

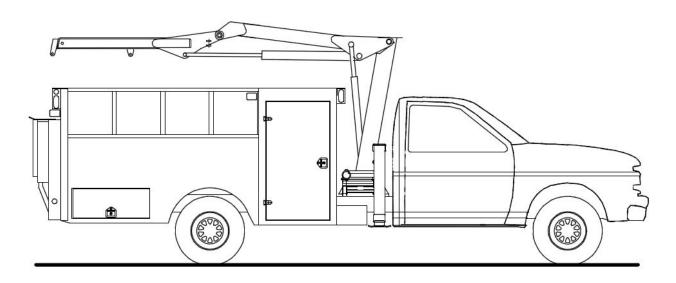
PARTS AND SPECIFICATIONS

SECTION 1. SPECIFICATIONS SECTION SECTION 2. BODY COMPONENTS

SECTION 3. AIR SYSTEM COMPONENTS SECTION 4. ELECTRICAL COMPONENTS

SECTION 5. LIFTGATE

SECTION 6. CALCIUM CHLORIDE SYSTEM



IOWA MOLD TOOLING CO., INC.

BOX 189, GARNER, IA 50438-0189 CUSTOMER SERVICE TEL: 1-800-554-4421

> MANUAL PART NO: 99903299 Revised: May 12, 2021

Iowa Mold Tooling Co., Inc. is an Oshkosh Corporation Company.

FROM FALL 2010 TO PRESENT

REVISIONS LIST

DATE	LOCATION	DESCRIPTION OF CHANGE
20020416	ALL	MANUAL RELEASE - COMBINED PREDATORS
20020416	3-12	ADDED 52715970, NEW AIR TANK DRAIN ASM.
20020520	3-12	ECN 8923 - 52715970 CHANGED FOR 8511, 52717633 ADDED FOR 8513
20020828	2-13-15, 3-10	NEW DRAWER ASSEMBLIES
	3-1-7, 14	ECN 8985 - UPDATED AIR SYSTEM
	3-11,12	ECN 8991 - NEW HOSE REELS
00004404	4-2 - 8	ECN 8959R1 - UPDATED ELECTRICAL SYSTEM
20021121	3B-27	ADDED BLOWDOWN INFO. TO COMP. TROUBLESHOOTING CHART
20021204 20021230	2-13 - 2-18 3B-6	ECN 9023 - PAINTED DRAWERS ON BODY ECN 9090 - 99903452 AIR END ASM CHANGES
20021230	3B-32	ECN 9090 - 99903432 AIN END ASM CHANGES ECN 9015-ADDED NEW PTO OPTION FOR FORD 6.0L TRANSMISSIONS
20030129	3B-12	ADDED SUB-ZERO TEMPERATURE OP. INSTR. TO COMPRESSOR SECTION
20030310	2-9,10	ECN 9151 - MOVED ROD GUIDES TO BODY ASM FROM DOOR
	2-20	ECN 9077 - ADDED 51717984 TIRE TOOL TO MANUAL
	3B-33	ECN 9140 - CORRECTED PTO PART NO - WAS 70570579, SHOULD HAVE BEEN 70570576
20030408	3B-30,31	ECN 9161 - UPDATED DECALS 70396160, 70396166 AND REPLACED 70395315 (P. 31) WITH
20020505	0.40	70396381
20030505	2-10 3-7	CORRECTED PART NO. ON 52715712, DOOR WLDMT ITEM #5 (CORRECT NO. 52717859) ECN 9157 - ADDED CURRENT HOSE REEL KIT 51706347
	3B-7,33	ECN 9172 - ADDED BOLT TO PANEL ASM; CHANGED DESC OF FORD MANUAL ON PTO CHART
20030605	3-1,4,7	ECN 9157-1 - CHANGE REELS FROM REELCRAFT TO HANNAY
20030620	3B-33	CHANGES TO PTO/DRIVELINE KITS
	4-3,6	ECN 9195 - NEW FORD 2002 WIRING COLORS
20030707	4-6	ECN 9195 - CORRECTED REVERSED WIRING COLORS
20030718	5-13	ADDED 71410461 BUSHINGS TO LIFTGATE REPLACEMENT PARTS
20030731 20030825	3B-25 3B-6	ADDED PTO/ENGINE DISENGAGE NOTE ECN9214 - UPDATE TO 99903452
20030625	3B-10	ECN 9229 - UPDATE TO 99903411
	3B-34	ECN 9222 - UPDATE TO VALUE PLUS 8500 KIT
20030929	3B-33	ECN 9254 - CHANGE TO PTO ON ALLISON ENGINE, NEW DRIVELINE FOR GMC 4500/5500 W ALL.
	6-7	ECN 9000 - REORIENTED FITTINGS ON 51716138
20031105	3B-33	ECN 9284 - ADDED 51718358 TO PTO & DRIVELINE CHART
20031215	iii	ADDED COMPRESSOR PARTS TO CRITICAL PARTS LIST
20040126	1-3 2-5	UPDATED SPECIFICATIONS TO INCLUDE VARIOUS CHASSIS ECN 9248 - COOOLER AND HOSES ON INSTALLATION 41715869-1
20040412	3B-7,33	ECN 9390 - ADDED 51718525 FREIGHTLINER M2 WITH ALLISON 1000 TO COMPRESSOR INSTALL
20040504	3B-33	ECN 9410 - ADDED CHEVY 4500/5500 WITH DURAMAX TO COMPRESSOR INSTALL
20040520	4-2	ECN 9428 - CHANGE TO 41715741-1
	3B-3-5,8	ECN'S 9492 & 9435 - CHANGE TO 51717794 PANELASM AND ADDED NOTE TO 99903453
0004000	6-2,3	ECN 9463 - ADDED #23 BUSHING TO 41715803
20040909	3-2 4-12-16	ECN 9532 - NEW HOSE ROUTING FROM FLR 51715850 ECN 9536 - ADDED ALLISON 3000/4000 INTERFACING
20050321	3-2,3,4	ECNs 9607, 9608 - NEW RUNNING BOARD 93029608; UPDATE TO FLR 51715850
20050601	3B-3-5; 4-12 THRU 16	ECN 9792 - CHANGE TO 51717794; ECN 9673 - CHANGE TO 99903409
	3B-34; 2-11,12	ECN 9736 - CHANGE TO PM KIT AND DECAL
20051018	2-3,4,24	ECN 9788 - ADDED MOUNTING SHIMS TO 93715374 AND 93715720 INSTALL KITS, ADDED
	4.0 TUDU 4.0	99903710 FULE FILL DRAWING
20060224	1-6 THRU 1-8 3B-3-9	UPDATED WEIGHTS FOR EMPTY UNITS W/BODY & CRANE ECN 9985 - RELOCATED MIN PRESSURE VALVE; ADDED DA440HT COMPRESSOR INSTALLATION
20060620	3B 3-5, 34	ECN 10129 - BOM CHANGE ON 51717794; ECN 10146-ALLISON PTO & DRIVELINE FITTING CHG
20060718	2-8, 3B-9	ECN 9000 - ADDED INSTALLATION DWG 99904044, UPDATE TO 99903908
20061127	3B-34	Added Fuller chassis information to PTO Driveline Installation chart (ETO Job)
20070613	ii, 2-9,10; 3-6,	ECN 10370 - New door latch; Added 99904243 cab caddy bracket drawing
20070802	2, 3B	ECN 10336 - Removed compressor from Predator manual, created individual manuals for cmpsrs.
20080103	2-9,10,14-16 2-17-19	ECN 10638 - Removed lock from drawers. Added serial number note to pages 9-10. ECN 10626 - Added 60131205 bracket to drawer sets.
20080220	2-17-19	ECN 10654 - Updated CAS440HU installation 99903962.
20080807	2-27; 3-7,10; 6-2	ECN 10746 - Replaced clamp 72066000 with 72661657 and added 99904411 stepless ear clamp
		installation.
20080904	2-25, 27, 28	ECN 10844 - Added 51721788 fuel fill kit part number; ECN 10841 - Updated sheet 2 of 99903962.
20081022	5-13	Corrected bushing 71410461 location.
20081113	2-31 5-13	ECN 10896 - Added 99904497 compressor panel assembly drawing. Added 90734401 latch tab kit part number.
20090723	2-31	ECN 11060 - Changed compressor plumbing.
20100903	Specifications, Body	ECN 11256 - Predator design upgrades
20101203	Section 2	ECN 11256-1 - New compartments from design upgrade (Effective SN PRED101016).
20110623	1-5; 2-18-20,29-30;	ECN 11500 - Predator assembly clarification
00400000	3-4-7	FCN 4474 44740 Undeted penal accombination 44747744 to 44704070
20120808	4-2 to 4-6	ECN 1171, 11740 - Updated panel assembly from 41715741 to 41724679
20130617	4-2	Engineering mark-up; item 22 41724679 to 41724623
20131204	6-2	Added items 57 and 58 per engineering mark-up
20140630	4-2 to 4-6	ECN 12227-1 – Updated prints and BOM
20151116	41724679	CN112_ ADDED 60128133

DATE	LOCATION	DESCRIPTION OF CHANGE
	99906123	
20161014	99906122	CN464-1 2017 FORD CHASSIS CHANGES
	99906124	
20190523	99906462	CN971-Installation, Predator convert floods to LED.
20200109	99903299	Incorrect Part Number: was 72661386 s/b 72661383
20200821	51744237	CN1011

PARTS ORDERING INFORMATION

Before placing an order, take the time to record the following information. This information should then be given to an IMT representative when placing your order.

BODY MODEL NUMBER:

BODY SERIAL NUMBER:

PART NUMBER, DESCRIPTION AND QUANTITY REQUIRED:

If left or right side is applicable, please specify.

Contact IMT at the following address: IOWA MOLD TOOLING CO., INC.

BOX 189, GARNER, IA 50438-0189

CUSTOMER SERVICE TEL: 1-800-554-4421

CRITICAL WEAR PARTS AVAILABILTIY

Your Predator has designated critical maintenance and repair parts that can be shipped from IMT on the next business day or sooner. Listed below are the designated parts. When ordering these as needed please advise the customer service representative that you need these shipped the next day or sooner.

NOTE: These critical wear parts are used on units built after Fall 2010.

BODY ASSEMBLY

CRANE ASSEMBLY

DOD : 7 (DOL:		5.6 t. 12, 13 G L t. 12			
P/N	DESCRIPTION	P/N	DESCRIPTION		
70073310	FRL assembly	70733882	Wireless crane remote transmitter		
70048206	Air filter	70733921	Wireless crane remote receiver		
72661599	Door latch - 3 point (Eff 5/07)	90718836	Wireless crane control kit		
70733731	Hose reel - curbside application	70145624	Valve section / coil		
70733732	Hose reel - streetside application	70145858	Proportional valve		
77040408	Wireless light control transmitter	70145626	Proportional valve coil		
77040407	Wireless light control receiver	9B101414	Cylinder seal kit, inner cylinder		
77040444	Strobe headlight assembly	9C141820	Cylinder seal kit, outer cylinder		
77040465	Strobe headlight bulb	9B101220	Cylinder seal kit, extension cyl		
77040445	Strobe light power control unit	73540049	C'balance valve, 4:1 vented		
77040384	Compartment light	73054304	C'balance valve, 7:1 non-vented		
70048015	Gauge-press air 300# Cntr mnt	73054004	Check valve (extension cyl)		
70048036	Gauge-press air 300# Btm mnt	73540052	C'balance valve, 1.75:1 non-vented		
		73540060	Needle valve		
		71073920	Swivel hook		

TORQUE DATA CHART

FINE THREAD BOLTS

COARSE THREAD BOLTS

							<u> </u>					
		TIGHTENING TORQUE			П			Т	IGHTENIN	IG TORQI	JE	
			J429 DE 5	SAE					SAE		SAE	
SIZE (DIA-TPI)	BOLT DIA (INCHES)	PLAIN (FT-LB)	PLATED (FT-LB)		PLATED (FT-LB)		SIZE (DIA-TPI)	BOLT DIA (INCHES)	PLAIN (FT-LB)	PLATED (FT-LB)		PLATED (FT-LB)
5/16-24	0.3125	19	14	27	20	П	5/16-18	0.3125	17	13	25	18
3/8-24	0.3750	35	26	49	35		3/8-16	0.3750	31	23	44	33
7/16-20	0.4375	55	41	78	58		7/16-14	0.4375	49	37	70	52
1/2-20	0.5000	90	64	120	90	П	1/2-13	0.5000	75	57	105	80
9/16-18	0.5625	120	90	170	130	П	9/16-12	0.5625	110	82	155	115
5/8-18	0.6250	170	130	240	180	П	5/8-11	0.6250	150	115	220	160
3/4-16	0.7500	300	225	420	315	П	3/4-10	0.7500	265	200	375	280
7/8-11	0.8750	445	325	670	500	П	7/8-9	0.8750	395	295	605	455
1-12	1.0000	645	485	995	745	П	1-8	1.0000	590	445	910	680
1 1/8-12	1.1250	890	670	1445	1085	П	1 1/8-7	1.1250	795	595	1290	965
1 1/4-12	1.2500	1240	930	2010	1510		1 1/4-7	1.2500	1120	840	1815	1360
1-3/8-12	1.3750	1675	1255	2710	2035		1-3/8-6	1.3750	1470	1100	2380	1780
1 1/2-12	1.5000	2195	1645	3560	2670		1 1/2-6	1.5000	1950	1460	3160	2370

NOTES

1 Tightening torques provided are midrange.

Consult bolt manufacturer's particular specifications, when provided.

Use flat washers of equal strength.

All torque measurements are given in kilogram-meters.

Torque values specified are for bolts with residual oils or no special lubricants applied. If special lubricants of high stress ability, such as Never-Seez compound graphite and oil, molybdenum disulphite, collodial copper or white lead are applied, multiply the torque values in the charts by the factor .90. The use of Loctite does not affect the torque values listed above.

WARNING

Anytime a gear-bearing bolt is removed, it must be replaced with a new bolt of the identical grade and size. Once a bolt has been torqued to 75% of its proof load and then removed, the torque coefficient may no longer be the same as when the bolt was new thus giving indeterminate clamp loads after torquing. Failure to replace gear-bearing bolts may result in bolt failure due to metal fatique causing serious injury or DEATH.

SECTION 1. SPECIFICATIONS

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	NOTES
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SPECIFICATIONS Models 8511, 8513, 8516 Commercial Fleet Body

GENERAL SPECIFICATIONS	Model 8511	Model 8513	Model 8516
CHASSIS CAB-TO-AXLE (CA) (* Distance	84 - 88" * (213.4 -	84 - 88" * (213.4 -	120" (305 cm)
dependent on chassis model)	223.5 cm *)	223.5 cm *) (w/o	
		crane)	
		108" (274.3 cm) (with	
		crane)	
CHASSIS GVWR	17,500 lb (7937 kg)	15,000 lb (6805 kg)	19,000 lb (8618 kg)
BODY CUBIC CAPACITY	259 ft ³ (7.33 m ³)	309 ft³ (8.75 m³)	403 ft ³ (11.41 m ³)
TIRE HAULING CAPACITY			
Tire Size 11R22.5	20 tires	24 tires	33 tires
Tire Size 33.25-29	2 tires	2 tires	2 tires
LIFTGATE CAPACITY	1600 lb (725 kg)	1600 lb (725 kg)	1600 lb (725 kg)

COMPARTMENT SPECIFICATIONS	Model 8511	Model 8513	Model 8516			
LEFT FRONT COMPARTMENT (A) (Air reels,	All models					
tools)	63"H X 36"W X 23.5"D (160 X 91.4 X 59.7 cm)					
,	30.84 ft ³ (0.87 m ³)	,	,			
LEFT FRONT COMPARTMENT EXTENSION (C)	9"H X 14"W X 18"D	19"H X 22" W X 23"D	19"H X 22" W X 23"D			
(Tire bars, tools)	(22.9 X 35.6 X 45.7	(48.3 X 55.0 X 58.4	(48.3 X 55.0 X 58.4			
	cm)	cm)	cm)			
	1.31 ft ³ (.04 m ³)	5.56 ft³ (0.15 m³)	5.56 ft³ (0.15 m³)			
RIGHT FRONT COMPARTMENT (B) (Storage,	All models					
drawers)) (160 X 91.4 X 59.7 cm	1)			
	30.84 ft ³ (0.87 m ³)					
	I	T				
RIGHT FRONT COMPARTMENT EXTENSION	9"H X 14"W X 18"D		19"H X 22" W X 23"D			
(D) (Blocks, tools)	(22.9 X 35.6 X 45.7	(48.3 X 55.0 X 58.4	(48.3 X 55.0 X 58.4			
	cm)	cm)	cm)			
	1.31 ft ³ (0.04 m ³)	5.56 ft³ (0.15 m³)	5.56 ft³ (0.15 m³)			
LEFT REAR COMPARTMENT (E) (Tool storage)	All models					
(2) (1991 storage)	15"H X 40"W X 21"D (38.1 X 101.6 X 53.3 cm)					
	7.29 ft ³ (0.21 m ³)					
	,					
RIGHT REAR COMPARTMENT (F) (Tool	All models					
storage)	15"H X 40"W X 21"D (38.1 X 101.6 X 53.3 cm)					
	7.29 ft³ (0.21 m³)					
RIGHT REAR JACK BOX (G) (optional) (Jack	All models					
storage, torque)	10.25"H X 16"W X 50"D (26.0 X 40.6 X 127 cm)					
	4.74 ft ³ (0.13 m ³)					
		T	T			
CARGO/PAYLOAD AREA (H) (Tires, rims,	41"H X 95"W X	41"H X 95"W X	41"H X 95"W X			
payload)	127.5"D (104.1 X	149.5"D (104.1 X	191.5"D (104.1 X			
Note: Compartment dimensions are nominal.	241.3 X 323.8 cm)	241.3 X 379.7 cm)	241.3 X 486.4 cm)			
inote. Compartment dimensions are nominal.	76.12 ft² (7.07 m²)	90.63 ft ² (8.42 m ²)	120.53 ft ² (11.20 m ²)			

IMT reserves the right to change specifications and design without notice.

IOWA MOLD TOOLING CO., INC.

BOX 189, GARNER, IA 50438-0189 TEL: 641-923-3711 TECHNICAL SUPPORT FAX: 641-923-2424

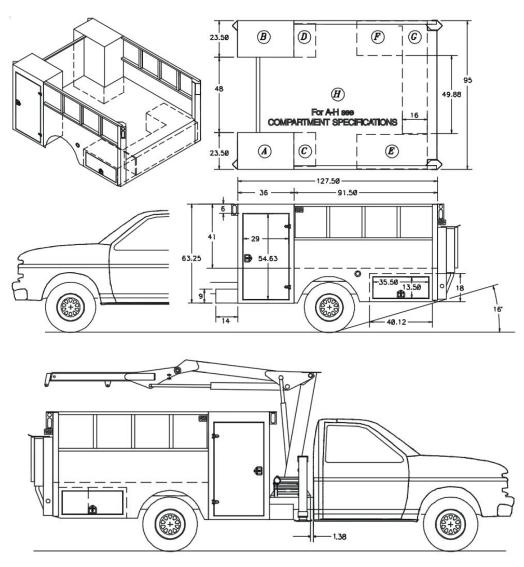
STANDARD FEATURES

- 1/2" x 50' hose reel (2)
 1/2" moisture separator/regulator/oiler
- · Amber strobe light each corner
- · Four 12V floodlights
- · Four compartment lights
- · Back-up alarm
- · ICC safety kit
- Hour meter
- Adjustable shelving
- · Wireless controlled lights
- · Compartment weatherproofing
- Black composite T-handle latches
- · Stainless steel hinges
- · Body mounting kit
- · Integrated electrical control system
- Automotive style wiring harness
- Truck-Lite® light and reflector kits
- · Rubber matting on compartment floors and shelves

OPTIONAL EQUIPMENT

- · Cab caddy
- Commercial fleet tool package
- Dual 1/2" air line coupler plumbing
- 400 gallon portable calcium chloride system
- Liftgate side rail and tire stop
- Two-bar fold-up tire inflation cage with body installed carrying bracket and 6' inflation hose
- Customer identification
- Rack extension kit to 72" high

IMT reserves the right to change specifications and design without notice.

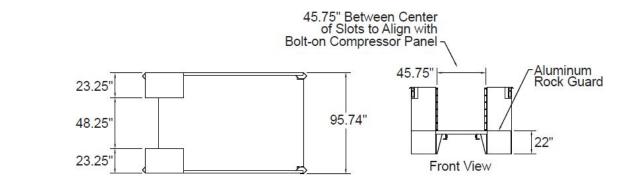


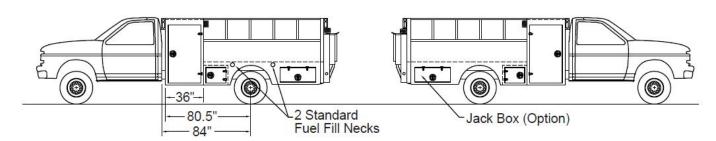
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- · Four compartment lights
- Back-up alarm
- ICC safety kit
- Hour meter
- · Adjustable shelving
- · Wireless controlled lights
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- · Rubber matting on compartment floors and shelves

OPTIONAL EQUIPMENT

- Cab caddy
- Commercial fleet tool package
- Dual 1/2" air line coupler plumbing
- 400 gallon portable calcium chloride system
- Liftgate side rail and tire stop
- Two-bar fold-up tire inflation cage with body inst alled carrying bracket and 6' inflation hose
- Customer identification
- · Rack extension kit to 72" high





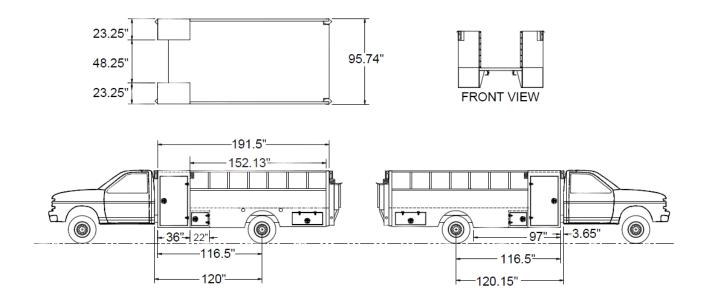
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STANDARD FEATURES

- 1/2" x 50' hose reel (2)
 1/2" moisture separator/regulator/oiler
 Amber strobe light each corner
- Four 12V floodlights
- Four compartment lights
- Back-up alarm
- ICC safety kit
- Hour meter
- Adjustable shelving
- · Wireless controlled lights
- Compartment weatherproofing Black composite T-handle latches
- Stainless steel hinges
- Body mounting kit
- · Integrated electrical control system
- Automotive style wiring harness
 Truck-Lite® light and reflector kits
- · Rubber matting on compartment floors and shelves

OPTIONAL EQUIPMENT

- Cab caddy
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 Dual 1/2" air line coupler plumbing
- 400 gallon portable calcium chloride system
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- Two-bar fold-up tire inflation cage with body installed carrying bracket and 6' inflation hose
- Customer identification
- Rack extension kit to 72" high

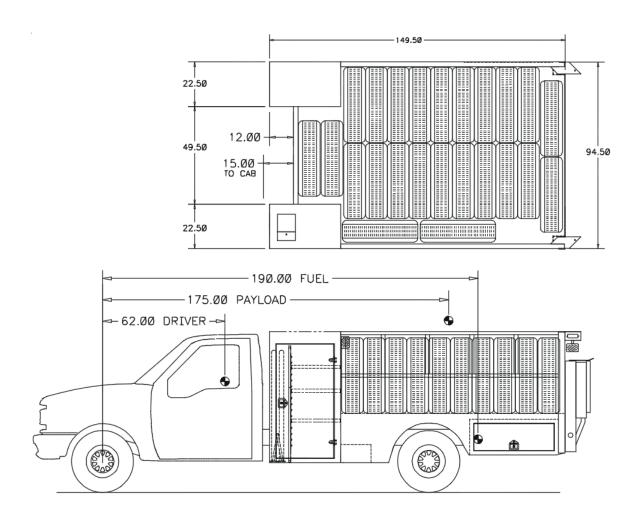


CHASSIS INFORMATION-F350

CHASSIS MAKE & MODEL	FORD SUPER DUTY F350
CHASSIS MODEL YEAR	2000
WHEELBASE	164.80"
CAB TO AXLE	84.00"
GVW RATING	12,500 LBS
FRONT AXLE RATING	4,850 LBS
REAR AXLE RATING	8,600 LBS

WEIGHT DISTRIBUTION

CTR LINE	COMPONENT	COMPONENT	WT ADDED	WT ADDED
LOCATION	DESCRIPTION	WEIGHT	FRONT AXLE	REAR AXLE
	EMPTY UNIT WT W/BODY & CRANE	9,010	3,860	5,150
A	DRIVER	250	156	94
В	FUEL (38 GAL)	266	-41	307
С	PAYLOAD	2,688	-166	2,854
	COMPLETED UNIT WEIGHT	12,214	3,809	8,405

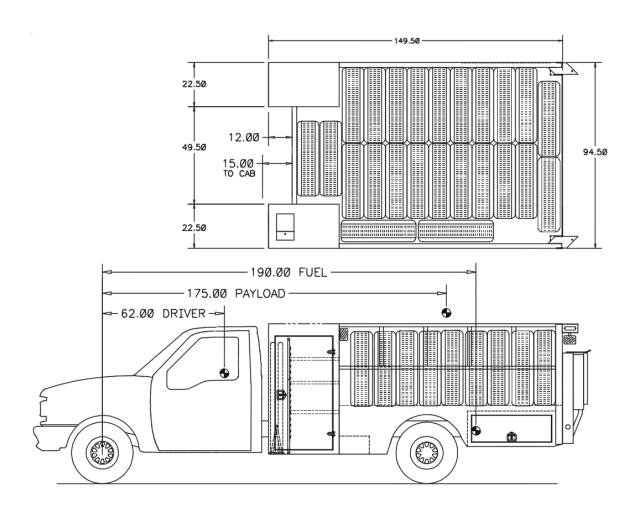


CHASSIS INFORMATION-F450

CHASSIS MAKE & MODEL	FORD SUPER DUTY F450
CHASSIS MODEL YEAR	2000
WHEELBASE	164.80"
CAB TO AXLE	84.00"
GVW RATING	15,000 LBS
FRONT AXLE RATING	5,790 LBS
REAR AXLE RATING	10,880 LBS

WEIGHT DISTRIBUTION

CTR LINE	COMPONENT	COMPONENT	WT ADDED	WT ADDED
LOCATION	DESCRIPTION	WEIGHT	FRONT AXLE	REAR AXLE
	EMPTY UNIT WT W/BODY & CRANE	9,010	3,980	5,420
A	DRIVER	250	156	94
В	FUEL (38 GAL)	266	-41	307
С	PAYLOAD	2,688	-166	2,854
	COMPLETED UNIT WEIGHT	12,604	3,929	8,675
	REMAINING AVAILABLE PAYLOAD	2,076	-129	2,205
	TOTAL VEHICLE WT W/MAX PAYLOAD	14,680	3,800	10,880

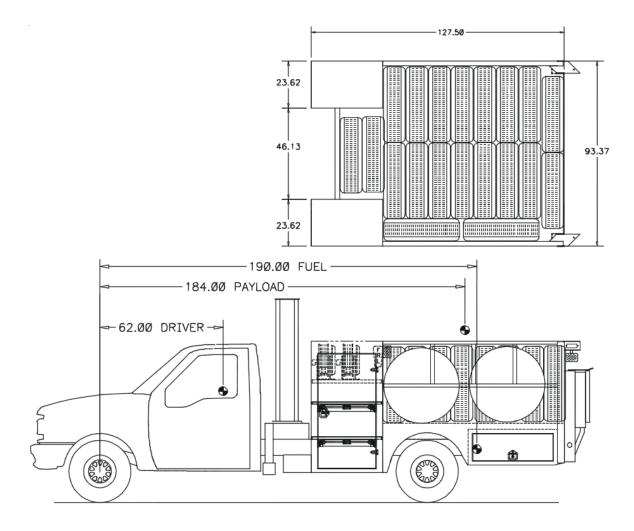


CHASSIS INFORMATION-F550

CHASSIS MAKE & MODEL	FORD SUPER DUTY F550
CHASSIS MODEL YEAR	2000
WHEELBASE	164.80"
CAB TO AXLE	84.00"
GVW RATING	17,500 LBS
FRONT AXLE RATING	6,000 LBS
REAR AXLE RATING	13,500 LBS

WEIGHT DISTRIBUTION

CTR LINE	COMPONENT	COMPONENT	WT ADDED	WT ADDED
LOCATION	DESCRIPTION	WEIGHT	FRONT AXLE	REAR AXLE
	EMPTY UNIT WT W/BODY & CRANE	11640	4630	7010
Α	DRIVER	250	156	94
В	FUEL (38 GAL)	266	-41	307
С	PAYLOAD	2240	-261	2501
	COMPLETED UNIT WEIGHT	14396	4484	9912
	REMAINING PAYLOAD AVAILABLE	3104	-362	3466
	TOTAL VEHICLE WT W/MAX PAYLOAD	17500	4122	13378



SERIAL NUMBERS PRED991001 TO PRESENT

SECTION 1 - SPECIFICATIONS

SECTION 2. BODY COMPONENTS

INSTALLATION KIT-18,000 GVW (93715374) – 85112-9
INSTALLATION KIT-18,000 GVW (93715720) - 8513 – 8516
INSTALLATION KIT-19,500 GVW (93716272) – 8511
INSTALLATION KIT-19,500 GVW (93716273) - 8513-8516
INSTALLATION-BODY/FORD SUPER-DUTY (41715869-1)
INSTALLATION REFERENCE DWG-CRANE BASE/BODY2-7
INSTALLATION-BODY/CRANE/FORD SUPER-DUTY (41715869-2) -8511 2-8
INSTALLATION-BODY/CRANE/FORD SUPER-DUTY (41715869-3) - 85112-9
INSTALLATION KIT-PREDATOR 8516/FORD SUPER-DUTY (99904044) 2-10
INSTALLATION DW - DUAL FUEL TANKS - FORD SUPERDUTY (99903407) 2-11
FUEL FILL, CHEVY/GMC (99903710)
COMPARTMENT NOTCH, PREDATOR ON 2011 DODGE CHASSIS (99904915) 2-13
INSTALLATION, DEF TANK HOSES ON 2011 FORD F550 (99904938)
HYD INSTALL, PRED ON FORD 2011 4X2 CHASSIS WITH
CRANE AND COMPRESSOR (99905027)
BODY ASM-W/CRANE (REF 51715371) – 8511
BODY ASM-W/O CRANE (REF 51715711) – 85132-17
BODY ASSEMBLY-ADD'L TOP-DECK COMPARTMENTS (99904959) - 8511 2-18
BODY ASSEMBLY-ADD'L TOP-DECK COMPARTMENTS (99904391) - 8513 2-19
BODY ASSEMBLY-ADD'L TOP-DECK COMPARTMENTS (99904960) - 8516 2-20
BODY ASSEMBLY-ADD'L UBTB COMPARTMENTS (99904961) - 8516 2-21
CALCIUM CHLORIDE BACK W/ADD'L TOP DECK COMPTS (99904962) 2-22
COMPARTMENT DOORS, PRED 8513 W/ CAS440HU (99904964)2-23
DECAL KIT (51715853) – 8513
DECAL KIT (51715852) – 8511
DRAWER ASM 1-3" H X 26" W X 16" D SGL PULL (51715842) 2-26
DRAWER ASM 2-3" H X 26" W X 16" D SGL PULL (51715864) 2-27
DRAWER ASM 2-3" H X 13" W X 16" D SGL PULL (51716628)
SHELF PACKAGE - PREDATOR W/O CaCl2 SYSTEM (99905227)2-29
SHELF PACKAGE - PREDATOR W/O CaCl2 SYSTEM (99905228)2-30
SHELF - PREDATOR W/ CaCl2 SYSTEM (51715868)
I.C.C. SAFETY KIT (92091010)
RACK EXTENSION KIT-72" (51715984) – 8513
TIRE INFLATION / PRESSURE CHECK TOOL ASM (51717984)
CAS440HT COMPRESSOR INSTALLATION (99903908)2-34
CAS440HU COMPRESSOR INSTALLATION (99903962-1)
CAS440HU COMPRESSOR INSTALLATION (99903962-2)
CAS440HU COMPRESSOR INSTALLATION (99903962-3)2-37
CAS440HU COMPRESSOR INSTALLATION (99903962-4)
PANEL ASSEMBLY, CAS440HU COMPRESSOR (99904497)2-39

NOTES	
	_
	_

2019 RAM BODY INSTALLATION KIT



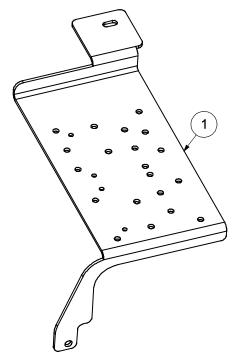
RAM fuse panel under IMT Electric panel.

Mounting hole in LH Battery Mount. Use .25" fastener to mount IMT panel.



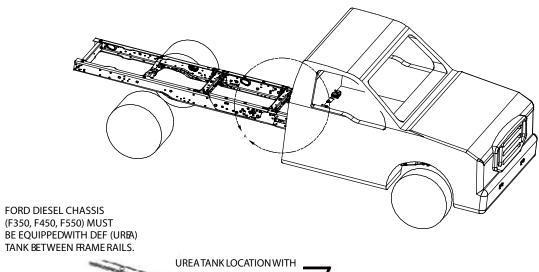
Fastener on left front of RAM Fender

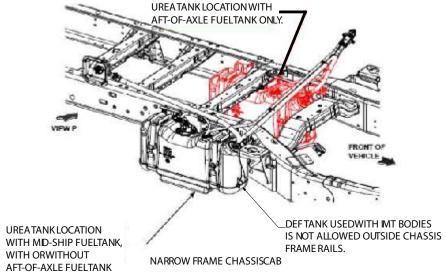
Supply enough additional harnessing so if the RAM fuse panel is to be accessed, this IMT electric panal can be dismounted and set off to the side.



ITEM NO.	PART NO.	DESCRIPTION	QTY.	
1.	60251867	BRACKET-EFM DOM II SERIES II RAM 2019	REF	
REV. INITIAL RELEASE				

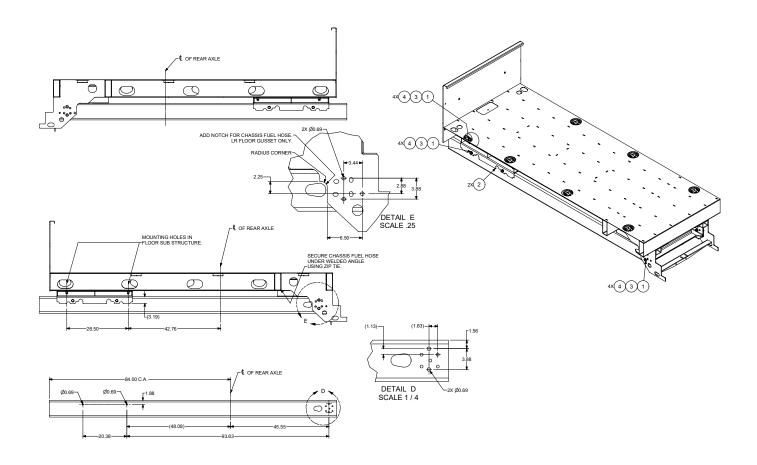
BODY INSTALLATION KIT





DETAIL A

2019 Chevy / IH CV Chassis Installation (99906409)

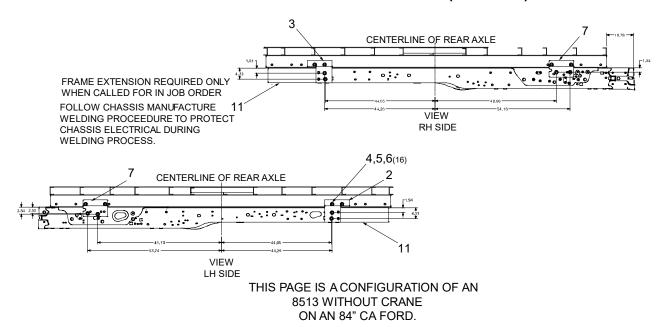


99906409 PARTS LIST			
ITEM NO.	PART NO.	DESCRIPTION	QTY
1	72063119	WASHER .62 FLAT ASTM F436	1
2	52727583	BRACKET-BODY FRT DOM1 84CA CHEVY/IH CV	2
3	72060151	CAP SCR .62-11X 2.00 HH GR8 Z	3
4	72601859	NUT .62-11 HEX GR8 YZ NYLOCK	4

REV. A 20190320

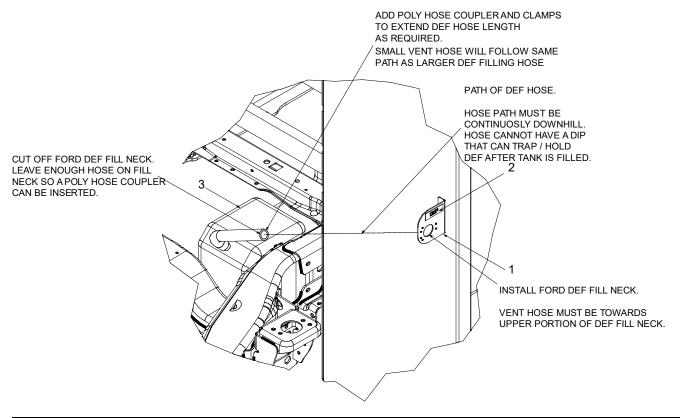
NOTE: ZIPTIE FUEL LINES UNDER THE WELDED ANGLE ON LEFT SIDE OF FLOOR TUBE.

BODY INSTALLATION KIT - FORD 2017 CHASSIS ONLY (99906122)



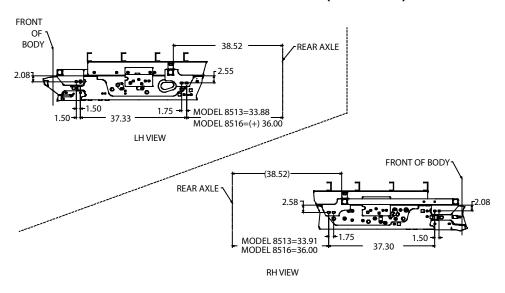
99906122 COMPLETE PARTS LIST			
ITEM	PART NO.	DESCRIPTION	QTY
1	60144560	SHIM-BODY MTG REAR PRED F550 19000 G	2
2	60122776	BRKT-PRED MTG RR 19000	1
3	72601144	CAP SCR .56-12X 2.00 HH GR8 Z	16
4	72063117	WASHER .56 FLAT ASTM F436	32
5	72062275	NUT .56-12 HEX GRC Z TOP LOCK	16
6	60144641	BRKT-PRED MTG 8513 FRT 19000 2017	2
7	60122775	BRKT-PRED MTG LR 19000	1
REV. NEW 20161014			

BODY INSTALLATION – 2017 FORD CHASSIS ONLY (99906123)

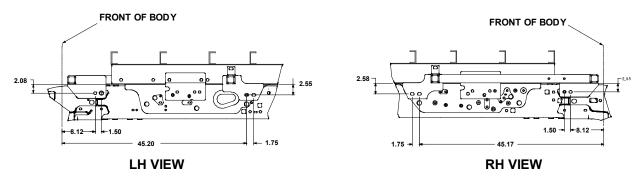


99906123 COMPLETE PARTS LIST				
ITEM	PART NO.	DESCRIPTION	QTY	
1	60144597	BRACKET-DEF FILL FORD	1	
2	70398968	DECAL-DIESEL EXHAUST FLUID (DEF)	1	
3	DEF TANK	DEF TANK 2017 FORD SD	1	
4	72063001	WASHER .25 FLAT	2	
5	76392820	WASHER-BONDED .25 PLTD	2	
6	72062104	NUT .25-20 HEX NYLOCK	2	
7	72060004	CAP SCR .25-20X 1.00 HH GR5 Z	2	
REV. NEW 20161014				

W-DA440HU - 2017 FORD FRAME ONLY (99906124) Effective 08/2017

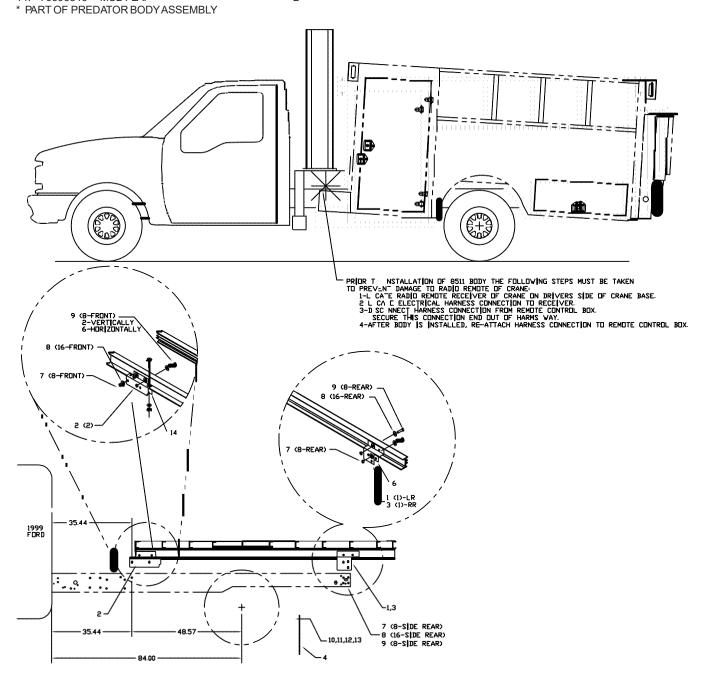


W-DA440HU - 2017 FORD FRAME ONLY (99906124)



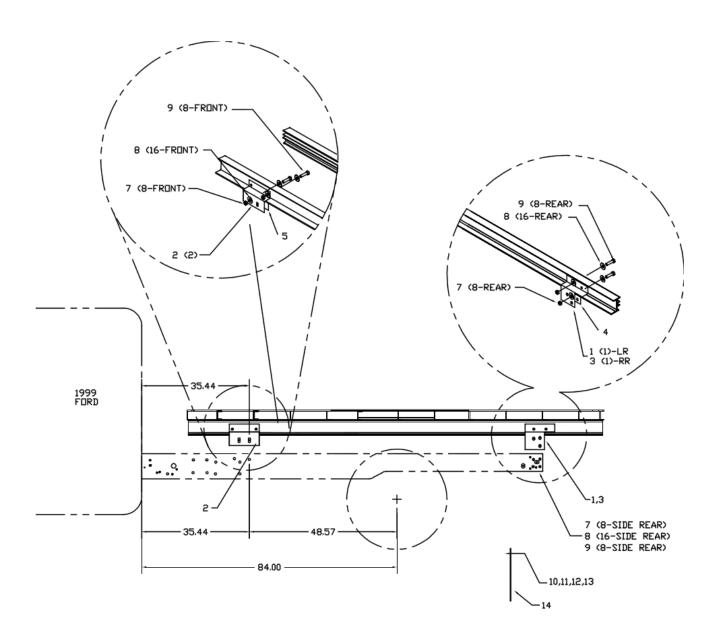
INSTALLATION KIT-18,000 GVW (93715374) - 851 1

		(1011 1111 10,000 0111 (
1.	60122077	BRACKET-REAR MTG-LH REAR	1
2.	60122088	BRACKET-FRONT MTG W/CRANE	2
3.	60122091	BRACKET-REAR MTG-RH REAR	1
4.	76395819	MUD FLAP	2
5.	51716036	HARDWARE KIT	1
6.	60125330	SHIM, REAR	A/R
7.	72062275	NUT 9/16-12 HEX TOP LOCK GR8	16REF
8.	72063117	WASHER 9/16 FLAT HARD	32REF
9.	72601144	CAP SCR 9/16-12X2 HHGR8	16REF
10.	72060004	CAP SCR 1/4-20X1-1/4 HHGR5	6REF *
11.	72062104	NUT 1/4-20 LOCK	6REF *
12.	72063001	WASHER 1/4 WRT	6REF *
13.	72661471	WASHER 1/4X1 OD FENDER	6REF *
14.	76395819	MUD FLAP	2



INSTALLATION KIT-18,000 GVW (93715720) - 8513 - 8516

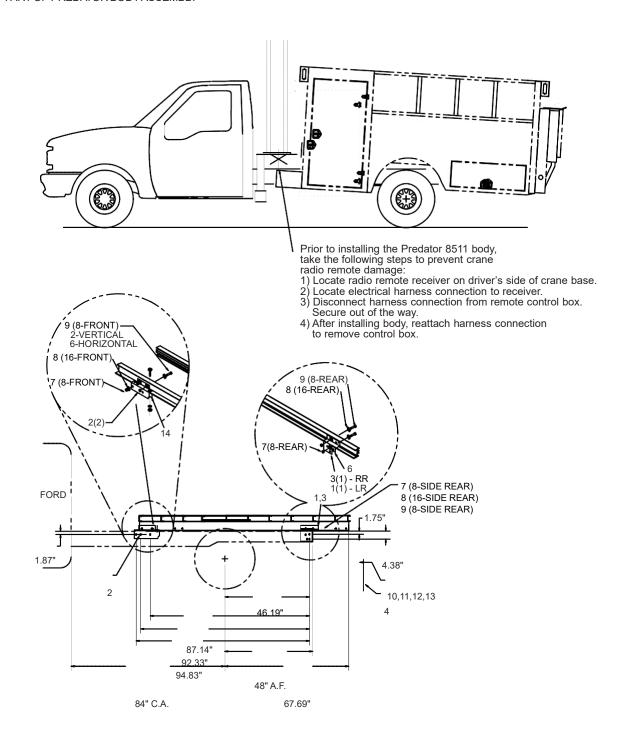
60122077	BRACKET-REAR MTG-LH REAR	1		
60121229	BRACKET-FRONT MTG W/CRANE	2		
60122091	BRACKET-REAR MTG-RH REAR	1		
60125330	SHIM, REAR	A/R		
60125332	SHIM, FRONT	A/R		
72062275	NUT 9/16-12 HEX TOP LOCK GR8	16		
72063117	WASHER 9/16 FLAT HARD	32		
72601144	CAP SCR 9/16-12X2 HHGR8	16		
72060005	CAP SCR 1/4-20X1-1/4 HHGR5	6 *		
72062104	NUT 1/4-20 LOCK	6 *		
72063001	WASHER 1/4 WRT	6 *		
72661471	WASHER 1/4X1 OD FENDER	6 *		
76395819	MUD FLAP	2		
51716036	HARDWARE KIT	1		
* PART OF BODYASSEMBLY				
	60122091 60125330 60125332 72062275 72063117 72601144 72060005 72062104 72063001 72661471 76395819 51716036	60121229 BRACKET-FRONT MTG W/CRANE 60122091 BRACKET-REAR MTG-RH REAR 60125330 SHIM, REAR 60125332 SHIM, FRONT 72062275 NUT 9/16-12 HEX TOP LOCK GR8 72063117 WASHER 9/16 FLAT HARD 72601144 CAP SCR 9/16-12X2 HHGR8 72060005 CAP SCR 1/4-20X1-1/4 HHGR5 72062104 NUT 1/4-20 LOCK 72063001 WASHER 1/4 WRT 72661471 WASHER 1/4X1 OD FENDER 76395819 MUD FLAP 51716036 HARDWARE KIT		



INSTALLATION KIT-19,500 GVW (93716272) - 851 1

1.	60122775	BRACKET-REAR MTG-LH REAR	1
2.	60122774	BRACKET-FRONT MTG W/CRANE	2
3.	60122776	BRACKET-REAR MTG-RH REAR	1
4.	60122777	SHIM, REAR	2
7.	72062275	NUT 9/16-12 HEX TOP LOCK GR8	16REF
8.	72063117	WASHER 9/16 FLAT HARD	32REF
9.	72601144	CAP SCR 9/16-12X2 HHGR8	16REF
10.	72060005	CAP SCR 1/4-20X1-1/4 HHGR5	6REF *
11.	72062104	NUT 1/4-20 LOCK	6REF *
12.	72063001	WASHER 1/4 WRT	6REF *
13.	72661471	WASHER 1/4X1 OD FENDER	6REF *
14.	76395819	MUD FLAP	2
15.	51716036	HARDWARE KIT-PRED INSTALL	1

^{*} PART OF PREDATOR BODY ASSEMBLY

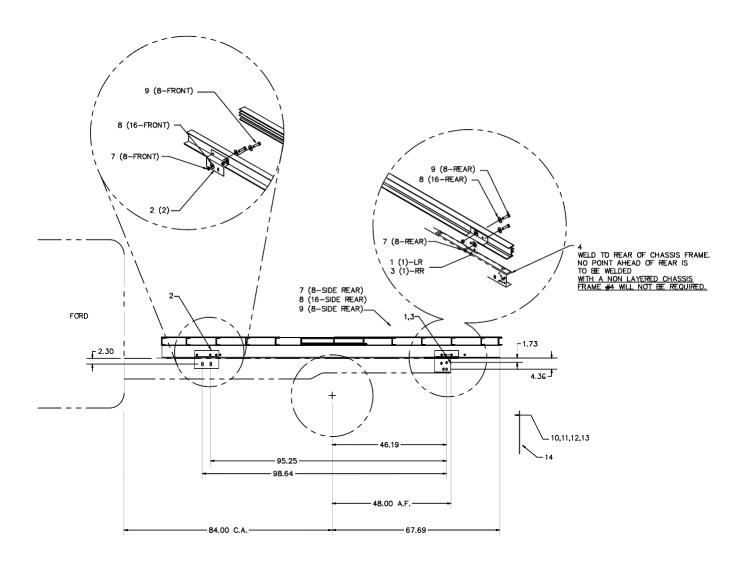


MODEL 8513-8516

INSTALLATION KIT-19,500 GVW (93716273) - 8513-8516

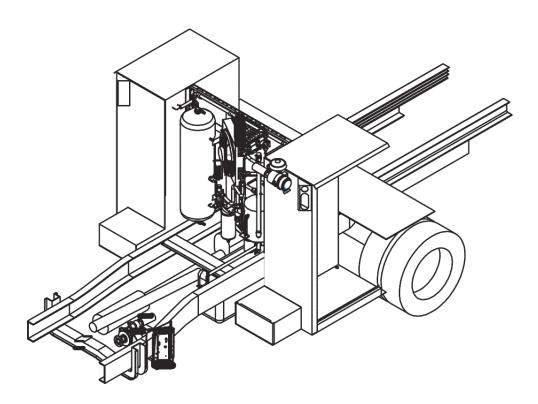
1.	60122775	BRACKET-REAR MTG-LH REAR	1
2.	60122778	BRACKET-FRONT MTG	2
3.	60122776	BRACKET-REAR MTG-RH REAR	1
4.	60122777	SHIM, REAR	2
7.	72062275	NUT 9/16-12 HEX TOP LOCK GR8	16REF
8.	72063117	WASHER 9/16 FLAT HARD	32REF
9.	72601144	CAP SCR 9/16-12X2 HHGR8	16REF
10.	72060005	CAP SCR 1/4-20X1-1/4 HHGR5	6REF *
11.	72062104	NUT 1/4-20 LOCK	6REF *
12.	72063001	WASHER 1/4 WRT	6REF *
13.	72661471	WASHER 1/4X1 OD FENDER	6REF *
14.	76395819	MUD FLAP	2
15.	51716036	HARDWARE KIT-PRED INSTALL	1

* PART OF PREDATOR BODY ASSEMBLY



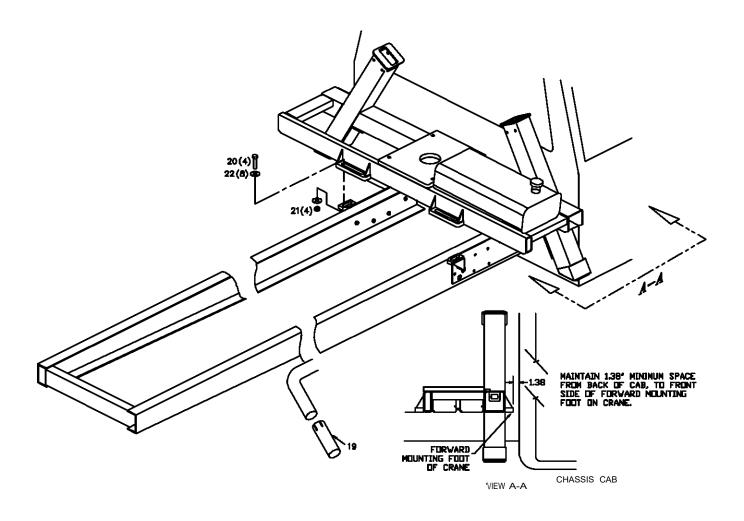
INSTALLATION-BODY/FORD SUPER-DUTY (41715869-1) MANUAL AUTOMATIC DESCRIPTION QTY RESERVOIR 1. 51396296 HOSE ASM 3/4X100 1RFF 51396295 HOSE ASM 3/4 X 48 1REF (MANUAL WAS 51712602, AUTO WAS 51394915) 1REF 51395431 HOSE ASM 1/2X98 51395404 HOSE ASM 1/2 X 48 1REF (MANUAL WAS 51394295, AUTO WAS 51394660) 3. 51395184 51395184 1REF HOSE ASM 1/2X41 (WAS 51395063) COOLER 13 51394716 51394716 HOSE ASM 1/2X18 1REF UTLET) (WAS 72053764) 12 72053764 72053764 ELBOW #10MSTR #8MJIC 90° 1REF (WAS 72533032) 6. 72053767 ELBOW #10MSTR #12MJIC 90° 1REF ELBOW #12MSTR #12MJIC 90° 1REF 72053766 72053556 72053556 STREET ELBOW 3/4NPT 90° 1REF 72053376 **RED BUSHING 1NPT 3/4NPT** 8. 72053376 1REF 72053558 72053558 ADPT 3/4MPT 3/4MPT HEX 3RFF 9 INNER END OF CRANE VALVE BANK 10. 72053676 72053676 ADAPTER 3/4MPT #12MJIC 1REF 73054230 73054230 **BALL VALVE 3/4NPT** 2REF 72531422 ELBOW 3/4MPT #8MJIC 90° 12. 72531422 1RFF 73052000 73052000 RETURN FILTER 10MIC 3/4FPT 1REF 13. " OF OUTER END ON VALVE BLOCK 14. 72601144 72601144 CAP SCR 9/16-12X2 HHGR8 16REF OF CRANE 72062275 NUT 9/16-12 TOP LOCK GR8 15. 72062275 16REF PTO PUMP 16. 72063117 72063117 WASHER 9/16 FLAT HARD 32REF 17. 70143144 70143144 OIL COOLER 1REF 18. 72534380 72534380 ELBOW 1" MPT #8MJIC 90° 2REF 19. 70143334 70143334 EXHAUST CONNECTOR 1REF 20. 72060188 72060188 CAP SCR 3/4-10X3-1/2 HHGR5 4REF NUT 3/4-10 LOCK STL INSERT 4REF 21. 72062140 72062140 72063116 72063116 WASHER 3/4 FLAT HARD 8REF

INSTALLATION REFERENCE DWG-CRANE BASE/BODY

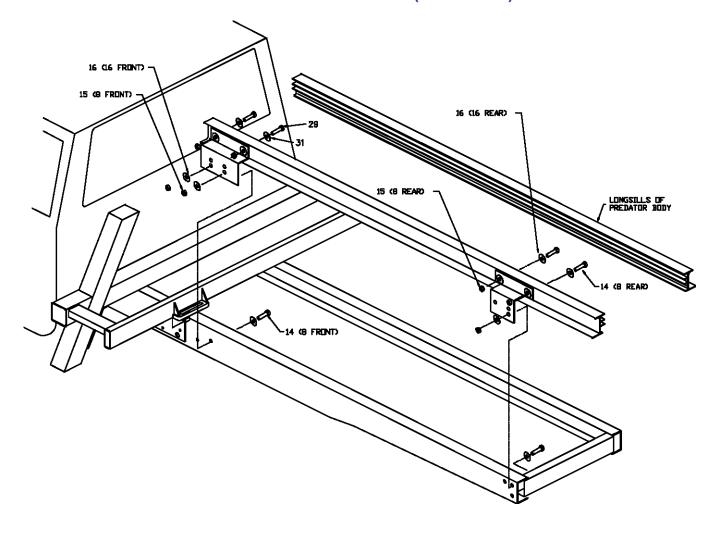


SERIAL NUMBERS PRED021074 TO PRESENT

INSTALLATION-BODY/CRANE/FORD SUPER-DUTY (41715869-2) -8511



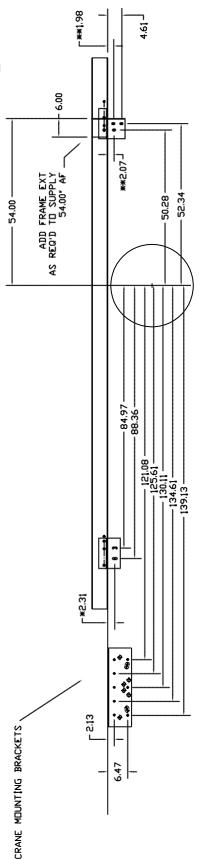
INSTALLATION-BODY/CRANE/FORD SUPER-DUTY (41715869-3)-8511



INSTALLATION KIT-PREDATOR 8516/FORD SUPER-DUTY (99904044)

FOR FORD SUPERDUTY ONLY:

- LENGTHEN FRAME OF CHASSIS BYADDING TWO 60130200 FRAME EXTENSION PIFCES
- INSTALL STANDARD SPACER ON TOP OF CHASSIS FRAME IN REARAFTER FRAME AREA.
- SHIM ENTIRE LENGTH OF CHASSIS FRAME BYADDING TWO 60130199
 SPACERS AND TWO 60117637 SPACERS TO TOP OF CHASSIS FRAME. THIS
 WILL CREATE A FLAT SURFACE OVER THE CHASSIS FRAME RIVETHEADS.
- SHIMS WILL BE WELDED DOWN ONLY IN THE AREA BEHIND THE REAR SPRING SHACKLE BRACKET. THE SHIMS WILLBE HELD DOWNAHEAD OF THE REAR AXLE USING METAL BANDS (SHIPPING STYLE) OR EQUIVALENT.



PREDATOR 8516 FRONT DIRECTION

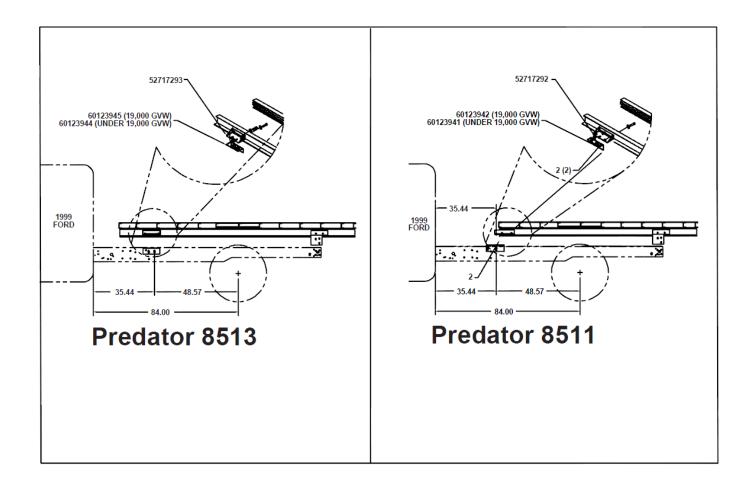
^{*} FOR FORD SUPER-DUTY- 0.13" DUETO SPACER

^{**} FOR FORD SUPER-DUTY- 0.38" DUETO SPACERS

INSTALLATION DW - DUAL FUEL TANKS - FORD SUPERDUTY (99903407)

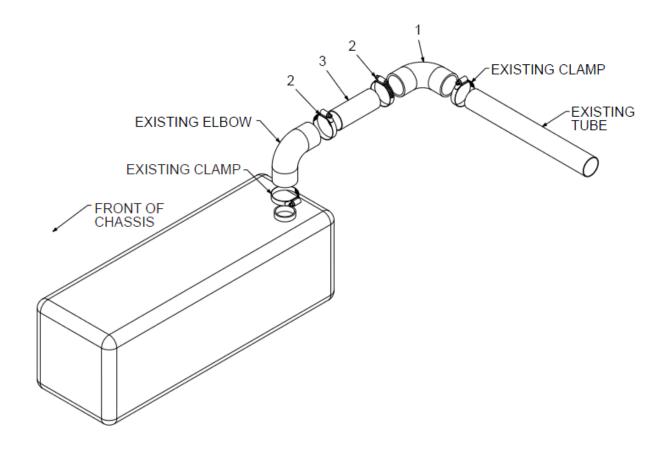
FASTENER KIT (51717296) INCLUDES:

1. 72062275 NUT 9/16-12 HEX LOCK GR8 2
2. 72063117 WASHER 9/16 FLAT 4
3. 72601144 CAP SCR 9/16-12 x 2.00 HH GR8 2



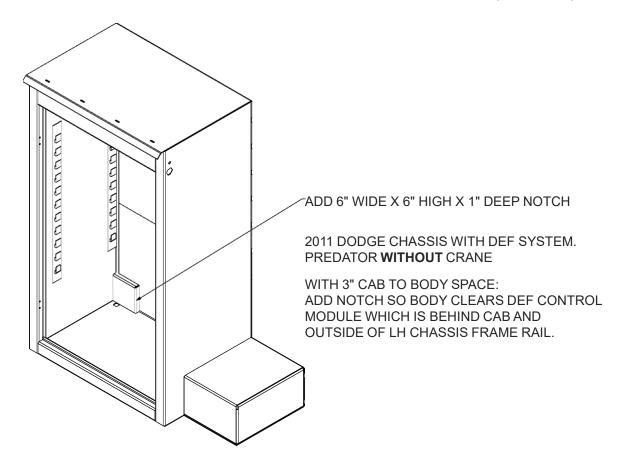
FUEL FILL, CHEVY/GMC (99903710)

1. 70396444 ELBOW, 90 DE 3 FUEL HOSE 2" (RUBBER)2
2. 72066062 HOSE CLAMP 4
3. 60128989 TUBE 1

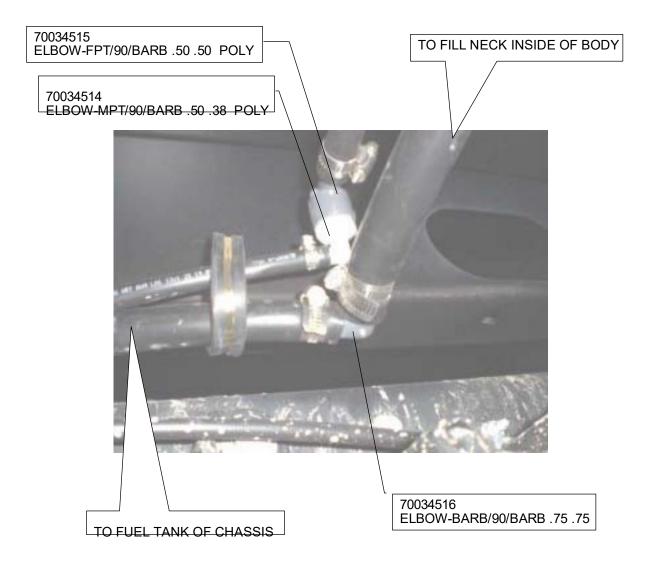


REFERENCE KIT # 51721788 - CHEVY2006 FUEL FILL (PREDATOR)

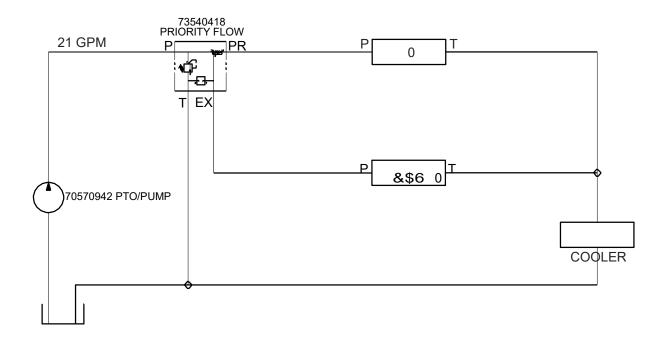
COMPARTMENT NOTCH, PREDATOR ON 2011 DODGE CHASSIS (99904915)



INSTALLATION, DEF TANK HOSES ON 2011 FORD F550 (99904938)



HYDRAULIC INSTALLATION, PREDATOR ON FORD 201 1 4X2 CHASSIS, CRANE & COMPRESSOR (99905027)



NOTES:

Priority flow control valve 73540418 effective on units with serial numbers: PRED101009 (VIN 1FDGF5GT0BEA48691)
PRED101010 (VIN 1FDGF5GT5BEA60657)
PRED101014 (VIN 1FDGF5GT3BEA60656)
and beyond.

This drawing shows the hydraulic installation requirements for the new priority flow control valve only

MODEL 8511

BODY ASM-W/CRANE (REF 51715371) - 8511

_		\	,
1.	72601008	STOVE BOLT #10-24X1-1/2 FLH SST	8
2.	72601593	CAP SCR 1/4-20X1-1/2 FLH SS	4
3.	72062123	NUT #10-24 LOCK SS	8
4.	72063181	WASHER #10 WRT SS	8
5.	72062194	NUT 1/4-20 LOCK SS	4
6.	72063166	WASHER 1/4-5/8 OD WRT SS	4
7.	72661639	PLUNGER (WAS 72066376)	4
	72661640	SOCKET (PART OF 7)	4REF
8.	41715741	ELECTRICAL INSTALLATION KIT	1
9.	60131214	ROD-DOOR 16 LG 3/4 OFFSET	4
		(WAS 60120400)	
^	00404045	DOD DOOD OF ALLOW 75: OFFICET	DEE

10. 60131215 ROD-DOOR 26.25 LG W-.75in OFFSET REF ** QTY 4 -Predator & CAS440HT Compressors

** QTY 2 -CAS440HU Compressors

(WAS 60122078)

10a. 60130818 ROD-DOOR 14.88 LG W-.75in OFFSET 2 60128488 ROD-DOOR 9.25 LG W-.75in OFFSET 2

** Used on CAS440HU Compressors only 11. 70029119 SERIAL NUMBER PLACARD 12. 70034366 PLUG 1-1/8 8 13. 70393719 PLUG .266 8 14. 72066340 RIVET POP 1/8X3/8GRIP

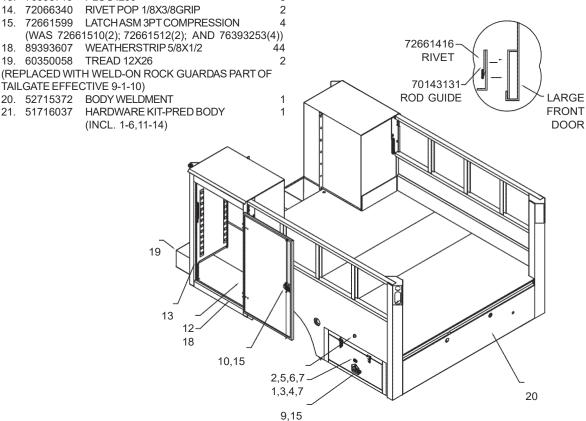
(WAS 72661510(2); 72661512(2); AND 76393253(4)) 18. 89393607 WEATHERSTRIP 5/8X1/2 19. 60350058 TREAD 12X26

20. 52715372 BODY WELDMENT 21. 51716037 HARDWARE KIT-PRED BODY (INCL. 1-6,11-14)

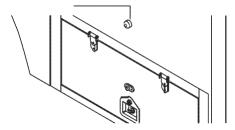
TAILGATE EFFECTIVE 9-1-10)

NOTE

Please check serial number of Predator prior to calling for support. Predators produced prior to 5-18-05 include different parts than Predators produced post 5-18-05.



VIEW-LEFT REAR UBTB AFTER SOCKET LOCATION IS DETERMINED. DRILL .266 HOLD THRU SIDE AND KICK PANEL, THEN FROM INSIDE OF BODY DRILL HOLE IN KICK PANEL ONLY TO A SIZE THAT WILL ACCEPT TOOL SOCKET.

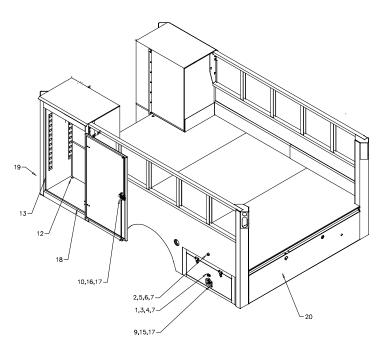


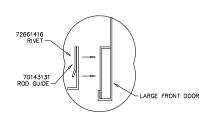
BODY ASM-W/O CRANE (REF 51715711) - 8513

1. 2.	72601008 72601593	STOVE BOLT #10-24X1-1/2 FLH SST CAP SCR 1/4-20X1-1/2 FLH SS	8 4
3.	72062123	NUT #10-24 LOCK SS	8
	72063181	WASHER #10 WRT SS	8
	72062194	NUT 1/2-20 LOCK SS	4
	72063166	WASHER 1/4-5/8 OD WRT SS	4
	72661639		4
	41715741	ELECTRICAL INSTALLATION KIT	1
9.	60161214	ROD-DOOR 16 LG 3/4 OFFSET	4
	(WAS 60120		
10.	60131215	ROD-DOOR 26.25 LG W75 OFFSET	REF
		**QTY 4-Predator & CAS440HT Compre	essors
		**QTY 2-CAS440HU Compressors	
		(WAS 60122078)	
10a.	60130818	ROD-DOOR 14.88 LG W75in OFFSE	Γ2
	60128488	ROD-DOOR 9.25 LG W75in OFFSET	2
		** Used on CAS440HU Compressors or	าly
10b	60135690	ROD-DOOR W75in OFFSET	REF
		** Used in any compartment	
11.	70029119	SERIAL NUMBER PLACARD	1
12.	70034366	PLUG 1-1/8	8
13.	70393719	PLUG .266	8
14.	72066340	RIVET POP 1/8X3/8GRIP	2
15.		LATCHASM 3PT COMPRESSION	4
		1510(2); 72661512(2); AND 76393253(4	4))
18.	89393607	WEATHERSTRIP 5/8X1/2	44
19.		TREAD 12X26	2
(REI	PLACED WIT	H WELD-ON ROCK GUARDAS PART OF	
TAIL	GATE EFFE	CTIVE 9-1-10)	
20.	52715712	BODY WELDMENT	1
21.	51716037	HARDWARE KIT, BODY ASM	1
		(INCL. 1-6,11-14)	

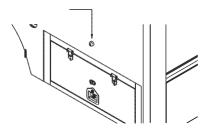
NOTE

Please check serial number of Predator prior to calling for support. Predators produced prior to 5-18-05 include different parts than Predators produced post 5-18-05.





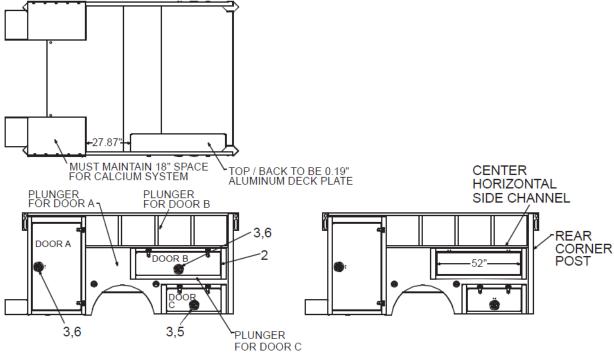
VIEW-LEFT REAR UBTB AFTER SOCKET LOCATION IS DETERMINED. DRILL .266 HOLD THRU SIDE AND KICK PANEL, THEN FROM INSIDE OF BODY DRILL HOLE IN KICK PANEL ONLY TO A SIZE THAT WILL ACCEPT TOOL SOCKET.



MODEL 8511

BODY ASSEMBLY-ADDITIONAL TOP-DECK COMPARTMENTS (99904959) - 8511

REF KIT 51723142 2 1. 72661506 HINGE-SS 10GA BUTT POLISHED FLUSH 2. 52723125 DOOR-WLDMT PRED 52.75H X 14.12 W 1 3. 72661599 LATCH ASM-3PT COMPRESSION (BLACK) 1 ROD-DOOR 26.25 LG W-.75in OFFSET 2 4 60131215 ROD-DOOR 16.00 LG W-.75in OFFSET 5. 60131214 ROD-DOOR 25.75 LG W-.75in OFFSET A/R 60132951



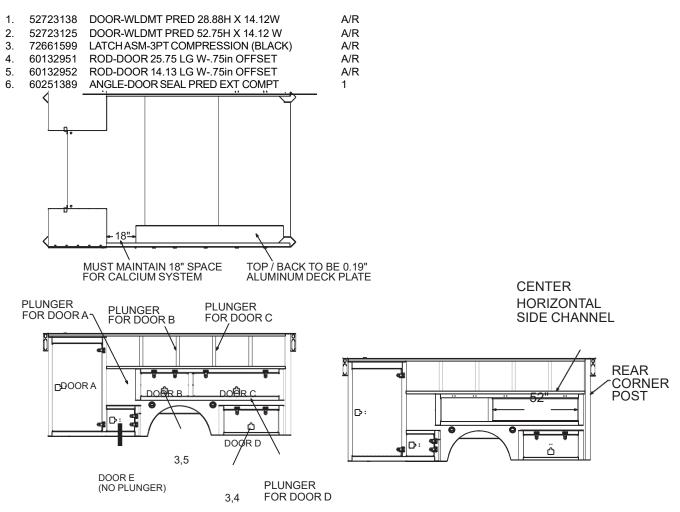
NOTES:

- 1. Additional top deck compartments are available on the left side, right side or both sides.
- 2. 99904959 shows the standard Predator Model 8511 with an additional welded-in top deck compartment.
- 3. The compartment depth is 13".
- 4. The compartment height is up to the "bottom" of the center horizontal side channel (19.38" h)
- 5. The rear of the additional top deck compartment(s) will stop at the front of the rear corner posts. This will leave the vertical cavity within the rear corner post, exposed in order to route electrical wiring up to the top RR/LF lights.
- 6. The front of the additional top deck compartments will start 28" behind the back of the standard top deck compartments. This will provide a 28" space between the standard compartments and the front of the additional compartments, for installation of the Calcium Chloride system.
- 7. The top and back of the additional top deck compartments will be 19" aluminum deck plate.
- 8. The door opening of the additional top deck compartments will be a minimum of 52" wide.
- 9. Doors for additional compartments are the same design as LR/RR underbody toolbox doors, and they will have door rods.
- 10. The socket/plunger for standard rear underbody toolbox doors will be mounted on the rear door of the additional top deck compartment.
- 11. The socket/plunger for the additional top deck doors will be mounted on the upper racks of the body

MODEL 8513

BODY ASSEMBLY-ADDITIONAL TOP-DECK COMPARTMENTS (99904391) - 8513

REF KIT 51723143



NOTES:

- Additional top deck compartments are available on the left side, right side or both sides.
- 2. 99904391 shows the standard Predator Model 8513 with an additional welded-in top deck compartment.
- 3. The compartment depth is 13".
- 4. The compartment height is up to the "bottom" of the center horizontal side channel (19.38" h)
- 5. The rear of the additional top deck compartment(s) will stop at the front of the rear corner posts. This will leave the vertical cavity, within the rear corner post, exposed in order to route electrical wiring up to the top RR/LF lights.
- 6. The front of the additional top deck compartments will start 18" behind the back of the standard top deck compartments. This will provide an 18" space between the standard compartments and the front of the additional compartments, for installation of the Calcuim Chloride system.
- 7. The top and back of the additional top deck compartments will be 19" aluminum deck plate.
- 8. Include an internal divider in the additional top deck compartments in order to separate the larger rear section from the remaining front section.
- 9. The rear door opening of the additional top deck compartments will be a minimum of 52" wide.
- 10. The front door opening of the additional top deck compartments will be as wide as possible in the remaining space.
- 11. Doors for additional compartments are the same design as LR/RR underbody toolbox doors, and they will have door rods.
- 11. The socket/plunger for standard rear underbody toolbox doors will be mounted on the rear door of the additional top deck compartment.
- 12. The socket/plunger for the additional top deck doors will be mounted on the upper racks of the body

Oshkosh Corporation Classification - Restricted

Predator 8511/8513/8516 Manual #99903299

2-20

SECTION 2 – BODY COMPONENTS

SERIAL NUMBERS PRED101016 TO PRESENT

MODEL 8516

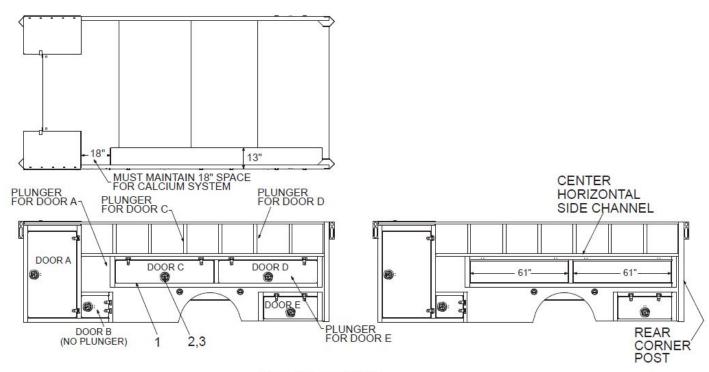
BODY ASSEMBLY-ADDITIONAL TOP-DECK COMPARTMENTS (99904960) - 8516

REF KIT 51723144

 1.
 52723151
 DOOR-WLDMT PRED 61.75H X 14.12W
 A/R

 2.
 60135963
 ROD-DOOR 30.25 LG W-.75in OFFSET
 A/R

 3.
 72661599
 LATCHASM-3PT COMPRESSION (BLACK)
 2



TOP / BACK TO BE 0.19" ALUMINUM DECK PLATE

NOTES:

- 1. Additional top deck compartments are available on the left side, right side or both sides.
- 2. 99904960 shows the standard Predator Model 8516 with an additional welded-in top deck compartment.
- 3. The compartment depth is 13".
- 4. The compartment height is up to the "bottom" of the center horizontal side channel (19.38" h)
- The rear of the additional top deck compartment(s) will stop at the front of the rear corner posts. This
 will leave the vertical cavity within the rear corner post, exposed in order to route electrical wiring up to
 the top RR/LF lights.
- 6. The front of the additional top deck compartments will start 18" behind the back of the standard top deck compartments. This will provide an 18" space between the standard compartments and the front of the additional compartments, for installation of the Calcuim Chloride system.
- 7. The top and back of the additional top deck compartments will be 19" aluminum deck plate.
- 8. Include an internal divider in the additional top deck compartments in order to separate the larger rear section from the remaining front section.
- 9. The rear door opening of the additional top deck compartments will be a minimum of 61" wide.
- 10. The front door opening of the additional top deck compartments will be a minimum of 61" wide.
- 11. Doors for additional compartments are the same design as LR/RR underbody toolbox doors, and they will have door rods.
- 11. The socket/plunger for standard rear underbody toolbox doors will be mounted on the rear door of the additional top deck compartment.
- 12. The socket/plunger for the additional top deck doors will be mounted on the upper racks of the body

MODEL 8516

BODY ASSEMBLY-ADDITIONAL UNDERBODY TOOLBOX COMPARTMENTS (99904961)

- 8516

REF KIT 51723147

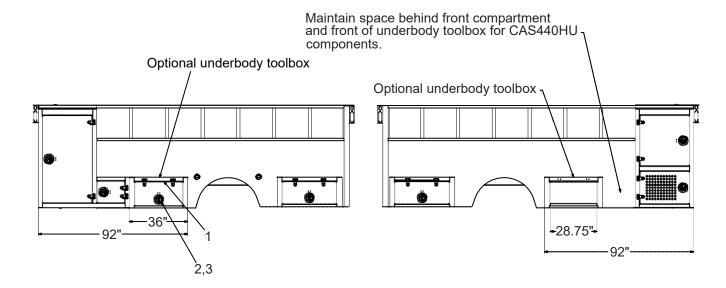
 1.
 52723151
 DOOR-WLDMT PRED 61.75H X 14.12 W
 A/R

 2.
 72661599
 LATCH ASM-3PT COMPRESSION (BLACK)
 A/R

 3.
 60132952
 ROD-DOOR 14.13 LG W-.75in OFFSET
 A/R

NOTES:

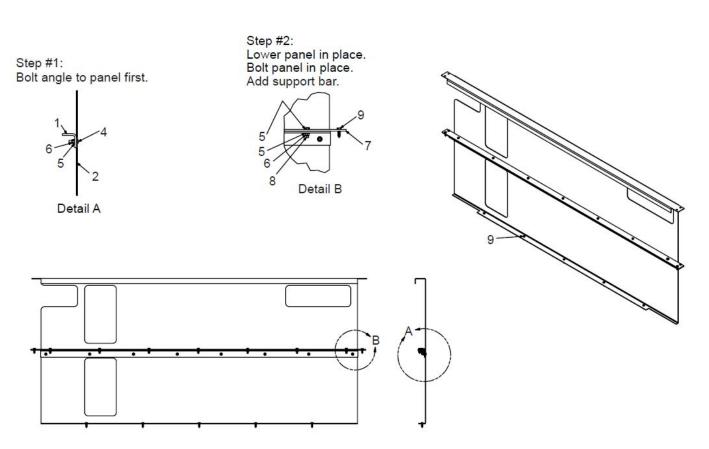
- 1. Right hand view shows the layout with a CAS440HU compressor
- 2. For a configuration without a CAS440HU compressor mirror the left hand side.



MODEL 8511-8513-8516

CALCIUM CHLORIDE BACK WITH ADDITIONAL TOP DECK COMPARTMENTS (99904962)

1.	60251391	ANGLE-CALCIUM TANK PREDATOR W-TD COMPT	1
2.	60251390	BACK-CALCIUM TANK PREDATOR W-TD COMPT	1
4.	72602051	BOLT-CRG .31-18X 1.00 SQNK GR2	8
5.	72063002	WASHER-FLAT .31 WANSI B27.2 Z	16
6.	72062109	NUT .31-18 HEX NYLOC ZINC	15
7.	60251260	BAR-CALCIUM TANK PREDATOR W-TD COMPT	1
8.	72060026	CAP SCR .31-18X 1.25 HH GR5 Z	7
9.	72601341	SCR-SELF TAP .31-18X .75 HH SST	9

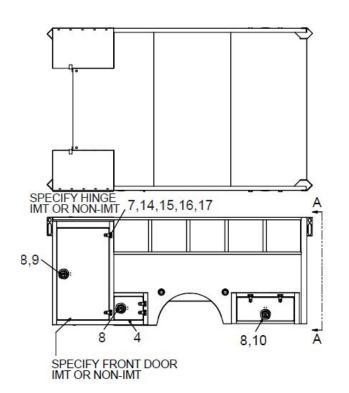


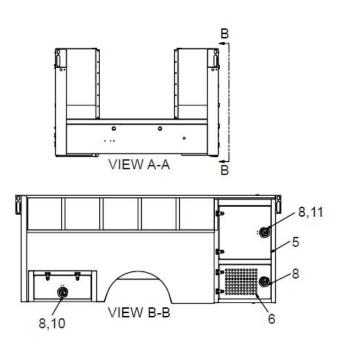
SERIAL NUMBERS PRED101016 TO PRESENT

MODEL 8513-8516

COMPARTMENT DOORS, PRED 8513 W/ CAS440HU (99904964)

1.	52723086	DOOR-WLDMT PRED 53.88HX 30.50W (NON-IMT)	1
1.	52717859	DOOR-WLDMT PRED 53.88HX 30.50W (IMT)	1
3.	52715718	DOOR-WLDMT PRED 33.50HX 13.75W	2
4.	60251364	PANEL-DOOR 13.56H X 17.00 W (1.04 D)	1
5.	52720765	DOOR-WLDMT PRED 31.94H X 30.5W	1
6.	52720766	DOOR-WLDMT PRED 20.03H X 30.5W	1
7.	72661506	HINGE-SS 10GA BUTT POLISHED FLUSH (NON-IMT)12
7.	72661383	HINGE-SS 10GA BUTT W/IMT LOGO (IMT)	12
8.	72661599	LATCHASSEMBLY-3PT	6
9.	60131215	ROD-DOOR 26.25 LONG W/.75 OFFSET	A/R
10.	60131214	ROD-DOOR 16.00 LONG W/.75 OFFSET	4
11.	60130818	ROD-DOOR 14.88 LONG W/.75 OFFSET	A/R
12.	72661639	PLUNGER-SOCKET 2.5 STEELZINC PLATE	A/R
13.	72661640	PLUNGER-SOCKETALUM (W/RUBBER INSERT)	A/R
14.	72062194	NUT-SS .25-20 NYLOC	A/R
15.	72062264	WELD NUT .25-20 FOR HINGE	A/R
16.	72063166	WASHER-FLAT .25 R WRT SS	A/R
17.	72601652	SCREW-MACH .25-20 X .75 TRHTORXSS	A/R

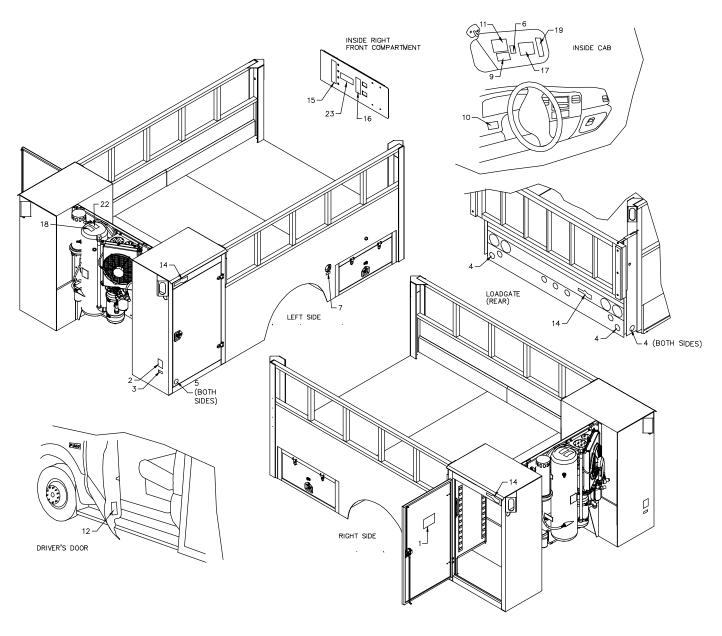




MODEL 8513-8516

DECAL KIT (51715853) - 8513

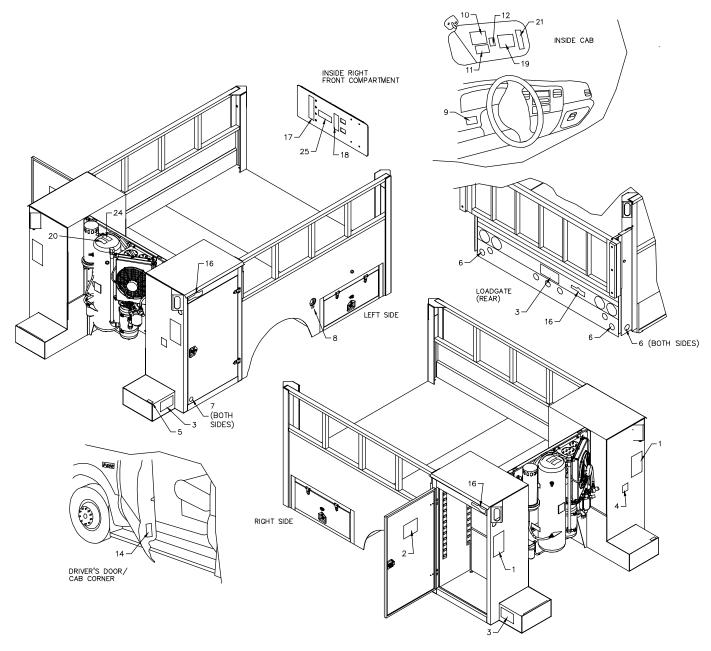
		(31113333)		40	70202200	LICENICE DI ATE INTEDIANONE	*1
1	70396709	DECAL-PM KIT PREDATOR	1		70393309	LICENSE PLATE-IMT DIAMOND	1
٠.			•	14.	70395654	DECAL-PREDATOR ID	3
	(WAS 703	,		15.	70395656	DECAL-PREDATOR LIGHTS	1
2.	71393886	DECAL-DANGER EXPLODING TANK	1	16	70395657	DECAL-PREDATOR TRK/COMP	1
3	70391601	DECAL-AIR TANK DRAIN	1			DECAL-CMPRSR START UP	1REF
			•	17.	70396160	DECAL-CIMPROR START UP	IKEF
4.	70039057	REFLECTOR-RED	4	18.	70396161	DECAL-CMPRSR FLUID	1REF
5.	70039058	REFLECTOR-AMBER	2	19.	70396162	DECAL-WARNING READ MANUAL	1REF
6.	70392213	DECAL-CAUTION WASH/WAX	1	20.	70396163	DECAL-DANGER DRIVELINE OP	***1REF
7.	70392309	DECAL-DIESEL FUEL ONLY	1	21.	70396164	DECAL-DANGER BREATING	**1REF
9	70392982	DECAL-SERV & REPAIR	1	22.	70396165	DECAL-DANGER HOT OIL	1REF
				23.	70396064	DECAL-FUSE BOX BEHIND PANEL	1
10.	70394092	DECAL-CAUTION BRK/COMP	1	*	LOCATEIT	EM 13 ON FRONTLICENSE PLATE HOLD	, ED
11	71039134	DECAL-CAUTION OIL LEVEL	1				IEK.
				**	LOCATE ITE	EM 21 NEAR FLR.	
12.	70392387	DECAL-FINAL STG VEH CERT	1	***	LOCATE ITE	EM 20 ON COMPRESSOR MTG BRACK	FT
					LOOKILIII	LIVI 20 OIN OOMI TALOOOTT WITO DIVAOR	_,



MODEL 8511

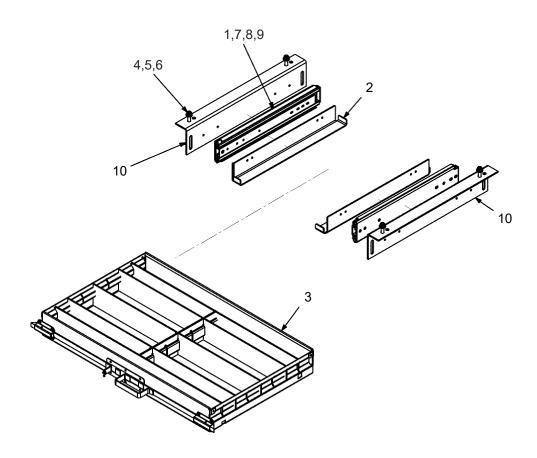
DECAL KIT (51715852) - 8511

4	74000000	OADAOITY OLIADT 0000	2	15.	70393309	LICENSE PLATE-IMT DIAMOND	**1
1.	71393863	CAPACITY CHART-3000	2	16.	70395654	DECAL-PREDATOR ID	3
2.	70396709	DECAL-PM KIT PREDATOR	1	17.	70395656	DECAL-PREDATOR LIGHTS	1
	(WAS 7	0395652)		111			1
3.	70392865	DECAL-DANGER ELEC HAZ	*4RFF	18.	70395657	DECAL-PREDATOR TRK/COMP	1
	71393886	DECAL-DANGER EXPLODING TANK	1	19.	70396160	DECAL-CMPRSR START UP	1REF
			1	20.	70396161	DECAL-CMPRSR FLUID	1REF
5.		DECAL-AIR TANK DRAIN	1	21.	70396162	DECAL-WARNING READ MANUAL	1REF
6.	70039057	REFLECTOR-RED	4		70396163	DECAL-DANGER DRIVELINE OP	****1REF
7.	70039058	REFLECTOR-AMBER	2				
8.	70392309	DECAL-DIESEL FUEL ONLY	1		70396164	DECAL-DANGER BREATHING	***1REF
	70394092	DECAL-CAUTION BRK/COMP	1	24.	70396165	DECAL-DANGER HOT OIL	1REF
			1	25.	70396064	DECAL-FUSE BOX BEHIND PANEL	1
	. 71039134	DECAL-CAUTION OIL LEVEL	1	*	LOCATE OF	NE ITEM 3 ONTOP OF FRONT BUMPER	
11	. 70392982	DECAL-SERV & REPAIR	1	**		EM 13 ON FRONTLICENSE PLATE HOLD	-
12	. 70392213	DECAL-CAUTION WASH/WAX	1	***			JLIV.
14	70392387	DECAL-FINAL STG VEH CERT	1			EM 23 NEAR FLR.	
		220/12 / 110/12 0 / 0 / 2 / 1 0 2 / 1	•	***	LOCATE ITI	EM 22 ON COMPRESSOR MTG BRACK	ET



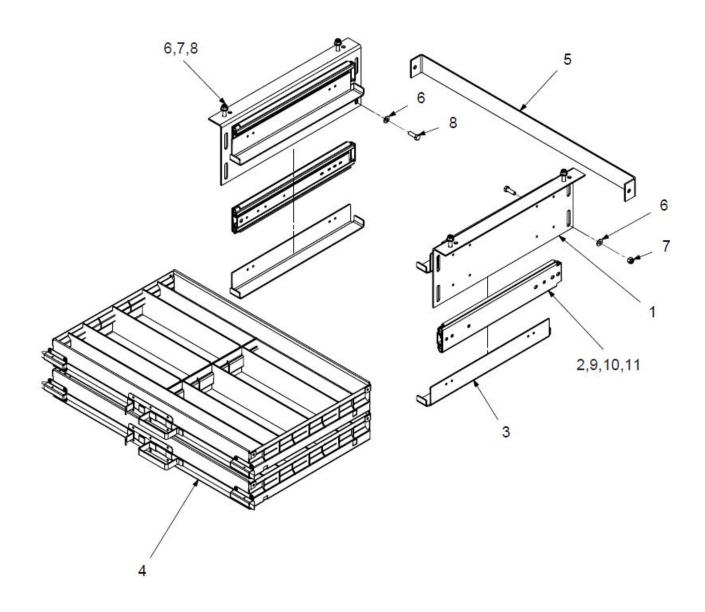
DRAWER ASM 1-3" H X 26" W X 16" D SGL PULL (51715842)

1.		DRAWER SLIDE 16"	2
2.	60119271	BRACKET	2
3.	70734320	DRAWER W/DIV 3" X 16" X 26"	1
	(WAS 7073	33798)	
	(UNPAINTE	D-70733414-REF FOR SERVICE)	
4.	72063002	WASHER 5/16 WRT	8
5.	72062109	NUT 0.31-18 HEX NYLOC	4
6.	72060025	CAP SCR 5/16-18X1 HHGR5	4
7.	72062106	NUT #10-24 LOCK	32
8.	72601283	MACH SCR #10-24X1/2 PH SLT	16
9.	72601284	MACH SCR #10-24X5/8 FH SLT	16
10.	60119271	BRACKET	2



DRAWER ASM 2-3" H X 26" W X 16" D SGL PULL (51715864)

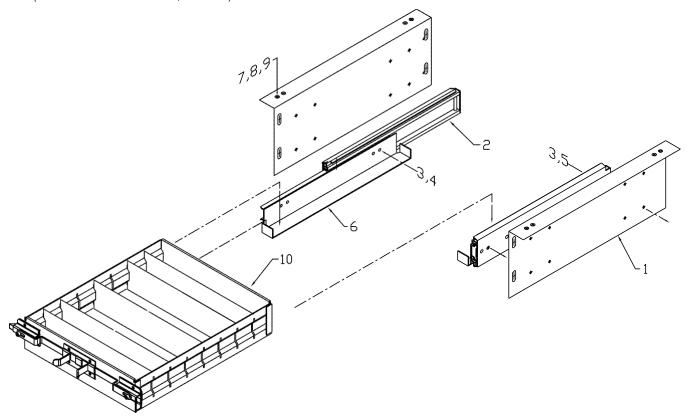
1.	60112288	BRACKET	2
2.	70731440	DRAWER SLIDE 16" - PAINTED	4
3.	60119271	BRACKET	4
4.	70734320	DRAWER W/DIVIDERS - PAINTED	2
	(WAS 7073	33798)	
	(REFEREN	CE FOR SERVICE - UNPAINTED - 707	33414)
5.	60131205	BRACKET	1
6.	72063002	WASHER 5/16 WRT	12
7.	72062109	NUT 0.31-18 HEX NYLOC	6
8.	72060025	CAP SCR 5/16-18X1 HHGR5	6
9.	72062106	NUT #10-24 LOCK	32
10.	72601283	MACH SCR #10-24X1/2 PH SLT	16
11.	72601284	MACH SCR #10-24X5/8 FH SLT	16



SERIAL NUMBERS PRED021074TO PRESENT

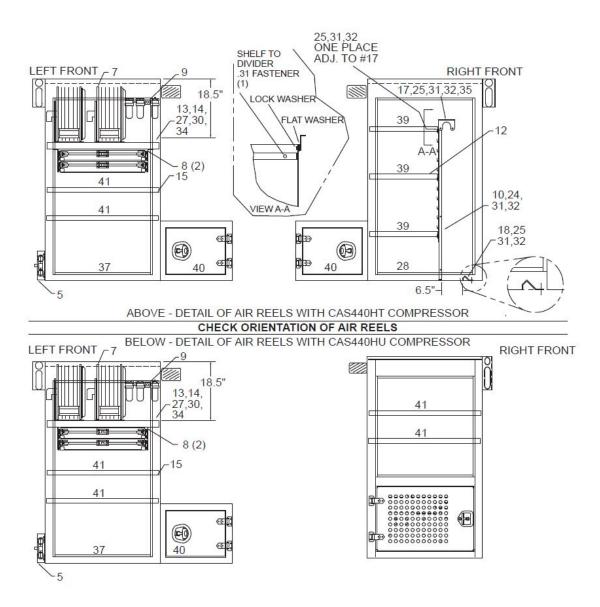
DRAWER ASM 2-3" H X 13" W X 16" D SGL PULL (51716628)

1.	60122288	BRACKET	2	
2.	70731440	DRAWER SLIDE 16"	4	
3.	72062106	NUT #10-24 HEX LOCK	32	
4.	72601283	MACH SCR #10-24X1/2 PH SLT	16	NOTE:
5.	72601284	MACH SCR #10-24X5/8 FH SLT	16	NOT AVAILABLE. REFERENCE FOR SERVICE ONLY.
6.	60119271	BRACKET	4	NOT AWARDED. HET ENERGET GIT GERTIGE GITET.
7.	72060025	CAP SCR 5/16-18X1 HHGR5	4	
8.	72063002	WASHER 5/16 WRT	8	
9.	72062109	NUT 5/16-18 HEX	4	
10.	70733800	DRAWER W/DIVIDERS - PAINTED	2	
	(UNPAINTE	D - 70733486 - REF, SERVICE)		



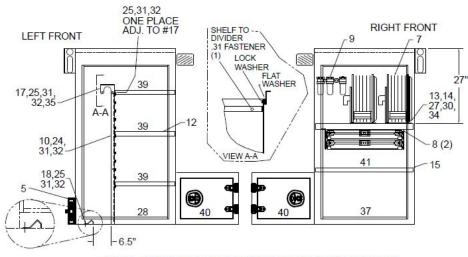
SHELF PACKAGE - PREDATOR WITH LH REELS, W/O CACL $_{\scriptscriptstyle 2}$ SYSTEM (99905227)

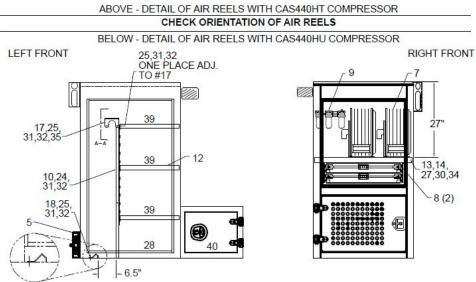
-					25.	72060025	CAP SCREW .31-18X1 HHGR5Z	8REF
2	2.				26.	72060047	CAP SCREW .38-16X1.25 HHGR5Z	21REF
3	3.	REF	PANELASSEMBLY WITH BULKHEAD	1	27.	72060092	CAP SCREW .50-13X1.25 HHGR5Z	8REF
4	١.	51706132	SIDE RAIL	1	28.	60122500	MAT-RUBBER .38X21.5X21.5	REF
5	j.	51717633	DRAINASSEMBLY	1	29.	72062103	NUT .38-16 HEX NYLOCK ZINC	21REF
6	i .	REF	BODY ASSEMBLY-PRED	1	30.	72062080	NUT .50-13 HEX NYLOCK ZINC	10REF
7	.	REF	HOSE REEL-PRED	2	31.	72062109	NUT .31-18 HEX NYLOCK ZINC	18REF
8	3.	51715864	DRAWER ASSEMBLY, 3 X 26 X 16"	2REF	32.	72063002	WASHER .31 W FLAT ANSI B27.2Z	27REF
9).	51715850	FLR - 1/2" HOSE REEL W/O CALCIUM	1	33.	72063003	WASHER .38 W FLAT ANSI B27.2Z	42REF
1	0.	52715818	DIVIDER-WELDMENT, FRONT COMPT	1	34.	72063005	WASHER .50 W FLAT ANSI B27.2Z	20REF
1	1.	60030309	WEAR PAD-LOADGATE	2	35.	72063050	WASHER .31 LOCK ZINC	1REF
1	2.	60121842	SHELF-ADJUSTABLE 17X21.38"	3	36.	72066349	RIVET-POPSS .19X.50 GRIP	14REF
1	3.	60122138	CHANNEL-HOSEREEL	1	37.	60122502	MAT-RUBBER .38X21.5X35.5	REF
1	4.	60122216	ANGLE-REEL SHELF	2	38.	92091010	ICC KIT & FIRE EXT.	1
1	5.	60122217	SHELF-ADJUSTABLE	2	39.	60122499	MAT-RUBBER .08 X 16.5 X 20.5	REF
1	7.	60122241	BRACKET-STOPTIRE CAGE	1	40.	60136465	MAT-RUBBER .38X19.75X22.5	REF
1	8.	60122242	BRACKET-TIRE CAGE BOTTOM	1	41.	60122503	MAT-RUBBER .08X18.25X24.5	REF
1	9.	60135998	PANEL-LOADGATE DECAL	1	42.	72066580	CLAMP	4REF
2	21.	660247	INSERVICE VIDEO	1	43.	72060026	CAP SCREW .31-18X1.25HHGR5Z	6REF
2	2.	70734521	LOADGATE	1	44.	72063053	WASHER .50 LOCK ZINC	2REF
2	23.	60122504	MAT-RUBBER .38X19X39.75	REF	45.	72060094	CAP SCREW .50-13X1.75 HHGR5Z	4REF
2	24.	72060023	CAP SCREW .31-18X.75 HHGR5Z	4REF	NO	TE: REPLACI	ED 51715867 EFF. JUNE 2011	



SHELF PACKAGE - PREDATOR SHELVING WITH RH REELS, W/O CACL $_{\scriptscriptstyle 2}$ SYSTEM

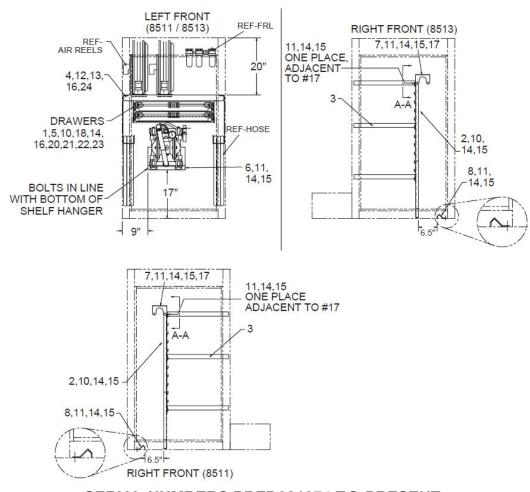
199	(99905228)					CAP SCREW .31-18X1 HHGR5Z	8REF
2.			26.	72060047	CAP SCREW .38-16X1.25 HHGR5Z	21REF	
3.	REF	PANELASSEMBLY WITH BULKHEAD	1	27.	72060092	CAP SCREW .50-13X1.25 HHGR5Z	8REF
4.	51706132	SIDE RAIL	1	28.	60122500	MAT-RUBBER .38X21.5X21.5	REF
5.	51717633	DRAINASSEMBLY	1	29.	72062103	NUT .38-16 HEX NYLOCK ZINC	21REF
6.	REF	BODYASSEMBLY-PRED	1	30.	72062080	NUT .50-13 HEX NYLOCK ZINC	10REF
7.	REF	HOSE REEL-PRED	2	31.	72062109	NUT .31-18 HEX NYLOCK ZINC	18REF
8.	51715864	DRAWER ASSEMBLY, 3 X 26 X 16"	2	32.	72063002	WASHER .31 W FLAT ANSI B27.2Z	27REF
9.	51715850	FLR - 1/2" HOSE REEL W/O CALCIUM	1	33.	72063003	WASHER .38 W FLAT ANSI B27.2Z	42REF
10.	52715818	DIVIDER-WELDMENT, FRONT COMPT	1	34.	72063005	WASHER .50 W FLAT ANSI B27.2Z	20REF
11.	60030309	WEAR PAD-LOADGATE	2	35.	72063050	WASHER .31 LOCK ZINC	1REF
12.	60121842	SHELF-ADJUSTABLE 17X21.38"	3	36.	72066349	RIVET-POPSS .19X.50 GRIP	14REF
13.	60122138	CHANNEL-HOSEREEL	1	37.	60122502	MAT-RUBBER .38X21.5X35.5	REF
14.	60122216	ANGLE-REEL SHELF	2	38.	92091010	ICC KIT & FIRE EXT.	1
15.	60122217	SHELF-ADJUSTABLE	2	39.	60122499	MAT-RUBBER .08 X 16.5 X 20.5	REF
17.	60122241	BRACKET-STOPTIRE CAGE	1	40.	60136465	MAT-RUBBER .38X19.75X22.5	REF
18.	60122242	BRACKET-TIRE CAGE BOTTOM	1	41.	60122503	MAT-RUBBER .08X18.25X24.5	REF
19.	60135998	PANEL-LOADGATE DECAL	1	42.	72066580	CLAMP	4REF
21.	660247	INSERVICE VIDEO	1	43.	72060026	CAP SCREW .31-18X1.25HHGR5Z	6REF
22.	70734521	LOADGATE	1	44.	72063053	WASHER .50 LOCK ZINC	2REF
23.	60122504	MAT-RUBBER .38X19X39.75	REF	45.	72060094	CAP SCREW .50-13X1.75 HHGR5Z	4REF
24.	72060023	CAP SCREW .31-18X.75 HHGR5Z	NOTE: REPLACED 51717217 EFF. JUNE 2011				





SHELF - PREDATOR W/ CACL₂ SYSTEM (51715868)

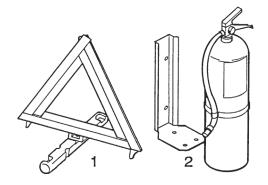
1	60131205	BRACKET-ROLLOUT DRAWER SRD	1
2.	52715818	DIVIDER	1
3.	60121842	ADJUSTABLE SHELF - 17 X 21 38	3
4.	60124755	CHANNEI	1
5.	60122228	BRACKET-ROLLOUT DRAWERS	2
6	60250816	SHELF-CALCIUM PUMP	1
7	60122241	BRACKET-STOP TIRE CAGE	1
8.	60122242	BRACKET-TIRE CAGE BOTTOM	1
9.	60250817	BRACKET-SILLCOCK MTG	1
	72060023	CAP SCR 5/16-18X 3/4 HHGR5Z	4REF
	72060025	CAP SCR 5/16-18X1.00 HHGR5Z	10REF
	72060092	CAP SCR 1/2-13 X 1 25 HHGR57	8RFF
	72062080	NUT 1/2-13 HEX NYLOC	8REF
	72062109	NUT 5/16-18 HEX NYLOC	14REF
		WASHER 5/16 FLAT	25REF
		WASHER 1/2 FLAT	16REF
17.	72063050	WASHER 5/16 LOCK	1REF
18.	70733798	DRAWER W/DIVIDERS - PAINTED	2
	(UNPAINTE	D - 70733414 - REF, SERVICE)	
19.	`	BRACKET-ROLLOUT DRAWER	4
20.	72601284	SCR-MACH 10-24 X 5/8 FLH SLOT	16REF
21.	72601283	SCR-MACH 10-24 X 1/2 PN SL	16REF
22.	72062106	NUT 10-24 HEX NYLOC	32REF
23.	70731440	DRAWER-SLIDE 16"	4
24.	60123357	BRACKET-REEL SHELF SUPPORT	2



SERIAL NUMBERS PRED021074 TO PRESENT

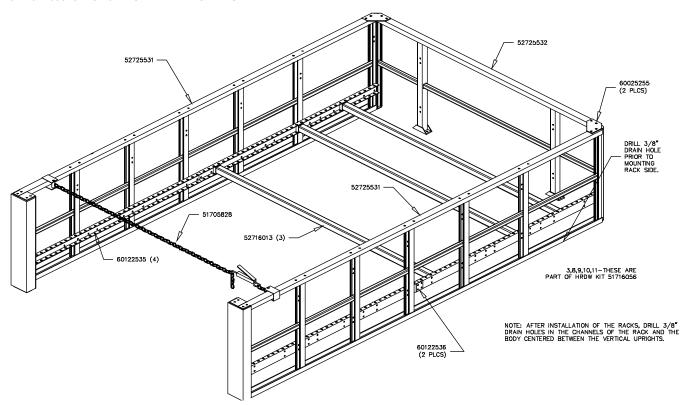
I.C.C. SAFETY KIT (92091010)

- 1. 70073146 TRIANGULAR REFLECTOR KIT (Includes 3 reflectors and case)
- 2. 70073147 FIRE EXTINGUISHER (with bracket) 1

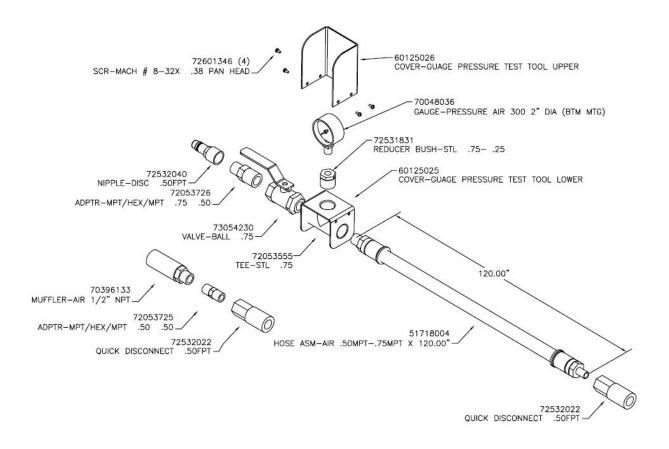


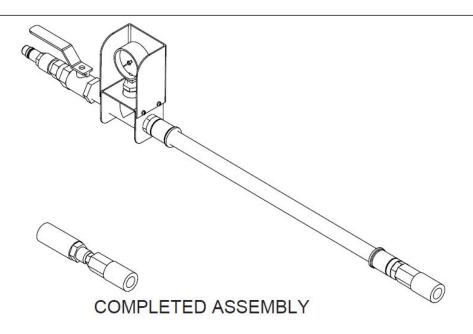
RACK EXTENSION KIT-72" (51715984) - 8513

1.	52725531	RACK EXTENSION	2
2.	52725532	RACK EXTENSION-FRONT	1
3.	76392821	WASHER 3/8 BONDED	12REF
4.	60122535	CHANNEL	4
5.	60122536	PLATE	2
6.	60122575	SPACER	2REF
7.	52716013	DIVIDER BAR	3
8.	71731461	T-PIN QUICK RELEASE	6REF
9.	72062167	NUT 5/16-18 LOCK SS	84REF
10.	72063152	WASHER 5/16 WRT SS	84REF
11.	72601590	CAP SCR 5/16-18X1 TRH PHH SS	84REF
12.	60025255	CORNER GUSSET	2
13.	51705828	CROSS CHAIN KIT-LIGHT DUTY	1



TIRE INFLATION / PRESSURE CHECK TOOL ASM (51717984)





2

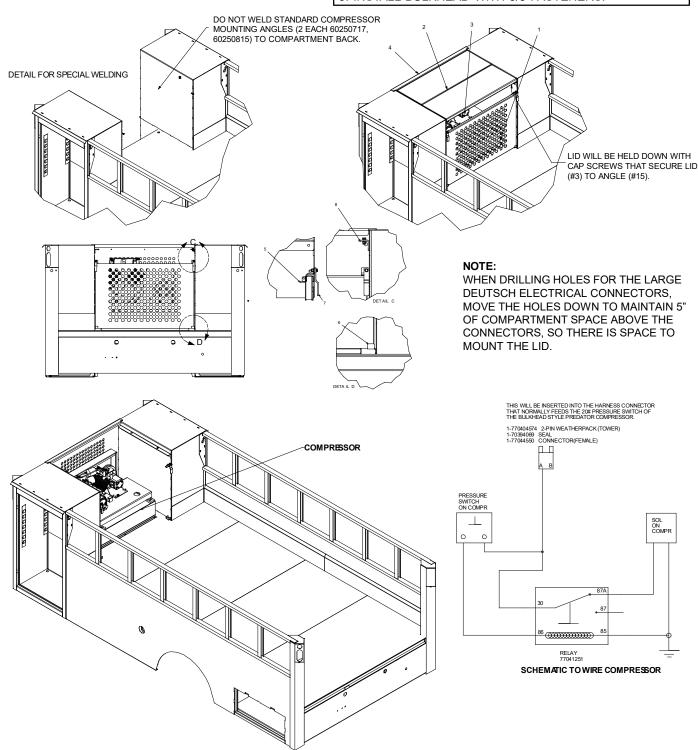
CAS440HT COMPRESSOR INSTALLATION (99903908)

52717980 GATE 1. 2. 52720046 LID 23000080 COMPRESSOR, CAS440HT 3 60251190 **PANEL GATE STOP** 60109403 2 **GATE HOLDER** 2 6. 60109404 2 60010921 LATCH

60251209 ANGLE

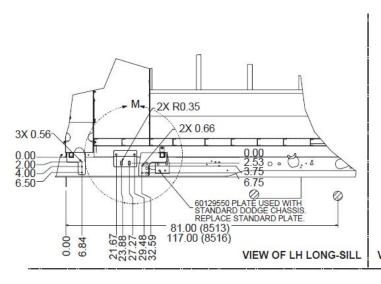
- NOTES:

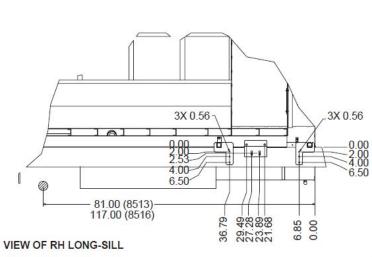
 1. MOUNTING HARDWARE FOR BULKHEAD, GATE AND LID INCLUDED IN KIT 51720048.
- 2. INSTALL GATE WITH 5/16 FASTENERS.
- 3. INSTALL LID SUPPORT ANGLES WITH 3/8 FASTENERS.
- 4. SECURE LID IN PLACE WITH 5/16 FASTENERS.
- 5. INSTALL BULKHEAD WITH 3/8 FASTENERS.

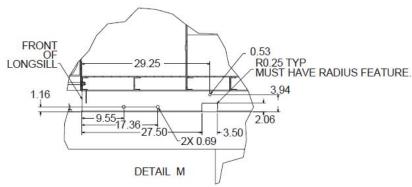


CAS440HU COMPRESSOR INSTALLATION (99903962-1)

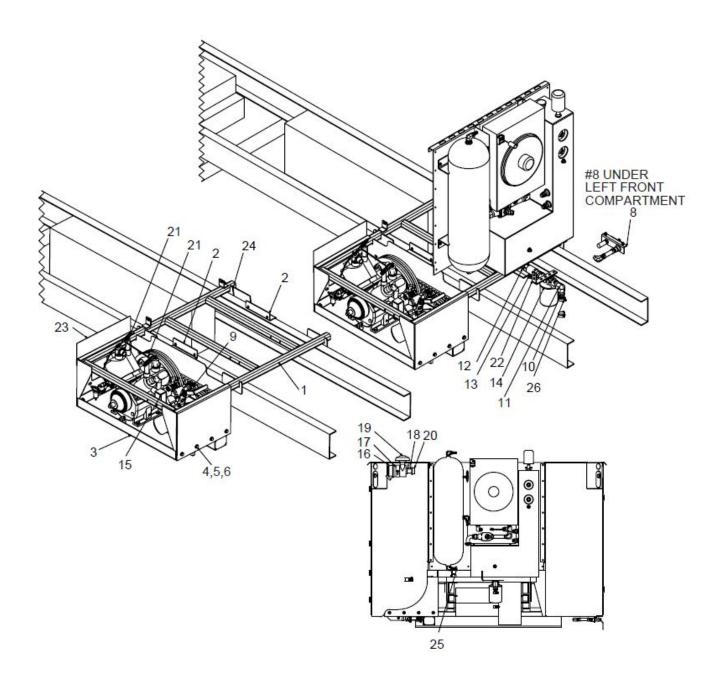
•	10 1 10110		<u> </u>
1.	52720150	FRAME-COMPESSOR	1
2.	60129552	BRACKET-MOUNTING	2
3.	51720149	COMPRESSOR-DA440HU FOR PRED	1
4.	72062080	NUT .50-13 HEX NYLOCK	9
5.	72063005	WASHER .50 FLAT	16
6.	72060093	CAP SCREW .50-13X 1.50 HH GR5 Z	8
7.	72532552	HOSE FITTING- 4 .25 BRS	1
8.	51709358	DRAIN ASM-AIR TANK UNDER DECK	1
9.	60130639	PANEL-FILLER-DA440HU GUARD	1
10.	72531550	NIPPLE-BARB STL 1.25MPT 1.25	1
11.	72531135	ELBOW-STREET STL 1.25 X 90 DEG	2
12.	72053729	ADPTR-MPT/HEX/MPT 1.25 1.25	2
13.	73054232	VALVE-BALL 1.25	1
14.	73052012	FILTER-HYD SUC-100 MESH W/GAGE	1
15.	52720782	MANIFOLD-WLDMTAIR FLTR	1
16.	70048215	FILTER-AIR ASSY BAND-AIR FILTER 4.8 INDICATOR-AIR FILTER CAP-AIR FILTER 4.8	1
17.	70048216	BAND-AIR FILTER 4.8	1
18.	70048222	INDICATOR-AIR FILTER	1
19.	70048223	CAP-AIR FILTER 4.8	1
20.	76396153	INSERT-RUBBERAIR FILTER 2.5 X 1.75	1
21.	60111854	ADAPTER-RMT AIR FLTR BRACKET-OIL FILTER COVER-CAS440HU SIDE PLATE-MOLINITING	2
22.	60103870	BRACKET-OIL FILTER	1
23.	60132927	COVER-CAS440HU SIDE	1
24.	60129550	I B (I E MOOITING	
25.	72661657	CLAMP-HOSE .75 STEPLESS EAR	3
26.	72661642	CLAMP-HOSE 1.75 T-BOLT	3
27.	99904497	DRAWING-PRED W-DA440HU	REF



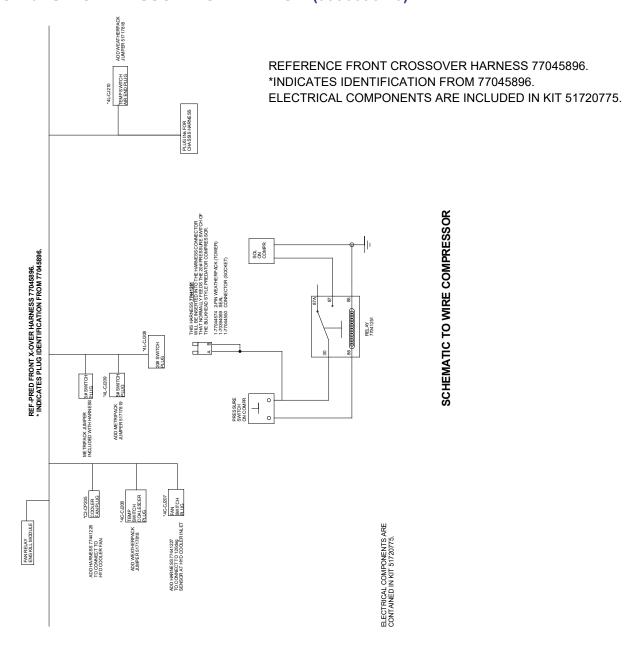




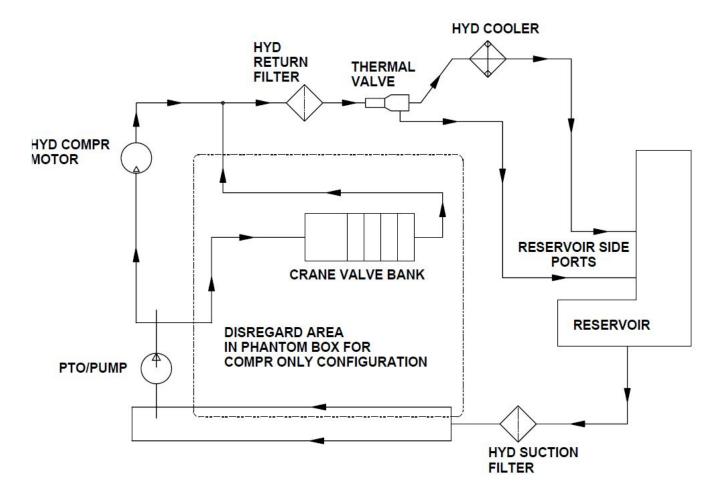
CAS440HU COMPRESSOR INSTALLATION (99903962-2)



CAS440HU COMPRESSOR INSTALLATION (99903962-3)

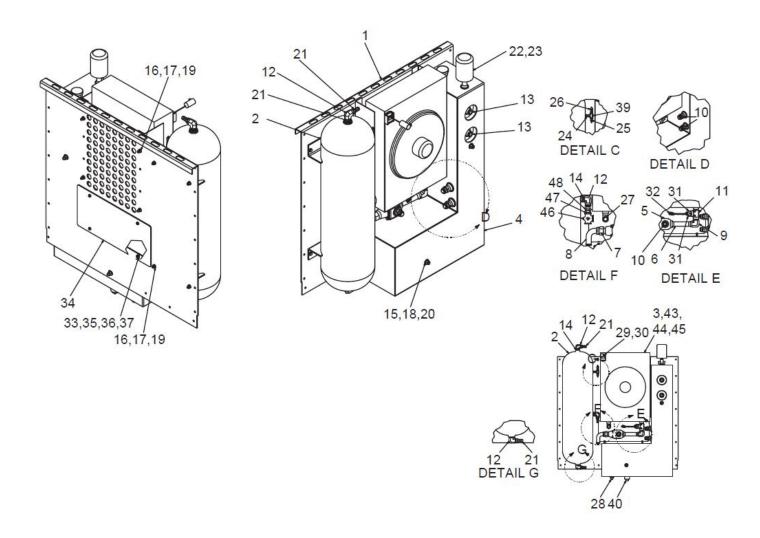


CAS440HU COMPRESSOR INSTALLATION (99903962-4)



PANEL ASSEMBLY. CAS440HU COMPRESSOR (99904497)

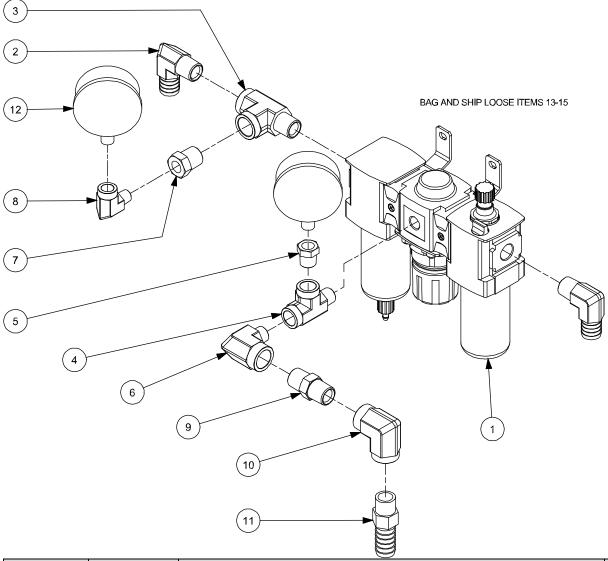
	IIIL AU	CEMBEI, CACTTOILE CO	1411 175	0001	· 10000+	TO 1)	
1.	60251226	PANEL-BULKHEAD	1	25.	72532552	HOŚE FTG-TYPE O 4 .25 BRS	1
2.	70733696	TANK-AIR 20 GAL	1	26.	73054032	VALVE-PRESSURE RELIEF .25 200 PSI	1
3.	51719994		1	27.	72531430	ELBOW-MPT/90/M JIC 1.00 16	1
4.	52720167	RESERVOIR-WELDMENT 31 GAL	1	28.	73052001	PLUG-PIPE MAGNETIC .75NPT SQHD	2
5.	73540129		1	29.	77041655	RELAY MODULE	1
6.	72053192	NIPPLE-PIPE BLK 1.00X 6.00	1	30.	72061099	SCR-TEK 10-16X .62 HWH	2
7.	72532860	ADPTR-MPT/FPT STL 1.00 1.25	1	31.	72531835	REDUCER BUSH-STL 1.0050	1
8.	72532346	NIPPLE-BARB 90 DEG 1.25 1.25	1	32.	77041659	SWITCH-TEMP FAN NO 120 DEGREES	1
9.	72531134	ELBOW-STREET STL 1.00 X 90 DEG	1	33.	72062301	NUT-TINNERMAN 1/4-20UNC	4
10.	72053680	ADPTR-MPT/M JIC 1.00 16	3	34.	60251239	COVER	1
11.	72534382	TEE-STREET STL 1.00	1	35.	72063001	WASHER .25 FLAT	4
12.	72053556	ELBOW-STREET STL .75 X 90 DEG	3	36.	72063049	WASHER .25 LOCK	4
13.	72532681	SIGHT GAUGE75 PLUG W/REFLCT	2	37.	72060002	CAP SCR .25-20X .75 HH GR5 Z	4
14.	72053559	REDUCER BUSHING-STL 1.0075	2	39.	72053610	TEE-STL .25	1
15.	72062080	NUT .50-13 HEX NYLOCK	4	40.	72053249	PLUG-PIPE SQ HD BLK 1.25	1
16.	72062103	NUT .38-16 HEX NYLOCK	12	41.	51397654	HOSE-FJ 1.00 X 10.50 (16-16) 100R4	1
17.	72063003	WASHER .38 FLAT	24	42.	51397655	HOSE-FJ 1.00 X 15.50 (16-16) 100R4	1
18.	72063005	WASHER .50 FLAT	4	43.	77044573	CONNECTOR	1
19.	72060047	CAP SCREW .38-16X 1.25 HH GR5 Z	12	44.	70394069	CABLE SEAL	2
20.	60109307	ROD-THREADED .50-13 X 14.00	2	45.	77045887	TERMINAL	2
21.	72053458	NIPPLE-BARB BRS .75MPT .75	2	46.	301142	VALVE-CHECK .75 IN	1
22.	72533514	ADPTR-BREATHER FILTER OIL TANK	1	47.	72053558	ADPTR-MPT/HEX/MPT .75 .75	1
23.	73054974	FILTER-BREATHER OIL RESERVOIR	1	48.	72053645	ADPTR-MPT/FPT SWVL .75 .75	1
24.	72053517	ADPTR-MPT/HEX/MPT .25 .25	1				



SECTION 3. AIR SYSTEM COMPONENTS

FLR ASM-1/2" (51715850-1)	3-4
FLR ASM-1/2" (51715850-2)	
SHELF PACKAGE - PREDATOR WITH LH REELS,	
W/O CACL2 SYSTEM (99905227)	3-4
SHELF PACKAGE - PREDATOR SHELVING WITH RH REELS,	
W/O CACL2 SYSTEM (99905228)	3-6
CAB CADDY ASSEMBLY BRACKÉTS (99904243)	
AIR TANK DRAIN ASM - 8511 (52715970)	3-9
AIR TANK DRAIN ASM - 8513 (52717633)	
HOSE REEL - CURB SIDE (70733731) (THRU 4-30-03, AFTER 5-28-03)	3-10
HOSE REEL KIT-1/2 X 50' HOSE (51706347) (EFF. 5-1-03 THRU 5-28-03)	3-10
HOSE REEL - STREET SIDE (70733732) (THRU 4-30-03, AFTER 5-28-03)	3-10
PANEL ASM (51717813)	3-11
EAR CLAMP INSTALLATION (99904411)	
·	

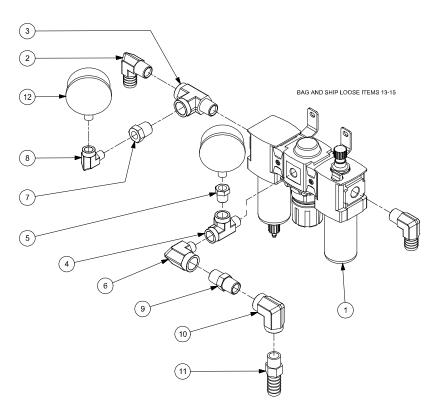
FRL-.50 HOSE REEL PRED P32 WO/CALCM (51744237)



ITEM NO.	PART NO.	DESCRIPTION	QTY.			
1	70048266	MOISTURE SEP-REG-DOM P32 W-COMMON PORT	1			
2	72533592	NIPPLE-BARB BRS .50MPT/90/.75	2			
3	72533587	TEE-BRS RUN .50	1			
4	72533586	TEE-BRS RUN .38	1			
5	72533588	REDUCER BUSH-BRS .3825	1			
6	72533644	ELBOW-BRS MPT/FPT .38 .50	1			
7	72531812	REDUCER BUSH-BRS .5025	1			
8	72532974	ELBOW-STREET BRS .25 X 90 SHORT	1			
9	72534399	NIPPLE-PIPE BRS .50X 1.50	1			
10	72534400	ELBOW-BRS FPT/FPT .50 X 90 DEG	1			
11	72531547	NIPPLE-BRS BARB .50MPT .75	1			
12	70048205	GAUGE-PRESS AIR 300 (6001-2.5)	2			
13	72602164	CAP SCR M 5/8 TRACK BOLT GRA-ZP	1			
14	72062104	NUT .25-20 HEX GR5 Z NYLOCK	1			
15 72063001 WASHER-FLAT .25 W ANSI B27.2			1			
REV. INITIAL	REV. INITIAL RELEASE CN1011					

Predator 8511/8513/8516 Manual #99903299kosh Corporation @Lassification - Restrict SECTION 3 – AIR SYSTEM COMPONENTS

Predator 8511/8513/8516 Manual #99903299kosh Corporation @Lassification - Restrict SECTION 3 - AIR SYSTEM COMPONENTS FLR ASM-1/2" (51715850-1)



ITEM NO.	PART NO	DESCRIPTION	QTY.
1.	70048266	MOISTURE SEP-REG-DOM P32 W-COMMON PORT	1
2.	72533592	NIPPLE-BARB BRS .50MPT/90/.75	2
3.	72533587	TEE-BRS RUN .50	1
4.	72533586	TEE-BRS RUN .38	1
5.	72533588	REDUCER BUSH-BRS .3825	1
6.	72533644	ELBOW-BRS MPT/FPT .38 .50	1
7.	72531812	REDUCER BUSH-BRS .5025	1
8.	72532974	ELBOW-STREET BRS .25 X 90 SHORT	1
9.	72534399	NIPPLE-PIPE BRS .50X 1.50	1
10.	72534400	ELBOW-BRS FPT/FPT .50 X 90 DEG	1
11.	72531547	NIPPLE-BRS BARB .50MPT .75	1
12.	70048205	GAUGE-PRESS AIR 300 (6001-2.5)	2
13.	72602164	CAP SCR M 5/8 TRACK BOLT GRA-ZP	1
14.	72062104	NUT .25-20 HEX GR5 Z NYLOCK	1
15.	72063001	WASHER-FLAT .25 W ANSI B27.2	1
REV. INITIAL	RELEASE CN10	011	•

3-5

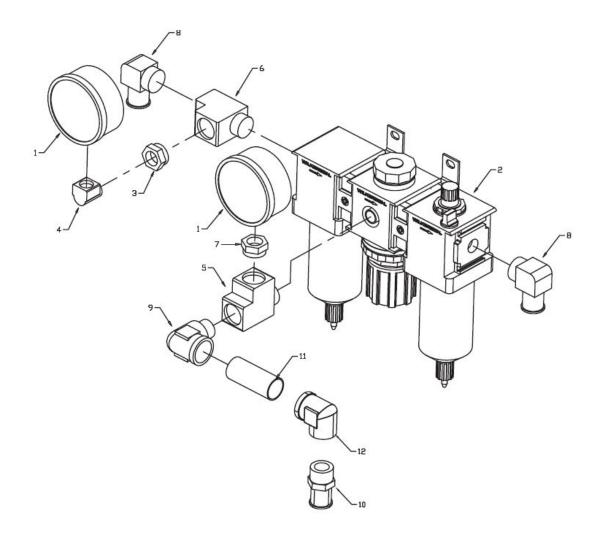
Predator 8511/8513/8516 Manual #99903299

FLR ASM-1/2" (51715850-1)

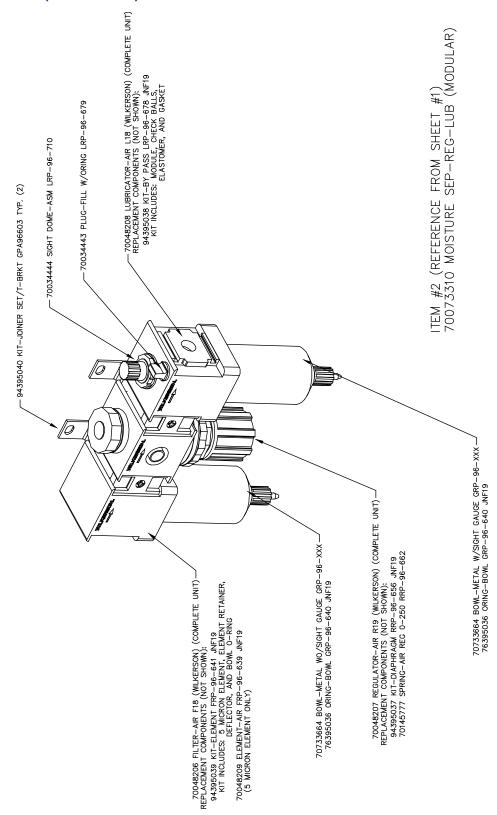
1.	70048205	GAUGE-AIR PRESSURE 300PSI	2
2.	70073310	MOISTURE SEP/REG/LUBE	1
3.	72531812	REDUCER BUSHING 1/2-1/4NPT	1
4.	72532974	STREET ELBOW 1/4NPT 90° SHORT	1
5.	72533586	TEE 3/8NPT RUN	1
6.	72533587	TEE 1/2NPT RUN	1
7.	72533588	REDUCER BUSHING 3/8-1/4NPT	1
8.	72533592	BARB NIPPLE 1/2MPT 3/4HOSE 90°	2
9.	72533644	ELBOW 3/8MPT 1/2FPT	1
10.	72533645	BARB NIPPLE 1/2MPT 3/4HOSE	1
11.	72534399	NIPPLE, PIPE BRS 1/2 X 2	1
12.	72534400	ELBOW, BRS 1/2 FPT X 1/2 FPT X 90°	1

SECTION 3 – AIR SYSTEM COMPONENTS

CONTINUED ON FOLLOWING PAGE



FLR ASM-1/2" (51715850-2)

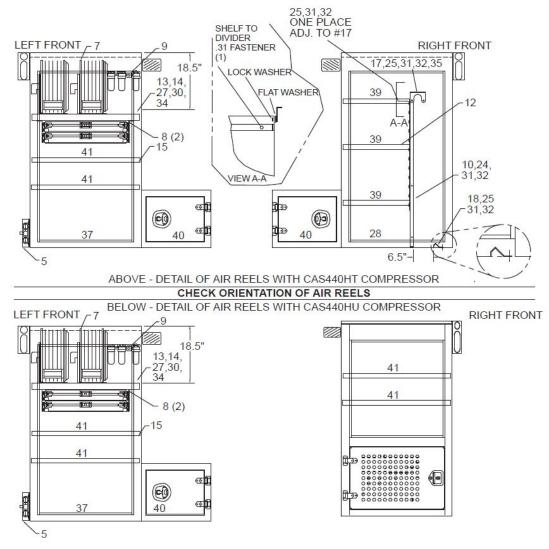


EFFECTIVE FROM 2/14/00 TO PRESENT

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SHELF PACKAGE - PREDATOR WITH LH REELS, W/O CACL, SYSTEM (99905227)

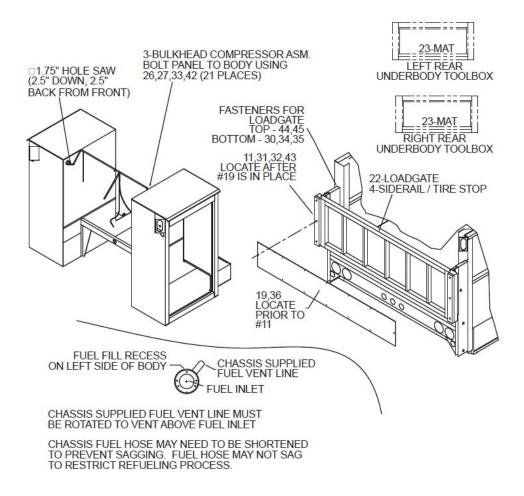
1.				25. 72060025 CAP SCREW .31-18X1 HHGR5Z	8REF
2.				26. 72060047 CAP SCREW .38-16X1.25 HHGR5Z	21REF
3.	REF	PANELASSEMBLY WITH BULKHEAD	1	27. 72060092 CAP SCREW .50-13X1.25 HHGR5Z	8REF
4.	51706132	SIDE RAIL	1	28. 60122500 MAT-RUBBER .38X21.5X21.5	REF
5.	51717633	DRAINASSEMBLY	1	29. 72062103 NUT .38-16 HEX NYLOCK ZINC	21REF
6.	REF	BODYASSEMBLY-PRED	1	30. 72062080 NUT .50-13 HEX NYLOCK ZINC	10REF
7.	REF	HOSE REEL-PRED	2	31. 72062109 NUT .31-18 HEX NYLOCK ZINC	18REF
8.	51715864	DRAWER ASSEMBLY, 3 X 26 X 16"	2REF	32. 72063002 WASHER .31 W FLATANSI B27.2Z	27REF
9.	51715850	FLR - 1/2" HOSE REEL W/O CALCIUM	1	33. 72063003 WASHER .38 W FLATANSI B27.2Z	42REF
10.	52715818	DIVIDER-WELDMENT, FRONT COMPT	1	34. 72063005 WASHER .50 W FLAT ANSI B27.2Z	20REF
11.	60030309	WEAR PAD-LOADGATE	2	35. 72063050 WASHER .31 LOCK ZINC	1REF
12.	60121842	SHELF-ADJUSTABLE 17X21.38"	3	36. 72066349 RIVET-POPSS .19X.50 GRIP	14REF
13.	60122138	CHANNEL-HOSEREEL	1	37. 60122502 MAT-RUBBER .38X21.5X35.5	REF
14.	60122216	ANGLE-REEL SHELF	2	38. 92091010 ICC KIT & FIRE EXT.	1
15.	60122217	SHELF-ADJUSTABLE	2	39. 60122499 MAT-RUBBER .08 X 16.5 X 20.5	REF
17.	60122241	BRACKET-STOPTIRE CAGE	1	40. 60136465 MAT-RUBBER .38X19.75X22.5	REF
18.	60122242	BRACKET-TIRE CAGE BOTTOM	1	41. 60122503 MAT-RUBBER .08X18.25X24.5	REF
19.	60135998	PANEL-LOADGATE DECAL	1	42. 72066580 CLAMP	4REF
21.	660247	INSERVICE VIDEO	1	43. 72060026 CAP SCREW .31-18X1.25HHGR5Z	6REF
22.	70734521	LOADGATE	1	44. 72063053 WASHER .50 LOCK ZINC	2REF
23.	60122504	MAT-RUBBER .38X19X39.75	REF	45. 72060094 CAP SCREW .50-13X1.75 HHGR5Z	4REF
24.	72060023	CAP SCREW .31-18X.75 HHGR5Z	4REF	NOTE: REPLACED 51715867 EFF. JUNE 2011	



99905227 EFFECTIVE JUNE 2011

SHELF PACKAGE - PREDATOR WITH LH REELS, W/O CACL, SYSTEM (99905227)

PARTS NOT SHOWN: 21-INSERVICE VIDEO (SHIP IN CAB) BUG DEFLECTOR (INSTALLED ON HOOD OF CAB) 38-ICC SAFETY KIT (SHIP WITH UNIT) INSTALL KIT (USED TO FASTEN BODY TO CHASSIS) MANUAL (SHIP LOOSE WITH UNIT)

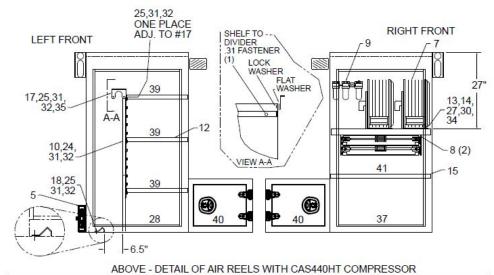


Parts not shown: Item #21 - Inservice video Bug deflector (installed on hood of cab) Item #38 - ICC safety kit Installation Kit (Used to fasten body to chassis) Manual (Shipped loose with unit.)

CONTINUED ON FOLLOWING PAGE

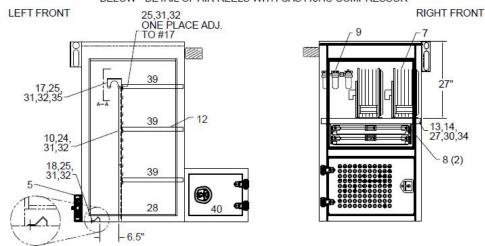
SHELF PACKAGE - PREDATOR SHELVING WITH RH REELS, W/O CACL, SYSTEM (99905228)

1.				25. 72060025 CAP SCREW .31-18X1 HHGR5Z 8R	REF
2.					REF
3.	REF	PANELASSEMBLY WITH BULKHEAD	1	27. 72060092 CAP SCREW .50-13X1.25 HHGR5Z 8R	REF
4.	51706132	SIDE RAIL	1	28. 60122500 MAT-RUBBER .38X21.5X21.5 RE	∃F
5.	51717633	DRAINASSEMBLY	1	29. 72062103 NUT .38-16 HEX NYLOCK ZINC 21	REF
6.	REF	BODY ASSEMBLY-PRED	1	30. 72062080 NUT .50-13 HEX NYLOCK ZINC 10	REF
7.	REF	HOSE REEL-PRED	2	31. 72062109 NUT .31-18 HEX NYLOCK ZINC 18	REF
8.	51715864	DRAWER ASSEMBLY, 3 X 26 X 16"	2	32. 72063002 WASHER .31 W FLAT ANSI B27.2Z 27	REF
9.	51715850	FLR - 1/2" HOSE REEL W/O CALCIUM	1	33. 72063003 WASHER .38 W FLAT ANSI B27.2Z 42	REF
10.	52715818	DIVIDER-WELDMENT, FRONT COMPT	1	34. 72063005 WASHER .50 W FLAT ANSI B27.2Z 20	REF
11.	60030309	WEAR PAD-LOADGATE	2	35. 72063050 WASHER .31 LOCK ZINC 1R	REF
12.	60121842	SHELF-ADJUSTABLE 17X21.38"	3	36. 72066349 RIVET-POPSS .19X.50 GRIP 14	REF
13.	60122138	CHANNEL-HOSEREEL	1	37. 60122502 MAT-RUBBER .38X21.5X35.5 RE	F
14.	60122216	ANGLE-REEL SHELF	2	38. 92091010 ICC KIT & FIRE EXT. 1	
15.	60122217	SHELF-ADJUSTABLE	2	39. 60122499 MAT-RUBBER .08 X 16.5 X 20.5 RE	F
17.	60122241	BRACKET-STOPTIRE CAGE	1	40. 60136465 MAT-RUBBER .38X19.75X22.5 RE	=F
18.	60122242	BRACKET-TIRE CAGE BOTTOM	1	41. 60122503 MAT-RUBBER .08X18.25X24.5 RE	=F
19.	60135998	PANEL-LOADGATE DECAL	1	42. 72066580 CLAMP 4R	REF
21.	660247	INSERVICE VIDEO	1	43. 72060026 CAP SCREW .31-18X1.25HHGR5Z 6R	REF
22.	70734521	LOADGATE	1	44. 72063053 WASHER .50 LOCK ZINC 2R	REF
23.	60122504	MAT-RUBBER .38X19X39.75	REF	45. 72060094 CAP SCREW .50-13X1.75 HHGR5Z 4R	REF
24.	72060023	CAP SCREW .31-18X.75 HHGR5Z	4REF	NOTE: REPLACED 51717217 EFF. JUNE 2011	



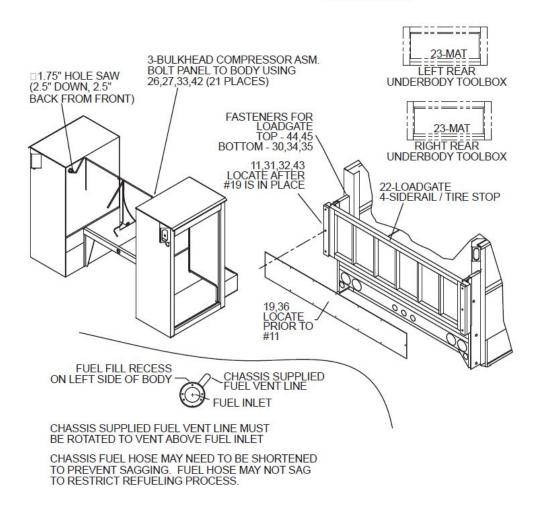
CHECK ORIENTATION OF AIR REELS

BELOW - DETAIL OF AIR REELS WITH CAS440HU COMPRESSOR



SHELF PACKAGE - PREDATOR WITH RH REELS, W/O CACL, SYSTEM (99905228)

PARTS NOT SHOWN: 21-INSERVICE VIDEO (SHIP IN CAB) BUG DEFLECTOR (INSTALLED ON HOOD OF CAB) 3B-ICC SAFETY KIT (SHIP WITH UNIT) INSTALL KIT (USED TO FASTER BODY TO CHASSIS) MANUAL (SHIP LOOSE WITH UNIT)



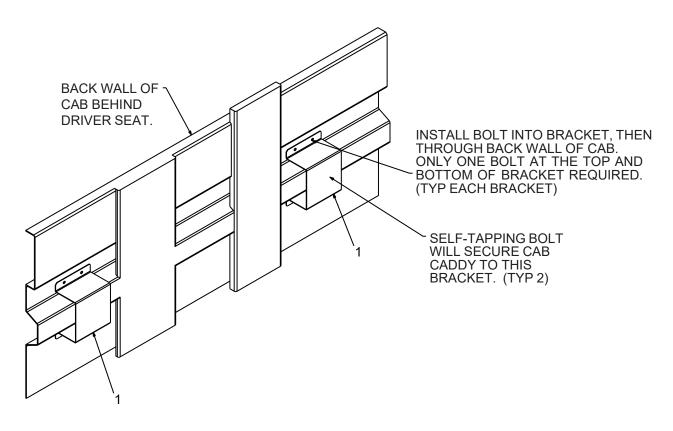
Parts not shown: Item #21 - Inservice video Bug deflector (installed on hood of cab) Item #38 - ICC safety kit Installation Kit (Used to fasten body to chassis) Manual (Shipped loose with unit.)

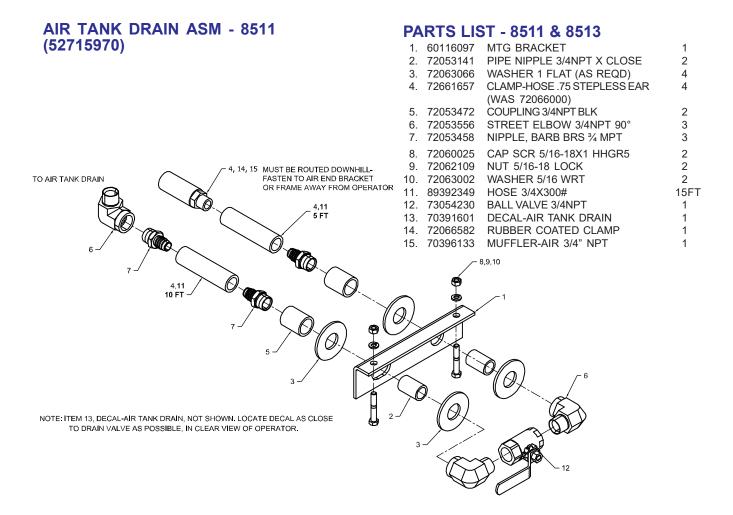
CAB CADDY ASSEMBLY BRACKETS (99904243)

(FOR FORD F-350-550, 2007 - 2009)

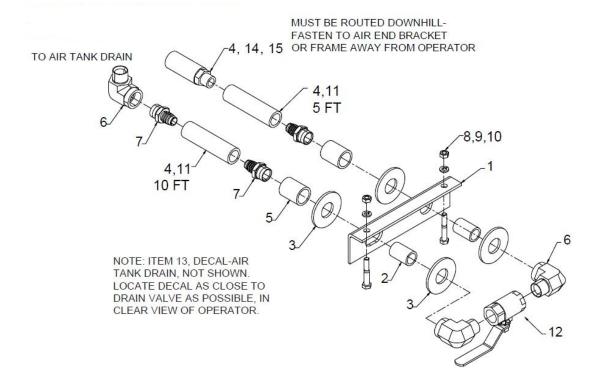
1. 60131663 BRACKET-CAB CADDY

2



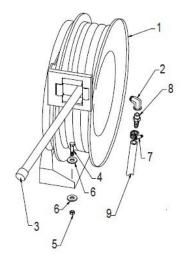


AIR TANK DRAIN ASM - 8513 (52717633)



NOTE:

HOSE REEL KIT 51706347 EFFECTIVE 5-1-03 THRU 5-28-03. 70733731 AND 70733732 ARE EFFECTIVE BEFORE 5-1-03 AND AFTER 5-28-03.

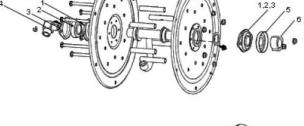


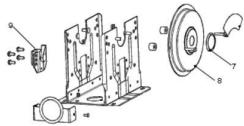
HOSE REEL KIT-1/2 X 50' HOSE (51706347) (EFF. 5-1-03 THRU 5-28-03)

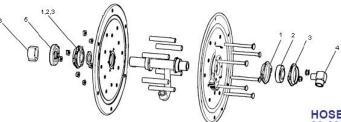
, ·	1101001	III C C LC CC/	
1.	70732095	HOSE REEL	1
2.	72531133	STREET ELBOW 1/2X90°	1
3.	72053810	PIPE CAP 1/2NPT	1
4.	72060046	CAP SCR 3/8-16X1 HHGR5	4
5.	72062103	NUT 3/8-16 LOCK	4
6.	72063003	WASHER 3/8 WRT	8
7.	72066000	HOSECLAMP	2
8.	72051547	BARB NIPPLE 1/2MPT 3/4HOSI	E 2
9.	89392349	HOSE 3/4 300#	36'

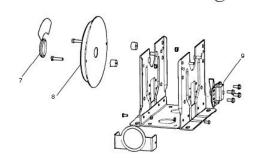












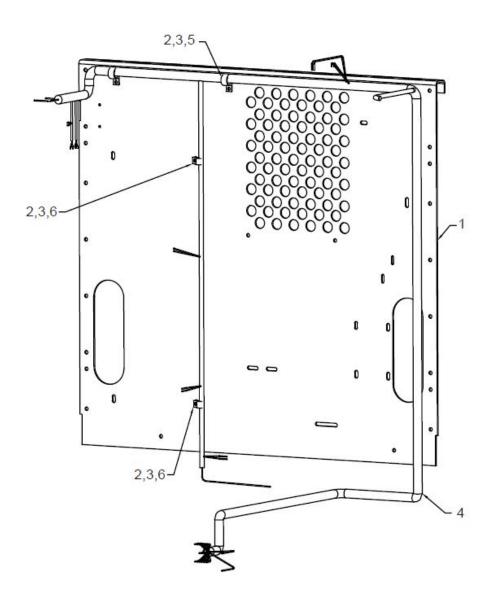
HOSE REEL - STREET SIDE (70733732) (THRU 4-30-03, AFTER 5-28-03)

	,		
1.		BRNG HOLD, SELF-ALIGN (SLO	T) 2
2.		BRNG INSERT, SELF-ALIGN	2
3.		BRNG HOLDER, SELF-ALIGN	2
4.		SWIVEL JOINT, MXF 1/2" 90°	1
5.		CAP-PLUG, SPRING (INNER)	1
6.		SPRING ARBOR, NARROW	1
7.		CAP-PLUG, SPRING (OUTER)	1
8.	71410226	LEFT SPRING MOTOR	1
9.		RATCHETPAWLASM	1

PANEL ASM (51717813)

		()	
1.	60124207	PANEL-COMPRESSOR MOUNT	1
2.	72060046	CAP SCR 3/8-16 X 1.00 HH GR5	7
3.	72062103	NUT 3/8-16 HEX NYLOC	7
4.	77045896	HARNESS-AIR SYSTEM	1
5.	72066581	CLAMP-UMP20 S464 G16	5
6.	72661312	CLAMP-1/2 LOOP CUSHIONED	2
7.	77044676	PLUG-PKRD WP/MP PLUG	2
8.	77040441	CONN-PKRD MP 2802 CAV FEMALE	3
9.	77044574	CONN-PKRD WP 2CAV FEM TOWER	3
10.	77044573	CONN-PKRD WP 2CAV MALE/SHROUD	1
11	77045885	CONN-PKRD MP 280 7 CAV MALE	1

PARTS 7 THROUGH 11 USED TO PLUG CONNECTORS ON HARNESS (#4).



SECTION 3 – AIR SYSTEM COMPONENTS

SERIAL NUMBERS PRED021074 TO PRESENT

EAR CLAMP INSTALLATION (99904411)

INSTALLING A STEPLESS EAR CLAMP

When there is sufficient room, use standard jaw pincers to position a properly-sized ear clamp on a hose fitted with a hose stem. Close ear clamp fully with uniform force until there is only a 1/16" gap remaining. The visible deformation of the clamp ear provides a visible, instant check that the closure is complete.



INSTALLING A STEPLESS EAR CLAMP IN RESTRICTED SPACE

When space is restricted, use side jaw pincers held parallel to the hose to position and clamp a properly-sized ear clamp on a hose fitted with a hose stem. Close ear clamp fully with uniform force until there is only a 1/16" gap remaining. The visible deformation of the clamp ear provides a visible, instant check that the closure is complete.



REMOVING A STEPLESS EAR CLAMP

To remove a stepless ear clamp, grasp the strip end with a pincer and pull it away.

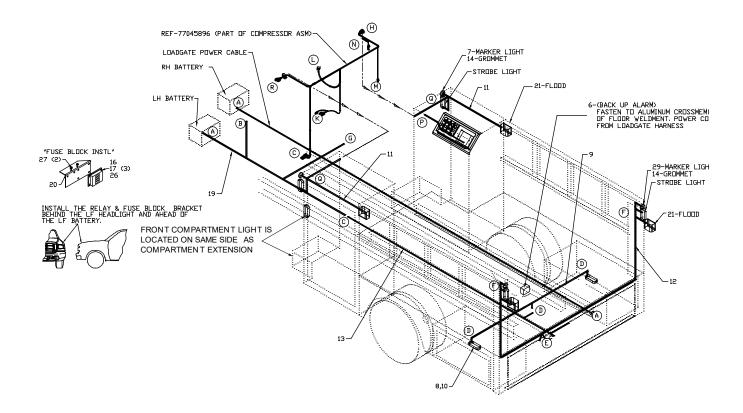


NOTE: Stepless ear clamps can only be used once. When removed, they must be discarded and replaced with new clamps.

SECTION 4. ELECTRICAL COMPONENTS

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ELECTRICAL INSTALLATION (41724679-3)4-4
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(99903409-5)4-19

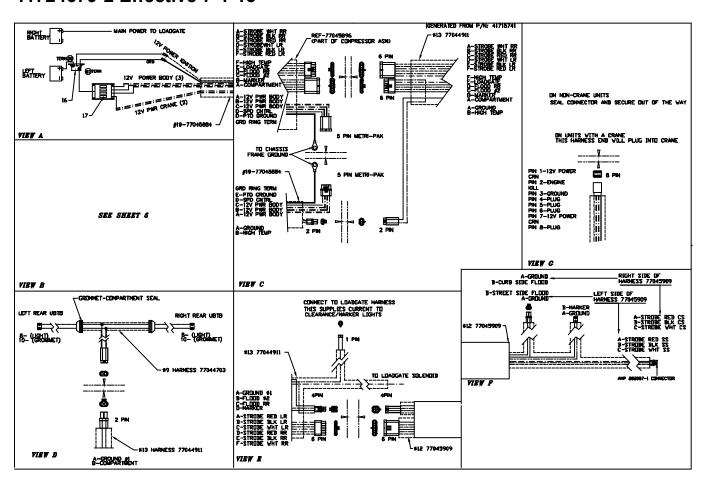
Electrical Installation (41724679-1) Effective 7-1-15



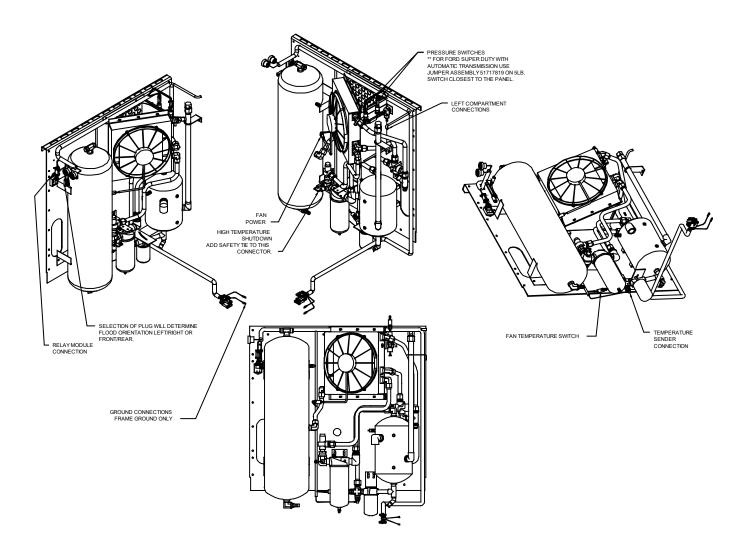
41724679 (1-5) COMPLETE PARTS LIST			
ITEM	PART NO.	DESCRIPTION	QTY
1	72060004	CAP SCRR .25-20 X 1.00 HH GR5 Z	2
2	77044550	TERMINAL-FEM 18-20 GA WEATRPK	REF
3	77044623	CONN-PKRD F 4-WAY WEATRPK FLAT	REF
4	70145522	RETAINER-SPRING CLIP WIRE HARNESS	19
5	72661491	CLIP-CONDUIT CLAMP PACKARD	4
6	77040020	ALARM-BACKUP HORN	1
7	77040358	LIGHT-CLEAR AMBER 30200Y	2
8	77040384	LIGHT-COMPARTMENT 12V 2.1AMP	4
9	77044703	HARNESS-WIRING COMP LIGHT UBTB	1
10	76394572	GROMMET-2 X 6 OVAL COMPT LIGHT	4
11	77045912	HARNESS-COMPARTMENT FRONT PREDATOR	2
12	77045909	HARNESS-REAR FLOOD STORBE PREDATOR	1
13	77044911	HARNESS-POWER MAIN PREDATOR	1
14	79393636	GROMMET-RUBBER 2.00 30700	4
15	72063001	WASHER-FLAT .25 W ANSI B27.2 Z	4
16	77040391	RELAY-12V DC 75AMP	REF
17	77041616	FUSE-MAXI 40 AMP	REF
18	70733297	IDLE CONTROL 99 FORD	REF
19	77045884	HARNESS-CHASISS POWER PREDATOR	REF
20	60128133	BRACKET-EFM DOMII SERIES II	REF

41724679 (1-5) COMPLETE PARTS LIST			
ITEM	PART NO.	DESCRIPTION	QTY
21	77040404	LIGHT-COMPOSITE WORK LAMP SIDE MOUNT	4
22	41726584	ASSEMBLY RH SWITCH PANEL 2015	1
23	51715985	KIT-LICENSE PLATE HARDWARE	1
24	72062104	NUT .25-20 HEX GR5 Z NYLOCK	2
25	72060835	SCR-SLFTPG 8-18X .75 HH ZINC	REF
26	72061739	SCR-TEK 12-14X 1.00 HWH 3 PT	REF
27	72061099	SCR-TFK CEILING #10-16X62 HWH	REF
28	77040357	LIGHT-CLEAR RED 30020R	2
29	77041251	RELAY-P & B VF4-45f11	REF
30	77040186	TERM-FSLPON I .25TAB 16-14 GA	REF
31	77040137	TERM-FEM SLIP ON #12-10/.25 TAB	REF
32	77040053	TERM-RING I .25 STUD 12-10 GA	REF
33	77040230	TERM-SPADE FLNGD INSUL 12-10GA	REF
REV. B 20160603			

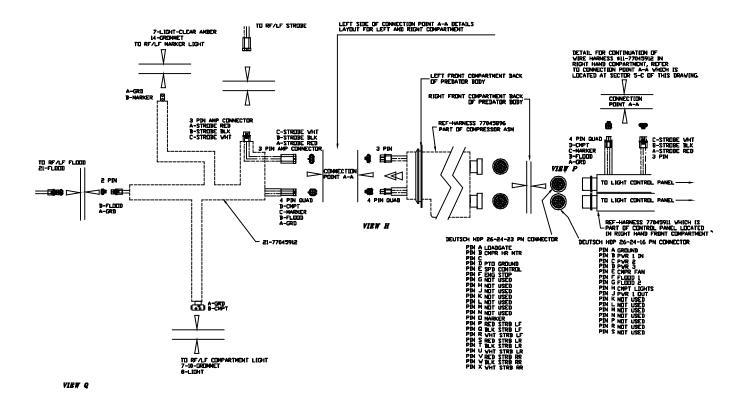
41724679-2 Effective 7-1-15



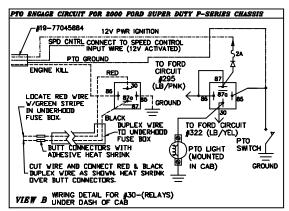
41724679-3 Effective 7-1-15



41724679-4 Effective 7-1-15



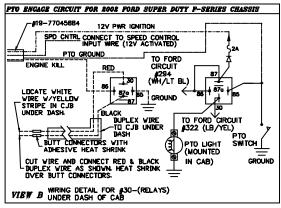
41724676-5 Effective 7-1-15



NOTES:

- 1. FORD SUPER DUTY WIRING COLOR FOR ENGINE KILL (CKT 16) CHANGED FROM RED W/ LT GREEN TO WHITE W/ YELLOW FOR 2002 MODEL YEAR.
- 2. FORD SUPER DUTY WIRING COLOR AND CIRCUIT NUMBER FOR 12V IGNITION POWER CHANGED FROM CKT 295 (LIGHT BLUE W/ PINK) TO CKT 294 (WHITE W/ LIGHT BLUE) FOR 2002 MODEL YEAR.
- 3. INSTALLATION OF PTO WIRING ON FORD SUPER DUTY FOR 2003 MODEL YEAR WITH AUTOMATIC TRANSMISSION CAN BE FOUND ON 99903556. THE FORD APCH IS USED ON CHASSIS WITH AUTOMATIC TRANSMISSIONS TO SIMULTANEOUSLY ENGAGE PTO AND ELEVATE ENGINE RPM.

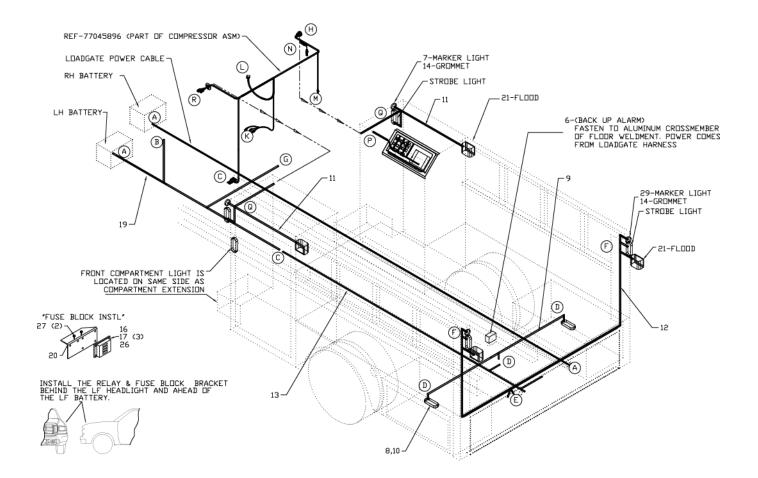
PTO BHGAGE CIRCUIT FOR 2003 FORD SUPER DUTY F-SERIES CHASSIS



PTO, ENGINE KILL, AND ENGINE SPEED
DIAGRAMS FOR 2003 MODEL YEAR CAN BE
FOUND IN THE ETM MANUAL, 99903556 (FOR
AUTOMATIC), AND 99903454 (FOR MANUAL).

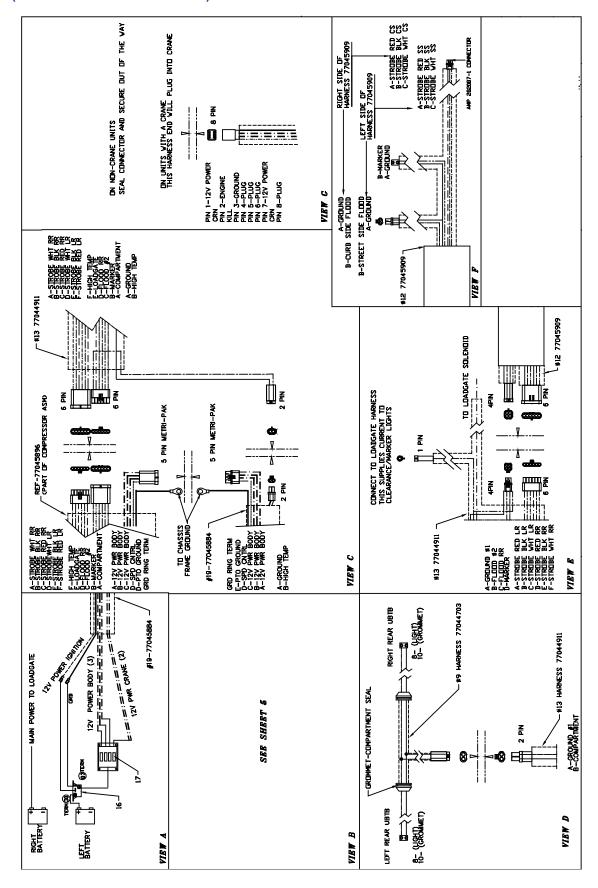
ELECTRICAL INSTALLATION (41724679 - 41715741 VIEW 1)

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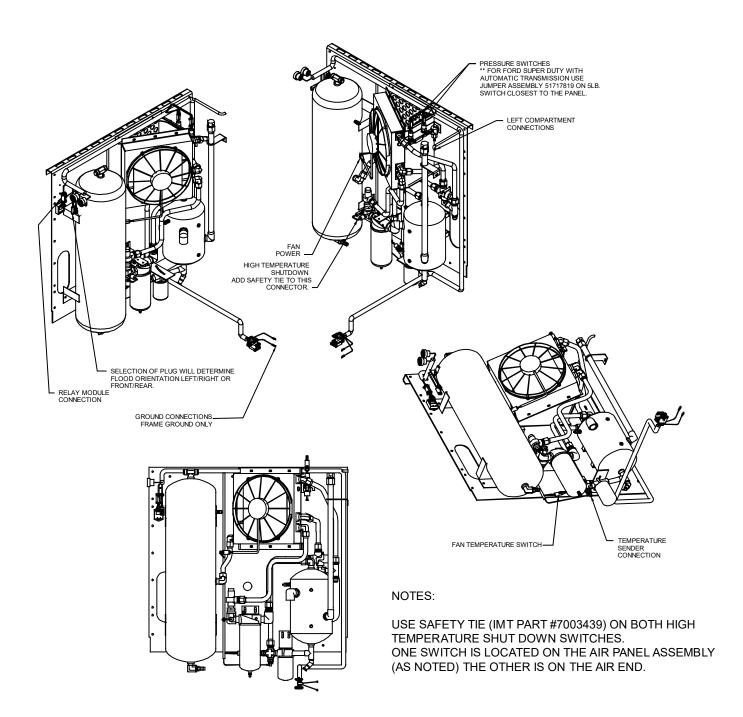
ELECTRICAL INSTALLATION (41724679 - 41715741 SHEET 2)



EFFECTIVE 7/07/03 TO PRESENT

ELECTRICAL INSTALLATION (41715741 / 41724679 SHEET 3)

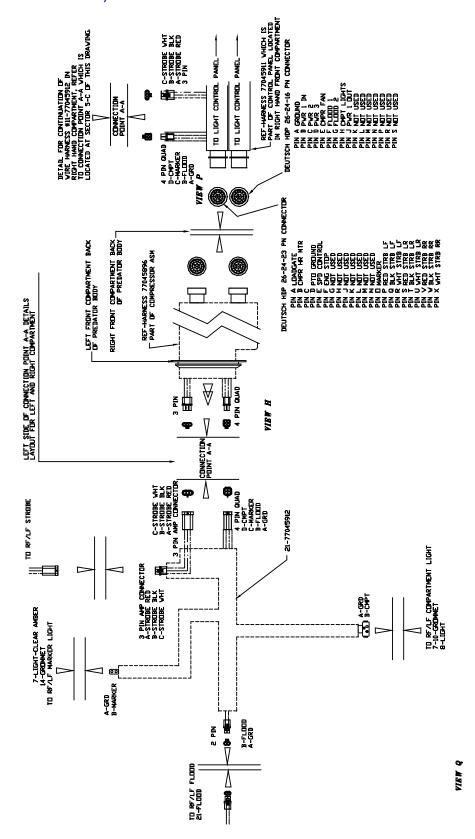
CONTINUED ON FOLLOWING PAGE



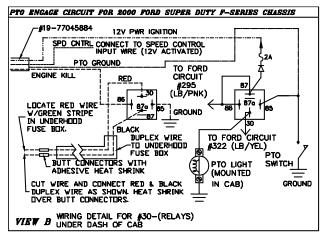
SERIAL NUMBERS PRED021074 TO PRESENT

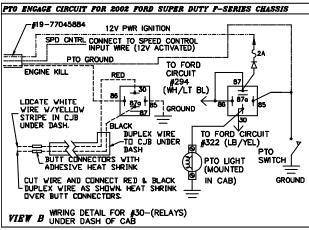
ELECTRICAL INSTALLATION (41715741 / 41724679 SHEET 4)

CONTINUED ON FOLLOWING PAGE



ELECTRICAL INSTALLATION (41715741 / 41724679 SHEET 5)





NOTES:

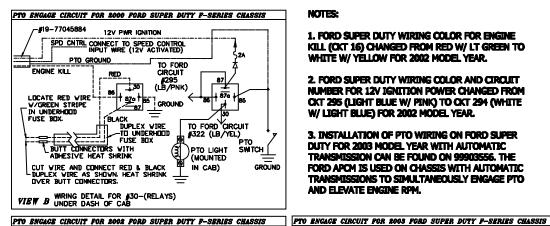
- FORD SUPER DUTY WIRING COLOR FOR ENGINE KILL (CKT 16) CHANGED FROM RED W/LT GREEN TO WHITE W/YELLOW FOR 2002 MODEL YEAR.
- FORD SUPER DUTY WIRING COLOR AND CIRCUIT NUMBER FOR 12V IGNITION POWER CHANGED FROM CKT 295 (LIGHT BLUE W/PINK) TO CKT 284 (WHITE W/LIGHT BLUE) FOR 2002 MODEL YEAR.
- 3. INSTALLATION OF PTO WIRING ON FORD SUPER DUTY FOR 2003 MODEL YEAR WITH AUTOMATIC TRANSMISSION CAN BE FOUND ON 99903556. THE FORD APCM IS USED ON CHASSIS WITH AUTOMATIC TRANSMISSIONS TO SIMULTANEOUSLY ENGAGE PTO AND ELEVATE ENGINE RPM.

PTO, ENGINE KILL AND ENGINE SPEED DIAGRAMS FOR 2003 MODEL YEAR CAN BE FOUND IN THE EFM MANUAL, 99903556 (FOR AUTOMATIC, AND 99903454 (FOR MANUAL).

PTO ENGAGE CIRCUIT FOR 2003 FORD SUPER DUTY F-SERIES CHASSIS

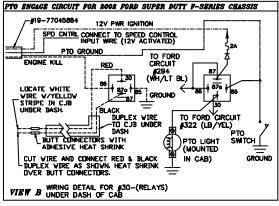
VIEW B

Electrical Installation (41724679-5) Effective 7-1-15



NOTES:

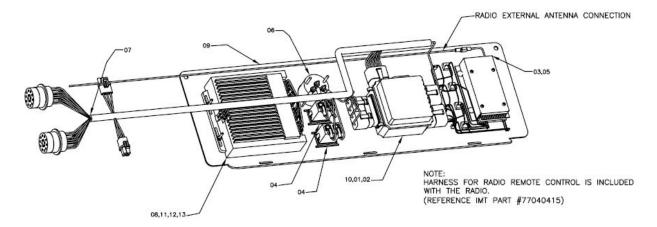
- 1. FORD SUPER DUTY WIRING COLOR FOR ENGINE KILL (CKT 16) CHANGED FROM RED W/ LT GREEN TO WHITE W/ YELLOW FOR 2002 MODEL YEAR.
- 2. FORD SUPER DUTY WIRING COLOR AND CIRCUIT NUMBER FOR 12V IGNITION POWER CHANGED FROM CKT 295 (LIGHT BLUE W/ PINK) TO CKT 294 (WHITE W/ LIGHT BLUE) FOR 2002 MODEL YEAR.
- 3. INSTALLATION OF PTO WIRING ON FORD SUPER **DUTY FOR 2003 MODEL YEAR WITH AUTOMATIC** TRANSMISSION CAN BE FOUND ON 99903556. THE FORD APCM IS USED ON CHASSIS WITH AUTOMATIC TRANSMISSIONS TO SIMULTANEOUSLY ENGAGE PTO AND ELEVATE ENGINE RPM.



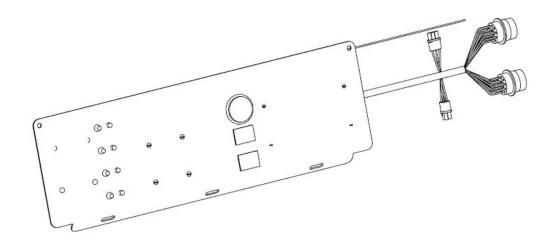
PTO, ENGINE KILL, AND ENGINE SPEED DIAGRAMS FOR 2003 MODEL YEAR CAN BE FOUND IN THE EFM MANUAL, 99903556 (FOR AUTOMATIC), AND 99903454 (FOR MANUAL). VIEW B

SWITCH PANEL ASSEMBLY (41717767)

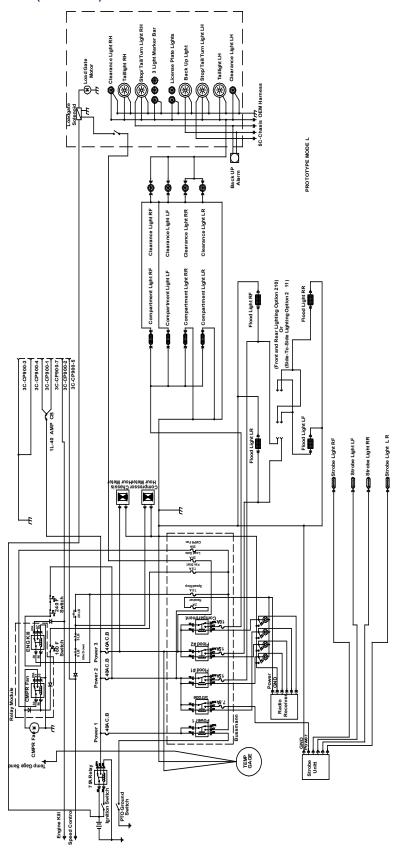
1.	72062182	NUT #10-32 HEX W/STAR WASH	4
2.	72060628	SCR-MACH 10-32 X 1.50 RDH	4
3.	70733410	RADIO-WIRELESS LT CNTRL	1
4.	70733496	METER-DATCON PUSH LOCK	2
5.	72661535	RIVET-SCRPLASTIC ISOLATER	4
6.	70048225	TEMP GAUGE	1
7.	77045911	HARNESS-CONTROL PANEL	1
8.	77040438	STROBE LIGHT	1
9.	60124627	PANEL-ELEC CONTROL	1
10.	77041653	MODULE-BUSSMANN VEC	1
11.	72601704	SCR-MACH 6-32X3/4 RDH	4
12.	72601726	NUT #6-32 HEX NYLOC	4
13.	72601705	WASHER 6W FLAT	4



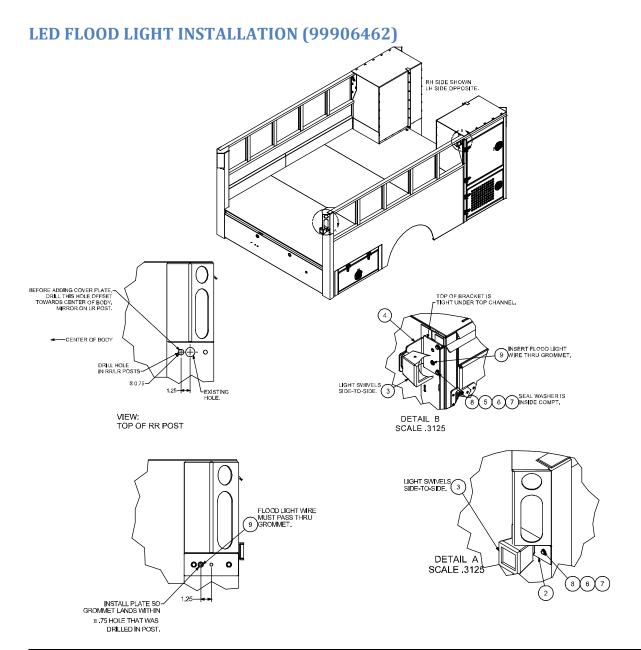
- NOTE:
 THREE CONNECTIONS ARE MADE TO THE TEMPERATURE GAGE AS FOLLOWS:
 -WIRE LABELED TEMP SENDER ATTACHES TO THE "S" TERMINAL ON THE GAGE.
 -WIRE LABELED PWR 3 ATTACHES TO THE "I" TERMINAL ON THE GAGE.
 -WIRE LABELED GROUND ATTACHES TO THE "G" TERMINAL ON THE GAGE.



WIRING SCHEMATIC (99903446)



SERIAL NUMBERS PRED021074 TO PRESENT



ITEM NO.	PART NO.	DESCRIPTION	QTY.
1.	52723076	BODY-WLDMT PRED 1 8513 440HU	REF
2.	60251865	PLATE-COVER PRED FLOOR LIGHT REAR	1
3.	77040404-LED	FLOODLIGHT-12v LED UNIVERSAL MTG	2
4.	60146247	COVER-FLOOD LIGHT PRED FRONT	1
5.	76392820	WASHER-BONDED .25 PLTD	2
6.	72063001	WASHER .25 FLAT	6
7.	72062104	NUT .25-20 HEX NYLOCK	4
8.	72060004	CAP SCR .25-20X 1.00 HH GR5 Z	4
9.	76399341	GROMMET-RUBBER .25IDX .44PHDX .19PTHK	2
REV. INITIAL RELEASE: CN971			

WIRELESS LIGHT CONTROL SYSTEM (70733410-1)

ADDITIONAL TRANSMITTERS

The transmitter supplied with the Wireless Light control System is coded for security. The transmitter code is printed on a label located on the back of the receiver case. The first number is the serial number and the second is your 4-digit transmitter code. A transmitter code of '9000' indicates that your system can 'learn' up to three different transmitter codes. If you order an additional transmitter, give Technical Support the code '9000' and you will receive the transmitter along with instructions for teaching the new transmitter to your remote system. These instructions are also printed near the end of this section.

INSTALLATION

The receiver is already mounted on the interior of the vehicle so that it is not exposed to moisture. It is secured using a double sided adhesive tape, such as Velcro. The black wire coming out of the rear of the receiver is the antenna and is not connected to anything. Stretching this wire out away from other electrical wires will enhance the unit's reception.

The harness is connected as listed below. The unit needs only the red and black wires connected in order to operate. The other wires will be hooked up according to IMT application. The Wireless Light Control System is connected to a 12-volt battery for power, however never slely to a battery charger.

RED 12-volt battery source fused at 2 amps

BLACK Chassis ground

ORANGE Relay #1 toggle (Flood 1)
PINK Relay #2 toggle (Flood 2)
WHITE Relay #3 toggle (Strobe)

GRAY Relay #4 toggle (Compartment)

The white, gray, orange, and pink are negative switched outputs designed to only turn on external relays.

RADIO FREQUENCY INTERFERENCE STATEMENT

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15, Subpart B of the FCC Rules. This equipment generates, use, and can radiate radio frequency energy. It is installed in accordance with manufacturer instructions.

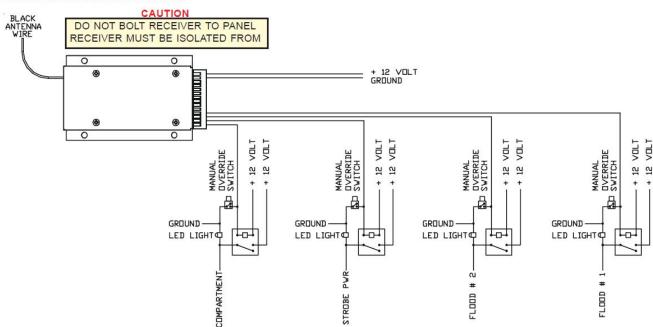
The limits are designed to provide reasonable protection against such interference in a residential situation. However, there is not guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna of the affected radio or television.
- Increase the separation between the equipment and the affected receiver.
- Connect the equipment and the affected receiver to separate power circuits.
- Consult the dealer or an experienced radio/TV technician for help.

MODIFICATIONS

Changes or modifications not expressly approved by Iowa Mold Tooling Co., Inc. could void the user's authority to operate the equipment.

REMOTE SYSTEM WIRING DIAGRAM



SERIAL NUMBERS PRED991001 TO PRESENT

WIRELESS LIGHT CONTROL SYSTEM (70733410-2)

OPERATION

The key chain transmitter has four buttons labeled 'I', 'III', 'III', and 'IV' respectively. Button 'I' controls the relay connected to the orange wire. The first time it is pressed it will turn the relay on. The next time it is pressed it will turn the relay off. Button 'II' controls the relay connected to the pink wire, button 'III'

controls the relay connected to the white wire, and button 'IV' controls the relay connected to the gray wire. Be sure to press and hold the buttons at least one second when turning on or off the function for proper operation.

TROUBLE SHOOTING GUIDE		
SYMPTON	POSSIBLE PROBLEM	SOLUTION
System will not operate any functions	Receiver is not getting power	Check 12 volt connection
		Check ground connection
		Check fuses
Lights flash or appear dim	Weak or poor 12 volt connection	Check 12 volt connection
	Transmitter signal is being disrupted	Move antenna wire away from power wires
	Overloaded 12 volt power circuit	Check receiver for heavy loads on each
		circuit
	Weak car battery	Recharge or replace car battery
	Transmitter signal is being disrupted	Move antenna away from power wires
Transmitter has very short range	Receiver frequency is off	See Frequency Fine Tuning
	Transmitter battery is weak	See Battery Replacement
	Antenna wire needs repositioning	Stretch wire out away from wires carrying
		large current
Emergency override button does not work	Switch not hooked up correctly	Check ground connection
		Check wiring harness connection

If none of these solutions solve the problem, or the problem occurring is not listed, please call Iowa Mold Tooling Co., Inc., Technical Support, (641)-923-3711, for further assistance.

BATTERY REPLACEMENT

Should the transmitter function become weak or erratic, the battery in the key chain transmitter may be weak. An indication of a weak battery is that the red indicator may have a dim glow to it when any button is pressed. The battery is replaced in the following manner:

- A. Remove the small screw on the back of the transmitter case.
- B. Carefully separate the case halves.
- C. Remove the battery, noting the (+) and (-) positions.
- D. Replace the battery with a new 12 volt type GP23A battery which is available at most electronic stores.
- E. Carefully replace the top cover and refasten the screw.

FREQUENCY FINE TUNING

Should the transmitter have very short range or not operate at all, then fine tuning may be required. If the red indicator does not light or is dim, then replace the battery. To tune the receiver, perform the following:

- A. Remove the 4 screws on top of the receiver case.
- B. Carefully separate the case halves.
- C. Locate the small white frequency fine-tune adjustment trimmer on the circuit board inside the receiver. It will be located near where the antenna wire exits the case.
- D. Using a small non-metallic adjustment tool, turn the adjustment screw inside the blue trimmer 1/8 turn clockwise.
- E. Depress button 'III' and check if the compartment light comes on. If not, turn the adjustment screw an additional turn clockwise and recheck. After turning the screw a total of 1/2 turn clockwise, return to its starting position and repeat the adjustment by turning it counter-clockwise in the same manner.
- F. Once the system operates the lights, stop and re-close the case. If the adjustment fails to correct the problem, return the defective unit for servicing.

PROGRAM ADDITIONAL TRANSMITTERS

Placing receiver into programming mode:

- 1. Unplug the main harness connector from the receiver unit.
- 2. Remove the receiver cover by taking out the four screws on top.
- 3. Locate the programming jumper pins labeled J1. They will be on the edge of the circuit board about 1/2 inch from the red programming light.
- 4. Short the programming pins together using a shorting jumper or small piece of wire.
- 5. Plug in the main harness connector so that the unit has power. The red programming light should come on.

Checking frequency adjustment:

- 1. Press button 'III'. If programming light flashes, step 2 may be skipped.
- 2. Using non-metallic screwdriver, turn the white tuning adjustment in receiver until the light flashes rapidly.

Programming transmitter:

- 1. Press button 'III'. This will place the system in 'check' mode.
- 2. Press buttons 'II' and 'III' at the same time. The red light should flash three times and then remain on. The system is now in 'store' mode.
- 3. Press button 'I' to store the transmitter code. The red light will flash twice to indicate the code has been stored. The system is now back in 'check' mode.
- 4. Press button 'l' again. The red light should flash indicating the code was stored successfully.

Returning unit to normal operation:

- 1. Unplug the main harness connector.
- 2. Remove the shorting jumper from the programming pins.
- 3. Replace the aluminum cover and reconnect the main harness.

This device complies with PArt 15 of FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Oshkosh Corporation Classification - Restricted

Predator 8511/8513/8516 Manual #99903299 4-18 SECTION 4 – ELECTRICAL COMPONENTS SERIAL NUMBERS PRED991001 TO PRESENT

FLOOD LIGHT SWITCHING OPTION

On the wire harness, next to the right front connection, there are three Packard two-pin connectors. One of these connectors is a female, the other two are male connectors. Which male connector the female is inserted into will determine whether the flood lights are set in a front and back or a side to side configuration. The male connector which is not used has a dummy connector installed to protect against dirt and moisture. The end user has the option of configuring the flood light system to his requirements.

The hand held radio transmitter for the Predator wireless light control system has four buttons. Each button controls one light circuit. Depending on the end user's configuration of the flood light option, the button labeled

'I' will control the right front flood and either the left front or right rear flood light. The button labeled 'II' will control the left rear flood and either the left front or the right rear flood light, again depending on the flood light option. The button labeled 'III' will control the four corner strobe light system. The button labeled 'IV' will control the compartment lights in all four compartments.

Any of the circuits may be activated by simply pushing the button on the hand held transmitter for a period of about 1 second. This circuit will be active until the same button is pushed again. All circuits will be shut off if the truck's ignition switch is turned off. The light circuit will remain off until reactivated by the transmitter or by the manual override switch.

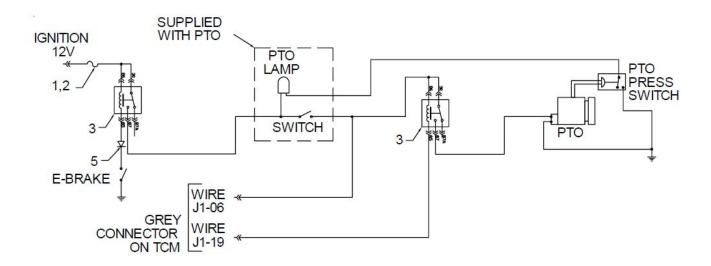
All circuits may be activated by the manual override switches on the electrical control panel located inside the right front compartment. If the light circuit has been activated by the manual override switch, the light will continue to operate while the chassis ignition switch is on. The hand held transmitter cannot be used to turn the light circuit off at this time. The light circuit will be locked in the on position, even with the ignition switch in the off position. This will energize the light circuit the next time the ignition switch is turned back to the on position. The light circuit will remain in the on position until the manual override switch has been changed back to the off position. The hand held transmitter then becomes operational at that time.

The ignition switch acts as the master switch, however, and shuts off all lighting circuits.

The dash mounted transmitter will control the lights, the same as the hand held transmitter, when it becomes available after FCC approval.

INSTALLATION - PTO WIRING - ALLISON T1000/T2000 TCM 1 PTO (99903409-1)

```
99903409.01 REV. B 20050520
1. 77044764 FUSE HOLDER W/O FUSE 1
2. 77041527 FUSE-ATC 7.5 AMP 1
3. 77041251 RELAY- P & B VF4-45F11 1
4. 77441047 TERMINAL-150 16-18 GA MALE 2
5. 77044556 DIODE, 2.2 AMP 1
```

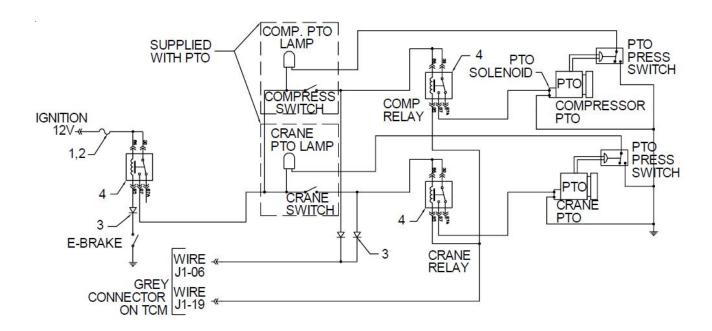


NOTES:

- 1. Different chassis may have different codes for the TCM wire numbers.
- 2. TCM for Freightliner is behind dash on passenger side of cab. Splice into appropriate wires at that location.
- 3. TCM for Sterling Actera is under the cab. Use customer access metripack connector located on driver's side wheel well. Use cavity "F" for wire J1-06 and use cavity "G" for J1-19. Use item #4 in the part's list.
- 4. TCM for International 4300 and 4400 models is under the cab. Use customer access metripack connector located on the driver's side, upper wheel well. Use cavity "B" for wire J1-06 and cavity "C" for J1-19. Use item #4 in the part's list.
- 5. GM Transmission Connector (Located near upfitter connector in the engine compartment on the right side) Wire 106 = Pin B; Wire 119 = Pin J

INSTALLATION - PTO WIRING - ALLISON T1000/T2000 TCM 2 PTO (99903409-2)

```
77044764 FUSE HOLDER W/O FUSE
1.
              FUSE-ATC 7.5 AMP
2.
   77041527
                                         1
3.
   77044556
              DIODE - 2.2 AMP/274V
                                         2
   77041251
              RELAY- P & B VF4-45F11
                                         2
4.
   77441047
              TERM- 150 16-18GA MALE
```



NOTES:

- 1. Different chassis may have different codes for the TCM wire numbers.
- 2. TCM for Freightliner is behind dash on passenger side of cab. Splice into appropriate wires at that location.
- 3. TCM for Sterling Actera is under the cab. Use customer access metripack connector located on driver's side wheel well. Use cavity "F" for wire J1-06 and use cavity "G" for J1-19. Use item #5 in the part's list.
- 4. TCM for International 4300 and 4400 models is under the cab. Use customer access metripack connector located on driver's side, upper wheel well. Use cavity "B" for wire J1-06 and cavity "C" for J1-19. Use item #5 in the part's list.
- 5. GM Transmission Connector (Located near upfitter connector in the engine compartment on the right side) Wire 106 = Pin B; Wire 119 = Pin J

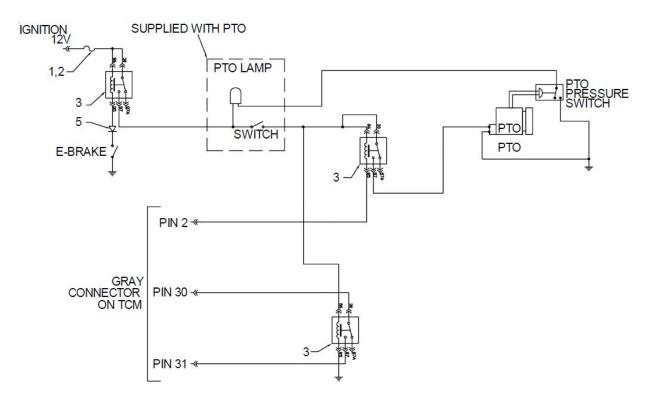
Predator 8511/8513/8516 Manual #99903299

4-22

SECTION 4 – ELECTRICAL COMPONENTS

INSTALLATION - PTO WIRING - ALLISON T3000/T4000 TCM 1 PTO (99903409-3)

1.	77044764	FUSE HOLDER W/O FUSE	1
2.	77041527	FUSE-ATC 7.5 AMP	1
3.	77041251	RELAY- P & B VF4-45F11	2
4.	77441047	TERM- 150 16-18GA MALE	3
5.	77044556	DIODE, 2.2 AMP	1



NOTES:

- 1. Different chassis may have different codes for the TCM wire numbers.
- 2. TCM for Freightliner is behind dash on passenger side of cab. Splice into appropriate wires at that location.
- 3. GM Transmission Connector:

(Located near the GM upfitter connector in the engine compartment on the right side)

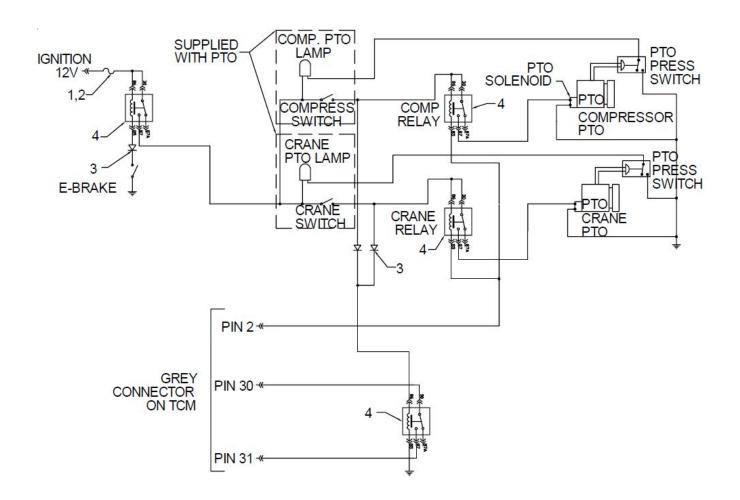
Wire 114 = Pin A

Wire 117 = Pin B

Wire 161 = Pin J

INSTALLATION - PTO WIRING - ALLISON T3000/T4000 TCM 2 PTO (99903409-4)

1.	77044764	FUSE HOLDER W/O FUSE	1
2.	77041527	FUSE-ATC 7.5 AMP	1
3.	77044556	DIODE-2.2 AMP, 274 VOLT	3
4.	77041251	RELAY- P & B VF4-45F11	4
5.	77441047	TERM- 150 16-18GA MALE	REF



NOTES:

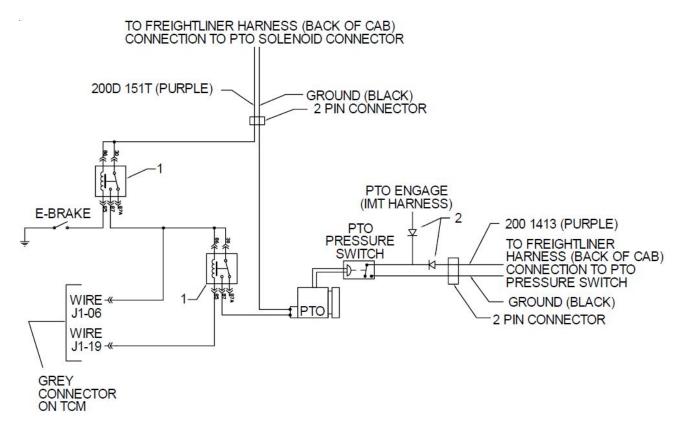
- 1. Different chassis may have different codes for the TCM wire numbers.
- 2. TCM for Freightliner is behind dash on passenger side of cab. Splice into appropriate wires at that location.
- 3. GM Transmission Connector: (Located near the GM upfitter connector in the engine compartment on the right side)

Wire 114 = Pin A; Wire 117 = Pin B; Wire 161 = Pin J

4. Use item #5 to connect.

INSTALLATION - PTO WIRING - ALLISON T3000/T4000 TCM 1 PTO ON FREIGHTLINER (99903409-5)

- RELAY- P & B VF4-45F11 77041251
- 2 77044556 DIODE-2.2 AMP, 274 VOLT

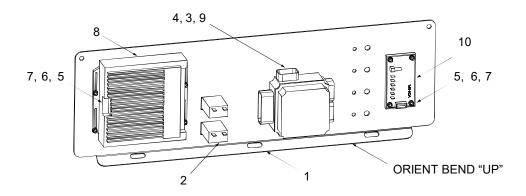


- 1. Different chassis may have different codes for the TCM wire numbers.
- 2. TCM for Freightliner is behind dash on passenger side of cab. Splice into appropriate wires at that location.
- 3. GM Transmission Connector: (Located near the GM upfitter connector in the engine compartment on the right

Wire 114 = Pin A; Wire 117 = Pin B; Wire 161 = Pin J

4. Use item #5 to connect.

Switch Panel, RH (41726584)

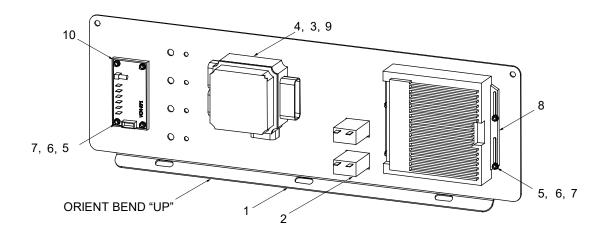




REMOTE MOUNTED ANTENNA 77040653

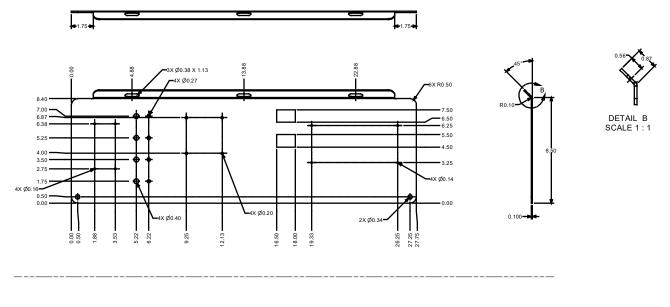
41726	584 COMPLE	TE PARTS LIST EFFECTIVE 6-11-15	
ITEM	PART NO.	DESCRIPTION	QTY
1	60251740	PANEL-PRED ELEC CONTROL 2015 RH	1
2	70733496	METER-HOUR DATCON PUSH LOCK MOUNTING	2
3	72060628	SCR-MACH 10-32X 1.50 RDH	4
4	72062182	NUT #10-32 HEX GR2 W/STAR	4
5	72601704	SCR-MACH # 6-32X .75 RDH	8
6	72601705	WASHER #6 W FLAT ANSI B27.2	8
7	72601726	NUT 6-32 HEX NYLOCK	8
8	77040438	LIGHT KIT-STROBE PREDATOR CONTROL BOX	1
9	77041653	MODULE-BUSSMANN VEC PREDATOR	1
10	70734916	RADIO-PREDATOR LIGHTS WIRELESS SYSTEM	1
201606	06 (NEW 6/15)		•

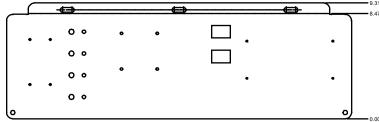
Switch Assembly, LH (41726585)



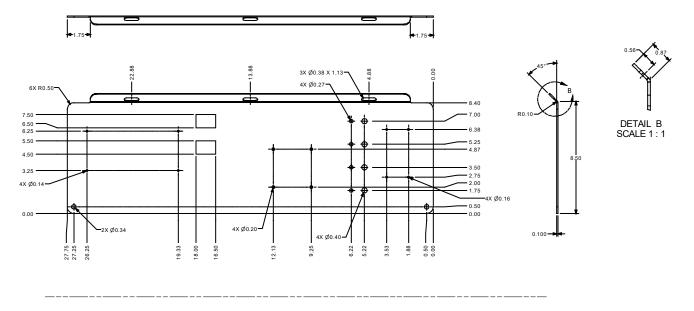
41726585	COMPLET	E PARTS LIST EFFECTIVE 6-11-15	
ITEM	PART NO.	DESCRIPTION	QTY
1	60251741	PANEL-PRED ELEC CONTROL 2015 LH	1
2	70733496	METER-HOUR DATCON PUSH LOCK MOUNTING	2
3	72060628	SCR-MACH 10-32X 1.50 RDH	4
4	72062182	NUT #10-32 HEX GR2 W/STAR	4
5	72601704	SCR-MACH # 6-32X .75 RDH	8
6	72601705	WASHER #6 W FLAT ANSI B27.2	8
7	72601726	NUT 6-32 HEX NYLOCK	8
8	77040438	LIGHT KIT-STROBE PREDATOR CONTROL BOX	1
9	77041653	MODULE-BUSSMANN VEC PREDATOR	1
10	70734916	RADIO-PREDATOR LIGHTS WIRELESS SYSTEM	1
20160606 (NEW 6/15)		•

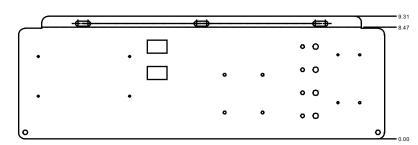
Electric Control Panel, RH (60251740)





Electric Control Panel, LH (60251741)





Radio Remote Harness (77040655)

	R CODE:		500		MOLEX: 3	9-01-	3089	
TERM	39-00-00	40						
CAVITY	COLOR	GA	PRIN	NT LABEL		TO	CON-SPLC	CAVITY
1	BLK	18	GRO	UND		TO	W1	-
2	-	-	-			TO	-	-
3	GREY	18	CMP	Т		TO	W2	-
4	WHT	18	STR	OBE		TO	W3	-
5	-	-	-			TO	-	-
6	PINK	18	FLO	OD 2		TO	W4	-
7	ORNG	18	FLO	OD 1		TO	W5	-
8	RED	18	POW	/ER		TO	W6	-

LOCATO	R CODE:	*					
WAYTEK:	WAYTEK: 30535 (HS FEMALE 90 1/4" PUSH ON					-	
CAVITY	COLOR	GA	PRINT LABEL	TO	0	CON-SPLC	CAVITY
-	BLK	18	GROUND	TO	0	CP-800	1

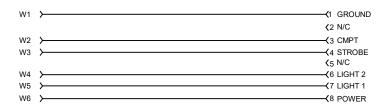
LOCATO	† 2						
WAYTEK: 30535 (HS FEMALE 90 1/4" PUSH ON)		-		
CAVITY	COLOR	GA	PRINT LABEL		TO	CON-SPLC	CAVITY
-	GREY	18	CMPT		TO	CP-800	3

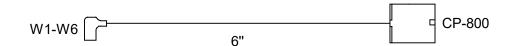
LOCATO	R CODE:	\$ 5				
WAYTEK: 30535 (HS FEMALE 90 1/4" PUSH ON					-	
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC	CAVITY
-	WHT	18	STROBE	TO	CP-800	4

и	LOCATOR CODE: \$44							
W	WAYTEK: 30535 (HS FEMALE 90 1/4* PUSH ON						-	
С	AVITY	COLOR	GA	PRINT LABEL		TO	CON-SPLC	CAVITY
Г		PINK	18	FLOOD 2		TO	CP-800	6

LOCATO	LOCATOR CODE: \$45								
WAYTEK:	WAYTEK: 30535 (HS FEMALE 90 1/4" PUSH ON					-			
CAVITY	COLOR	GA	PRINT LABEL		TO	CON-SPLC	CAVITY		
-	ORNG	18	FLOOD 1		TO	CP-800	7		

LOCATO	CODE:	₩6				
WAYTEK:	EMAL	E 90 1/4" PUSH ON		-		
CAVITY	COLOR	GA	PRINT LABEL	TO	CON-SPLC	CAVITY
	RED	18	POWER	TO	CP-800	8





Radio Lights, Wireless system (70734916)

INSTALLATION GUIDE VCMS-SP57

Remote Controlled Load Management



1. Product Description

The VCMS-SP57 consists of the following components:

- 1. VCMS-RF1 module
- 2. RF Antenna with a 79" (2m) cable
- 3. Remote Control (Linx Technologies model OTX-433-HH-LR8-MS)

The VCMS-SP57 kit pairs a power module with a wireless remote control to offer remote control of flood lights, strobe and compartment lighting.

The RF1 power module provides one BAT input (the source should be between 8V and 30V), one GND output and four grounding control outputs, which are protected by automatic shutdown for short circuit, overload and over temperature. The module's inputs and outputs are 0.25 inch faston blade terminals. The antenna cable attaches to the module via a 0.31" coaxial connector.

The remote control has eight buttons for turning each of the four loads on and off. Once synced, it can communicate with the module from up to 1,000 feet away.

2. Installation Instructions

2.1 Getting Started

Determine the best location for the RF1 module and the antenna. The RF module should be mounted on a flat surface in a dry compartment. Take into consideration the routing of wires to outputs and +12 volt power source.

The antenna must be mounted either on the exterior of the vehicle or inside behind glass or other radio transparent materials. The cable for connecting the two is 79" (2 meters) long.

For wiring, you will need a crimping tool for the 0.25 inch faston blade terminals. Be certain to follow the crimping tool instructions for proper wire size and terminals.

2.2 Mount the Power Module

Mount the power module on a flat surface in a dry compartment using four 6-32 screws and lock washers. Do not drill out the mounting holes to accept larger screw sizes. Do not over tighten the mounting screws.

The wiring terminals on the power module are male 0.25 inch faston blade terminals. You will need to attach female terminals to the wires. Use a good quality crimping tool and follow the manufacturer's instructions for the coorect terminal types for the wire size.

Wire the ground (GND) terminal to a good quality vehicle ground (battery negative).

The VCMS-RF module is intended to run control relays. The relays in turn can drive flood lights, strobe lights and compartment lights. Wire the four output terminals accordingly to relayx controlling their respective auxiliary loads.

Locate and wire a power source between 8V and 30V to the B AT terminal.

2.3 Mount the Antenna

Locate where you wish to mount the antenna. Be sure the location is either on the exterior of the vehicle or in the interior behind glass or another radio transparent material. Do not mount it inside a metal compartment.

The antenna has a piece of adhesive on one side of the center of the dipole. Remove the backing and press onto a flat, clean, non-conductive surface such as a window or plastic covering.

Attach the antenna to the RF power module with the included coaxial cable

2.4 Syncing the Remote Control

Apply power to the VCMS-RF module.

Locate the Sync button on the RF1 power module. Press it once. The LED will flash for 17 seconds before the sync function times out.

Hit any button on the remote control to send its unique address before the sync function times out.

Press the Sync button again to save the remote control address.

The remote control may now be used to control the outputs. Be sure to test each remote synced to ensure proper connectivity.

2.5 Resetting Remote Control Address, Erasing Stored Addresses and Replacing Battery

Each Remote Control has its own unique address, which can be stored in the RF1 power module. The RF1 module can store up to 40 unique Remote Control addresses. Once it reaches 40 addresses, the LED will flash five times to indicate the memory is full. If another address is learned after the memory is full, it will overwrite the first address in memory. The memory will retain all learned addresses even if the power is removed.

To un-sync a remote control and an RF module, you may either erase all stored addresses in the RF module or change the address of the remote control.

To Erase All Stored Addresses in the RF Module:

Press and hold the Sync button for ten seconds. When released, the LED will light solid for two seconds to indicate the memory has been cleared of any stored remote control addresses.

To Give the Remote Control a New Address:

Obtain a paperclip or similar thin, stiff wire. On the back of the remote control is a small hole with a button inside labeled CREATE. Using the paperclip, press and hold this button for a short duration.

The Remote Control will now have a new address. Please note that the remote will need to be synced anew to any RF modules you with to use it to operate.

Battery Replacement for the Remote Control:

A standard CR2032 lithium button cell powers the remote control. With normal use, it should last one to two years. To replace, remove the access cover on the back. Replace battery with the same kind.

3. Specifications

Operating Voltage Range: +8V to +30V

Load Amperate Rating: 1 amp

Wiring Terminals: 0.25 inch male faston blade

Antenna Connection: 79 inch long xoaxial cable

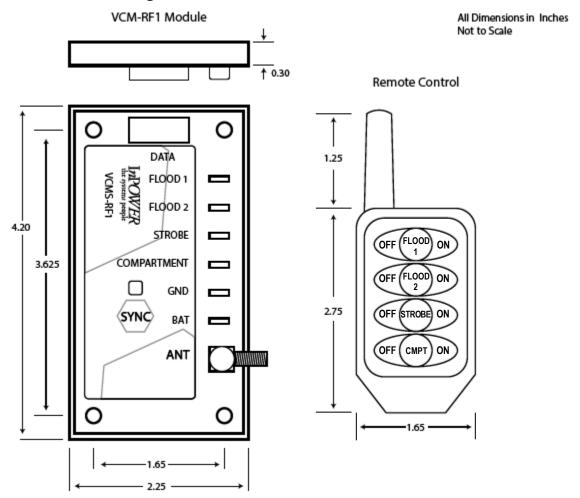
Temperature: Remote Control will operate between -40°C and

85°C

Remote Control Range: up to 1000 ft

Transmitter Frequency: 433 MHz

4. Mechanical Drawing



SECTION 5. LIFTGATE

LIFTGATE INSTRUCTIONS (70734521 / 70734522)	5-2
LIFTGATE SPECIFICATIONS	
LIFTGATE FUNCTIONS & COMPONENT IDENTIFICATION	5-3
SAFETY DECALS & LOCATIONS	5-4
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LIFTGATE ADJUSTMENT	5-7
PLATFORM DROP-AWAY FEATURE	5-9
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MAINTENANCE	5-11
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LIFTGATE REPLACEMENT PARTS (70734521 / 70734522)	5-14

LIFTGATE INSTRUCTIONS (70734521 / 70734522)

CAUTION

Be sure to follow the instructions set forth in this section to insure proper operation of the liftgate. Failure to follow these instructions can cause serious injury or death.

CAUTION

As final stage manufacturer, the installer of this liftgate is responsible for compliance with all pertinent state and federal safety standards, as well as for following recommendations of chassis manufacturer.

FORWARD

This section provides installation and operating procedures to help you obtain efficient and dependable use from your hydraulic liftgate. This section contains specifications, parts lists, maintenance information, safety guidelines, and general information.

Read this section carefully and understand it before attempting to install, operate, maintain, or repair the liftgate. Keep this available for future reference. If at any time you have questions concerning the liftgate, contact your IMT dealer. The dealer has trained service technicians and IMT replacement parts to keep your liftgate in top operating condition.

Three means are used throughout this section to gain the attention of personnel. They are NOTE's, CAUTION's and WARNING's and are defined as follows:

NOTE

A NOTE is used to either convey additional information or to provide further emphasis for a previous point.

CAUTION

A CAUTION is used when there is the very strong possibility of damage to the equipment or premature equipment failure.

WARNING

A WARNING is used when there is the potential for personal injury or death.

Treat this equipment with respect and service it regularly. These two things can add up to a safer working environment.

WARNING

All operators must be fully instructed in the use of liftgate and all applicable safety standards before using or operation. Read and understand this section and comply with the instructions. Failure to do so may result in serious injury or death.

INTRODUCTION

The liftgate is the finest on the market today but in order to provide maximum efficiency it is important that you operate and maintain the liftgate properly. This section contains information necessary for the proper operation and maintenance of the liftgate. Before operating the liftgate, study this section carefully and keep it available for future reference.

GENERAL PRECAUTIONS

- 1. Always stand clear of an operating liftgate. Feet and hands must be clear of space between liftgate and truck when raising, and clear of space between liftgate and ground when lowering. Keep away from lifting linkage (arms) while liftgate is in operation.
- 2. The liftgate is not a personnel lift DO NOT RIDE
- 3. Improper operation can result in serious injury or death. Read and understand operating instructions before use.
- 4. Any alteration to the liftgate will void the warranty and may void compliance with the Federal Motor Vehicle Safety Standards (FMVSS)
- 5. Only authorized, properly trained adults may operate the liftgate.
- 6. When not in use, always store the platform in the closed position with storage lock latches secured.
- 7. Never leave the liftgate unattended with the key in the ignition of the vehicle.
- 8. All decals must be present and legible. Replace any damaged or missing decals immediately
- 9. Never exceed the rated load capacity. Always center the load on platform and as close to truck as possible.
- 10. Always disconnect the negative (-) battery cable terminal when welding on liftgate or truck.

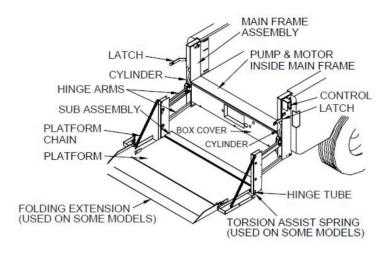
LIFTGATE SPECIFICATIONS

CAPACITY DRIVE SYSTEM PLATFORM AREA **DUAL HYD CYLINDERS** 87 X 33 (WITH 6-IN

TARPER)

PLATFORM MAT'L

GRIPSTRUT W/RHINO COATING



LIFTGATE FUNCTIONS & COMPONENT IDENTIFICATION

Your liftgate is powered via your vehicle battery. The vehicle battery powers a moto coupled to a hydraulic pump. Flow from the pump retracts two cylinders attached to the upper arm assembly that lifts the gate platform. A check valve blocks return flow from the cylinders to the pump and a pressure relief valve prevents the gate from being overloaded.

WARNING!

Do not use liftgate as a scale. The liftgate may lift more than its rated capacity. Be aware of how much is being lifted and never exceed the rated capacity of the liftgate. Be aware of how much is being hauled and never exceed the rated capacity of the vehicle.

The gate platform is lowered by gravity after an electric "release" valve is activated and opened at the pump.

The electric toggle switch control incorporates a low voltage warning feature. This low voltage feature keeps the raise solenoid from chattering and prevents welding of the solenoid contacts.

If a low voltage condition occurs, the amber "POWER ON" LED will blink and the gate controls will be inoperable. In order to operate the gate, you must correct the low voltage condition and reset the control. To reset the control, depress the "POWER ON" hidden switch twice, once to shut down power and once to turn power on.

The low voltage condition may be caused by a weak battery, loose or corroded connections, improper ground, or bad electrical cables. This condition may be corrected by just starting the vehicle or replacing the battery.

Locate and read all decals prior to operating liftgate. Replace decals if missing or illegible.

TOMMY GATE

DO'S

- * DO CENTER YOUR LOAD ON PLATFORM.
- * DO CLOSE AND LOCK LIFT IN CLOSED POSITION WHEN NOT IN USE OR UNATTENDED.
- * DO STAND TO THE SIDE OF LIFTGATE WHILE IT IS IN OPERATION.
- * DO READ MAINTENANCE AND SERVICE INFORMATION.
- * DO READ OPERATOR'S INSTRUCTIONS.
- * DO FREQUENTLY CHECK CABLES CHAINS, AND OTHER COMPONENTS FOR WEAR OR DAMAGE AND REPAIR AS NECESSARY WITH PARTS PROVIDED BY THE ORIGINAL EQUIPMENT MANUFACTURER.
- * DO CHECK ALL SAFETY DEVICES FOR PROPER OPERATION .

- DO NOT'S

 * DO NOT RIDE OR PERMIT ANYONE TO RIDE
 ON LIFT. THE LIFT IS NOT A PERSONNEL OR
 WHEELCHAIR LIFT.
- * DO NOT MAKE ANY MODIFICATIONS TO THE LIFT OR ITS SAFETY FEATURES.
- * DO NOT ALLOW USE OF LIFT BY A PERSON WHO HAS NOT HAD PROPER TRAINING IN ITS OPERATION.
- * DO NOT TRY TO LIFT OR LOWER MORE THAN THE RATED CAPACITY OF THE LIFT.
- * DO NOT ADD TO OR REMOVE PARTS OF LIFT AS IT WILL VOID YOUR WARRANTY.
- * DO NOT MOVE VEHICLE UNLESS GATE IS IN LATCHED POSITION.
- * DO NOT SHOW CHILDREN OR UNAUTHORIZED PERSONNEL HOW TO OPERATE LIFT.
- * DO NOT LEAVE PLATFORM OPEN, OR UNLATCHED WHEN LIFT IS NOT IN USE OR UNATTENDED. NEVER LEAVE PLATFORM DOWN TO BE USED AS A STEP.

ALL REPAIRS OR REINSTALLATIONS OF TOMMY GATE LIFTS SHOULD BE PERFORMED BY AN AUTHORIZED DISTRIBUTOR THAT IS FAMILIAR WITH ITS OPERATION AND SAFETY FEATURES. ALL REPLACEMENT PARTS MUST BE OF ORIGINAL QUALITY, AND ALL SAFETY AND OPERATIONAL DECALS MUST BE ATTACHED AND LEGIBLE

9561

Decal No. 1

Place in cab in a highly visible area.



Keep one hand on the platform when opening and closing.

Platform opening and closing forces/weights will vary if your vehicle is on an incline.

Stand clear of all moving parts when opening, raising or lowering platform.

Never leave the platform down to be used as a step.

Do not add any extension to original platform.

Decal No. 2

Located on the outside right-hand corner of the platform.



Decal No. 4 Located on the side of uprights

MARNING

Read operator's manual before operating equipment.

Do not modify lift or its safety features.

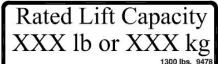
Use only Tommy Gate service parts installed by an authorized distributor.

If additional assistance is needed, call Tommy Gate at 800-543-8428.

Do not exceed the rated lift capacity-

Decal No. 3

Located on the front of the control shield (40 inch travel lift) Located next to the control shield (50 inch travel lift).



1500 lbs. 9481 1500 lbs. 9479

9524

Decal No. 5

Located on the front of the control shield (40 inch travel lift). Located next to the control shield (50 inch travel lift).

Do not ride the platform. This lift is not designed as a wheelchair or personnel lift. Center Load Center load on platform side to side and front to back.

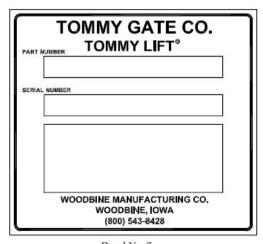
Never allow children or any untrained person to operate the lift.

Do not show children or others how to operate the lift.

When the lift is not in use or unattended, the platform should be closed and latched with control secured.

Decal No. 6

Located on left-hand upright inside the frame. (Or on right hand side of lift and dump models.)



Decal No. 7

Located on the inside of the main frame,
positioned over the top of the pump & motor unit.

Located next to the control shield.



Decal No. 8

Located on the upright next to the torsion spring and safety holder on models with torsion assist spring.

NWARNING

Lift gate is not to be used as a scale.

Lift gate may lift more than its rated capacity.

Be aware of how much is being lifted and never exceed the rated capacity of the lift gate.

Be aware of how much is being hauled and never exceed the rated capacity of the vehicle.

9044

Decal No. 10 Located next to the control shield.



Before removing box cover, the platform must be closed and latched or lowered to the ground with the control disarmed.

9550

Decal No. 9 Located on box cover of gate.

LIFTGATE OPERATION

- 1) To open the platform, go to the drive's side of the liftgate, push the latch to the side, off the platform pin, and rotate the latch down. Move to the passenger's side of the liftgate and remove the latch padlock. With one hand, push the passenger's side latch to the side, off the platform pin, while holding the top of the platform with your other hand. Pull the platform open and step away from the platform as it opens.
- 2) If the gate is on an application with swing-out doors, open them at this time.
- 3) Stand clear of the plaform and all moving parts when using the lift.

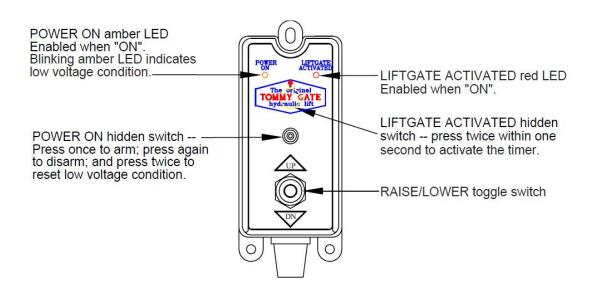
To turn the control power on, press the POWER ON hidden switch once, marked with black rings or circles (located between the liftgate ID and the toggle switch). You should see the amber LED POWER ON light when the control is armed. To disarm the control, press the POWER ON hidden switch again.

To activate the control, press the LIFTGATE ACTIVATED hidden switch twice within one second (located under the liftgate logo). You should see the red "LIFTGATE ACTIVATED light when the control is activated.

To lower the platform, push the toggle switch down. To raise the platform, push the toggle switch up. When you remove pressure from the toggle switch, the operation will stop.

After you have activated the control by pressing the LIFTGATE ACTIVATED hidden switch twice within one

- second, you have approximately 90 seconds to use the gate. If the gate isn't used before the 90 seconds is up, the LIFTGATE ACTIVATED time deactivates the control. If the gate is used within 90 seconds, the LIFTGATE ACTIVATED timer automatically resets for an additional 90 seconds. To reactivate the timer, press the LIFTGATE ACTIVATED hidden button twice within one second.
- 4) After the platform is raised to the level of the vehicle's floor and the load is removed, close the platform and folding extension (if equipped). The latch on the passenger's side will secure itself. Install the latch padlock on the passenger's side latch. Go to the driver's side and secure the latch.
- 5) NEVER LEAVE THE TRUCK WITH THE PLATFORM ON THE GROUND, PARTIALLY RAISED, OR OPEN. To prevent children or unauthorized personnel from operating the lift, keep the gate in the stored position when not in use, and secure both the driver's and passenger's side latches. Make sure the passenger's side latch padlock is installed and the control is deactivated before leaving the truck unattended.
- 6) The liftgate is an industrial product for material handling only. It is not to be used as a personnel or wheelchair lift. Do not ride on the platform. Always stand clear of the platform when opening, raising, or lowering.
- 7) NEVERALLOW UNAUTHORIZED PERSONNEL TO OPERATE THE LIFTGATE.
- 8) Deactivate the controls and make sure the passenger's side latch padlock is installed when the liftgate is not in use.



LIFTGATE ADJUSTMENT

- 1) Make sure liftgate is in the fully raised position.
- 2) Disconnect the #4 power cable from the positive side of the battery or manually trip the circuit breaker Remove the latch padlock from the passenger's side of the platform.
- 3) Unlatch the driver's side latch and then the passenger's side latch. Unfold the liftgate platform.
- 4) Remove the Phillips head screw(s) that hold the upright caps in place, then remove both upright caps (Figures 1 & 2).
- 5) Check the spring tension on the driver's side and passenger's side latch springs as shown (Figures 4 & 5). The driver's side swing away latch spring should measure 1" tall. Tighten or loosen if necessary. The passenger's side fixed latch spring should measure 7/8" tall. Tighten or loosen if necessary.

- 6) Loosen the platform latch pin with a 9/16" wrench and a screwdriver. The hole in the platform is oversized to allow the platform latch pin to be adjusted. See Figure 3.
- 7) Close and latch the platform.
- 8) Center the platform latch pin vertically in the latch hole. Push the platform latch pin toward the front of the truck so there is a 1/8" gap (Figures 6 & 7). Tighten the platform latch pin with a 9/16" wrench and a screwdriver to 20 ft-lb.
- 9) Reinstall the upright caps on the uprights.
- 10) Reconnect the liftgate's main power cable to the positive side of the battery
- 11) Install the latch padlock on the passenger's side of the platform.

Inside of the Uprights

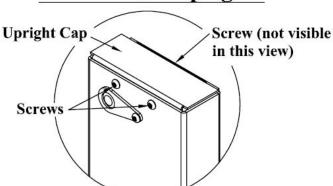


Figure 1. Three screws per upright for the 40 inch travel lift.

Inside of the Uprights

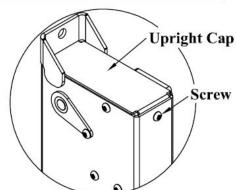
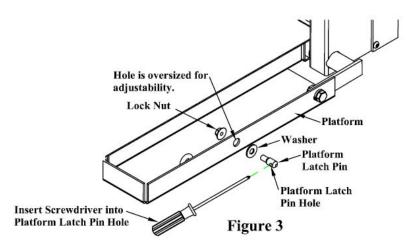
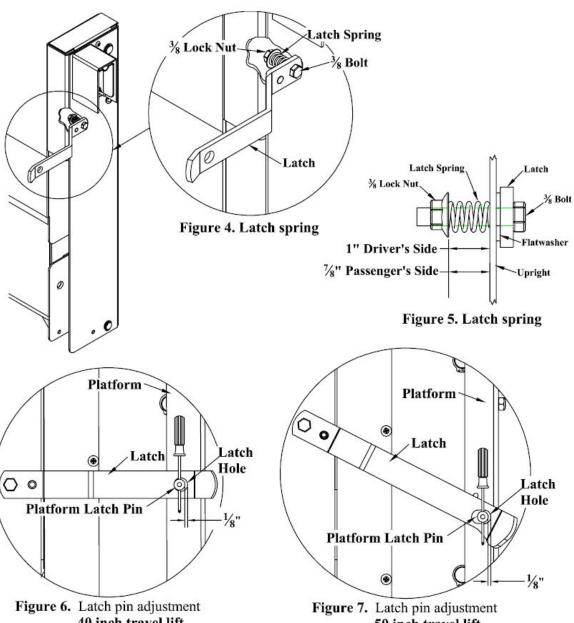


Figure 2. One screw per upright for the 50 inch travel lift.





40 inch travel lift.

50 inch travel lift.

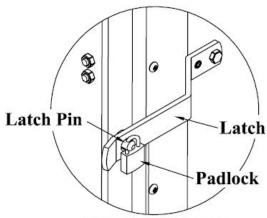


Figure 8. Latch padlock

PLATFORM DROP-AWAY FEATURE

Install platform drop-away pin (Figure 1).

- 1) Insert the platform drop-away pin through the existing 3/8" hole in the upright back.
- 2) Fasten the pin to the upright using the supplied 3/8" nut.

Prepare chain for platform drop-away feature (Figure 2).

1) Unhook both platform chains from the subassembly pins.

CAUTION!

Platform may spring back with great force if released under pressure.

- 2) Push the platform down and pull the driver's side chain toward the drop-away pin on the upright.
- 3) Mark the position of the cloth cover that is next to the drop-away pin.
- 4) Slowly release the platform allowing the spring tension to lessen.
- 5) Cut a 1" slit in the cloth cover

Use platform drop-away feature (Figure 3).

- 1) Unhook both platform chains from the sub-assembly pins.
- 2) Pull chain link through slit cut in driver's side chain cover.

CAUTION!

Platform may spring back with great force if released under pressure.

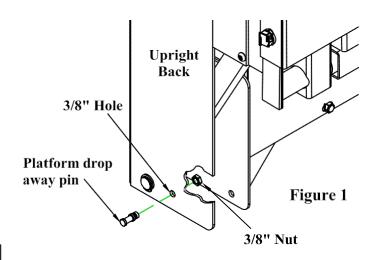
3) Push the platform down and hook exposed link over drop away pin on the upright.

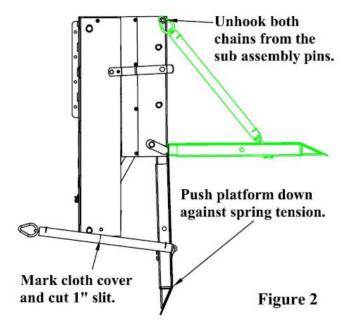
CAUTION!

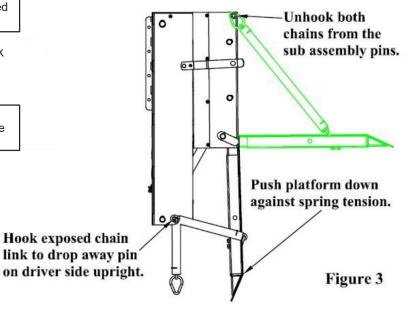
If equipped, the platform flipper may fall open and contact the ground if the ball locks on the platform are not in good working order.

Disable platform drop-away feature

1) Reverse order of above instructions.







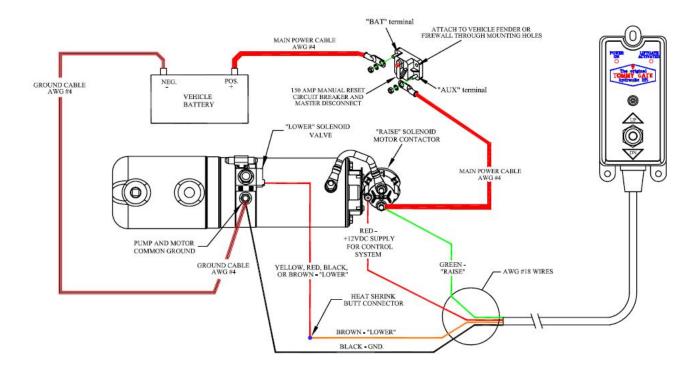
WIRING DIAGRAM



WELDING NOTE !!! DISCONNECT ALL BATTERY CABLES.
ALWAYS DISCONNECT THE GROUND CABLE FIRST, ATTACH THE
WELDING GROUND TO THE TRUCK RATHER THAN THE LIFTGATE.



NOTE !!! IF GATES ARE NOT WIRED IN ACCORDANCE WITH THIS DIAGRAM YOUR WARRANTY WILL BE VOID.



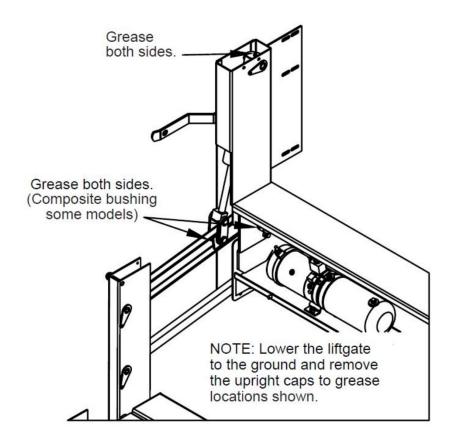
MAINTENANCE

- A) Inspect platform chains for any wear Replace immediately if either is found to be worn.
- B) Check the oil level in the reservoir. With the liftgate platform at the bottom of its travel, the fluid should be two-thirds full. BE SURETHE CYLINDERS ARE COMPLETELY EXTENDED.

CAUTION!

Use ISO Grade 32 hydraulic oil only. Using any other oil will void cylinder warranty.

- C) Check for leaks from the cylinder hoses, and all fittings. Replace or repair if leaky.
- D) Grease all zerk fittings with an ample amount of grease (every 120 days). Do not grease composite bushings.
- E) Replace any worn or missing parts before putting the liftgate back into service.
- F) If needed, adjust platform latches which are designed to hold the liftgate in a properly stored position.
- G) Check for cracks in all welds (repair if needed).
- H) Check for wear at all pivot points.
- I) Check all electrical connections. Clean or repair if needed.
- J) Replace fuses if needed. Check electric cables for worn or damaged insulation.
- K) Replace or clean safety decals, so they are legible.
- L) Check control for proper operation.



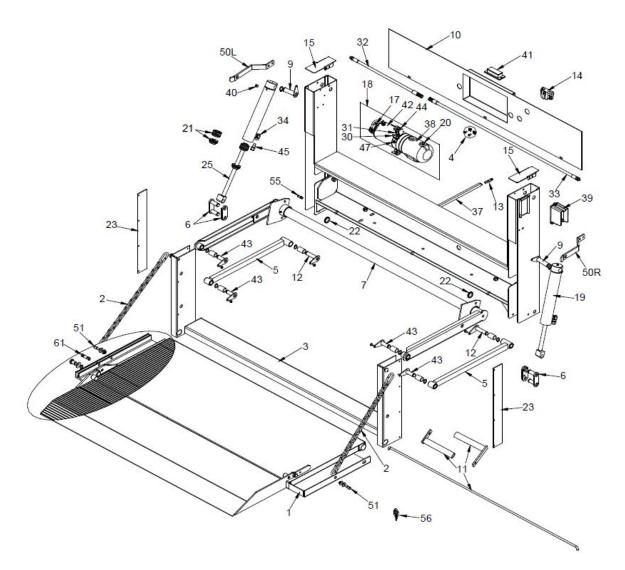
TROUBLESHOOTING

	Problem	Possible Cause	Remedies
1	Lift will not operate-"POWER	Control not armed properly.	Turn the power on at the control by pressing
	ON" amber LED light does		the "POWER ON" hidden switch, marked
	not come on.		with black rings or circles (located between
			the Tommy Gate logo and the toggle switch)
		Poor electrical connection.	Check and repair or replace all cables and
			connections.
		3 Amp Mini ATO fuse is blown.	Correct short and then replace fuse.
		Polarity is reversed.	Switch positive and negative cables.
		Circuit breaker tripped or disengaged.	Check for short, then manually engage
			circuit breaker.
		Faulty control.	Replace control.
2	Lift will not operate-	POWER ON amber LED light is blinking	Low voltage condition. Check and repair or
	"LIFTGATE ACTIVATED"		replace all cables and connections.
	red LED light does not come		
	on.	Control not activated properly.	Press the "LIFTGATE ACTIVATED" hidden
			switch twice within one second (located
			under the Tommy Gate logo). The red
			"LIFTGATE ACTIVATED" LED light should
			come on.
		Faulty control.	Replace control.
3	Blinking amber "POWER	Low voltage condition.	Check and clean or repair all electrical
	ON" LED.		connections. Load test battery, then recharge
			or replace battery, if required. Reset control.
		Poor grounds or connections.	Repair, replace, clean as necessary.
		Power connected or reconnected since last	Normal, press bullseye once to activate solid
		use.	"POWER ON" red LED.
4	Lift will not raise or raises	Poor electrical connection.	Check power and ground cables and all
7	slowly - control working	Tool oloomodi comicodoni.	connections.
	properly.	Battery charge is low.	Recharge or replace battery.
	ргорену.	Release valve stuck, partially open or dirty.	Raise platform completely and continue to
		Therease valve stuck, partially open of unity.	run pump for 5 seconds.
		Release valve needs replacement.	Contact IMT.
		Raise solenoid not working.	Contact IMT.
		Oil level low.	Check oil and add ISO grade 32 hydraulic oil
		on level low.	ONLY.
		Vantalum natinat III. II. II.	Observe and allowed to the control of the control o
		Vent plug not installed or dirty.	Check vent plug on pump tank. A red
			shipping plug is installed at the factory. It
			must be replaced by the metal vented plug.
		Overloaded liftgate.	Remove some material or weight.
	Lift settles down slowly with load or no load.	Hoses or fittings leaking.	Tighten or replace.
		Check valve stuck or dirty.	Lift and lower lift several times to flush out valve.
		Check valve damaged.	Contact IMT
		Cylinder seals worn or damaged.	Contact IMT
		Down solenoid sticking partially open.	Contact IMT
6	Pump or motor noisy.	Worn pump, motor or coupling.	Contact IMT
	,	Oil level low.	Check oil and add ISO grade 32 hydraulic oi
7	Lift lowers very slowly,	Hinge arm pins seized to the bushings.	ONLY. Clean and/or replace arm pins and bushings
	especially in cold weather.		
		Lack of lubrication at cylinder pins and/or	Lubricate all zerks.
		lupper arm assembly.	
		upper arm assembly. Cylinder pins seized due to lack of lubricant.	Clean and/or replace cylinder pins.

TROUBLESHOOTING

	Problem	Possible Cause	Remedies	
8	Lift will not lower.	"POWER ON" LED or red LIFTGATE ACTIVATED LED light on.	Press the "POWER ON" hidden switch, marked with black rings or circles (located between the Tommy Gate logo and the toggle switch). The amber "POWER ON" LED light should come on. Now press the hidden "LIFTGATE ACTIVATED" switch twice within one second (located under the Tommy Gate logo). The red "LIFTGATE ACTIVATED" LED light should come on.	
		Poor electrical connections.	Check and clean or repair all electrical connections.	
	3 Amp Mini - ATO fuse is blown.		Correct short and then replace fuse.	
Lift stuck or sprung, if control is working A		Apply downward load on platform, pry away		
	properly. ι		upright sides	
		If control is working properly, damaged or non-working release solenoid.	Contact IMT	
		Hinge arm or cylinder pins seized.	Lubricate, clean and/or replace pins.	

LIFTGATE REPLACEMENT PARTS (70734521 / 70734522)



70734521 / 70734522 PARTS LIST

10134	1 521 / / 0 / 34	1522 PARTS LIST					
	PART#	DESCRIPTION	QTY	25.		CYLINDER SHAFT COMPLETE	2
1.		PLATFORM	1	30.	73540438	MONARCH LEE CHECK VALV	1
2.	73050196	PLATFORM CHAIN	2	31.		T FITTING (PUMP & MOTOR)	1
3.		SUBASSEMBLY	1	32.		1/4"X26-1/4" HYDRAULIC HOSE-LEFT	1
4.		LICENSE PLATE MOUNT KIT	1	33.		1/4"X85-3/4" HYDRAULIC HOSE-RIGHT	1
5.	71414334	LOWER ARM W/PINS & BUSHINGS	2	34.		1/4"X1/4"X90DEG STL CYL ELBOW	1
6.	51723701	CLEVIS CYLINDER ASSEMBLY	2	37.		4 GA. 2 WIRE ELEC CABLE W/LUGS	1
7.		UPPERARMASSEMBLY	1			(33 FT)	
9.	71414335	7/8" UPRIGHT BACK CYLINDER PIN	2	38.	70734573	3QT MONARCH PLASTIC TANK	1
10.	70734737	LIGHT PANEL ONLY	1	39.	77041882	FIXED CONTROL	1
	70734738	LIGHT PANEL W/LIGHTS		40.	72534783	VENT PLUG - CYLINDER	2
11.	70734572	TORSION SPRING KIT	1	41.		LICENSE PLATE LIGHT & BRACKET	1
12.	71414336	3/4" UPRIGHT BACK ARM	2	42.	77041883	12 VOLT MOTOR-ONLY	1
		PIN & BUSHING		43.	71414337	3/4" UPRIGHT FRONTARM PIN	4
13.		COPPERLUG	6	44.	77041884	RELEASE SOLENOID	1
14.	77441219	FUSE (225 AMP)	1			EXTERNALASSEMBLY W/CONN	
	(FUSE HOL	DER 77441116)		45.	73540439	FLOW CONTROL	2
15.		UPRIGHT CAP	2	47.	51723703	PUMP (ONLY) W/3QT. TANK (2500PSI)	1
17.	77041880	RAISE SOLENOID-3 POST	1	50L	. 51723704	LATCH KIT-LEFT	1
18.	77041881	PUMP & MOTOR UNIT(2500PSI)	1	50F	R. 51723705	LATCH KIT-RIGHT	1
19.	51723702	CYLINDER	2	51.	51723706	PLATFORM LATCH PIN ASSEMBLY	2
20.	72534782	VENTPLUG	1	55.		DROP AWAY PIN ASSEMBLY	1
21.	73050197	CYLINDER REPAIR KIT	2	56.		PADLOCK W/KEYS	1
22.		SPLIT PLASTIC GROMMET KIT	2	61.	71414338	PLATFORM CHAIN PIN (1.079")	2
23.		SUBASSEMBLYBELTING	2				

SECTION 6: CALCIUM CHLORIDE SYSTEM

CACL2 SYSTEM-400 GAL (41715803-1)	6-4

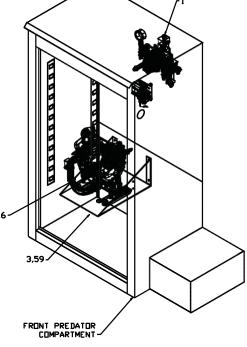
CaCl₂ SYSTEM-400 GAL (41715803-1)

1.	51716138	FRL	1
2.	70396040	HOSE 3/4" FRESH WATER	1
3.	60250816	SHELF	1
4.	51701520	HOSE ASM 18' W/FTGS	1
5.	51701525	MIXER ASM	1
6.	51714060	TIRE PUMPER	1
7.	51715949	DECAL KIT	1
8.	51715951	KIT-HDWR (INCL:60-84)	1
9.	51716140	KIT-FTGS (INCL:26-56)	1
10.	70034461	WATER TANK 45 GAL	1
11.	72053558	ADPT 3/4 MPT 3/4 MPT HEX	1
12.	60250743	BRACKET-GAUGE	1
13.	60250744	BACK-CALC TANK	1
14.	70034457	TANK-400GAL CALC	1
15.	70034458	SCREEN-STRAINER	1
16.	72533121	SILLCOCK 1/2 THRD	1
17.	79085286	EJECTOR	1
18.	89039176	HOSE-AIR 1/2X250#	6FT
19.	89039188	HOSE-AIR 1X2 300#	6FT
20.	89392146	HOSE 1/4X250#	8FT
21.	89392349	HOSE 3/4X250# WP	5FT
22.	70146348	STRAINTER 3/4 BARB	1
23.	72531821	BUSHING - REDUCER BRASS 1-3/4	1
24.	72533725	NOZZLE FRESH WATER	1
25.		PUMP	1
26.		LID ASM - 8" ACCESS COVER	1
	70395714	LID-ASM - CHLORIDE 22" ROUND	1
28.		TEE NYLON 3/4	1REF
	70034462	ELL PIPE 90° 1.0" NPT BARB NYLON	
	72053457	BARB NIPPLE 1/2NPT 1/2HOSE	1REF
	72053523	STREET ELBOW 1/4NPT 90°	2REF
	72053555	TEE 3/4NPT	1REF
33.		STREET ELBOW 3/4NPT 90°	2REF
	72053726	ADAPTER 3/3MPT 1/2MPT HEX	2REF
35.	72661657	CLAMP-HOSE .75 STEPLESS EAR (WAS 72066000)	6REF
36.	72531132	STREET ELBOW 3/8NPT 90°	1REF
37.	72531133	STREET ELBOW 1/2NPT 90°	1REF
38.	72532470	BARB NIPPLE 1MPT 1HOSE	2REF
	72532552	HOSE FTG-TYPE O 1/4 1/4 BRS	4REF
40.	72532718	NUT 1 LOCK BRS	2REF

10 NOT TEOORETIC	
FRONT OF PREDATOR FLOOR	
32.00 — 13.74 — 19.00 — 13.00 — 10.00	
CUT OPENING FOR TANK PLUMBING	

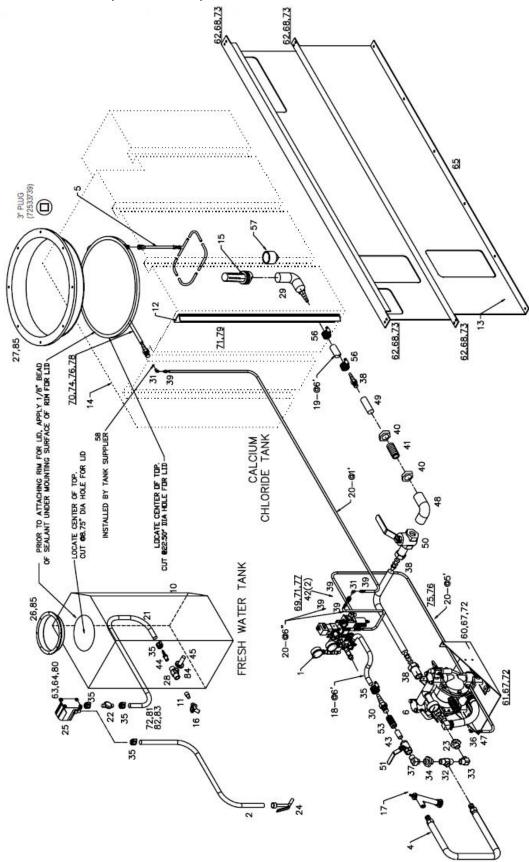
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41.	72532719	PIPE NIPPLE 1NPT X 2-1/2 BRS	1REF
42.	72532721	BULKHD COUPLING 1/4 X 1-1/2	1REF
43.	72533022	PIPE NIPPLE 1/2NPT X CLOSE	2REF
44.	72533721	NIPPLE BARB NYL 3/4 MPT 3/4	1REF
45.	72531554	NIPPLE PIPE BRS 3/4 X 2.00	1REF
47.	72533569	HOSE FTG-TYPE O 1/4 3/8 BRS	1REF
48.	72533646	STREET ELBOW 1NPT 90°	1REF
49.	72533647	COUPLING 1NPT BRS	1REF
50.	73540081	BALL VALVE 1NPT BRS	1REF
51.	73054192	BALL VALVE 1/2NPT	1REF
53.	73054676	CHECK VALVE 1/2FPT INLINE	1REF
55.	72066061	HOSE CLAMP 3/8-7/8 SAE 6	2REF
56.	72066065	HOSE CLAMP 3/4-1.75 SAE20	4REF
57.	72533739	PLUG-PIPE SQ HD PVC 3.00	1REF
58.	72533740	FITTING-INSERT BRASS AREATOR	1REF
59.	89392440	WEATHERSTRIP .06X.56TRIM	4FT
60.	72060025	CAP SCR 5/16-18X1 HHGR5	4REF
61.	72060027	CAP SCR 5/16-18X1-1/2 HHGR5	4REF
62.	72060046	CAP SCR 3/8-16X1 HHGR5	8REF
63.	72601552	MACH SCR #10-24X1.00	4REF
64.	72062123	NUT SS 10-24 HYLOC	4REF
65.	72060833	SCR 5/16-18X3/4 THRDCTG HWH	6REF
66.	72060989	CARR BOLT 5/16-18X1 RBNK GR2	4REF
67.	72062109	NUT 5/16-18 HEX NYLOC	9REF
68.	72062103	NUT 3/8-16 LOCK	8REF
69. 70	72062104	NUT 1/4-20 LOCK	2REF
70.	72062194	NUT 1/4-20 LOCK SS WASHER 1/4 WRT	1REF
71. 72.	72063001 72063002	WASHER 1/4 WRT WASHER 5/16 WRT	6REF 18REF
73.	72063002	WASHER 3/16 WRT	16REF
74.	72063183	WASHER 1/4 SS	1REF
7 4 . 75.	72066349	POP RIVET .19 X 1/2GRIP	1REF
76.	72066525	HOSE CLAMP 3/4 VINYL CVR	3REF
77.	72060323	CARR BOLT 1/4-20X1-1/4 SQNK	4REF
78.	72601593	CAP SCR 1/4-20X1-1/2 FLTHD SS	1REF
79.	72060021	CAP SCR 1/4-20X1/2 HH SS	4REF
80.	72063000	WASGER 3/16 FLAT	4REF
81.	72066581	CLAMP	1REF
82.	72062109	NUT 3/16 HEX NYLOC	9REF
83.	72601329	CAP SCR 3/16-18X3/4 BTNHD	1REF
84.	72063066	WASHER 1.00 HI-STR ZN YELLO	2REF
85.	72061009	SCR - SHT MET 6 X 3/4 PH TYPEAZ	15REF
	72533739	3" PLUG	REF
		\int_{-1}^{1}	



USED FROM 6/2000 TO PRESENT

CaCI₂ SYSTEM-400 GAL (41715803-2)

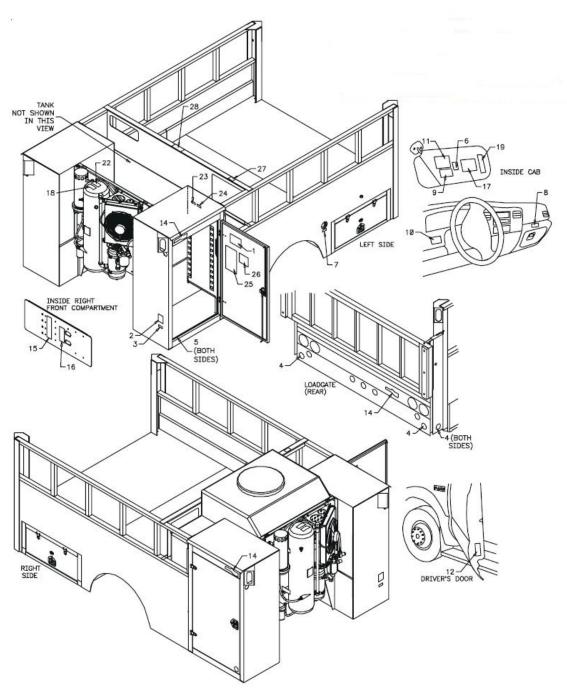


DECAL KIT-CaCl, SYSTEM (51715949)

Ł		OAL IXI	1-0401, 0101 LIN (017 100	7
	1.	70395651	DECAL-PM KIT VP6160C	1
	2.	71393886	DECAL-DANGER EXPLODING TANK	1
	3.	70391601	DECAL-AIR TANK DRAIN	1
	4.	70039057	REFLECTOR-RED	4
	5.	70039058	REFLECTOR-AMBER	2
	6.	70392213	DECAL-CAUTION WASH/WAX	1
	7.	70392309	DECAL-DIESEL FUEL ONLY	1
	8.	70392965	DECAL-THINK SAFETY	1
	9.	70392982	DECAL-SERV & REPAIR	1
	10.	70394092	DECAL-CAUTION BRK/COMP	1
	11.	71039134	DECAL-CAUTION OIL LEVEL	1
	12.	70392387	DECAL-FINAL STG VEH CERT	1
	13.	70393309	LICENSE PLATE-IMT DIAMOND	*1
	14	70395654	DECAL-PREDATOR ID	3

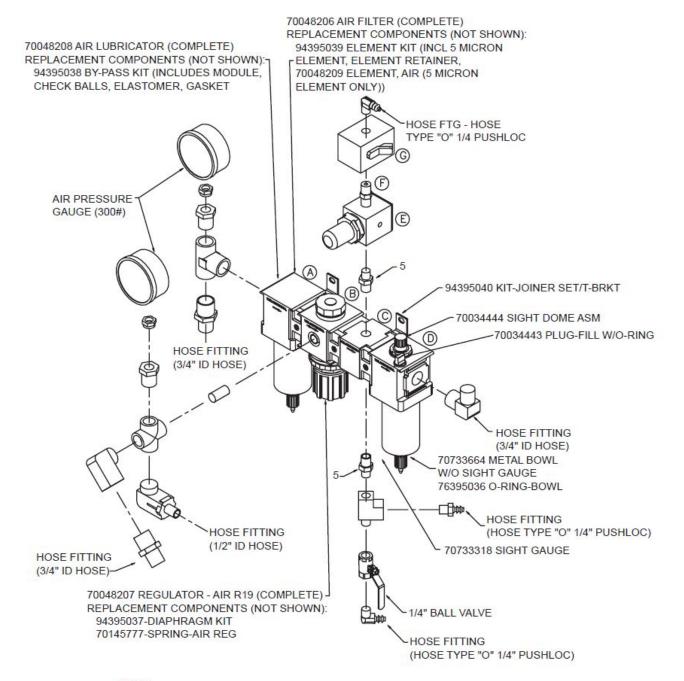
15.	70395656	DECAL-PREDATOR LIGHTS	1
16.	70395657	DECAL-PREDATOR TRK/COMP	1
17.	70396160	DECAL-CMPRSR START UP	1REF
18.	70396161	DECAL-CMPRSR FLUID	1REF
19.	70396162	DECAL-WARNING READ MANUAL	1REF
20.	70396163	DECAL-DANGER DRIVELINE OP	***1REF
21.	70396164	DECAL-DANGER BREATING	**1REF
22.	70396165	DECAL-DANGER HOT OIL	1REF
23.	70039433	DECAL-CHLORIDE MIXER HOSE	1
*	LOCATE IT	EM 13 ON FRONT LICENSE PLATE	HOLDER

- ** LOCATE ITEM 21 NEAR FLR.
- LOCATE ITEM 20 ON COMPRESSOR MTG BRACKET.



SERIAL NUMBERS PRED021074 TO PRESENT

FLR-1/2" HOSE REEL - PREDATOR W/CALCIUM SYSTEM (51716138)



NOTE:

1) WHEN INSULATING FITTINGS, THREADS SHOULD BE SEALED WITH PRO LOCK PIPE SEALANT W/TEFLON (#51464) OR EQUIV. THIS SEALANT IS A LOW STRENGTH ANAEROBIC PASTE. THREAD TAPE IS NOT ACCEPTABLE!
2) SEE 70733454 FOR A LIST OF REPLACEMENT COMPONENTS FOR THE FRL (ITEM #2).