Relief, quill, PO Check Valve – EZ-V Blade)	66851	66781
EZ-V Hydraulic Parts	26527	9828-X
Inlet Filter/Filter Kit (Insta-Act®)	66762	66763
O-Ring/Back-up Ring Kit	28521	7632K-2
Valve Manifold Assy. Instructions	66782	None
Control (Plow) – Parts	96446	9700, 9800, 9900, 29600, 29700, 29800
Central Hydraulics – E-Force Lighting	26499	26500-1
Dodge Plug-in Harness ('99-'01) Original MM Lighting (2 Light Non-DRL)	26017	26014
4-Port Isolation Module System	28561	Multiple
GM Plug-in Harness ('99-'02) Original MM Lighting (Dedicated DRL)	26116	26070
Plow Light Repair (Original MM)	26363	8328
Tecumseh Engine Kit Installation Instructions	94493	

BLADES & ATTACHMENTS



PECULIAR AND COMMON ATTACHMENT KIT INDEX

◆ Note: See Kit Selection Guide for specific applications. ◆

YEAR	VEHICLE	BLADE SIZE	BLADE TYPE	COMMON ATTACH KIT	PECULIAR ATTACH KIT
CHEVY/GMC					
1984 - 93	S10/S15, Sonoma	6 1/2' - A5090 7' - A5437	"HS"	8230C	7119
1984 - 94	Blazer & Jimmy (S-10 series)				7139B
1994 - 96	S10 w/o ZR2 Wide Stance Package				
1995 - 96	Blazer & Jimmy (S-10 series)				7139B
1994 - 96	S10, Sonoma w/ ZR2 Wide Stance Package				7142
1973 - 87	K10, K15,	7' - 7761	"L"	8550B	7129
1973 - 91	Blazer & Jimmy (Full Size), Suburban 1/2 Ton	7 1/2' - 7657			
1973 - 87	K20, K25,	7 1/2' - 7657 8' - 7658 9' - 7659	"L"	8550B 8250B	7129
	K30, K35				
1973 - 91	Suburban 3/4 Ton				
1988 - 89	V30 V35 w/ Leaf Springs				
1988 - 98	K1500	7' - 7761 7 1/2' - 7657	"L"	8550B	7138B
1995 - 98	Tahoe				
1992 - 94	Blazer (Full Size)				
1992 - 98	Yukon, Suburban 1/2 Ton				
1992 - 95	Suburban w/ 7200 GVW				
1988 - 95	K2500 w/ 7200 GVW				
1988 - 98	K2500 w/ 8600 GVW	7 1/2' - 7657	"L"	8550B 8250B	7125B
1988 - 98	K3500	8' - 7658			
1992 - 98	Suburban w/ 8600 GVW	9' - 7659			
1990 - 98	Chev/GMC C3500 2WD w/ Coil Springs	8' - 7658	"L"	8250B	7148
1991 - 98	Chev/GMC C3500 HD 2WD Straight Axle	9' - 7659			7144
FORD					
1991 - 94	Explorer	6 1/2' - A5090	"HS"	8230C	7120B
1992	Ranger				7123B
1993 - 97	Ranger				
1987 - 91	F150	7' - 7761	"L"	8550B	7131
	Bronco	7 1/2' - 7657			
1987 - 91	F250	7 1/2' - 7657	"L"	8550B 8250B	7132B
	F350	8' - 7658			
		9' - 7659			

FISHER ENGINEERING, ROCKLAND, MAINE 04841

Subject to Change

12/31/97

NOTE: This index is not current and appears as it did in a 1997 Parts & Service Manual. It is to be used for reference and should not take the place of the Kit Selection Guide/eMatch. Kits listed may no longer be available.

BLADES & ATTACHMENTS

MINUTE MOUNT® Peculiar and Common Attachment Kit Index

Page 2

◆ Note: See Kit Selection Guide for specific applications. ◆

YEAR	VEHICLE	BLADE SIZE	BLADE TYPE	COMMON ATTACH KIT	PECULIAR ATTACH KIT
FORD					
1992	Bronco	7' - 7761	"L"	8550B	7126B
1992 - 96	F150	7 1/2' - 7657			7150
1997 - 98	F250 LD				
1992 - 97	F250	7 1/2' - 7657	"L"	8550B 8250B	7128B
	F350 4x4	8' - 7658			
	F Super-Duty	9' - 7659			
1995 - 97	F250 Supercab				
1992 - 97	F350 2WD w/o Sway Bar	9' - 7659	"L"	8250B	7126B
DODGE					
1991 - 96	Dakota	7' - 7761 7 1/2' - 7657	"L"	8550B	7130B
1997 - 19__	Dakota				7155
1972 - 88	W150				7124
1992 - 93	W150				
1974 - 93	Ramcharger				
1972 - 93	W250	7 1/2' - 7657	"L"	8550B 8250B	7124
	W350	8' - 7658			
		9' - 7659			
1994 - 96	W1500	7' - 7761	"L"	8550B	7137
1994 - 96	W2500 w/ 7500 GVW	7 1/2' - 7657			
1994 - 96	W2500 w/ 8800 GVW	7 1/2' - 7657	"L"	8550B 8250B	7157
1994 - 96	W3500	8' - 7658			
1995 - 96	W2500, W3500 Extended Cab	9' - 7659			
1997 - 98	W3500 Cab Chassis	8' - 7658	"L"	8250B	7157
1997 - 98	W2500 w/AHD & 8800 GVW	9' - 7659			
	W3500 w/AHD & 10500 GVW				
FOREIGN/COMPACT					
1986 - 95	Toyota 4x4 4-Runner	6 1/2' - A5090 7' - A5437	"HS"	8230C	7122B
1995 - 98	Toyota Tacoma				7158
1986.5 - 95	Nissan 4x4 Pathfinder				7143B
1991 - 94	Mazda Navajo	6 1/2' - A5090	"HS"	8230C	7120B
1994 - 97	Mazda B-3000, B-4000				7123B
COMMERCIAL SERIES					
1990 - 96	Chevy Kodiak GMC Top Kick	10' - 21000	"MC"	8450	7146
1997 - 19__	Chevy Kodiak GMC Top Kick				7154
1989 - 94	International 4600				7151
1989 - 19__	4700, 4800, 4900				
1985 - 96	Ford F700, F800				7152
	Universal Attachment Kit				7156

FISHER ENGINEERING, ROCKLAND, MAINE 04841

Subject to Change

12/31/97

NOTE: This index is not current and appears as it did in a 1997 Parts & Service Manual. It is to be used for reference and should not take the place of the Kit Selection Guide/eMatch. Kits listed may no longer be available.

BLADES & ATTACHMENTS

MC Series Part Identification

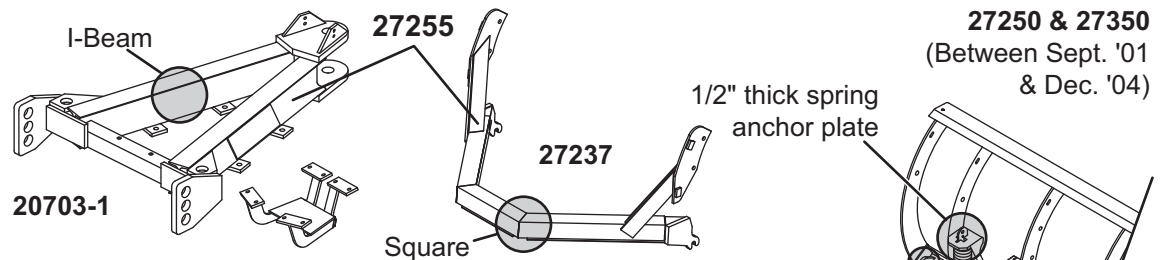
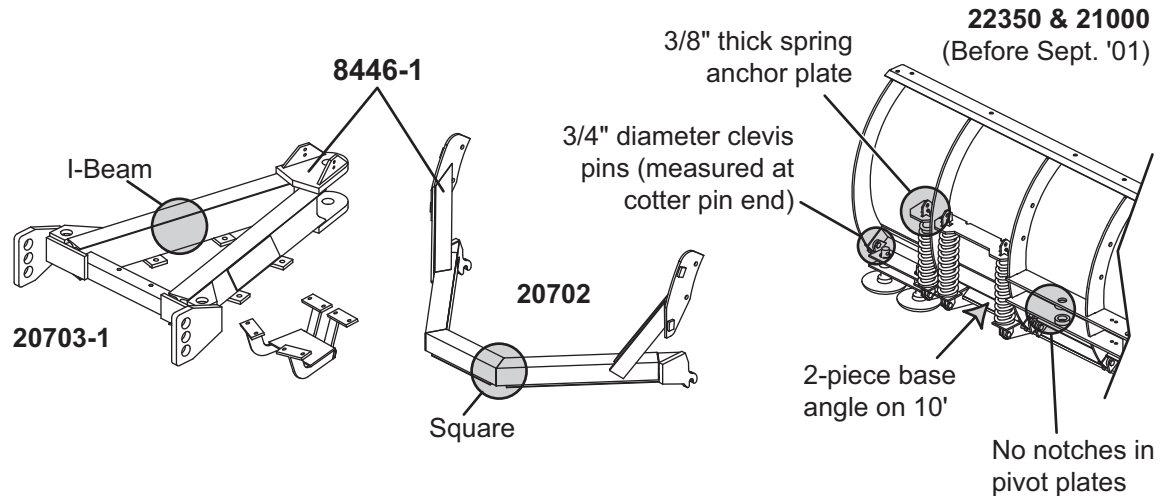
Shown below are the A-frames, angle frames and blades produced for the Minute Mount® and Minute Mount® 2 System MC Series. The components separated by horizontal lines are not compatible with each other.

HEADGEAR

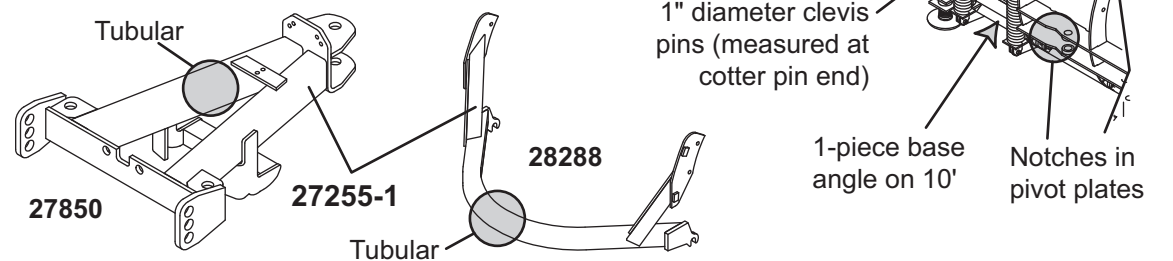
A-FRAME

ANGLE FRAME

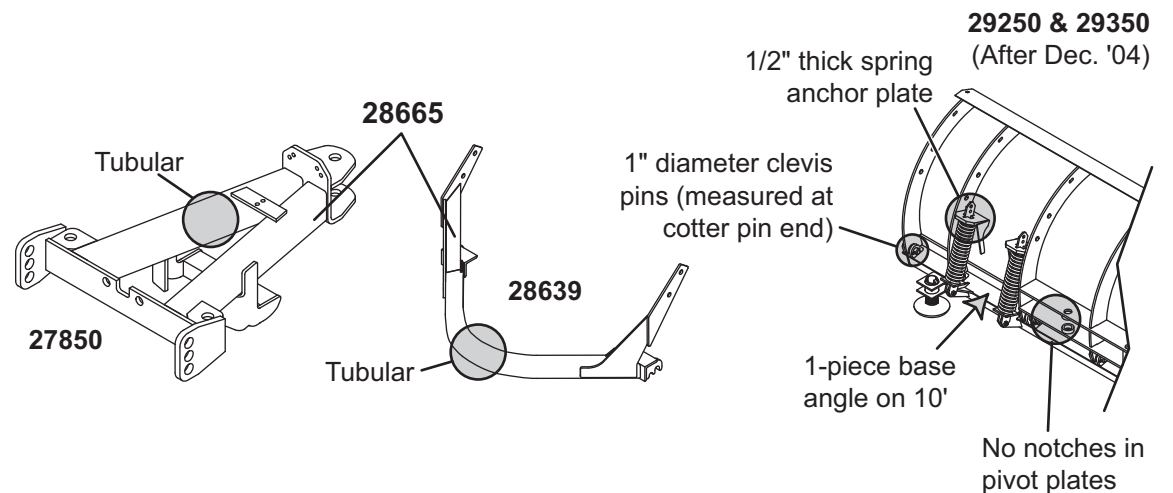
BLADE



OR



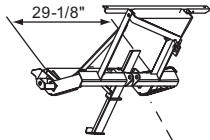
OR



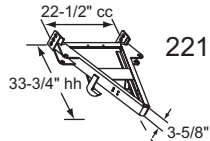
BLADES & ATTACHMENTS

Blade Attachment Charts – Minute Mount® System

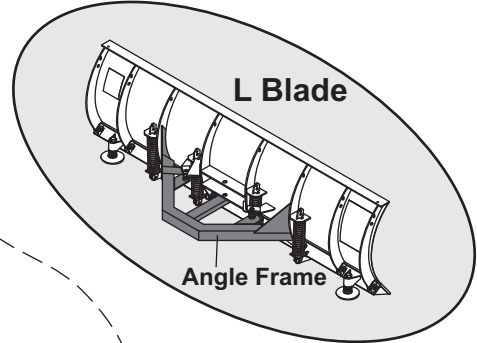
22240 RD/HD Headgear Kit



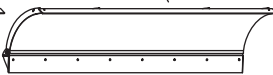
1999-'02 All New GM 3/4 Ton Trucks
2001-'02 All New GM 1 Ton Trucks



22168 A-Frame



8' HD L Blade
7658

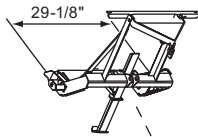


8-1/2' HD L Blade
28850

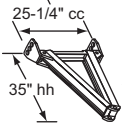


9' HD L Blade
7659

8445 Headgear Assembly

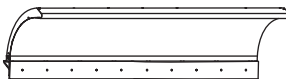


20703-1
A-Frame

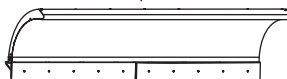


8446
A-Frame Kit

20702
Angle Frame

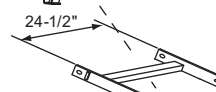
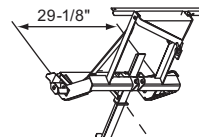


9' MC Blade
22350



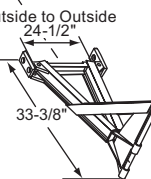
10' MC Blade
21000

8440-1 Common Attachment Kit

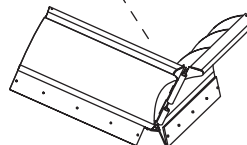
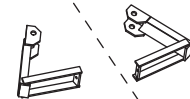


21484-1 Push Assembly
(Part of 8440)

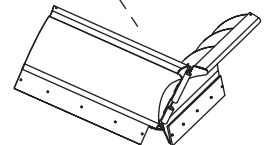
21874-3
A-Frame
(Part of 21442
or 26596)



26634 Blade Stop Kit



8-1/2' EZ-V® Blade
21442



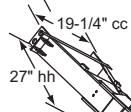
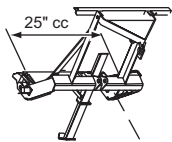
9-1/2' EZ-V Blade
26596

cc = center-to-center measurement
hh = hole-to-hole measurement

BLADES & ATTACHMENTS

Blade Attachment Charts – Minute Mount® System

22230 Headgear Kit



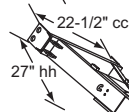
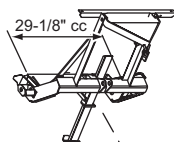
22169
A-Frame

6-9/16"



6'-9" LD Blade
22069

22135 Headgear Kit



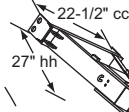
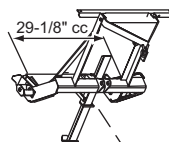
22175
A-Frame

6-9/16"



7-1/2' LD Blade
22075

22135 Headgear Kit



22175
A-Frame

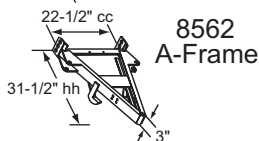
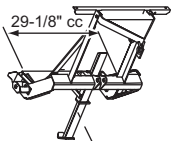
6-9/16"



6'-9" LD Blade
22069

1999-20 Jeep
Wrangler

22240 RD/HD Headgear Kit

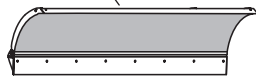


8562
A-Frame

3"

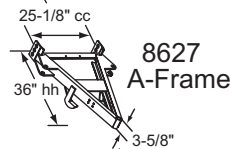
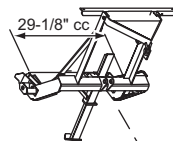


7' RD L Blade
7761



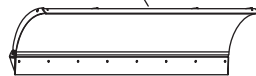
7-1/2' RD L Blade
7657

22250 HD Headgear

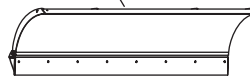


8627
A-Frame

3-5/8"



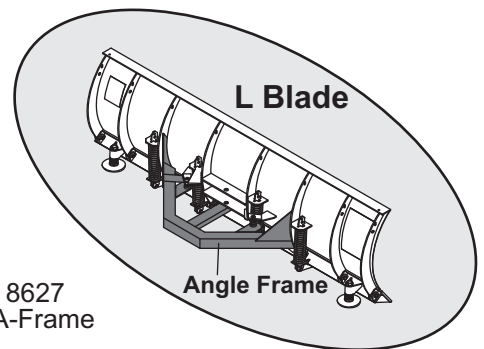
8' HD L Blade
7658



8-1/2' HD L Blade
28850



9' HD L Blade
7659



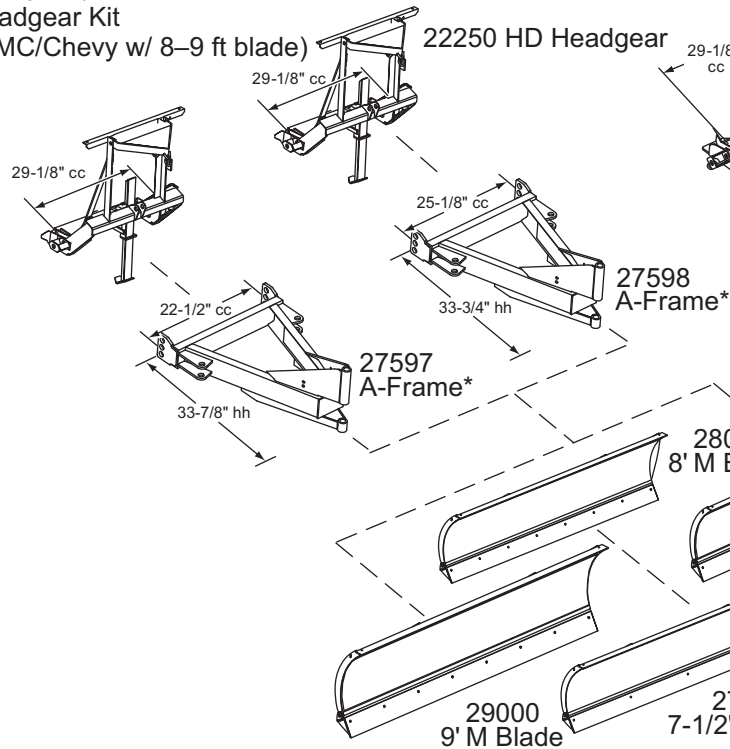
cc = center-to-center measurement
hh = hole-to-hole measurement

BLADES & ATTACHMENTS

Blade Attachment Charts – Minute Mount® and Minute Mount® 2 Systems with L Blade

Minute Mount System and M Blade

22240 RD/HD
Headgear Kit
(GMC/Chevy w/ 8–9 ft blade)



Minute Mount 2 System with L Blade

27454
Headgear

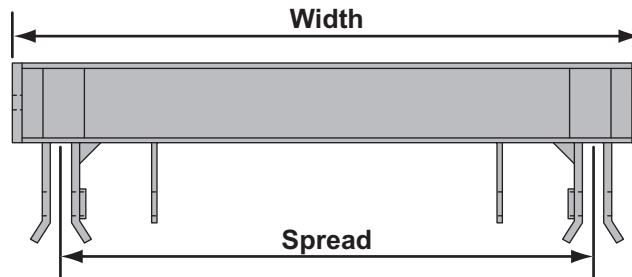
27150 A-Frame

7-1/2' L Blade
7657

cc = center-to-center measurement
hh = hole-to-hole measurement

* To replace a conventional-system blade, use an M blade with the A-frame that matches the width between the conventional A-frame's pushbeams.

Conventional Pushbeam Identification



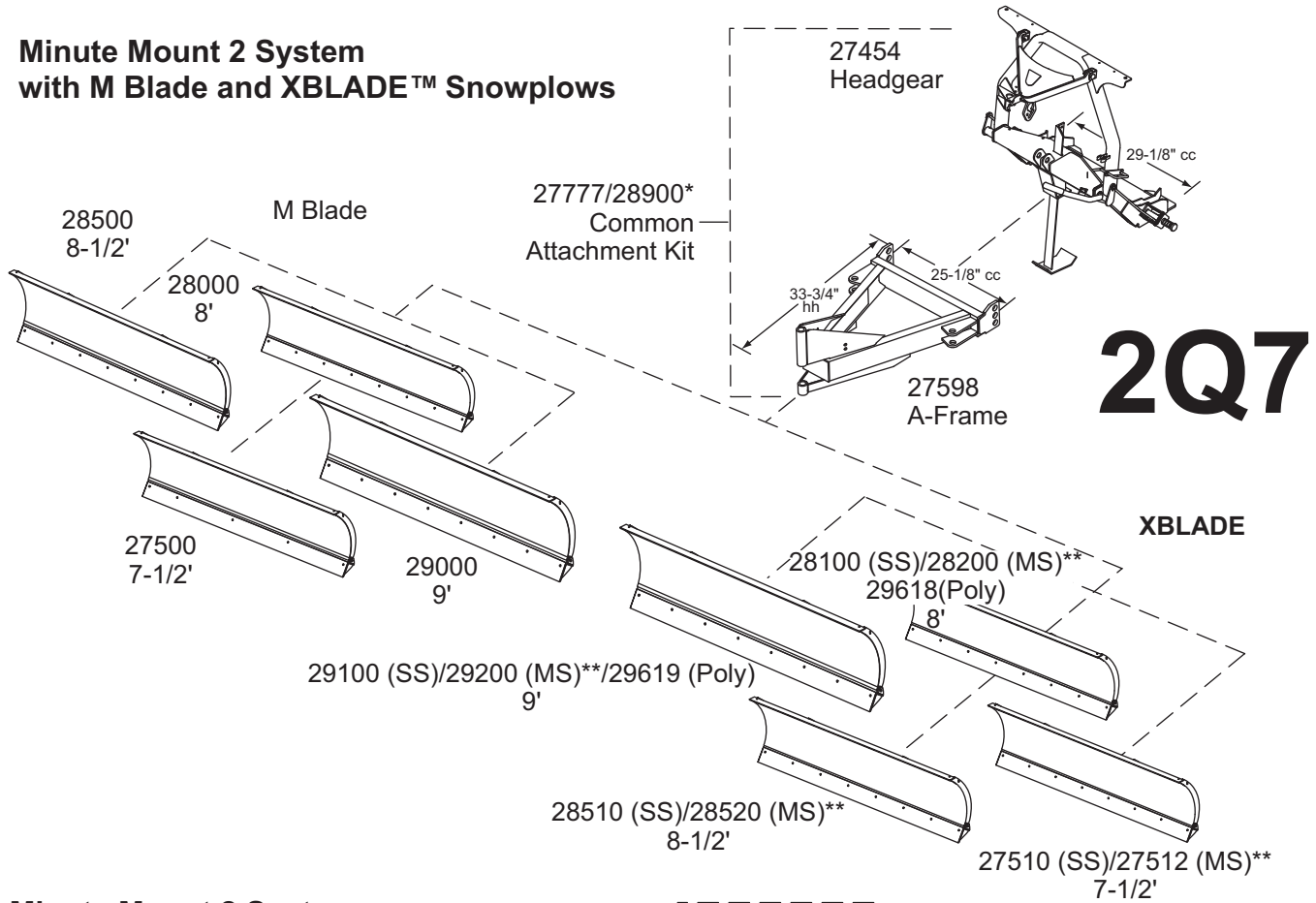
Part	Width (in)	Spread (in)	Weight (lb)	Part	Width (in)	Spread (in)	Weight (lb)
1510	27	22-1/2	25	5654**	31	25-1/2	43
1511	28-3/4	22-1/2	26	5697**	26-7/8	25-1/2	35
1513	27	25-1/2	33	5702**	33	25-1/2	23
4243**	23-3/4	22-1/2	24	5952	32-1/4	25-1/2	37
5098	25-1/4	19-1/4	16	5993	27	19-1/4	18
5165**	40-1/4	30	58	6013**	25	22-1/2	24
5326	26-1/2	19-1/4	17	5189**	35	30	
5417**	29-5/8	19-1/4	18	5234**	36-1/2	30	
5605	31-1/8	25-1/2	36				

** This part is no longer available.

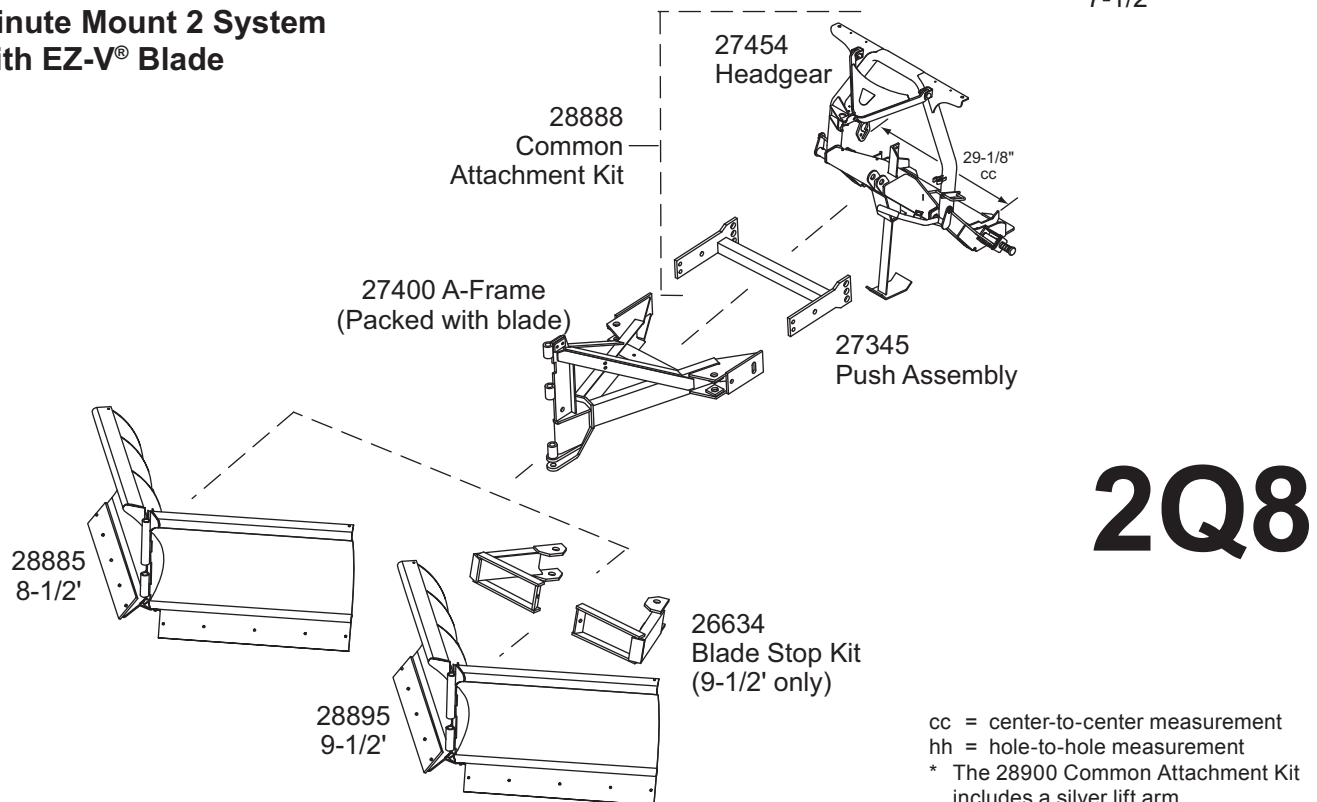
BLADES & ATTACHMENTS

Blade Attachment Charts – Minute Mount® 2 System

Minute Mount 2 System with M Blade and XBLADE™ Snowplows



Minute Mount 2 System with EZ-V® Blade

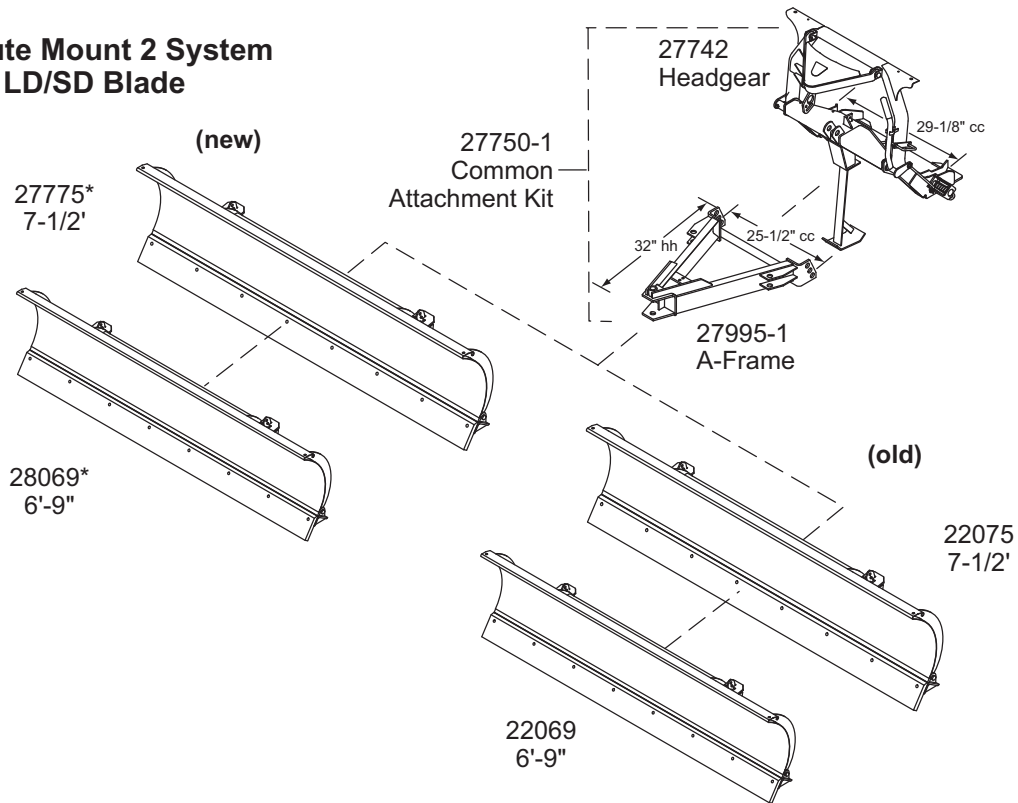


cc = center-to-center measurement
 hh = hole-to-hole measurement
 * The 28900 Common Attachment Kit includes a silver lift arm.
 ** No longer available.

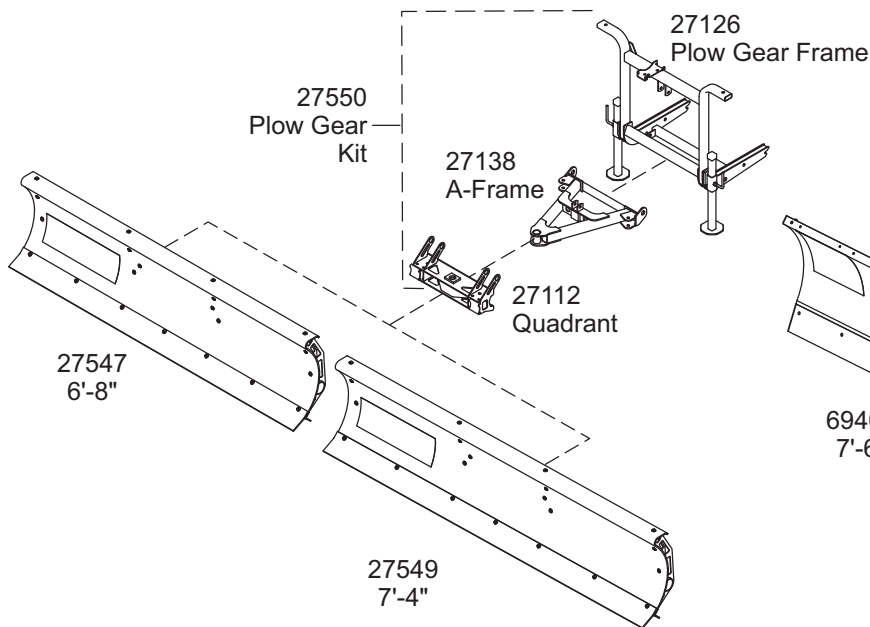
BLADES & ATTACHMENTS

Blade Attachment Charts – Minute Mount® 2, Homesteader™ and HT Series™ Systems

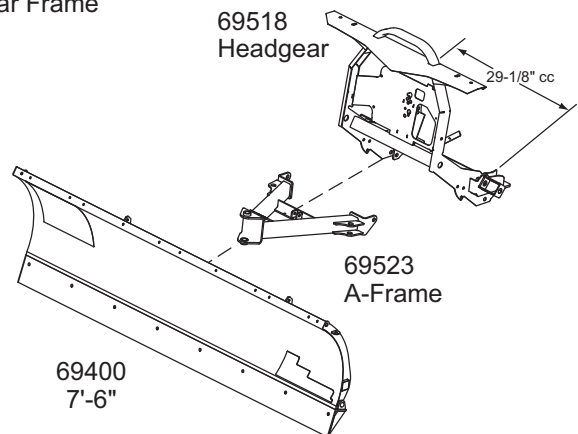
Minute Mount 2 System with LD/SD Blade



Homesteader Personal Plow



HT Series Snowplow

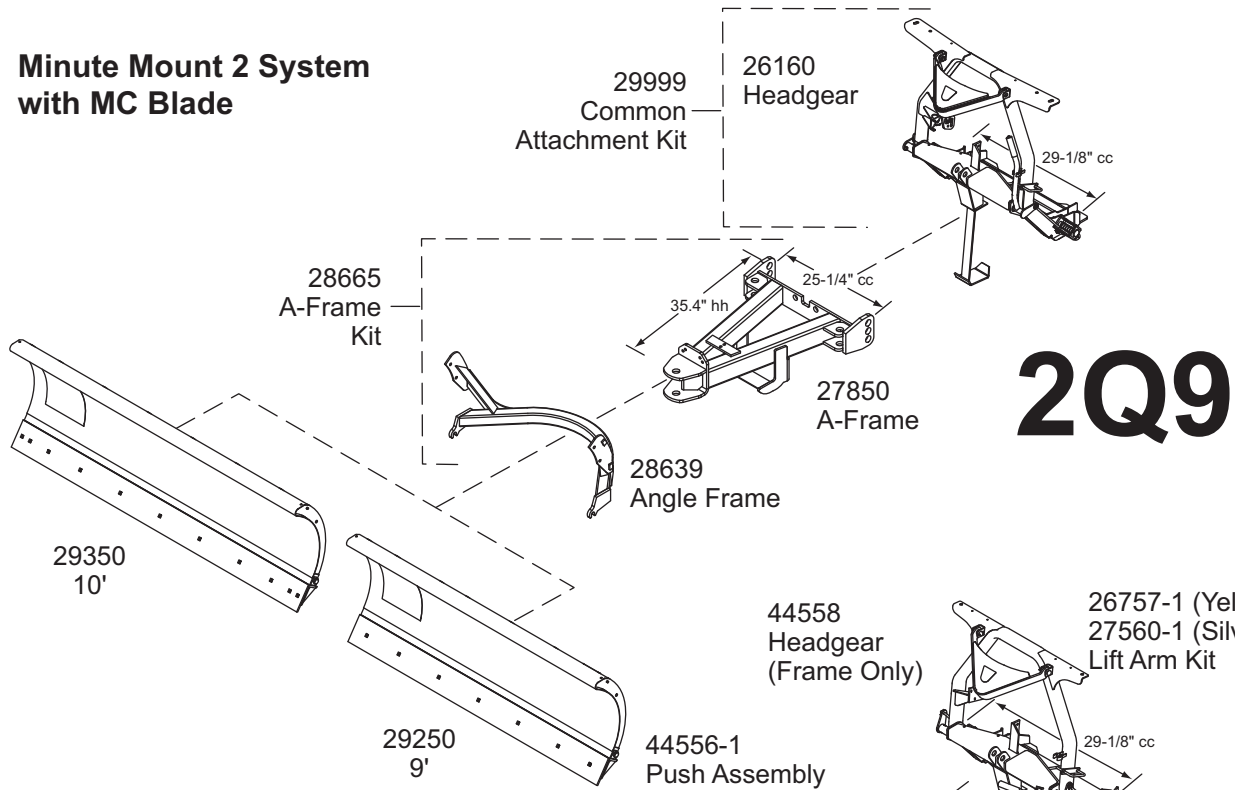


cc = center-to-center measurement
 hh = hole-to-hole measurement
 * In some applications, be careful to avoid hitting the lift arm with the blade.

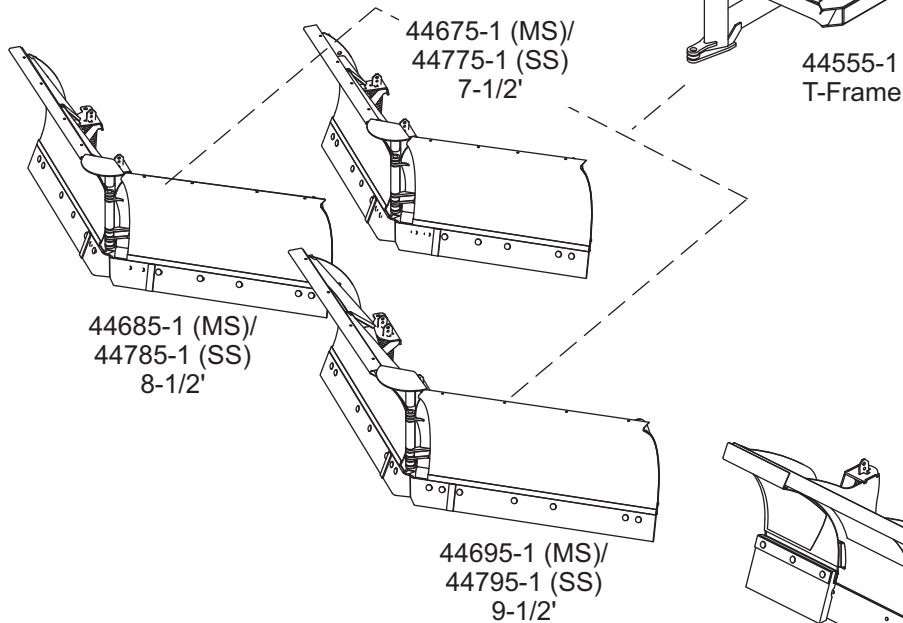
BLADES & ATTACHMENTS

Blade Attachment Charts – Minute Mount® 2 System

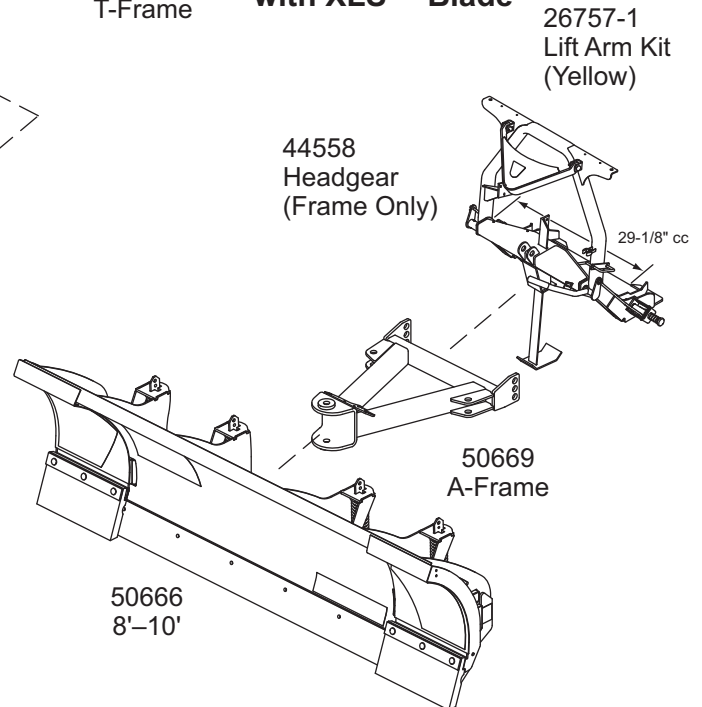
Minute Mount 2 System with MC Blade



Minute Mount 2 System with XtremeV™ Blade



Minute Mount 2 System with XLS™ Blade



cc = center-to-center measurement
hh = hole-to-hole measurement

BLADES & ATTACHMENTS

Replacement Part Numbers for Weld on Shoe Tube Holders

No Longer Manufactured	
Model	Shoe Tube Holder
6-1/2 ft – 7 ft HS Series #A5090, #A5437 (Last Sold 4/98)	Accessory Kit
6 ft 9 in – 7-1/2 ft LD Series #28069, #27775	Accessory Kit
6 ft 9 in – 7-1/2 ft LD Series #22069, #22075	Accessory Kit
6-1/2 ft RD Series L Blade #7760 (Last Sold 6/94)	PN 27215
6-1/2 ft RD Series G Blade #A5569 (Last Sold 1/89)	PN 27215
7-1/2 ft – 8 ft RD/HD Series Patriots® M Blade #27500P, #28000P	PN 26197
7 ft – 9 ft RD/HD Series L Blade #7761, #7657, #7658, #28850, #7659 (Last Sold 4/01)	PN 27215
7 ft – 7-1/2 ft RD Series G/H Blade #A5570, #A5563 (Last Sold 1/92)	PN 27215
8 ft – 9 ft HD Series H Blade #A5564, #A5565 (Last Sold 1/92)	PN 27215
8-1/2 ft – 9-1/2 ft EZ-V® Series (1 Piece Center Flap) #28885, #28895	PN 20721
8-1/2 ft – 9-1/2 ft EZ-V Series (2 Piece Center Flap) #28885, #28895	PN 20721
8-1/2 ft – 9-1/2 ft EZ-V Series #21442, #26596 (Last Sold 8/03)	PN 20721
9 ft – 10 ft MC Series – #27250, #27350 (Last Sold 4/05)	9 ft – PN 27254; 10 ft – PN 27184
9 ft – 10 ft MC Series – #22350, #21000 (Last Sold 10/01)	9 ft – PN 22351; 10 ft – N/A
10 ft HC Series #A5134 (Last Sold 1/98)	N/A
Currently Manufactured	
6 ft 9 in – 7-1/2 ft SD Series #28069, #27775	Accessory Kit
7-1/2 ft – 9 ft RD/HD Series M Blade #27500, #28000, #28500, #29000	PN 26197
7-1/2 ft – 9 ft X BLADE™ Series (-1 version)	Accessory Kit
7-1/2 ft – 9 ft X BLADE Series	Accessory Kit
8 ft – 10 ft XLS™ Series Blade #50810PL	Accessory Kit
9 ft – 10 ft MC Series #29250, #29350	PN 28648

BLADES & ATTACHMENTS

Base Angle Identification – "L" Blade and "M" Blade

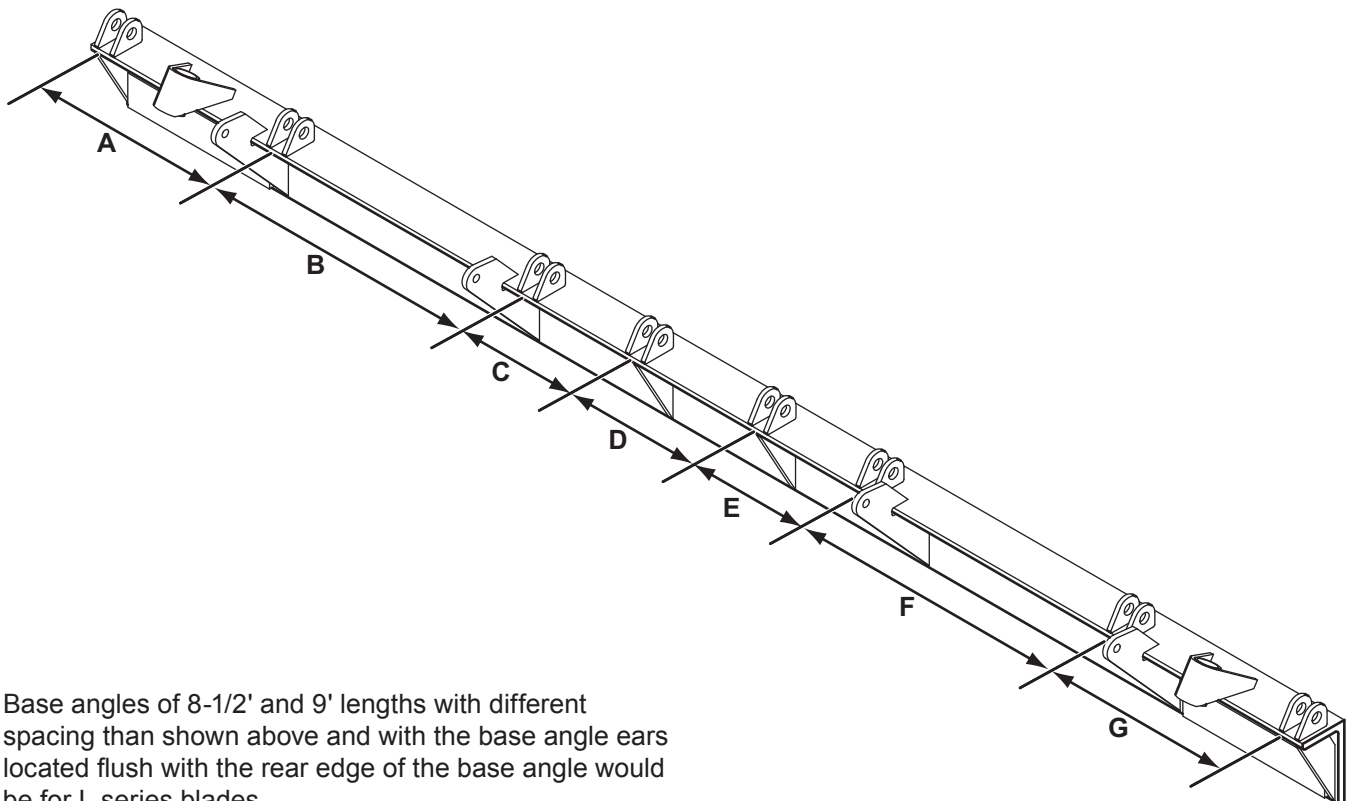
The base angle ears (provide half of the hinge of the trip-edge) for the L and M series blades are located flush with the rear edge of the base angle. That distinguishes them from the G and H series blades which have the base angle ears located approximately 9/16" in from the rear edge of the base angle.

The number of hinges depends upon the series and length of the blades. That number is the same as the number of full ribs.

Blade Length/Series	Number of Ribs
L Blade	
7-1/2' L Blade	5 Full Ribs
8' L Blade	6 Full Ribs
8-1/2' L Blade	8 Full Ribs
9' L Blade	8 Full Ribs
M Blade	
7-1/2' M Blade (Early Production)	6 Full Ribs and 2 Partial Ribs
7-1/2' M Blade (Current Production)	8 Full Ribs
8' M Blade	8 Full Ribs
8-1/2' M Blade	8 Full Ribs
9' M Blade	8 Full Ribs

The base angles for the 8-1/2' and 9' lengths of the L and M series blades might be confused. All have 8 full ribs and therefore 8 hinges. The center-to-center measurements between the ribs for the M series of blades are as follows:

Blade Length/Series	A	B	C	D	E	F	G
8-1/2' M Blade	14-1/2"	21"	9-1/4"	10-1/4"	9-1/4"	21"	14-1/2"
9' M Blade	14-1/2"	24"	9"	10-1/4"	9"	24"	14-1/2"



Base angles of 8-1/2' and 9' lengths with different spacing than shown above and with the base angle ears located flush with the rear edge of the base angle would be for L series blades.

BLADES & ATTACHMENTS

Minute Mount®/Minute Mount 2 RD/HD M Blade A-Frame Identification

In 2002, the A-frames for the Minute Mount and Minute Mount 2 RD/HD Series were revised, extending their lengths by 3", moving the lift chain attachment point and changing the gusset at the tip of the A-frame. When replacing an old-style A-frame, be sure to use the A-frame directly to the right of it in the illustration below.

HEADGEAR	OLD-STYLE A-FRAME**	NEW-STYLE A-FRAME
	22475 (Weldment) 26090 (A-Frame Kit)	27507 (Weldment)** 27597 (A-Frame Kit)
Minute Mount SYSTEM		
	26109 (Weldment) 27000 (Packed in Headgear Kit – MM2 only) 26410 (A-Frame Kit)	27598 (A-Frame Kit*)
Minute Mount SYSTEM AND Minute Mount 2 SYSTEM		
	27032 (Weldment) 27000 (Packed in Headgear Kit)	27477 (Weldment) 27777 (Packed in Headgear Kit) 27598 (A-Frame Kit)
Minute Mount 2 SYSTEM		

* The 27598 A-frame kit has been changed and now contains the 27477 A-frame (MM2 only). For original Minute Mount applications, the A-frame must be notched.

** No longer available.

BLADES & ATTACHMENTS

PECULIAR AND COMMON ATTACHMENT KIT INDEX

YEAR	VEHICLE	BLADE SIZE	BLADE TYPE	COMMON ATTACH KIT	PECULIAR ATTACH KIT
CHEVY/GMC					
1973-87	K10,K15	7'-7761 7 1/2'-7657	"L"	A4979B	AR245B
	K20, K25	7 1/2'-7657	"L"	A4981B	AL246B
	K30, K35	8'-7658 9'-7659		A4980B A4980B	
1973-91	Blazer, Jimmy 1/2 Ton Suburban	7'-7761 7 1/2'-7657	"L"	A4979B	AR245B
1973-1991	3/4 Ton Suburban	7 1/2'-7657 8'-7658	"L"	A4981B A4980B	AL246B
1988-89	V30 V35	8'-7658 9'-7659	"L"	A4980B	AL246B
1981-87 1988-89	C30,C35 2WD R30,R35 2WD	8'-7658 9'-7659	"L"	A4980B	AL262C
1988-95 1992-94 1992-95 1995	K1500 (2) Blazer (2) Yukon, 1/2 Ton Suburban (2) Tahoe (2)	7'-7761 7 1/2'-7657	"L"	A4979B	AR289E
1988-95 1992-95	K2500 (2) K2500 Suburban (2)	7 1/2'-7657 8'-7658 9'-7659	"L"	A4981B A4980B A4980B	AL290E (USE AL293D W/8600 GVW 1989-95)
1988-95	K3500 (2)	8'-7658 9'-7659	"L"	A4980B	AL293D
1990-95	C3500 2 WD (Coil Spring)	8'-7658 9'-7659	"L"	A4980B	7106B
1991-95	C3500 HD 2WD (Straight Axle)	8'-7658 9'-7659	"L"	A4980B	7112B
FORD					
1983-88	Ranger Bronco II	6 1/2'-A5090 7'-A5437	"HS"	A5091B	AM260
1981-86	F150 (4) Bronco (4)	7'-7761 7 1/2'-7657	"L"	A4979B	AR259
1980-86	F250 (4)(6)	7 1/2'-7657 8'-7658	"L"	A4981B A4980B	AL256
1980-85	F350 (4)(6)	8'-7658 9'-7659	"L"	A4980B	AL256

FISHER ENGINEERING, ROCKLAND, MAINE 04841

SUBJECT TO CHANGE

5/5/95

NOTE: This index is not current and appears as it did in a 1995 Parts & Service Manual. It is to be used for reference and should not take the place of the Kit Selection Guide/eMatch. Kits listed may no longer be available.

BLADES & ATTACHMENTS

PECULIAR AND COMMON ATTACHMENT KIT INDEX – CONVENTIONAL MOUNT PLOWS

YEAR	VEHICLE	BLADE SIZE	BLADE TYPE	COMMON ATTACH KIT	PECULIAR ATTACH KIT
FORD					
1987–91	F-150 (4) Bronco (4)	7' – 7761 7 1/2' – 7657	"L"	A4979B	AR275C
	F-250 (6) (4)	7 1/2' – 7657 8' – 7658	"L"	A4981B A4980B	AL286B
	F-350 (4)	8' – 7658 9' – 7659	"L"	A4980B A4980B	AL287C
	F-350 2WD (6) (4)	8' – 7658 9' – 7659	"L"	A4980B	AL292B
	F-Super Duty 2WD	9' – 7659	"L"	A4980B	AL296B
1992–95 1992	F-150 (4) (10) Bronco (4)	7' – 7761 7 1/2' – 7657	"L"	A4979B	7113B
1992–95	F-250 (4) (6) (7)	7 1/2' – 7657 8' – 7658	"L"	A4981B A4980B	7114B
1992–95	F-350 (4)	8' – 7658 9' – 7659	"L"	A4980B	7115B
1992–95	F-Super Duty 2WD	8' – 7658 9' – 7659	"L"	A4980B	7118B
DODGE					
1972–88, 1992–93 1974–93	W150 (5) Ramcharger (5)	7' – 7761 7 1/2' – 7657	"L"	A4979B	7116B
1972–90	W250 (5) W350 (5)	7 1/2' – 7657 8' – 7658 9' – 7659	"L"	A4981B A4980B A4980B	AL257D
1991–93	W250 (5) W350 (5)	7 1/2' – 7657 8' – 7658 9' – 7659	"L"	A4981B A4980B A4980B	7117B
FOREIGN COMPACT/JEEP					
1987–95	Wrangler	6 1/2' – A5090 7' – A5437	"HS"	A5091	7101
1985–95 1985–92	Cherokee Comanche	6 1/2' – A5090 7' – A5437	"HS"	A5091B	AM265D

FISHER ENGINEERING, ROCKLAND, MAINE 04841

SUBJECT TO CHANGE

05/05/95

NOTE: This index is not current and appears as it did in a 1995 Parts & Service Manual. It is to be used for reference and should not take the place of the Kit Selection Guide/eMatch. Kits listed may no longer be available.

BLADES & ATTACHMENTS

PECULIAR AND COMMON ATTACHMENT KIT INDEX – CONVENTIONAL MOUNT PLOWS

YEAR	VEHICLE	BLADE SIZE	BLADE TYPE	COMMON ATTACH KIT	PECULIAR ATTACH KIT
COMMERCIAL					
1990–95	CHEV Kodiak, GMC Topkick w-w/o Tilt Hood	10' – A5134	"HC"	6955	7105C
1980–94	FORD F-600, F-700 w-w/o Tilt Hood	10' – A5134	"HC"	6955	7102
1989–94 1989–95	IHC 4600 (1) IHC 4700 (1) (9) w-w/o Tilt Hood	10' – A5134	"HC"	6955	7140 (1)
1995	FORD F-700, F-800 w-w/o Tilt Hood (8)	10' – A5134	"HC"	6955	7136

(1) Also requires use of (2) part number 7375 – 144" control cables which are sold as service parts only!

(2) Recommended with RPO VYU snowplow prep package

(4) Recommended with optional heavy duty front suspension package only – (F-150 3800 lb, F-250 4600 lb, F-350 4800 lb, F-350 4 X 2 4000 lb)

(5) Recommended with snowplow prep package (AHH/AHD) only.

(6) Not for use on trucks with diesel engines.

(7) Requires removal of sway-bar if equipped.

(8) with 7000# Front GAWR.

(9) maximum 10,000# FGAWR.

(10) not for use on trucks with Quad shocks.

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BLADES & ATTACHMENTS

Cutting Edge/Cutting Edge Bolt Bag Identification

Fisher PN (# on C.E.)	Description	Material	# of Holes	Punched Top/ Center	Bolt Pattern from Edge	Bolt Bag PN	Bolt Size & Qty
5094 (6196)	6-1/2' HS	1" x 5" x 6-1/2' Poly	9	Top	1", 10-1/2", 20", 29-1/2", 39", 48-1/2", 58", 67-1/2", 77"	6602	7/16-14 x 2 (9)
5485 (6197)	7' HS	1" x 5" x 7' Poly	11	Top	1", 4", 13-1/2", 23", 32-1/2" 42", 51-1/2", 61", 70-1/2" 80" 83"	6603	7/16-14 x 2 (11)
27713 (27713)	6'-8" Homesteader™ Personal Plow	1/4" x 5" x 6'-8" Steel	7	Top	2-1/4", 15-1/4", 28", 40", 51-7/8", 64-3/4", 77-3/4"	27574	3/8-16 x 1 1/2 (7)
27714 (27159)	7'-4" Homesteader Personal Plow	1/4" x 5" x 7'-4" Steel	7	Top	2-1/4", 16-3/4", 32", 44", 55-7/8", 71-1/4", 85-3/4"	27574	3/8-16 x 1 1/2 (7)
22215 (22152)	6'-9" LD/SD	1" x 6" x 6' 9" Poly	8	Top	1-1/2", 9-3/8", 21-7/8", 34-1/4", 46-3/4", 59", 71-1/2", 79-1/2"	22217	1/2-13 x 2 (8)
22216 (22193)	7-1/2' LD/SD	1" x 6" x 7-1/2' Poly	8	Top	1-1/2", 13-7/8", 26-3/8", 38-3/4", 51-1/4", 63-5/8", 76", 88-1/2"	22217	1/2-13 x 2 (8)
5532 (6597)	7-1/2' H, L, M (RD/HD/HT Series™)	3/8" x 6" x 7-1/2' Steel	8	Top	1-1/2", 14", 26-3/8", 38-7/8", 51-1/4", 63-1/2", 76", 88-1/2"	6600	1/2-13 x 2 (8)
5533 (6598)	8' H, L, M (HD)	1/2" x 6" x 8' Steel	8	Top	4-1/2", 17", 29-3/8", 41-3/4", 54-1/4", 66-3/4", 79", 91-1/2"	6600	1/2-13 x 2 (8)
26460 (26652)	8-1/2' M (HD)	1/2" x 6" x 8-1/2' Steel	8	Top	2-1/2", 18-1/2", 31-1/2", 44-1/2", 57-1/2", 70-1/2", 83-1/2", 99-1/2"	6600	1/2-13 x 2 (8)
5534 (6599)	9' H, L, M (HD)	1/2" x 6" x 9' Steel	11	Top	3", 6", 18" 30", 42", 54", 66", 78", 90", 102" 105"	6601	5/8-11 x 2 (11)
28575 (28545)	7-1/2' XBLADE™ Snowplow	1/2" x 6" x 7-1/2' Steel Reversible	10	Center	1-1/2", 4-1/2", 26-3/4", 38-3/4", 51-1/4", 63-3/4", 76", 85-1/2", 88-1/2"	20763	5/8-11 x 2 (10)
27580 (27426)	8' XBLADE Snowplow	1/2" x 6" x 8' Steel Reversible	10	Center	1-1/2", 4-1/2", 17", 29-3/8", 41-3/4", 54-1/4", 66-3/4", 79", 91-1/2", 94-1/2"	20763	5/8-11 x 2 (10)
27585 (28391)	8-1/2' XBLADE Snowplow	1/2" x 6" x 8-1/2' Steel Reversible	10	Center	2-1/2", 5-1/2", 18-1/2", 31-1/2", 44-1/2", 57-1/2", 70-1/2", 83-1/2", 96-1/2", 99-1/2"	20763	5/8-11 x 2 (10)
27590 (27427)	9' XBLADE Snowplow	1/2" x 6" x 9' Steel Reversible	11	Center	3", 6", 18", 30", 42", 54", 66", 78", 90", 102", 105"	6601	5/8-11 x 2 (11)
44740-1 (44881)	7-1/2' XtremeV™ Snowplow	(2) 3/8" x 6" x 37-3/4" Steel	(2) 5	Top	3-3/4", 6-3/4", 18-1/2", 25-1/4", 33"	Part # 44894 Center Cutting Edge Kit w/ Fasteners 5/8-11 x 2 (14)	
44742-1 (44882)	7-1/2' XtremeV Snowplow	(2) 1/2" x 6" x 37-3/4" Steel	(2) 5	Top	3-3/4", 6-3/4", 18-1/2", 25-1/4", 33"		
44741-1 (44883)	8-1/2' XtremeV Snowplow	(2) 3/8" x 6" x 40-3/4" Steel	(2) 5	Top	3-3/4", 6-3/4", 20-1/2", 29-3/8", 39"		
44743-1 (44884)	8-1/2' XtremeV Snowplow	(2) 1/2" x 6" x 40-3/4" Steel	(2) 5	Top	3-3/4", 6-3/4", 20-1/2", 29-3/8", 39"		
44744-1 (44886)	9-1/2' XtremeV Snowplow	(2) 1/2" x 6" x 46-3/4" Steel	(2) 5	Top	3-3/4", 6-3/4", 23-1/2", 32-1/2", 45"		
50678 (50625)	7-1/2' HD/HT Series 8'-10" XLS™ Snowplow	1/2" x 6" x 7-1/2' Steel	8	Top	1-1/2", 13-3/4", 26-3/8", 38-3/4", 51", 63-1/2", 76", 88-1/2"	6600	1/2-13 x 2 (8)
28408 (28406)	8-1/2' EZ-V® Snowplow	1/2" x 6" x 49-3/4" Steel	(2) 5	Top	2", 16", 30-1/4", 44-1/4", 47"	21610 (2)	1/2-13 x 2 (5)
26593 (26592)	9-1/2' EZ-V Snowplow	1/2" x 6" x 55-3/4" Steel	(2) 5	Top	2", 8", 22", 36-1/4", 50-1/4", 53"	26594 (2)	1/2-13 x 2 (6)
27362 (27359)	9' MC	1/2" x 8" x 9' Steel	11	Center	1-3/4", 4-3/4", 11-3/4", 23-3/4", 39", 54", 69", 84", 96", 103", 106"	27363	3/4-10 x 2 (11)
3507 (7082)	10' HC	1/2" x 6" x 10' Steel	12	Top	3", 6", 18", 30", 42", 54", 66", 78", 90", 102", 114", 117"	7084	5/8-11 x 2 (12)
27239 (27238)	10' MC (2 pieces)	1/2" x 8" x 59-3/4" Steel	(2) 5	Center	2", 18", 30", 42", 58"	27236	3/4-10 x 2 (10)

ELECTRICAL COMPONENTS

4-Port to 3-Port Isolation Module Plug-In Harness Kit Cross Reference

Headlamp or Vehicle Type	4-Port Harness Kit (module included)	3-Port Harness Kit (module <u>not</u> included)
HB-1 or HB-5 Headlamps	8436	29050
HB-3 & HB-4 Headlamps	8437-1	29048
	8438	<i>w/28027-2 Adapter if both high and low beams on vehicle are ON in high-beam mode.</i>
	27480	
	27780	
	28028	29052
2B or 2D or HB2 Headlamps	8439	29051
HB-1 & HB-5 Headlamps		29050
Dodge Sport Package	8442	w/29056-1 Adapter
H13 Headlamps	28400	29049
Mitsubishi FG	8436	29050
	w/26641 or 28860 Adapter	w/26641-1 or 28860-1 Adapter
GM Topkick/Kodiak	8443	29054
GM C4500/5500	27890	29053
International	8439	29053
	w/26640 Adapter	w/29234 Adapter
Ford F-650/700/800	8439	29053
	w/26640 Adapter	w/29235 Adapter

Additional Electrical System Compatibility Notes

- Revisions to adapter kits 28027(-2), 26641(-1) and 28860(-1) are strictly due to modifications to the installation instructions. No changes were made to the actual adapters.
- The 3- and 4-Port Isolation Modules are **not** interchangeable.
- The 3- and 4-Port Isolation Module Plug-In Harness Kits are **not** interchangeable.
- The 2- and 3-Plug System Vehicle and Snowplow Battery Cables are **not** interchangeable. The 21924 snowplow battery cable and 63411 vehicle battery cable cannot be used on a new 2-Plug System (e.g., XtremeV™ or XLS™ Snowplow).
- To use an existing 4-Port Isolation Module System with an XtremeV or XLS Snowplow, adapter 29175 is required.
- Homesteader™ Personal Plows will continue to use 8435 headlamps, which are compatible with either 3- or 4-Port Isolation Module Systems.
- The 3-Port Isolation Modules—Green Label DRL (PN 29070* or 29070-1), White Label Non-DRL (PN 29060*) and Blue Label DRL (PN 29760-1**)—are packaged separately; both a plug-in harness kit and a module must be purchased for a full installation.

* No longer available; Replaced by PN 29070-1.

** 2008 Ford Super Duty only.

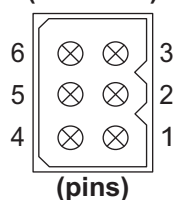
NOTE: This list is to be used as a ordering guide and reference only. It is not a complete list of recommended snowplow applications and should not take the place of the Kit Selection Guide/eMatch.

ELECTRICAL COMPONENTS

Isolation Module System Connector Identification and Wiring

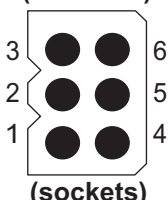
Straight Blade Control Connectors

Control Side
(end view)



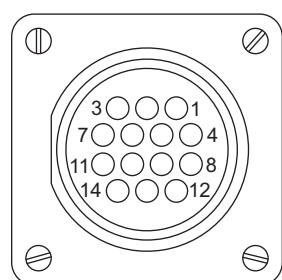
Pin No.	Wire Color
1	White
2	Green
3	Brown
4	Black
5	Blue
6	Red

Vehicle Side
(end view)



Pin No.	Wire Color	Function
1	Red/Yellow	+12V Feed
2	Light Green	Valve S2
3	Orange/Black	Ground
4	Brown/Red	+12V Switched to Motor Relay
5	Light Blue	Valve S3
6	White/Yellow	Valve S1

EZ-V® Control Connector

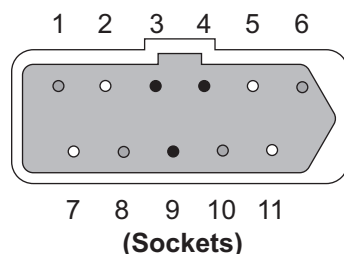


(Front View)

Pin No.	Wire Color	Function
1	Light Blue w/Orange Stripe	Valve S6
2	Blue w/Orange Stripe	Valve S5
3	Black w/White Stripe	Valve S4
4	Light Green	Valve S3
5	Light Blue	Valve S2
6	White w/Yellow Stripe	Valve S1
7	Brown w/Red Stripe	Neg. Switched to Motor Relay
8	Red w/Yellow Stripe	+12V Feed
9	Black w/Orange Stripe	Ground
10	Brown w/Green Stripe	+12V to Motor Relay

Snowplow Control Harnesses (3- and 7-Pin)

Plow (End View)

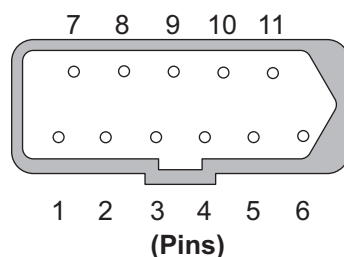


- = both 3- and 7-Pin
- ◐ = 7-Pin only
- = not used

Pin No.	Wire Color	Function	
		3-Pin	7-Pin
1	Black/White	N/A	Valve S4
3	Light Blue	Valve S3	Valve S2
4	Light Green	Valve S2	Valve S3
6	Red	N/A	+12V Feed
8	Blue/Orange	N/A	Valve S5
9	White/Yellow	Valve S1	Valve S1
10	Lt Blue/Orange	N/A	Valve S6

Snowplow Lighting Harness (11-Pin)

Plow (End View)



Pin No.	Wire Color	Function	Pin No.	Wire Color	Function
1	Black/White	PS Low Beam	7	Black/Orange	Ground
2	Black/Orange	Ground	8	Gray	Left Directional
3	White/Yellow	PS High Beam	9	Purple	Right Directional
4	White	DS High Beam	10	Brown	Parking Lights
5	Blue/Orange	PS Common	11	Light Blue	DS Common
6	Black	DS Low Beam			

ELECTRICAL COMPONENTS

Harness Repair Ends

Repair ends are available for most wiring harnesses. When the end of a harness is damaged and must be replaced, using a repair end eliminates the need to replace a complete harness and offers the ability to accomplish a repair at a lower cost. The part numbers of available repair ends are:

Original Minute Mount® Wiring		
Repair End Part	Description	Original Harness Part
22334K	7-Pin – Snowplow Side	8612
22335K	9-Pin – Snowplow Side	8246
22336K	9-Pin – Vehicle Side	8275
22337K	12-Pin – Snowplow Side	8273
22338K	12-Pin – Vehicle Side	8276
E-Force Isolation Module Wiring		
Repair End Part	Description	Original Harness Part
27063K	3-Pin – Vehicle Control Harness (Straight Blade)	26345
27067K	7-Pin – Vehicle Control Harness (EZ-V® Blade)	26346
Miscellaneous Electrical Kits		
Repair End Part	Description	Original Harness Part
27070	6-Pin White Connector – Vehicle Side	26345
22123	Pin Kit – 14-Pin Receptacle (EZ-V Blade)	26346
63726	11-Pin – Vehicle Side (PRO-CASTER™ Spreaders)	66426
63692	4-Pin – Vehicle Side (Tailgate Spreaders)	63633
63693	4-Pin – Spreader Side (Tailgate Spreaders)	63634
29998	Double Fuse Cover – Pkg of 5 (3-Port Peculiar Harnesses , XtremeV™ and XLS™ Hydraulic Units)	

NOTE: Repair ends are not available for the 11-Pin E-Force Isolation Module Vehicle- or Snowplow-Side Lighting Harnesses.

NOTE: The wire colors of the PRO-CASTER 11-Pin Repair End will not match those used for the 11-Pin vehicle-side light harness.

Original Minute Mount® Wiring to Isolation Module System Cross Reference

NOTE: The following information applies only to Original Minute Mount Wiring and 3-Plug Isolation Module Electrical Systems. The information does not apply to the new 2-Plug Multiplex Module Electrical System (e.g., XtremeV, XLS and HT Series™ Snowplows).

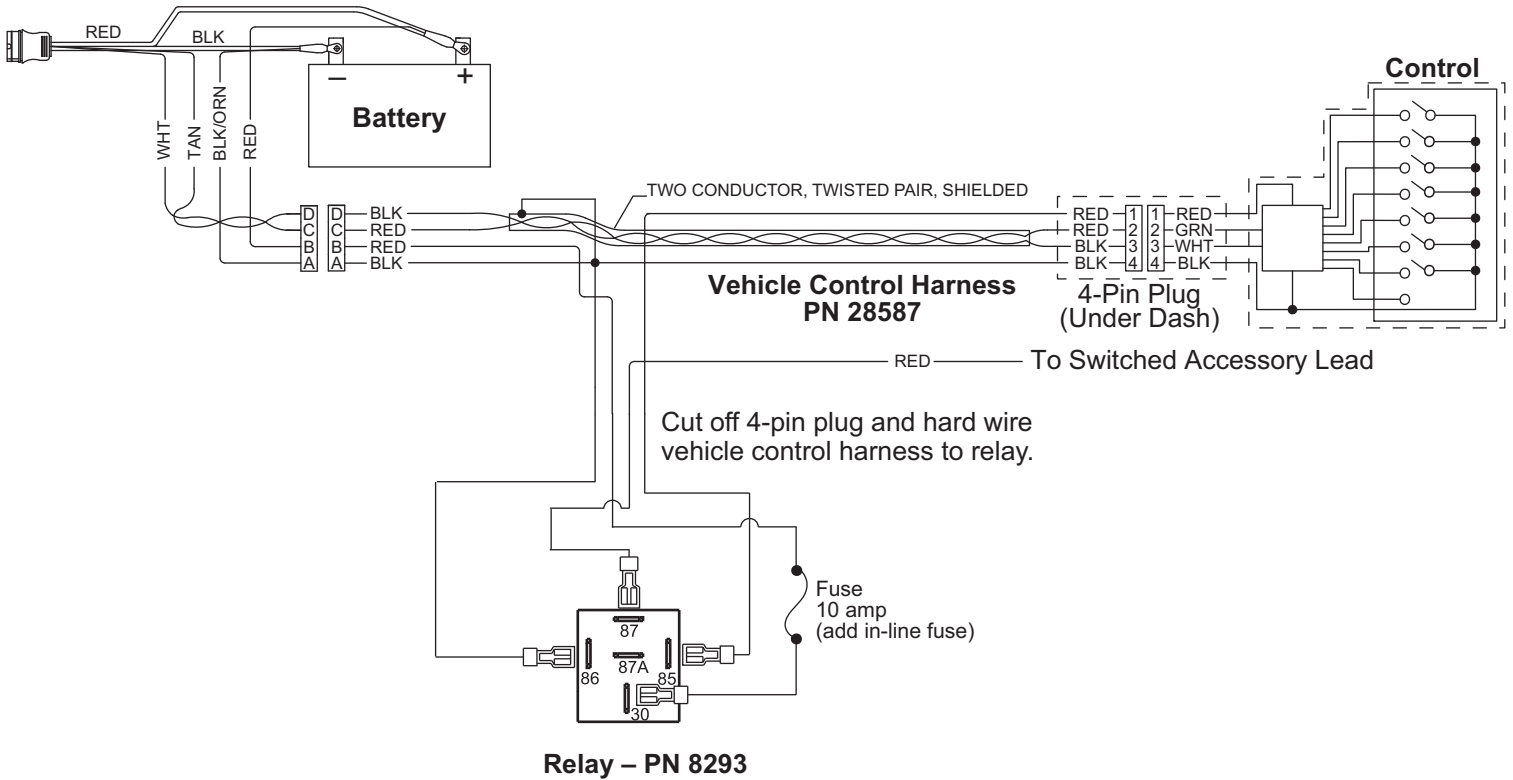
The E-Force Isolation Module Electrical System should be used with all new installations; however, when swapping an existing snowplow from one truck to another, it **may** be possible to use the Original Minute Mount 2-Plug Wiring System. See the chart below to determine which trucks can use this system:

Vehicles	App. Years Compatible w/Orig. MM Wiring
All Chevrolet/GMC	2002 & Prior
All Ford	2004 & Prior
Dodge 1500	2001 & Prior
Dodge 2500/3500	2002 & Prior
Jeep Wrangler	2004 & Prior

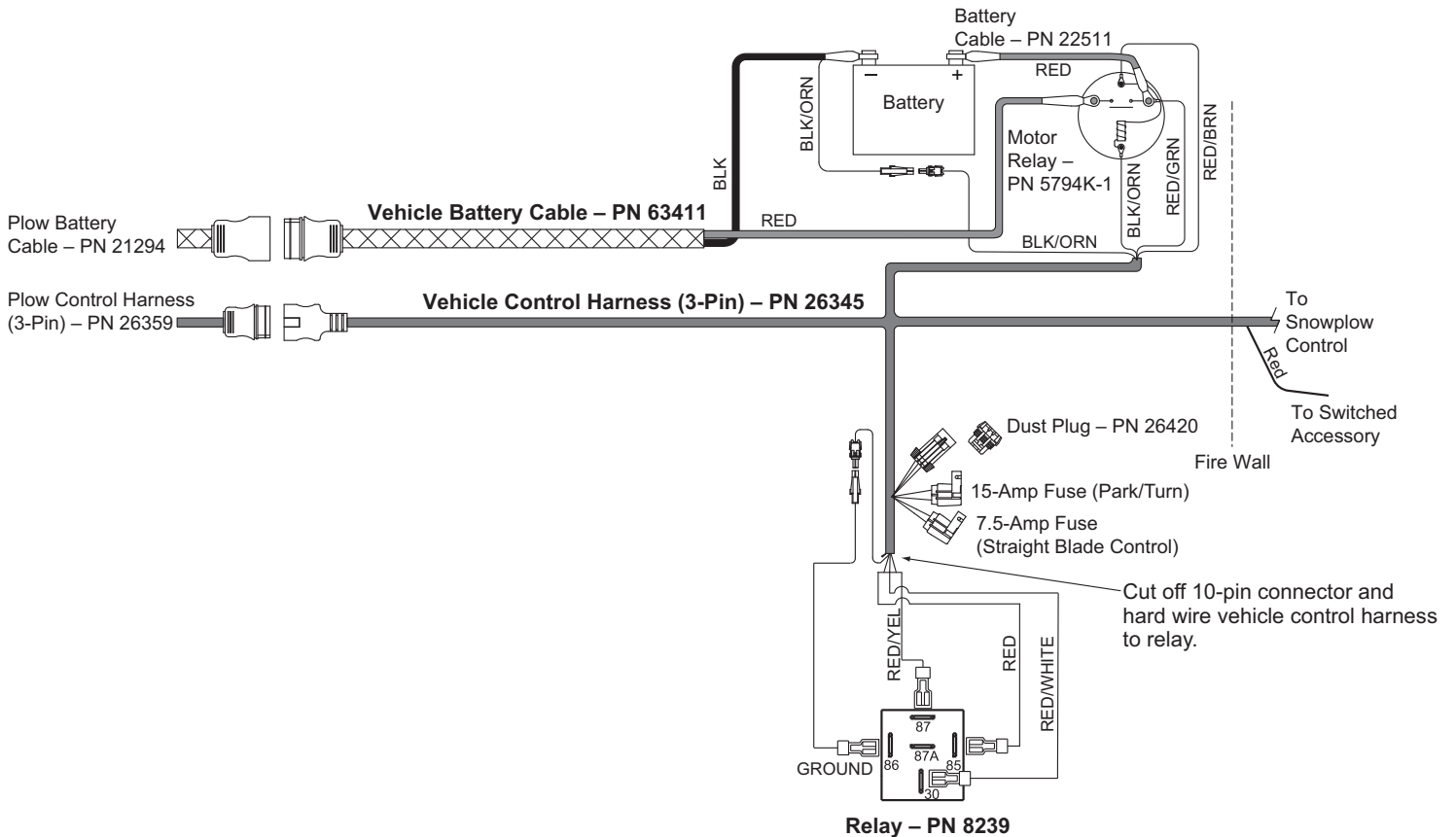
ELECTRICAL COMPONENTS

Schematic – XtremeV™ or XLS™ Snowplow Without Plow Lights/Isolation Module

Vehicle Cable Assembly – PN 42014



Schematic – Straight Blade & EZ-V® Snowplow Without Plow Lights/Isolation Module



ELECTRICAL COMPONENTS

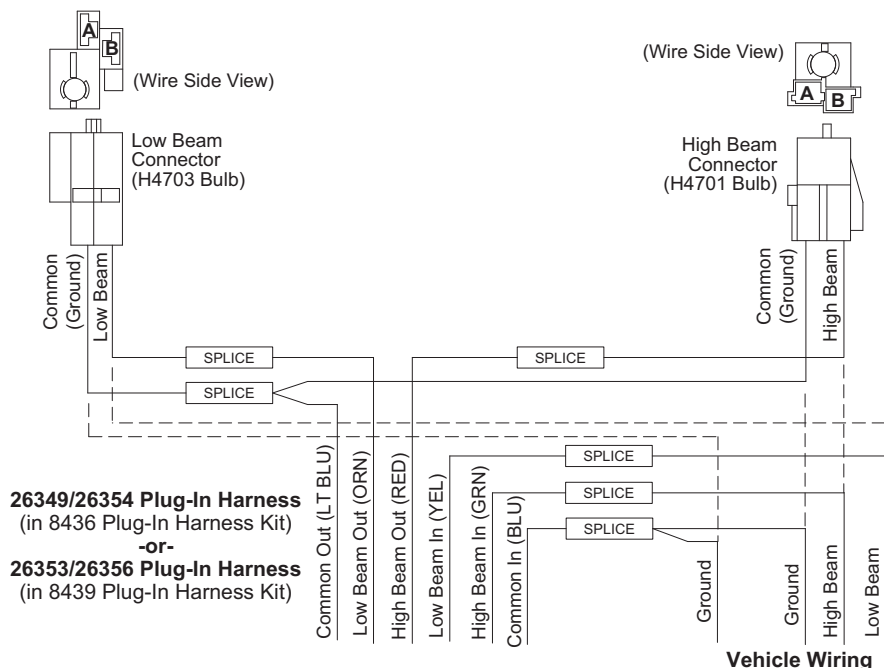
E-FORCE ISOLATION MODULE SYSTEM Used with SEHP Hydraulic Unit	
REQUIRES:	Part Number
Plug-in harness kit & module (3-port) – see eMatch for applications	
Plow lighting harness ¹	26347
Vehicle control harness	26345
Plow control harness	26359
Motor solenoid	5794K-1
Red cable, 22" battery cable	22511
Vehicle cable assembly	63411
Panel mount	56526
Dust cover	26420
Light kit ²	8435 or 28800
Plug cover	8291K
Parts bag (includes fuse tops, rubber grommets, etc.)	8737
If you order Harness Kit PN 26431, it includes:	
Plow control harness	26359
Vehicle control harness	26345
Vehicle cable assembly	63411
Plug cover	8291
¹ Plow light harness required only if older 8416 or 8417 plow lights are used instead of the 8435 or 28800 light kit. ² Would replace 8416 or 8417 plow lights.	

ELECTRICAL COMPONENTS

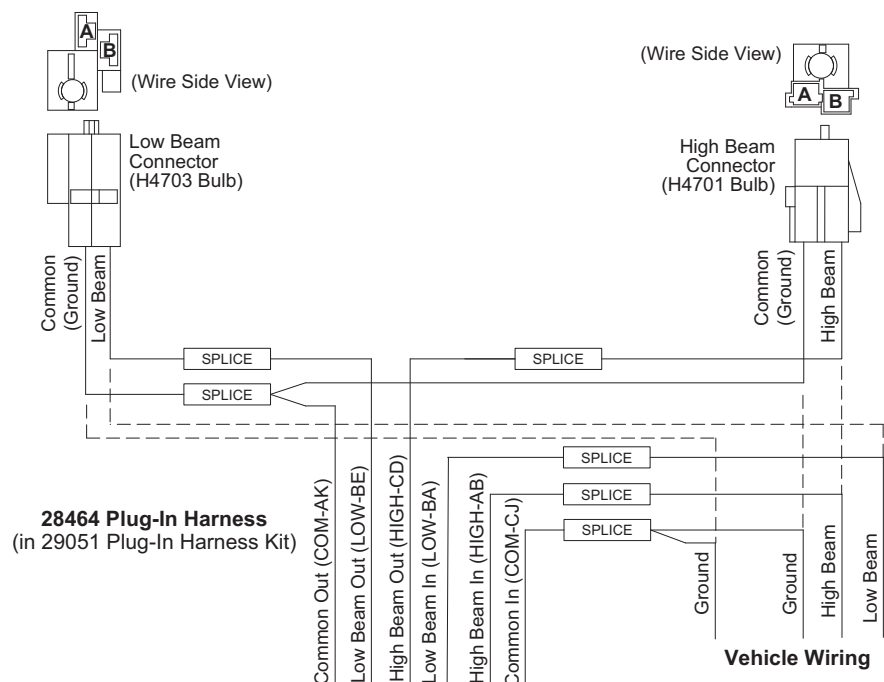
Plug-In Harness Conversions for LF/UF Headlamps

Although there is no Isolation Module plug-in harness available for LF/UF headlamps, it is still possible to install a new FISHER® snowplow with the Isolation Module electrical system on vehicles with these headlamps. Note, however, that installation on these vehicles does require modification of the existing vehicle wiring. To install an Isolation Module system on a vehicle with LF/UF headlamps, cut off and discard the headlamp connectors from the plug-in harness(es) noted in the illustrations below, then splice the wires from the plug-in harness(es) into the vehicle headlamp wiring as shown. Be sure to follow the illustration for the proper Isolation Module (3-Port or 4-Port). For complete Isolation Module installation instructions and recommended splicing procedures, see the Isolation Module installation instructions.

4-Port Isolation Module



3-Port Isolation Module



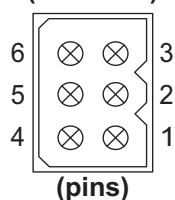
Now Available: PN B62225-1 Headlamp Adapter Kit H13 to LF/UF

ELECTRICAL COMPONENTS

Original Minute Mount® Electrical System Connector Identification and Wiring

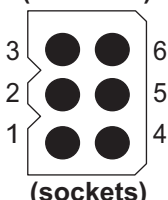
Straight Blade Control Connectors

Control Side
(end view)



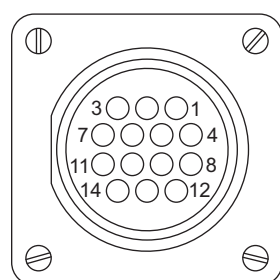
Pin No.	Wire Color
1	White
2	Green
3	Brown
4	Black
5	Blue
6	Red

Vehicle Side
(end view)



Pin No.	Wire Color	Function
1	Red	+12V Feed
2	Light Green	Valve S2
3	Orange/Black	Ground
4	Brown/Red	+12V Switched to Motor Relay
5	Light Blue	Valve S3
6	White/Yellow	Valve S1

EZ-V® Control Connector

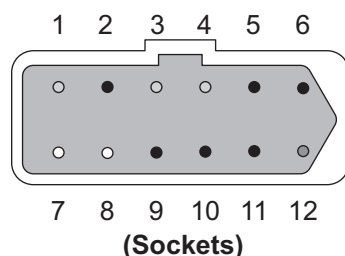


(Front View)

Pin No.	Wire Color	Function
1	Light Blue w/Orange Stripe	Valve S6
2	Blue w/Orange Stripe	Valve S5
3	Black w/White Stripe	Valve S4
4	Light Green	Valve S3
5	Light Blue	Valve S2
6	White w/Yellow Stripe	Valve S1
7	Brown w/Red Stripe	Neg. Switched to Motor Relay
8	Red	+12V Feed
9	Black w/Orange Stripe	Ground
10	Brown w/Green Stripe	+12V to Motor Relay

Snowplow Control Harnesses (7-, 9- and 12-Pin)

Plow (End View)



- = 7-, 9- and 12-Pin
- = 7- and 12-Pin only
- = 9- and 12- Pin only
- = 12-Pin only

Pin No.	7-Pin	9-Pin	12-Pin	Function
1	N/A	White/Yellow	White/Yellow	Valve S1
2	Black ¹	Black ¹	Black	Low Beam ⁶
3	N/A	Light Green	Light Green	Valve S2
4	N/A	Light Blue	Light Blue	Valve S3
5	Black/Orange ³	Black/Orange ^{3,4}	Black/Orange ^{3,4}	Ground
6	White	White	White	High Beam
7	N/A	N/A	Black/White	DS Low Beam
8	N/A	N/A	Dk Blue/Orange	PS Low Beam Ground
9	Gray	Gray	Gray	Left Directional
10	Purple	Purple	Purple	Right Directional
11	Brown	Brown	Brown	Parking Lights
12	Orange/Black ²	N/A	Lt Blue/Orange	Low Beam Ground ⁵

¹ DS and PS

² Main Ground

³ Ground for headlamp relays only

⁴ On early rev. harnesses, black/orange wire is ground for motor relay, control and headlamp relays

⁵ DS only on 12-pin harnesses

⁶ PS only on 12-pin harnesses

ELECTRICAL COMPONENTS



LIGHT KIT INDEX

◆ Note: See Kit Selection Guide for specific applications. ◆					
Year	Vehicle	Common Light Kit Belt Drive	Common Light Kit SEHP	Peculiar Light Kit	DRL Adapter
CHEVY/GMC					
1984-93	S10/S15, Sonoma	N/A	8416	8264	N/A
1984-94	Blazer & Jimmy (S10 Series)				
1995-96	Blazer & Jimmy (S10 Series)		8416 w/o DRL	8270 (2L) 8267 (4L) w/o DRL	N/A
1994-96	S-10 w/ ZR2 WIDE STANCE PACKAGE				
1994-96	S10, Sonoma w/o ZR2 WIDE STANCE PACKAGE	N/A	8417 w/ DRL	8422 (2L) 8268 (4L) w/ DRL	8282
1973-87	K10, K15, K20, K25, K30, K35			8264 (2L)	
1973-91	Blazer & Jimmy (Full Size), Suburban 1/2-Ton & 3/4-Ton	8418	8416	8271 (4L) (1973-87) 8272 (4L) (1988-91)	N/A
1988-89	V30 V35	8418	8416	8264 (2L) 8271 (4L) (1988) 8272 (4L) (1989)	N/A
1988-98	K1500, K2500, K3500			8264 (2L) (1988-97)	
1988-95	K2500 w/7200 GVW				
1992-94	Blazer				
1995-98	Tahoe	8418	8416	8272 (4L) (1988-89)	8282 (1996-97)
1992-98	Yukon, Suburban 1/2-Ton				
1992-95	K2500 Suburban w/7200 GVW				
1991-98	C3500 HD 2WD			8267 (4L) (1990-97)	
1990-98	C3500 2WD				
FORD					
1991-94	Explorer				
1992	Ranger	N/A			
1993-97	Ranger				
1987-91	Bronco F150 F250 F350		8416	8269B	N/A
1992	Bronco	8418			
1992-96	F150				
1992-97	F250				
1997-98	F250 LD				
1995-97	F250 Supercab				
1992-97	F350				
1992-97	F Super-Duty				
1992-97	F350 2WD				

FISHER ENGINEERING, ROCKLAND, MAINE 04841

Subject To Change

12/31/97

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ELECTRICAL COMPONENTS

MINUTE MOUNT® Light Kit Index

Page 2

◆ Note: See Kit Selection Guide for specific applications. ◆

Year	Vehicle	Common Light Kit Belt Drive	Common Light Kit SEHP	Peculiar Light Kit	DRL Adapter
------	---------	-----------------------------	-----------------------	--------------------	-------------

DODGE

1997-19__	Dakota	N/A	8416	21748	N/A
1991-96	Dakota	8418		8270--Downline 8903B--Upline	
1972-88	W150			8283	
1974-93	Ramcharger				
1972-93	W250, W350				
1992-93	W150			8903B	
1994-96	W1500				
1994-98	W2500				
1994-98	W3500				
1995-98	W2500, W3500 Extended Cab				

FOREIGN/COMPACT

1991-94	Mazda Navajo	N/A	8416	8269B	N/A
1994-97	Mazda B-3000, B-4000		8417	20525B (1986-1/2-87 & 1990-95)	
1986.5-95	Nissan 4x4			20526B (1988-89)	
1986.5-95	Nissan Pathfinder			8265	
1986-95	Toyota 4x4			20527B (1992-95 4-Runner Only)	
1995-98	Toyota Tacoma				
1986-95	Toyota 4-Runner				
COMMERCIAL SERIES					
1990-19__	Chevy Kodiak GMC Top Kick	N/A	8430	20710	N/A
1989-94	International 4600			21331	
1989-19__	4700, 4800, 4900			21511	
1985-19__	Ford F700, F800				

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ELECTRICAL COMPONENTS

CONVENTIONAL MOUNT PLOWS LIGHT KIT INDEX

YEAR	VEHICLE	COMMON LIGHT KIT	PEC. LIGHT KIT
CHEVY/GMC			
1973-87	K10,K15 K20, K25 K30, K35	A6136	A3735-23 (2L) A3735-25 (4L) 1973-88 A3735-28 (4L) 1989-91
1973-91	BLAZER,JIMMY SUBURBAN		
1988-89	V30 V35		
1981-87	C30,C35 2WD	A6136	A3735-23 (2L)
1988-89	R30,R35 2WD		A3735-25 (4L)
1988-95	K1500 (2)	A6136	A3735-34 (2L) A3735-28 (4L) 1988-89 A3735-35 (4L) 1990-95
1992-94	BLAZER		
1992-95	YUKON, SUBURBAN (2)		
1995	TAHOE		
1988-95	K2500 (2)		
1988-95	K3500 (2)		
1990-95	C3500 2 WD (coil Spring)		
1991-95	C3500 HD 2WD (Straight Axle)		
FORD			
1983-88	RANGER	A6136	A3735-23 (1983-88)
1983-88	BRONCO II		A3735-26 (1989-91)
1981-86	F150 BRONCO	A6136	A3735-23
1980-86	F250		
1980-85	F350		
1987-91	F150 BRONCO F250 F350 F350 2WD F-SUPER DUTY 2WD	A6136	A3735-26
1992-95	F150	A6136	A3735-37
1992	BRONCO		
1992-95	F250		
1992-95	F350		
1992-95	F-SUPER DUTY 2WD		

(2) Recommended with RPO/VYU plow prep package or Fisher relay kit 8035.

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ELECTRICAL COMPONENTS

Page 2

CONVENTIONAL MOUNT PLOWS LIGHT KIT INDEX

YEAR	VEHICLE	COMMON LIGHT KIT	PEC. LIGHT KIT
DODGE			
1972-88 1974-88 1972-90	W150 RAMCHARGER W250 W350	A6136	A3735-23
1992-93 1989-93 1991-93	W150 RAMCHARGER W250 W350	A6137	A3735-36
FOREIGN COMPACT/JEEP			
1987-95	WRANGLER	A6136	A3735-23
1985-95	CHEROKEE	A6136	A3735-23 (2L)
1985-92	COMMANCHE		A3735-28 (4L)
COMMERCIAL			
1990-95 1980-94 1989-94 1989-95 1995	CHEV KODIAK, GMC TOPKICK, W/WO TILT HOOD, W/O AIR BRAKES FORD F600,F700 W/WO TILT HOOD IHC 4600, IHC 4700 W/WO TILT HOOD FORD F700,F800 W-W/O TILT HOOD	A6136	A3735-24

(1) Nissans with HB-1 headlights use 8735-32 harness

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HYDRAULIC COMPONENTS



HYDRAULIC KIT INDEX

◆ Note: See Kit Selection Guide for specific applications. ◆				
YEAR	VEHICLE	VEHICLE ENGINE	PECULIAR HYD KIT	COMMON HYD KIT
CHEVY/GMC				
1984 - 93	S10-S15, Sonoma		8225 - SEHP	
1984 - 96	Blazer & Jimmy (S-10 Series)		8225 - SEHP	
1994 - 96	S10 w/o ZR2 Wide Stance Package		8225 - SEHP	
1994 - 96	S10, Sonoma w/ ZR2 Wide Stance Package		8225 - SEHP	
1988 - 89	V30, V35		8240 - SEHP	
1988 - 93		6.2L Diesel w-w/o AC, w/o ABS	7515	A4468-40
1992 - 94		6.5L Turbo Diesel w-w/o AC, w/o ABS	7515	A4468-40
1988 - 93		V8 7.4L w-w/o AC, w/o Dual Batteries	7517	A4468-40
1973 - 85 1985		V8 5.0L & 5.7L w/o AC V6 4.3L w/o AC	7519B	A4468-40
1988 - 89		V8 5.0L & 5.7L w-w/o AC V6 4.3L w/o AC	7529B	A4468-40
1988 - 94		6.2L & 6.5L Diesel w-w/o AC, w/o ABS	7539B	8840-40B EC/SV
1990 - 95		V6 4.3L; V8 5.0L & 5.7L w-w/o AC, w-w/o ABS, w/o Dual Batteries	7544	A4468-40
1990 - 95		V6 4.3L; V8 5.0L & 5.7L w-w/o AC, w-w/o ABS	7546B	8840-40B EC/SV
1994		V8 7.4L w-w/o AC, w/o Dual Batteries, w/o ABS	7548	A4468-40
1995		V8 7.4L w-w/o AC, w/o Dual Batteries, w/ ABS	7548	A4468-40
1995		6.5L Diesel 4x4, w/ AC, w/ ABS	7550	8500-40
1996 - 98		V8 5.0L & 5.7L w-w/o AC, w-w/o ABS, w/o Dual Batteries	7551B	8840-40B EC/SV
1996 - 97		V8 5.0L & 5.7L w-w/o AC, w-w/o ABS, w/o Dual Batteries	7552	8500-40
1996 - 97		6.5L Diesel w-w/o AC, w/ ABS	7553	8840-40B EC/SV
1996 - 98		V8 5.0L & 5.7L w-w/o AC, w-w/o ABS, w/o Dual Batteries	7556	21937 Cable Valve
1996 - 97		V8 7.4L w-w/o AC, w/o Dual Batteries, w/ ABS	7554B	8840-40B EC/SV

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HYDRAULIC COMPONENTS

MINUTE MOUNT® Hydraulic Kit Index

Page 2

◆ Note: See Kit Selection Guide for specific applications. ◆				
YEAR	VEHICLE	VEHICLE ENGINE	PECULIAR HYD KIT	COMMON HYD KIT
FORD				
1991 - 94	Explorer		8225 - SEHP	
1992	Ranger		8225 - SEHP	
1993 - 97	Ranger		8225 - SEHP	
1997 - 19__		V8 4.6L & 5.4L	8240 - SEHP	
1988 - 97		V8 5.0L & 5.8L w-w/o AC	7520D	A4468-40
1988 - 97		V8 7.5L w-w/o AC	7522B	A4468-40
1987 - 97		I6 4.9L w-w/o AC	7523C	8500-40
1987 - 97		V8 5.0L & 5.8L w-w/o AC	7530C	8840-40B EC/SV
1992-1/2 - 94		V8 7.3L Diesel w-w/o AC, w-w/o Turbo	7532	8500-40
1992-1/2 - 94		V8 7.3L Diesel w-w/o AC, w-w/o Turbo	7536B	8840-40B EC/SV
1994-1/2 - 96		V8 7.3L Diesel DI w-w/o AC	7542B	8500-40
1987-97		V8 5.8L w-w/o AC	7557	21937 Cable Valve
1994.5 - 97		V8 7.3L Diesel DI w-w/o AC	7558	21937 Cable Valve
DODGE				
1992		V6 3.9L w-w/o AC, w/AT	7526B	A4468-40
1993 - 96		V6 3.9L w-w/o AC, w-w/o AT		
1994 - 97		V8 5.2L & 5.9L w-w/o AC, w-w/o ABS, w-w/o single air pump	7535	A4468-40
1994 - 98		V8 5.2L & 5.9L w-w/o AC, w-w/o ABS, w-w/o single air pump	7537	8840-40B EC/SV
1994 - 96		V10 8.0L w-w/o ABS, w-w/o AC	7540	8500-40
1992 - 93		V8 5.2L & 5.9L w-w/o AC, w-w/o single air pump	7541	A4468-40
1994 - 97		5.9L Diesel w-w/o AC	7549B	8500-40
FOREIGN/COMPACT				
1986 - 95	Toyota 4x4, 4-Runner		8225 - SEHP	
1995 - 98	Toyota Tacoma		8225 - SEHP	
1991 - 94	Mazda Navajo		8225 - SEHP	
1994 - 97	Mazda B-3000, B-4000		8225 - SEHP	
1986.5 - 95	Nissan 4x4 & Pathfinder		8225 - SEHP	
COMMERCIAL SERIES				
1990 - 19__	Chevy Kodiak GMC Top Kick		8425 Commercial SEHP	
1989 - 94 1989 - 19__	International 4600 4700, 4800, 4900		8425 Commercial SEHP	
1985 - 97	Ford F700, F800		8425 Commercial SEHP	

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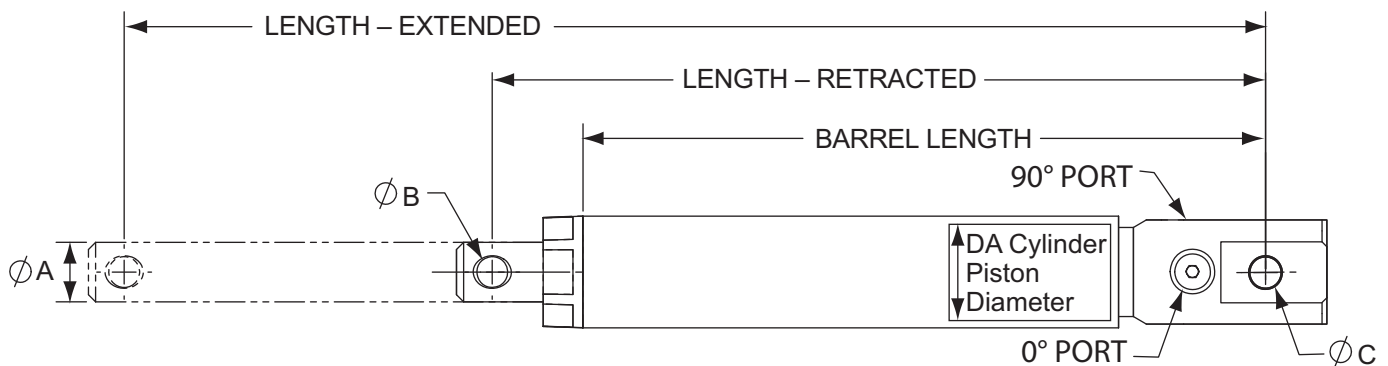
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HYDRAULIC COMPONENTS

Cartridge Identification Chart

Stamped # HydraForce	Stamped # Deltrol	Fisher Part Number
SF08-2015	N/A	44335
SV08-30	N/A	7636K-1
SV08-31	DSV2-080-3-N-C7	66608K
SV08-40	DSV2-080-4CO-N-C25	7637K
SV08-41	N/A	49457
SV08-43	N/A	66783K
SV08-45	N/A	49453
SV08-2004	DSV-080-2NCP-N-C66	7634K-1
SVCV08-20	N/A	44331

Hydraulic Cylinder Identification

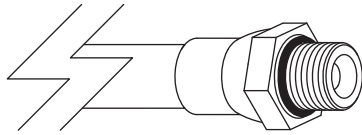


Part Number	Description	Retracted Length	Extended Length	Dia. "A"	Dia. "B"	Dia. "C"	Port Location	Piston Dia.	Barrel Length
With NPTF Port/Packing Nut									
A5096	1-1/2 x 6	13-1/4	19-1/4	1-1/2	1	1	0°		11-3/8
A3463	2 x 10	17-1/4	27-1/4	2	1	1	0°		15-1/4
A3464	2 x 12	19-1/4	31-1/4	1	1	1	90°		17-1/4
A5166K	2 x 16	23-1/4	39-1/4	2	1-1/4	1-1/4	90°		21
20116K	1-1/2 x 10	17-3/16	26-7/8	1-1/2	1	1	0°		15-1/4
20117K	1-1/2 x 12	19-1/2	31-1/4	1-1/2	1	1	90°		17
With SAE O-Ring Port/Gland Nut									
56600K	1-1/2 x 10	17	27	1-1/2	1	1	0°		15-3/8
56718	1-1/2 x 6	13-1/4	19-1/4	1-1/2	1	1	0°		11-3/8
56603K	1-1/2 x 12	19-1/2	31-1/2	1-1/2	1	1	90°		17
56740	2 x 10	17	27	2	1	1	0°		14-7/8
56709F	2 x 10 DA	17-1/4	27-1/4	1-1/2	1	1	90°	2	14-3/4
44340	1-3/4 x 11 DA	18-1/4	29-1/4	1-1/2	1	1	90°	1-3/4	15-3/4
49461	1-1/2 x 10	17	27	1-1/2	1	1	90°		15-1/4
B60347	XLS™ Wing Cyl	29-9/16	40-1/2	1	5/8	5/8	* 90°		24-1/2
56772K	1 x 7	13-1/2	20-1/2	1	1/2	1/2	90°		11
27204	1-1/2 x 6 DA	13	19-3/16	1	1/2	1/2	* 90°	1-1/2	11-1/2
69668	2 x 6-3/4 DA	12.96	19.71	1	1/2	5/8	90°	2	11-9/16
69670	1-1/2 x 8	16.68	24.83	1-1/2	1	1	0°		13-1/4

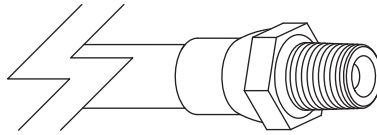
* The B60347 and 27204 are unique cylinders and have multiple ports

HYDRAULIC COMPONENTS

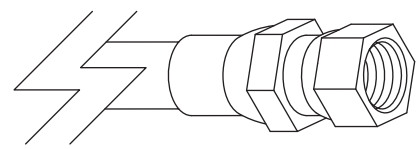
Hydraulic Hose Identification



SAE O-Ring End



NPTF End



JIC End

Part	Length (in)	Type	Fittings
5749	Bulk	LP	N/A
56765	8	HP	JIC to JIC
56592	16	HP	1/4" JIC to JIC
4428**	18	HP	1/4" NPTF to SAE O-Ring
56754	18	HP	1/4" JIC to JIC
3074	22	HP	1/4" NPTF to 1/4" NPTF
56598	22	HP	1/4" JIC to JIC
2707*	26	HP	3/8" NPTF to 1/4" NPTF
8728	28	HP	1/4" NPTF to 1/4" NPTF
376	32	HP	1/4" NPTF to 1/4" NPTF
5223*	32	HP	3/8" NPTF to 1/4" NPTF
56710	32	HP	1/4" JIC to JIC
4424	36	HP	1/4" NPTF to 1/4" NPTF
56599	36	HP	JIC to JIC
56599	36	HP	1/4" JIC to JIC
44315	38	HP	3/8" JIC to JIC
44348	42	HP	3/8" JIC to JIC

LP = Low Pressure

Part	Length (in)	Type	Fittings
375	42	HP	1/4" NPTF to 1/4" NPTF
56591	42	HP	1/4" JIC to JIC
44316	45	HP	3/8" JIC to JIC
4472**	48	HP	1/4" NPTF to SAE O-Ring
1664	54	HP	1/4" NPTF to SAE O-Ring
5193	54	HP	1/4" NPTF to 1/4" NPTF
2503**	54	HP	3/8" NPTF to 1/4" NPTF
44867	57	HP	3/8" JIC to JIC
1665	60	HP	1/4" NPTF to SAE O-Ring
5192	60	HP	1/4" NPTF to 1/4" NPTF
2504**	60	HP	3/8" NPTF to 1/4" NPTF
44868	60	HP	3/8" JIC to JIC
6066*	66	HP	1/4" NPTF to 1/4" NPTF
2518**	66	HP	3/8" NPTF to 1/4" NPTF
2516**	72	HP	3/8" NPTF to 1/4" NPTF
1685**	72	HP	1/4" NPTF to SAE O-Ring

HP = High Pressure

* This part will no longer be available once existing inventory is depleted.

** This part is no longer available.

Control Cable Identification

Part	Length (in)	Use
A4949	30	SLC Cable
A4922	32	SLC Cable
A5701	36	SLC Cable
A4488	40	SLC Cable
6027	45	SLC Cable
A5461	67	SLC Cable
A4926	78	SLC Cable
A2844	78	Angle Cable
A2845	78	Raise Cable
A4489	84	SLC Cable
A2846	84	Angle Cable
A2847	84	Raise Cable

Part	Length (in)	Use
A4490	90	SLC Cable
A2848	90	Angle Cable
A2849	90	Raise Cable
A5930	90	Adjustable Cable
A5931*	90	Nonadjustable Cable
A5843**	108	Nonadjustable Cable
A5844	108	Adjustable Cable
7375	144	Adjustable Control Cable
9240	300	Throttle Cable – To be Obsolete
A5929	90	SLC w/Cables
A5795	108	SLC w/Cables
4418		Ball Stud Retainer Clip Used in Control PN 4419

* This part is no longer available. PN A5930 should be used in its place.

** This part is no longer available. PN A5844 should be used in its place.

T-Handle: Raise PN 4074 } To Be
Angle PN 4075 } Obsolete

Pump Shaft Seals for PN A2311 and A5075 Belt Drive Pumps

Measure the outside diameter of the seal.

1" OD	PN 2768
1-1/4" OD	PN 5034 (Also found in kit PN A5038K seal with snap ring)

HYDRAULIC COMPONENTS

CONVENTIONAL HYDRAULIC KIT INDEX (1)

YEAR	VEHICLE	VEHICLE ENGINE	PECULIAR HYD KIT	COMMON HYD KIT
CHEVY/GMC				
1973-85 1985		V8 305, 307, 350, 400 w/o AC V6 4.3L w/o AC	HPS4500D	A4468-40
1983-89		6.2L Diesel w-w/o AC	HPS4542C	A4468-40
1984-89		V8 305,350 w/AC	HPS4560B	A4468-40
1986-87 1986-89		V6 4.3L w/o AC V8 305, 350 w/o AC	HPS4571	A4468-40
1988-89		V6 4.3L w/o AC V8 305, 350 w-w/o AC	HPS4587C	A4468-40
1988-93 1992-94		6.2L Diesel w-w/o AC 6.5L Turbo Diesel w-w/o AC w/o ABS	HPS4589E	A4468-40
1988-93		V8 454 w-w/o AC w/o Dual Batteries	HPS4593C	A4468-40
1990-1995		V6 4.3L, V8 5.0L & 5.7L w-w/o AC, w-w/o ABS, w/o Dual Batteries	7545	A4468-40
1994 1995		V8 7.4L w-w/o AC, w/o Dual Batteries, w/o ABS V8 7.4L w-w/o AC, w/o Dual Batteries, w/ABS	7547	A4468-40
FORD				
1983-90 1983-91	Bronco II Ranger		7725-SEHP	
1985-86 1983-87		V8 302 w/o AC V8 351 w/o AC	HPS4583B	A4468-40
1988-95		V8 5.0L, 5.8L w-w/o AC	7504B	A4468-40
1988-95		V8 7.5 L w-w/o AC	7508C	A4468-40
1992-1/2 - 94		7.3L Diesel w-w/o AC w-w/o Turbo	7512 (3)(4)(5)	8500-40 (3)(4)
1987-95		6 Cyl 300 cu in/ 4.9L w-w/o AC	7513C (3)(4)(6)	8500-40 (3)(4)
DODGE				
1989-90 1987-91		V6 3.9L DB Alt, 1/SAP V8 318,360 w/DB Alt, 2/SAP	7501	A4468-40
1984-91		V8 318,360 w/SB Alt, 1/SAP, w/AT	7502	A4468-40
1992-93		5.9L Cummins Turbo Diesel w-w/o AC	7507	A4468-40
FOREIGN COMPACT/ JEEP				
1987-95	WRANGLER		7725 - SEHP	
1985-95 1985-92	CHEROKEE COMMANCHE		7725 - SEHP	

FISHER ENGINEERING, INC., ROCKLAND, MAINE 04841

SUBJECT TO CHANGE

5/5/95

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HYDRAULIC COMPONENTS

CONVENTIONAL HYDRAULIC KIT INDEX (1)

YEAR	VEHICLE	VEHICLE ENGINE	PECULIAR HYD KIT	COMMON HYD KIT
COMMERCIAL				
1990-95	CHEV KODIAK, GMC TOPKICK w-w/o Tilt Hood		6970 - EHP	
1980-94	FORD F600,F700 w-w/o Tilt Hood			
1989-94	IHC 4600 (7)			
1989-95	IHC 4700 (7) w-w/o Tilt Hood			
1995	Ford F700,F800 w-w/o Tilt Hood			

- (1) Optional Solenoid EHP replaces Common and Peculiar Hydraulics: Full size conventional - 7740 SEHP, compact conventional - 7725 SEHP.
- (3) Special Hydraulic kit with separately mounted pump and reservoir.
- (4) Note - Optional Pumpmate may not allow proper belt alignment with kits that use 8500-40.
- (5) For use only on trucks equipped with 5000# front GAWR.
- (6) Requires use of fan spacer kit #20400 for use on vehicles equipped with super cooling package w/2" radiator.
- (7) Requires use of (2) PN 7375 - 144" cables which are sold as service parts only!

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5/5/95

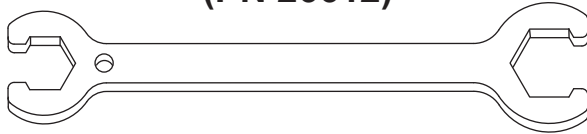
NOTE: This index is not current and appears as it did in a 1995 Parts & Service Manual. It is to be used for reference and should not take the place of the Kit Selection Guide/eMatch. Kits listed may no longer be available.

Pressure Test Kit (PN 56686)

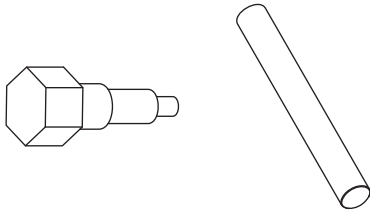


XtremeV™/XLST™ adapter PN 6-4F50X Parker

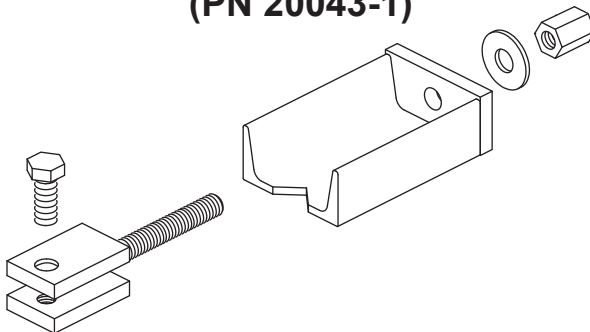
Packing/Gland Nut Removal Tool (PN 26612)



Poppet Seat Service Tool (PN 28530)

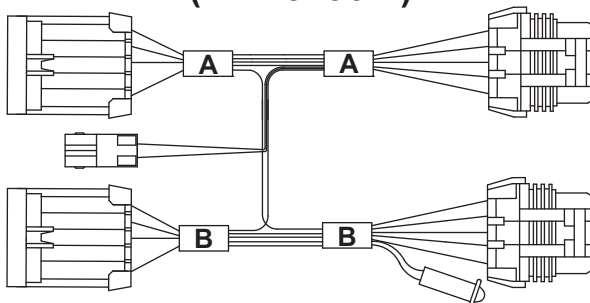


Trip Spring Removal Tool (PN 20043-1)



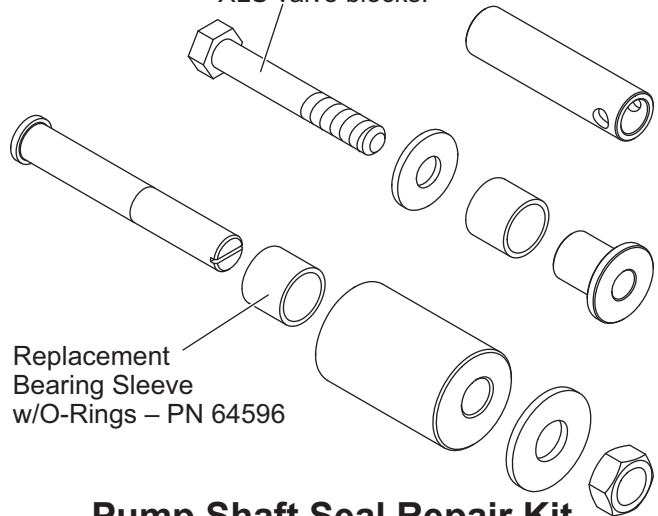
Diagnostic Harness Kit (PN 29290-1)

for multi-plex



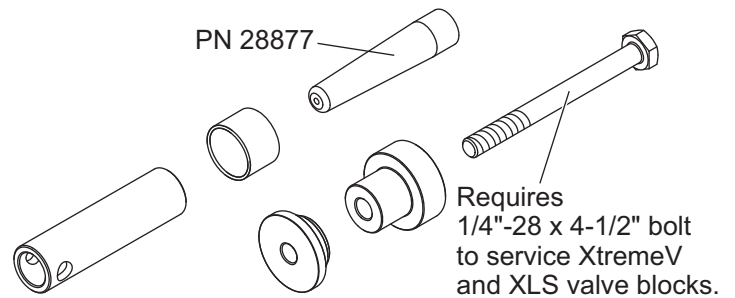
Motor Bearing Sleeve Repair Kit (PN 64589)

Requires 3/8"-24 x 4" bolt to service XtremeV and XLS valve blocks.



Replacement Bearing Sleeve w/O-Rings – PN 64596

Pump Shaft Seal Repair Kit (PN 28856)

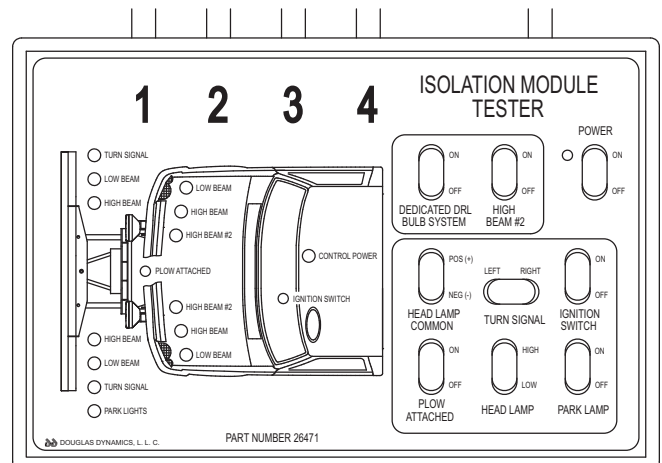


PN 28877

Requires 1/4"-28 x 4-1/2" bolt to service XtremeV and XLS valve blocks.

3- & 4-Port Isolation Module Tester (PN 26470-2)

Adapter (PN 29294-1)
(for all non "-1" Tester kits)



SPREADERS

Hopper and Tailgate Spreader Service Part Identification

Chutes		
Part	Description	Serial #s
9189	RC MS – 14"	ALL Non PRO-CASTER™ Spreaders
9194	RC MS – 26" ext.	ALL Non PRO-CASTER Spreaders
9031	RC SS – 14"	ALL Non PRO-CASTER Spreaders
9032	RC SS – 26" ext.	ALL Non PRO-CASTER Spreaders
9107	HC MS – 31"	ALL Non PRO-CASTER Spreaders
9108	HC MS – 19"	ALL Non PRO-CASTER Spreaders
68920	HC SS – 31"	ALL Non PRO-CASTER Spreaders
68921	HC SS – 19"	ALL Non PRO-CASTER Spreaders
95424-1	MS – Belt Drive – 14"	ALL PRO-CASTER Spreaders
95425-1	SS – Belt Drive – 14"	ALL PRO-CASTER Spreaders
95426-1	MS – Belt Drive – 26"	ALL PRO-CASTER Spreaders
95427-1	SS – Belt Drive – 26"	ALL PRO-CASTER Spreaders

Original PRO-CASTER Offset Chutes*							
Part	Application	Part	Application	Part	Application	Part	Application
94357*	14" MS	94924*	14" SS	94474*	26" MS	94940*	26" SS
94357-1*	19" MS	94924-1*	19" SS	94474-1*	26" MS	94940-1*	26" SS
Replacement Belt Drive Chutes w/Rework Kit 95496 (MS)* or 95497 (SS)*							
95424-1*	14" MS	95425-1*	14" SS	95426-1*	26" MS	95427-1*	26" SS

* No longer available.

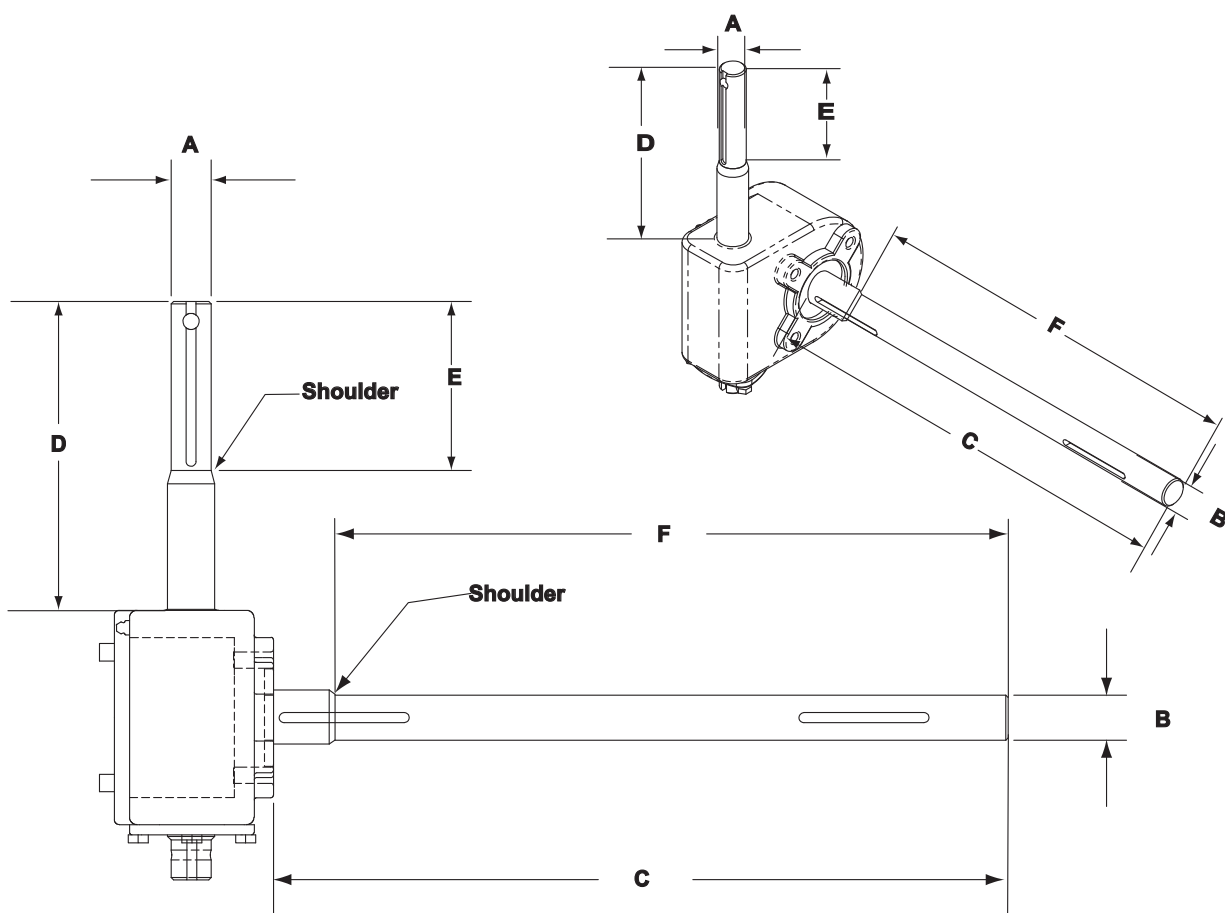
Roller Chains		
Part	Description	Serial #s
68351	#40 – 26-1/2" RC – Spinner	3850–4808, 4809 – Higher
68350	#40 – 29-1/2" RC – Drive	3850–4808, 4809 – Higher
68431	#40 – 30-1/2" HC – Spinner	3850–4808, 4809 – Higher
9225	#40 – 35" RC – Drive	0000–0732
68417	#40 – 36-1/2" HC – Drive	3850–4808, 4809 – Higher
9188	#40 – 38" RC – Spinner	0000–3849
9220	#40 – 39" RC – Drive	0733–3849
20325	#40 – 42" HC – Spinner	2092–3849
20341	#40 – 47" HC – Drive	2092–3849
95778	#40 – 63" POLY-CASTER™ ONLY	ALL
78075	#40 – 29-1/2" POLY-CASTER II ONLY	ALL

Conveyor Chains**		
Part	Description	Serial #s
20334	8' HC – 16" 124 link	2091–3849 Non PRO-CASTER Spreaders
20335	10' HC – 16" 153 link	2091–3849 Non PRO-CASTER Spreaders
68349	8' RC MS & SS – 11.65" 123 link	3850–4996, 4809 – Higher, 5645 – Higher Non PRO-CASTER Spreaders
9177	8' RC MS & SS – 11.875" 123 link	0000–3849 Non PRO-CASTER Spreaders
94462	7' RC MS & SS – 11.65" 108 Link	4809 – Higher Non PRO-CASTER Spreaders
68474	8' HC MS & SS – 15.65" 123 link	3850–4996, 4809 – Higher, 5645 – Higher Non PRO-CASTER Spreaders
	8' MS & SS – 15.65" 123 link	ALL PRO-CASTER Spreaders
68435	10' HC MS & SS – 15.65" 153 link	3850–4996, 4809 – Higher, 5645 – Higher Non PRO-CASTER Spreaders
	10' MS & SS – 15.65" 153 link	ALL PRO-CASTER Spreaders
94898	7' MS & SS – 15.65" 108 link	ALL PRO-CASTER Spreaders/8' POLY-CASTER II
95361	9' MS & SS – 15.65" 138 link	ALL PRO-CASTER Spreaders
78076	7' POLY-CASTER II – 15.65" 99 link	ALL POLY-CASTER II Spreaders
94898	8' POLY-CASTER II – 15.65" 108 link	ALL POLY-CASTER II Spreaders

** The measurement is the overall width from the outside of one pin to the outside of the other.

SPREADERS

SPREADER GEAR CASE REFERENCE CHART



MEASUREMENT							
Part Number	A	B	C	D	E	F	Comments
	Input Shaft OD	Output Shaft OD	Output Shaft Length	Input Shaft Length	Input Shaft Length to Shoulder	Output Shaft Length to Shoulder	
POLY-CASTER™							
95756	5/8	3/4			5	2-5/8	
POLY-CASTER II							
95567	1	1-1/8	18-3/8		4-7/32		Center Drive
SPEED-CASTER™ 2							
68803	5/8	3/4		3-3/16		2-5/8	S/N 202650 & higher
65762	5/8	3/4		3-3/16		2-5/8	S/N 202389 – 202649
Non PRO-CASTER™							
68374 ²	1	1-1/8	14-3/8	7-7/8			Reg Capacity
68412 ²	1	1-1/8	14-3/8	7-7/8			Reg Capacity/Hyd
9171	1	1-1/8	2	8-3/8			Reg Capacity
68384 ³	1	1-1/8	18-3/8	7-7/8			High Capacity/Gas
68463 ³	1	1-1/8	18-3/8	7-7/8			High Capacity/Hyd
PRO-CASTER							
94349	1	1-1/8	18-3/8		4-7/32		Direct Drive ¹
95567	1	1-1/8	18-3/8		4-7/32		Center Drive

¹ Stub shaft directly below input shaft

² 68374 and 68412 both use the 68732 gear case

³ 68384 and 68463 both use 68733

SPREADERS

Hopper and Tailgate Spreader Service Part Identification

Gear Boxes		
Part	Description	Serial #s
9171	RC & HC	0000–3849 Non PRO-CASTER™ Spreaders
65762		202389–202649 SPEED-CASTER™ 2 Spreaders
68384*	HC	3850–4808, 4809 – Higher Non PRO-CASTER Spreaders
68803		202650 – Higher SPEED-CASTER 2 Spreaders
68374	RC	3850–4808, 4809 – Higher Non PRO-CASTER Spreaders
68412	RC – Hydraulic	4809 – Higher Non PRO-CASTER Spreaders
95567	RC & HC	0402 – Higher PRO-CASTER & POLY-CASTER™ II Spreaders
94349	RC & HC	0001–0401 PRO-CASTER Spreaders (use 95400 coupler)
95756		POLY-CASTER™ Spreaders

Spinner Shafts			
Part	Length (in)	Diameter (in)	Application
9191	23	3/4	14" Chute – Non PRO-CASTER Spreaders (RC)
9192	35	3/4	26" Chute – Non PRO-CASTER Spreaders (RC)
20319	27	1	19" Chute – Non PRO-CASTER Spreaders (HC)
20320	39	1	31" Chute – Non PRO-CASTER Spreaders (HC)
94407	19-1/4	1	14" Offset Chute – Early PRO-CASTER Spreaders
94477	31-1/4	1	26" Offset Chute – Early PRO-CASTER Spreaders
95294	24-1/4	1	19" Offset Chute – Early PRO-CASTER Spreaders
94684	20-5/8	1	Dual Hydraulic – Early PRO-CASTER Spreaders
95420	28-1/2	1	14" Center Belt Drive Chute – PRO-CASTER Spreaders
95421	40-1/2	1	26" Center Belt Drive Chute – PRO-CASTER Spreaders
95795	16-1/2	3/4	Standard Chute – POLY-CASTER Spreaders
95960	32-1/2	13/16	Extended Chute – POLY-CASTER Spreaders
78067	35-7/8	3/4	POLY-CASTER II Spreaders

Spinners			
Part	Diameter (in)	Material	Application
20321	14-1/2	Black Steel	9107, 9108, 68920, 68921 – Non PRO-CASTER Spreaders (HC)
94319	14-1/2	Stainless	9107, 9108, 68920, 68921 – Non PRO-CASTER Spreaders (HC)
94513	14-1/2	Poly	9107, 9108, 68920, 68921 – Non PRO-CASTER Spreaders (HC)
94510	9-7/8	Poly	Low Profile Model 1000 and Low Profile Model 2000 Low Profile Tailgate Spreaders
94884	12	Poly	94357, 94474 – PRO-CASTER Spreaders
94514	12	Poly	9031, 9032, 9189, 9194 – Non PRO-CASTER Spreaders (RC)
9196	11-7/8	Black Steel	9031, 9032, 9189, 9194 – Non PRO-CASTER Spreaders (RC)
20095	11-3/4	Stainless	9031, 9032 – Non PRO-CASTER Spreaders (RC)
94512	10-3/16 sq.	Poly	67274 – SPEED-CASTER™ Spreaders
9519	sq.	Black Steel	67274 – SPEED-CASTER Spreaders
67090	15-3/4	Black Steel	67130 – SPEED-CASTER 2 Spreaders
94511	15-7/8	Poly	67130 – SPEED-CASTER 2 Spreaders
P3047	9-7/8	Black Steel	Low Profile Model 1000 (10003 – Higher) and Low Profile Model 2000 (20364 – Higher) Tailgate Spreaders
P2024	9	Black Steel	Low Profile Model 110 Tailgate Spreaders (noncurrent)
94748-1	18	Poly	UTS 696 MS (Frame of spinner assembly)
94749-1	18	Poly	UTS 696 SS (Frame of spinner assembly)
95280	18	Poly	UTS 696 (Spinner Kit)
94511	15-1/2		Standard POLY-CASTER Spreaders
94513	14-1/2		Extended POLY-CASTER Spreaders
94424	15-1/2	Poly	94424 – POLY-CASTER II Spreaders

* Shaft must be drilled for use on hydraulically driven spreaders; PN 68384 replaces PN 68463

SPREADERS

Hopper and Tailgate Spreader Service Part Identification

Spinner Shaft Bearings			
Part	Description	Chutes	Serial #s
9193	3/4" Pillow Block Bearing w/Locking Collar	9189, 9031, 9194, 9032	0733–2599, 2600–3849 RC, 3850–4808 RC, 4809 – Higher RC Non PRO-CASTER™ Spreaders
20322	1" Pillow Block Bearing	9101, 9108, 68920, 68921	2600–3849 HC, 3850–4808 HC, 4809 – Higher HC Non PRO-CASTER Spreaders
95488	1" Bearing Kit – Center Belt Drive	95424, 95425, 95426, 95427	0303 – Higher PRO-CASTER Spreaders
94897	Spinner Bearing Kit – Offset Direct Drive	94357, 94357-1, 94474, 94474-1, 94924, 94924-1, 94940, 94940-1, 95224, 95225	0126–0302 PRO-CASTER Spreaders
			0144–0302 PRO-CASTER Dual-Hydraulic Spreaders

Spinner Shaft Drive Components			
Part	Description	Chutes	Serial #s
9187	Sprocket – #40 x 24 Tooth 3/4" ID	9189, 9031, 9194, 9032	0733–2599, 2600–3849 RC, 3850–4808 RC, 4809 – Higher RC Non PRO-CASTER Spreaders
20323	Sprocket – #40 x 24 Tooth 1" ID	9101, 9108, 68920, 68921	2600–3849 HC, 3850–4808 HC, 4809 – Higher HC Non PRO-CASTER Spreaders
95489	Center Belt Pulley Kit w/ Key	95424, 95425, 95426, 95427	0303 – Higher PRO-CASTER Spreaders
95400	Offset Chute Coupling Kit	94357, 94357-1, 94474, 94474-1, 94924, 94924-1, 94940, 94940-1, 95224, 95225	0126–0302 PRO-CASTER Spreaders
			0144–0302 PRO-CASTER Dual-Hydraulic Spreaders with Offset Chute
95244	Hydraulic Coupling Kit	95224, 95225	

Conveyor Drive Gears		
Part	Description	Serial #s
9163	Sprocket – 6T x 1.125" ID	0733–2599, 2600–3849 RC, 3850–4808 RC & HC, 4809 – Higher RC & HC Non PRO-CASTER Spreaders 0126 – Higher PRO-CASTER Spreaders
20333	Sprocket – 8T x 1.13" ID	2600–3849 HC Non PRO-CASTER Spreaders

Drive Shaft Bearings		
Part	Description	Serial #s
9162	2-Bolt Flange Bearing – 1-1/8"	0733–2599, 2600–3849 RC, 3850–4808 RC & HC, 4809 – Higher RC & HC Non PRO-CASTER Spreaders
20337	4-Bolt Flange Bearing – 1-1/8"	2600–3849 HC Non PRO-CASTER Spreaders
94953	Spreader Bearing Kit – Conveyor	0126 – Higher PRO-CASTER Spreaders

Conveyor Idler Shafts		
Part	Size	Serial #s
9184	1" x 16"	0733–2599, 2600–3849 RC, 3850–4808 RC, 4809 – Higher RC Non PRO-CASTER Spreaders
20329	1.13" x 20.5"	2600–3849 HC Non PRO-CASTER Spreaders
68434	.998" x 20"	3850–4808 HC, 4809 – Higher Non PRO-CASTER Spreaders
94351	.986" x 20.5"	0126 – Higher PRO-CASTER Spreaders

SPREADERS

Hopper and Tailgate Spreader Service Part Identification

Idler Shaft Gears		
Part	Description	Serial #s
9183	Idler Sprocket w/Bushing – 6T x 1.00" ID	0733–2599, 2600–3849 RC, 3850–4808 RC & HC, 4809 – Higher RC & HC Non PRO-CASTER™ Spreaders
20332	Idler Sprocket w/Bushing – 8T x 1.13" ID	2600–3849 HC Non PRO-CASTER Spreaders
9163	Sprocket w/Keyway & No Bushing – 6T x 1.125" ID	0126 – Higher PRO-CASTER Spreaders

Idler Shaft Bearings		
Part	Description	Serial #s
9182K	Rod End – 1"	0733–2599, 2600–3849 RC, 3850–4808 RC & HC, 4809 – Higher RC & HC Non PRO-CASTER Spreaders
20331	Rod End – 1-1/8"	2600–3849 HC Non PRO-CASTER Spreaders
94953	Spreader Bearing Kit	0126 – Higher PRO-CASTER Spreaders

PRO-CASTER V-Belts		
Part	Description	Serial #s
94691	Engine to Clutch	All PRO-CASTER Spreaders (42370)
95418	Clutch to Spinner	PRO-CASTER Spreaders w/Center Belt Drive (42300)

Engine Conversion Kit		
Part	Description	
94497	8.5 HP Briggs & Stratton–to–10 HP Tecumseh	No Longer Available

Gas Spreader Parts Kits		
Part	Description	Serial #s
94890	Vehicle harness, control and misc. hardware	All PRO-CASTER Spreaders
94655		All Non PRO-CASTER Spreaders

Repair Harnesses		
Part	Description	Serial #s
66427	Spreader Harness – 11-Pin Repair End	ALL PRO-CASTER Spreaders
67482	Spreader Harness – 7-Pin Repair End	ALL Non PRO-CASTER Spreaders
66426	Vehicle Harness – 11-Pin Complete Harness	ALL PRO-CASTER Spreaders
67481	Vehicle Harness – 7-Pin Complete Harness	ALL Non PRO-CASTER Spreaders
63726	Vehicle Harness – 11-Pin Repair End	ALL PRO-CASTER Spreaders

Belt–Chain Drive Conversion Kit		
Part	Description	Serial #s
95736	Chain-Belt Drive Conversion Kit	All PRO-CASTER Belt-Driven Spreaders
95737	Chain-Belt Drive Conversion Kit	

Tailgate Spreader Wiring	
Part	Description
28953	Control Installation Kit for Variable Speed Control (28867)
65516	Control Installation Kit for ON/OFF Spreader Control (9390) and PRO-CASTER Control
29244	Kit converts old style round connector (PN 2157 / 2156) to new style 4-pin connector

MISCELLANEOUS

Clevis Pin Identification

Dia. x Length (in)	Pin	Kit	Application
3/16 x 1	4491		Cable to valve block – Belt Drive Hydraulics
3/8 x 1	26780	27171K	Stop link to cable – Minute Mount® 2 System
3/8 x 3-1/4	26219		Clevis pin locates and retracts connecting pin – Minute Mount 2 System
1/2 x 1-9/16		26656K	Shoulder bolt and nut – trip spring assembly
1/2 x 2-1/2	28978	29037	Stop link to lift arm – Minute Mount 2 System
5/8 x 4-3/4		67921	Hitch pin – Blade wing extension (XtremeV™)
3/4 x 1-7/8		4289K	Lift arm to headgear pin
3/4 x 2-3/16		5523K	Base angle pin – MC Blade (original), EZ-V® Blade, HS Blade, HT Series™, L and M Blades
3/4 x 3-15/32		20639K	Base angle pin – MC Blade (original) "double ears" next to inner trip springs; A-frame to plow gear – Personal Plow
3/4 x 3-1/2		6990	Commercial EHP
13/16 x 24-1/2	20988		Pivot pin – EZ-V Blade
1 x 2-3/4	27227	27241	Base angle pin – MC Blade (current), XBLADE™ & XtremeV Snowplow
1 x 3-5/16	6814	7904K	Lift ram pin (lower only on Minute Mount 2 System; upper and lower on original Minute Mount® System); Push Assembly to lower gear – original Minute Mount system EZ-V Snowplow
1 x 3-5/16 HT (Heat Treated)	95720	29038	Upper lift ram pin – Minute Mount 2 System
1 x 4-1/16	6816	7903K	Angle ram pin at A-frame – noncommercial plows; base angle pin – MC Blade (current) "double ears" next to inner trip springs & XLS™ Blades
1 x 4-3/4	22260		Angle ram pin at blade – EZ-V, RD, HD, HT Series XtremeV & XLS Blades
1 x 6	6817	7905K	Pivot pin – L, HS Blades; angle rams – EZ-V Blade with blade stop
1 x 6-1/4	6815	6920K	Connecting pin w/handle – original Minute Mount System
1 x 6-13/16	26833	27168K	Connecting pin – Minute Mount 2 System
1 x 8	27979		Pivot pin – LD & SD Blades
1 x 8-11/16	22259		Pivot pin – LD Blade
1 x 15-13/16	26060		Pivot pin – M Blade
1 x 17-9/16	44028		Pivot pin – XtremeV Blade
1 to 3/4 x 2-1/2 (Stepped Pin)		27177K	A-frame to lower gear pin – Minute Mount 2 System
1-1/8 x 10-1/8	5022		Pivot pin – commercial tilt-hood headgear
1-1/4 x 3-1/16	26164		A-frame to headgear – MC Blade w/Minute Mount 2 System
1-1/4 x 4-9/16	5150		A-frame to lower gear – MC Blade; angle ram pin – commercial blades
1-1/4 x 5	20790		Angle ram pin – MC Blade
1-1/4 x 5-5/8	5142		Angle ram pin – MC Blade
1-1/4 x 6-21/32	20789		Pivot pin – MC Blade
1-1/2 x 4-3/8	5141		Hinge outer pin – Commercial Blade
1-1/2 x 7		5458	Commercial connecting pin – original Minute Mount System
1-1/2 x 8-1/2	7491		Hinge center pin – Commercial Blade
1-1/2 x 9-3/4	5149		Pivot pin – HC Blade
5/8 x 2	50651		XLS wing cylinder box end – rod end
5/8 x 3	50653		XLS wing cylinder anchor end – base end; HT Series lift cylinder – base end
1-1/8 x 9-1/2	50668		XLS pivot bolt w/nut
1/2-13 x 2-1/2	69669		HT Series lift cylinder rod end bolt G5
1 x 2-13/16	69666		HT Series base end pin angle ram shear pin
1-8 x 9	69667		HT Series pivot bolt w/nut G5
3/4 x 3-1/4	69607		HT Series A-frame to headgear

MISCELLANEOUS

"Dashed" Kit Numbers

Part	Description	Change
1213-1	Homesteader™ Mount – Ford Explorer	Redesigned to allow access to oil filter on V8 models
1533-1	Homesteader Mount – GM Trailblazer/Envoy	Redesigned rear brackets to accommodate '05 frame change
20703-1	A-Frame – MC	Added 2 chain tabs for lift chain to the end of A-frame
21484-1	EZ-V® Push Assembly	Added 1" to the width where drilling is required
21500K-1	Motor Assembly	New design multi-position motor with drain in cap
21696-1	MC Conversion A-Frame w/Hardware	Added 2 chain tabs for lift chain to the end of A-frame
21727-2	Pressure Control Breather	Design changed to reduce moisture ingress
21874-1	EZ-V A-Frame Assembly	Made bolt-together diagonal bracing a welded part
21874-2	EZ-V A-Frame Assembly	Made A-frame channel 1" wider
21874-3	EZ-V A-Frame Assembly	Updated hinge/weld on pivot tubes
22147-1	Valve Manifold Assembly	Added SAE O-ring ports
22150-1	Manifold Assembly	Added SAE O-ring ports
22155-1	Hydraulic Unit 4000 psi	Added SAE O-ring ports
22160-1	Hydraulic Unit 2500 psi	Added SAE O-ring ports
22470-1	LD/RD/HD Rubber Deflector Kit	Added hole to adapt for all L and M Blades
26018-1	Mini Strobe Light	Changed lens and flash tube
26020-1	Mini Bar Light	Changed lens and lamp
26047-2		Updated DRL information
26360-1	Plug-In Harness HB-3 & HB-4-A, Long	Installation instructions changed to accommodate new models
26361-1	Plug-In Harness HB-3 & HB-4-A, Short	Installation instructions changed to accommodate new models
26470-1	Isolation Module Tester	Added 3-Port test adapter (PN 29294) and instructions for 3-Port Isolation Module
26470-2	Isolation Module Tester	Literature change
26500-1	Central Hydraulics Control Harness Kit	Changed the battery cable to 61169 (was 8274)
26705-1	On-Truck Electrical Kit – Isolation Module	Added Adapter PN 29047 for 3-Port Isolation Module
26757-1	Minute Mount® 2 Lift Arm (yellow)	Added heat-treated clevis pin and revised stop link
27560-1	Minute Mount 2 Lift Arm (silver)	Added heat-treated clevis pin and revised stop link
26781-1	Suction Filter	Literature Change
26781-2	Suction Filter	Literature Change
26781-3	Suction Filter	Literature Change
26812-1	Plow Parka	Resized for Minute Mount 2 system w/INTENSIFIRE™ Headlamps
27086-1	Bulk Motor Relay Kit	Changed to 5794K-1 relay and decreased quantity from 50 to 48
27255-1	Minute Mount 2 MC Series A-Frame Kit	Moved A-frame and headgear attachment point to aid mounting
27480-1	Plug-In Harness Kit HB-3 & HB-4-A, White Label	Installation instructions changed to accommodate new models
27600-1	XBLADE™ Rubber Deflector Kit	Modified to fit 7-1/2'–9' XBLADE snowplows
27750-1	Minute Mount 2 LD Headgear Kit	Updated A-frame length to accommodate new LD blade (1-1/2" longer)
27968-1	Adapter Kit	Literature Change
27995-1	Minute Mount 2 LD A-Frame Kit	Updated A-frame length to accommodate new LD blade (1-1/2" longer)
28027-1	Adapter Kit	Added 3-Port module to instructions
28027-2	Adapter Kit	Reworked wiring to eliminate potential problems w/2007 GM Vehicles
28350-1	Lift Arm Service Kit	Added heat-treated clevis pin and revised stop link
28800-1	Headlamp Kit (Pair) w/ Harness	Added 3rd screw for rear cover
28801-1	Headlamp Kit (DS) w/o Harness	Added 3rd screw for rear cover
28800-1	Headlamp Kit (PS) w/o Harness	Added 3rd screw for rear cover
28860-1	Adapter Kit	Literature and Label Change
29056-1	Adapter Kit	Changed instructions and wire locations
29070-1	3-Port Module – DRL/Non-DRL	Module Change; Replaces 29060 & 29070
29290-1	Harness Kit Diagnostic	Modified to work with XtremeV™ and XLS™ blades
29294-1	Adapter Kit	Literature Change

MISCELLANEOUS

"Dashed" Kit Numbers

Part	Description	Change
29400-1	Plug-In Harness Kit	Changed H11 connector to also fit Toyota's H11 connector
29400-2	Plug-In Harness Kit	11-pin vehicle light harness with built-in 28027-2
29760-1	3-Port Isolation Module – Blue Label	New module covers DRL and non-DRL applications '08 Ford only
307-1	Shoe Spacer	Increased diameter
3713-1	Truck Mount – Jeep	Non "dash 1" kit does not fit 2002 models
3713-2	Truck Mount – Jeep	Clamping plates removed from bolt bag
31543-1	Truck Mount – GM Colorado/Canyon	Added Extension Bracket Kit PN 40734
44281-1	Back Drag Edge Kit	Added hole to match 4-piece cutting edge
44281-2	Back Drag Edge Kit	Added washers to bolt bag
44282-1	Back Drag Edge Kit	Added hole to match 4-piece cutting edge
44282-2	Back Drag Edge Kit	Added washers to bolt bag
44283-1	Back Drag Edge Kit	Added hole to match 4-piece cutting edge
44283-2	Back Drag Edge Kit	Added washers to bolt bag
44327-1	Reservoir Kit	Literature change
44329-1	Pump Kit	Literature change
44354-1	Plow Module	Service Part for both XtremeV™ & XLS™ Blades
44354-2	Plow Module	Software Change
44475-1	Blade Assembly – 7.5 blade	Changed to 4-piece cutting edge
44485-1	Blade Assembly – 8.5 blade	Changed to 4-piece cutting edge
44495-1	Blade Assembly – 9.5 blade	Changed to 4-piece cutting edge
44555-1	T-Frame	Overlapping holes eliminated; angle braces revised
44556-1	Push Assembly	Hole added to side plates making it compatible with -1 T-Frame
44600-1	Off-Truck Kit	Revised -1 T-Frame; push assy. & hardened steel pivot pin added
44610-1	Blade Wing Extension Kit	Redesigned wings
44650-1	Off-Truck Kit	Revised -1 T-Frame; push assy. & hardened steel pivot pin added
44675-1	Blade Assembly – 7.5 XtremeV Blade MS	Changed to 4-piece cutting edge
44685-1	Blade Assembly – 8.5 XtremeV Blade MS	Changed to 4-piece cutting edge
44695-1	Blade Assembly – 9.5 XtremeV Blade MS	Changed to 4-piece cutting edge
44740-1	3/8" x 6" x 7-1/2' XtremeV Cutting Edge	Revised to 4-Piece kit to improve anti-wear characteristics
44742-1	1/2" x 6" x 7-1/2' XtremeV Cutting Edge	Revised to 4-Piece kit to improve anti-wear characteristics
44741-1	3/8" x 6" x 8-1/2' XtremeV Cutting Edge	Revised to 4-Piece kit to improve anti-wear characteristics
44743-1	1/2" x 6" x 8-1/2' XtremeV Cutting Edge	Revised to 4-Piece kit to improve anti-wear characteristics
44744-1	1/2" x 6" x 9-1/2' XtremeV Cutting Edge	Revised to 4-Piece kit to improve anti-wear characteristics
44775-1	Blade Assembly – 7.5 XtremeV Blade SS	Changed to 4-piece cutting edge
44785-1	Blade Assembly – 8.5 XtremeV Blade SS	Changed to 4-piece cutting edge
44791-1	Xtreme V Parts Bag	
44795-1	Blade Assembly – 9.5 XtremeV Blade SS	Changed to 4-piece cutting edge
49258-1	Seal Kit Valve	SV08-2004, CV08
49259-1	Seal Kit Valve	SV08-30, 31 & 33
56831-1	Hose 1/4" x 36" w/FJIC Ends (Obsolete)	PN Consolidation; Literature & packaging change
5794K-1	Motor Relay Kit	Changed to heavier duty cycle
63827-1	Dodge 1500 Truck Mount	Added cross brace for trucks with factory-installed hitch
65605-1	Spreader Battery Kit	Added new starter relay kit
65605-2	Spreader Battery Kit	Added new 6-pin Tecumseh alternator harness
65605-3	Spreader Battery Kit	Update for Briggs & Stratton engine – charging wire
65990-1	Spreader Battery Kit Parts Bag	Support changes in 65605 kit
65990-2	Spreader Battery Kit Parts Bag	Added Briggs & Stratton wiring
66771-1	Sec. Manifold Assembly w/Coils, Cart. & Covers	Added SAE O-ring ports
66772-1	Sec. Manifold Assembly w/o Coils, Cart. & Covers	Added SAE O-ring ports
66773-1	Primary Manifold Assembly w/Coils, Cart. & Covers	Added SAE O-ring ports
66775-1	Primary Manifold Assembly w/o Coils, Cart. & Covers	Added SAE O-ring ports
66779-1	EZ-V® Hydraulic Unit	Added SAE O-ring ports

MISCELLANEOUS

"Dashed" Kit Numbers

Part	Description	Change
66860-1	Hopper Control Assembly	Added new ground harness
67040-1	Dodge Tailgate Spreader Mount	Revised to fit redesigned vehicle exhaust
67040-2	Dodge Tailgate Spreader Mount	Revised to fit redesigned vehicle rear spring shackle
67487-1	Dodge Tailgate Spreader Mount Rear Brkt – DS	Revised to fit redesigned vehicle rear spring shackle
67488-1	Dodge Tailgate Spreader Mount Rear Brkt – PS	Revised to fit redesigned vehicle rear spring shackle
68940-1	Engine Mount	Converted to in-line chute (made offset chute obsolete)
68941-1	Mild Steel Engine Base	Converted to in-line chute (made offset chute obsolete)
7146-1	Minute Mount® Pec. Attach. Kit – Topkick/Kodiak T50	Revised for Minute Mount® 2 MC headgear
7151-1	Minute Mount Peculiar Attachment Kit – Internat'l	Added additional notches for brake line clearance
7151-2	Minute Mount Peculiar Attachment Kit – Internat'l	Increased skid bar clearance for Minute Mount 2 MC headgear
7152-1	Minute Mount Pec. Attachment Kit – F700/F800	Increased skid bar clearance for Minute Mount 2 MC headgear
7154-1	Minute Mount Pec. Attach. Kit – Topkick/Kodiak T40	Increased skid bar clearance for Minute Mount 2 MC headgear
7156-1	Minute Mount Pec. Attachment Kit – Univ. Comm.	Increased skid bar clearance for Minute Mount 2 MC headgear
7159-1	Minute Mount Peculiar Attachment Kit – Ford	Added notch in DS pushplate to accommodate pitman arm
7159-2	Minute Mount Peculiar Attachment Kit – Ford	Adapted pushplates to accommodate change in diesel engine
7162-1	Minute Mount Peculiar Attachment Kit – Mitsu.	Redesigned trailing arm (recalled 7162 trailing arms)
7163-1	Minute Mount Peculiar Attachment Kit – Wrangler	Revised to accommodate 1999 frame bracket (replaced spacer)
7170-1	Minute Mount Peculiar Attachment Kit – Ram	Non "dash 1" kit does not fit diesel vehicles
7170-2	Minute Mount Peculiar Attachment Kit – Ram	Non "dash 2" kit does not fit Laramie package
74700-3	Hopper Spreader	Change to Briggs & Stratton engine
7629K-3	Relief Valve Repair Kit	Literature change
7632K-2	O-Ring/Backup Ring Kit	Added XLS™ hydraulic parts
7634K-1	Valve SV08-2004 w/Jam Nut	Literature change
7636K-1	Valve SV08-2004 w/Jam Nut	Literature change
7639K-1	Coil w/Spade Terminal	Literature change
8416-1	Common Light Kit – 9-Pin	Extended length of wire harness for Insta-Act® hydraulic unit
8430-1	Common Light Kit – 9-Pin Commercial	Extended length of wire harness for Insta-Act hydraulic unit
8437-1	Plug-In Harness Kit HB-3 & HB-4-A, Lt. Green	Wiring changes for 2004 Colorado/Canyon
8446-1	Minute Mount MC A-Frame Kit	Added 2 chain tabs for lift chain to the end of A-frame
8447-1	MC Conversion Attachment Kit	Added 2 chain tabs for lift chain to the end of A-frame
9027-1	Variable Speed Control (PWM)	Added 66413 adapter harness to back fit 3-wire harness
9390-1	ON/OFF Control (Boxed)	Added 66413 adapter harness to back fit 3-wire harness
94582-1	Baffle Hood	Changed for Briggs & Stratton engine
94699-1	Engine Cover	Changed for Briggs & Stratton engine
94700-1	PRO-CASTER™ Hopper Spreader	Converted to in-line chute (made offset chute obsolete)
94700-2	PRO-CASTER Hopper Spreader	Changed to chain drive
94700-3	PRO-CASTER Hopper Spreader	Changed for Briggs & Stratton engine
94701-1	PRO-CASTER Hopper Spreader	Converted to in-line chute (made offset chute obsolete)
94701-2	PRO-CASTER Hopper Spreader	Changed to chain drive
94703-1	PRO-CASTER Hopper Spreader	Converted to in-line chute (made offset chute obsolete)
94703-2	PRO-CASTER Hopper Spreader	Changed to chain drive
94704-1	PRO-CASTER Hopper Spreader	Converted to in-line chute (made offset chute obsolete)
94704-2	PRO-CASTER Hopper Spreader	Changed to chain drive
94706-1	PRO-CASTER Hopper Spreader	Converted to in-line chute (made offset chute obsolete)
94706-2	PRO-CASTER Hopper Spreader	Changed to chain drive
94706-3	PRO-CASTER Hopper Spreader	Changed for Briggs & Stratton engine
94707-1	PRO-CASTER Hopper Spreader	Converted to in-line chute (made offset chute obsolete)
94707-2	PRO-CASTER Hopper Spreader	Changed to chain drive
94708-1	PRO-CASTER Hopper Spreader	Converted to in-line chute (made offset chute obsolete)
94708-2	PRO-CASTER Hopper Spreader	Literature change
94709-1	PRO-CASTER Hopper Spreader	Converted to in-line chute (made offset chute obsolete)

MISCELLANEOUS

"Dashed" Kit Numbers

Part	Description	Change
94709-2	PRO-CASTER™ Hopper Spreader	Changed to chain drive
94709-3	PRO-CASTER Hopper Spreader	Changed to Briggs & Stratton engine
94710-1	PRO-CASTER Hopper Spreader	Converted to in-line chute (made offset chute obsolete)
94710-2	PRO-CASTER Hopper Spreader	Changed to chain drive
94711-1	PRO-CASTER Hopper Spreader	Converted to in-line chute (made offset chute obsolete)
94712-1	PRO-CASTER Hopper Spreader	Converted to in-line chute (made offset chute obsolete)
94712-2	PRO-CASTER Hopper Spreader	Changed to chain drive
94712-3	PRO-CASTER Hopper Spreader	Changed to Briggs & Stratton engine
94713-1	PRO-CASTER Hopper Spreader	Converted to in-line chute (made offset chute obsolete)
94714-1	PRO-CASTER Hopper Spreader	Converted to in-line chute (made offset chute obsolete)
94715-1	PRO-CASTER Hopper Spreader	Converted to in-line chute (made offset chute obsolete)
94716-1	PRO-CASTER Hopper Spreader	Converted to in-line chute (made offset chute obsolete)
94716-2	PRO-CASTER Hopper Spreader	Changed to chain drive
94717-1	PRO-CASTER Hopper Spreader	Converted to in-line chute (made offset chute obsolete)
94718-1	PRO-CASTER Hopper Spreader	Converted to in-line chute (made offset chute obsolete)
94718-2	PRO-CASTER Hopper Spreader	Changed to chain drive
94718-3	PRO-CASTER Hopper Spreader	Changed to Briggs & Stratton engine
94719-1	PRO-CASTER Hopper Spreader	Converted to in-line chute (made offset chute obsolete)
94719-2	PRO-CASTER Hopper Spreader	Changed to chain drive
94720-1	PRO-CASTER Hopper Spreader	Converted to in-line chute (made offset chute obsolete)
94721-1	PRO-CASTER Hopper Spreader	Converted to in-line chute (made offset chute obsolete)
94721-2	PRO-CASTER Hopper Spreader	Changed to chain drive
94722-1	PRO-CASTER Hopper Spreader	Converted to in-line chute (made offset chute obsolete)
94722-2	PRO-CASTER Hopper Spreader	Changed to chain drive
94723-1	PRO-CASTER Hopper Spreader	Converted to in-line chute (made offset chute obsolete)
94746-1	UTS 696 Stainless Steel Spinner Frame	Changed to octagonal-shaped frame
94747-1	UTS 696 Mild Steel Spinner Frame	Changed to octagonal-shaped frame
94748-1	UTS 696 Mild Steel Spinner Assembly	Changed to octagonal-shaped frame
94749-1	UTS 696 Stainless Steel Spinner Assembly	Changed to octagonal-shaped frame
94918-1	Stainless Steel Engine Base	Converted to in-line chute (made offset chute obsolete)
94940-1	PRO-CASTER Hopper Spreader	Converted to in-line chute (made offset chute obsolete)
94952-1	Engine Cover	Baffle change for Briggs & Stratton engine
95350-1	PRO-CASTER Hopper Spreader	Converted to in-line chute (made offset chute obsolete)
95350-2	PRO-CASTER Hopper Spreader	Changed to chain drive
95350-3	PRO-CASTER Hopper Spreader	Changed to Briggs & Stratton engine
95351-1	PRO-CASTER Hopper Spreader	Converted to in-line chute (made offset chute obsolete)
95351-2	PRO-CASTER Hopper Spreader	Changed to chain drive
95352-1	PRO-CASTER Hopper Spreader	Converted to in-line chute (made offset chute obsolete)
95353-1	PRO-CASTER Hopper Spreader	Converted to in-line chute (made offset chute obsolete)
95353-2	PRO-CASTER Hopper Spreader	Changed to chain drive
95353-3	PRO-CASTER Hopper Spreader	Changed to Briggs & Stratton engine
95354-1	PRO-CASTER Hopper Spreader	Converted to in-line chute (made offset chute obsolete)
95354-2	PRO-CASTER Hopper Spreader	Changed to chain drive
95355-1	PRO-CASTER Hopper Spreader	Converted to in-line chute (made offset chute obsolete)
95424-1	Chute Assembly	Removed output guards (no longer needed)
95425-1	Chute Assembly	Removed output guards (no longer needed)
95426-1	Chute Assembly	Removed output guards (no longer needed)
95427-1	Chute Assembly	Removed output guards (no longer needed)
95755-1	POLY-CASTER™ Motor, 1/2 HP	Changed motor to Canimex motor (SS)
95757-1	Conveyor Belt	Revised to 4 cleats
95770-1	Belt Guard-Side	Revised to extend the whole length of the sill

MISCELLANEOUS

"Dashed" Kit Numbers

Part	Description	Change
95796-1	Pulley, 4.5" x .750 Bore	Changed material to steel
95847-1	Top Screen	Changed to finer mesh
95931-1	Poly Hopper Lid (DS)	Revised to include molded handles
95932-1	Poly Hopper Lid (PS)	Revised to include molded handles
96001-1	Poly Hopper Spreader	Without spinner assembly
96380-1	Top Screen Brace	Threaded holes to accept wing bolts
9825-1	Insta-Act® LD Hydraulic Unit (2500 psi)	Added low-friction rams, SAE porting, JIC hoses and fittings
9828-1	Insta-Act EZ-V® Hydraulic Unit	Added new seals for double-acting rams
9828-2	Insta-Act EZ-V Hydraulic Unit	Added low-friction lift ram
9828-3	Insta-Act EZ-V Hydraulic Unit	Added low-friction rams, SAE porting, JIC hoses and fittings
9828-4	Insta-Act EZ-V Hydraulic Unit	Removed control
9835-1	Insta-Act MC Hydraulic Unit (3500 psi)	Added low-friction lift ram
9840-1	Insta-Act RD/HD Hydraulic Unit (4000 psi)	Added low-friction lift ram
9840-2	Insta-Act RD/HD Hydraulic Unit (4000 psi)	Added low-friction rams, SAE porting, JIC hoses and fittings



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