

“WIDE BODY” FORAGE BOX

OPERATOR'S MANUAL & PARTS LIST



WARNING

READ AND UNDERSTAND THIS MANUAL BEFORE OPERATING THIS EQUIPMENT. UNSAFE OPERATION OR MAINTENANCE OF THIS EQUIPMENT CAN RESULT IN INJURY OR DEATH.

HSMFG0316

Manufactured By
H&S MANUFACTURING CO., INC.

P.O. BOX 768 • (715) 387-3414 FAX (715) 384-5463
MARSHFIELD, WISCONSIN 54449

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WARRANTY

H&S WARRANTY

H&S Manufacturing Co., Inc. ("H&S") warrants this product to be free from defect in material and workmanship. Except as noted below, this warranty term is twelve (12) months from the date of delivery of the product to the original purchaser by an authorized H&S dealer. Under this warranty, H&S will repair or replace, at its option, any covered part which is found to be defective in material or workmanship during the applicable warranty term. In no case will the covered repair cost of a part or parts exceed the replacement cost of that part. Warranty service must be performed by H&S or a dealer authorized by H&S to sell and/or service the product involved, which will use only new or remanufactured parts or components furnished by H&S. This warranty includes approved parts and labor to fix the product but does not include, and the purchaser is responsible for, any service call and/or transportation of the product to and from the dealer's place of business, for any premium charged for overtime labor requested by the purchaser, and for any service work not directly related to any defect covered under this warranty. This warranty includes only those components of the product manufactured by H&S. Warranty for any component not manufactured by H&S including, but not limited to, engines, batteries, tires, rims, hydraulic motors, pumps, etc. are covered by the warranty, if any, provided separately by their respective manufacturers.

This warranty in all its parts, is extended solely to the original purchaser of the product, is terminated upon any subsequent transfer or sale from or by the original purchaser and extends no third party benefits or rights whatsoever.

The warranty term for any product used in any commercial, custom, for hire or rental application, is limited to six (6) months from the date of delivery of the product to the original purchaser or the first day of service, whichever comes first, by an authorized H&S dealer.

Floor and side panels utilized in H&S Manure Spreaders are warranted, to the original purchaser, to not wear through or delaminate for 10 years when used to spread normal agricultural manure. The frame, sides, end, floor and roof of forage boxes are warranted to not wear or rust through for 10 years when the forage box is used to transport freshly chopped forage. These specific warranties include only replacement of any defective panel part without any allowance for labor beyond the terms of the standard H&S 12 month warranty.

For commercial, custom for hire, or rental application, warranty is limited to 6 months from the date of delivery to the original purchaser, or the first day in service, whichever is earlier.

This warranty does not include: (1) Any product that has been altered or modified in ways not approved by H&S; (2) Depreciation or damage caused by normal wear, misuse, improper or insufficient maintenance, improper operation, accident or failure to follow the product Operator's Manual recommendations and product decal recommendations; (3) Normal maintenance parts and service; (4) Repairs made with parts other than those available from H&S or performed by anyone other than H&S or a dealer authorized by H&S to sell and/or service the product involved.

To secure warranty service the purchaser must report the product defect to a dealer authorized by H&S to sell and/or service the product involved within the applicable warranty term together with evidence of the warranty start date and make the product available to that dealer within a reasonable period of time.

HERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE OF THIS WARRANTY. H&S and the companies affiliated with it makes no warranties, representations, or promises, express or implied, as to the performance or freedom from defect of its products other than those set forth above and **NO IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS OR FITNESS FOR A PARTICULAR PURPOSE IS MADE. IN NO EVENT WILL THE DEALER, H&S OR ANY COMPANY AFFILIATED WITH H&S BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.** The **ONLY REMEDY** the purchaser has in connection with the breach of performance of any warranty on H&S products are those set forth above.

The selling dealer has no authority to make any representation or promise on behalf of H&S, or to modify the terms or limitations of this warranty in any way.

12/13

**FILL OUT
AND MAIL
IMMEDIATELY
TO MAKE
WARRANTY
EFFECTIVE**



WARRANTY REGISTRATION

Date of Purchase _____

Purchaser _____ Address _____

City _____ State _____ Zip _____

Product _____ Model# _____ Serial# _____

Dealer _____ Address _____

City _____ State _____ Zip _____

Signature of Original Buyer

MANUFACTURER'S STATEMENT

Your New H&S Product has been manufactured of the finest quality materials and components. The performance you get from your machine is largely dependent upon how well you read and understand this manual and apply this knowledge. There is a right and a wrong way to do everything. Please do not assume that you know how to operate and maintain your Machine before reading this manual carefully. Keep this manual available for ready reference.

IMPORTANT!

Tear on the dotted line, provide the information requested on the card. The H&S Warranty is valid **“only”** after this card is received and recorded at H&S Manufacturing Co., Inc. Mail at once. No postage is required in the U.S.A.



NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL

FIRST CLASS MAIL Permit No.195 Marshfield, WI 54449

POSTAGE WILL BE PAID BY ADDRESSEE

H&S Manufacturing Co., Inc.
PO Box 768
Marshfield, WI 54449-9963



DEALER PRE-DELIVERY CHECK LIST

After the Forage Box has been completely set-up, check to be certain it is in correct running order before delivering to the customer. The following is a list of points to inspect. Check off each item as you have made the proper adjustments and found the item operating satisfactorily.

- Forage Box was not damaged in shipment. Check for dents and loose or missing parts.
 Report damage immediately to H&S Manufacturing Co., Inc
- Forage Box has been correctly assembled according to instructions in this manual.
- All Shields and Guards are in place and fastened.
- All Grease Fittings have been lubricated. See lubrication guide in this manual.
- Hoses & fittings if applicable, are properly attached and there are no visible leaks.
- All Mechanisms are operating trouble free.
- All Roller Chains are at proper tension.
- Apron Chains are adjusted properly.
- All Bolts and Fasteners are tight.
- All Decals are in place and legible.

(Dealer's Name)

Model Number

Serial Number

(Signature of Pre-Delivery Inspector)

(Inspection Date)

DEALER DELIVERY CHECK LIST

This check list that follows is an important reminder of valuable information that should be passed on to the customer at the time this Power Box is delivered.

Check off each item as you explain it to the customer.

This pre-delivery check list, when properly filled out and signed assures the customer that the pre-delivery service was satisfactorily performed.

- Explain to the customer that the pre-delivery inspection was made.
- Explain to the customer all the safety precautions they must exercise when operating this unit.
- Explain recommended loads for different types of materials.
- Explain to customer that regular lubrication is required for proper operation and long life of machine.
- Show customer the lubrication section of Owner's Manual.
- Give the customer Owner's Manual and make sure he reads and understands all operating and service instructions.
- Have customer sign a completed "Warranty Registration," and mail it promptly.

Dealer's Name _____

Date Delivered _____

By _____

Signature of Original Buyer _____

Note: Warranty is not valid until warranty card is completed and returned to H&S Mfg. Co., Inc.

SAFETY INFORMATION



**BE
ALERT! YOUR SAFETY
IS INVOLVED.**

THIS SYMBOL IS USED THROUGHOUT THIS BOOK WHENEVER YOUR PERSONAL SAFETY IS INVOLVED. TAKE TIME TO BE CAREFUL. REMEMBER: THE CAREFUL OPERATOR IS THE BEST OPERATOR. MOST ACCIDENTS ARE CAUSED BY HUMAN ERROR. CERTAIN PRECAUTIONS MUST BE OBSERVED TO PREVENT THE POSSIBILITY OF INJURY OR DAMAGE.

H&S MANUFACTURING CO. INC.

SAFETY INFORMATION

Keep signs in good condition. Immediately replace any missing or damaged signs.

RECOGNIZE SAFETY INFORMATION

This is the safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.



UNDERSTAND SIGNAL WORDS

A signal word—DANGER, WARNING, or CAUTION — is used with the safety-alert symbol. DANGER identifies the most serious hazards.

Safety signs with signal word DANGER or WARNING are typically near specific hazards.

General precautions are listed on CAUTION safety signs.



WARNING



CAUTION



CAUTION

FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety messages in this manual, and all safety signs on your machine. Follow all recommended precautions and safe operating procedures.

OBSERVE MAXIMUM TRANSPORT SPEED

The maximum transport speed for this implement is 32 km/h (20 m.p.h.).

Some tractors are capable of operating at speeds that exceed the maximum transport speed of this implement. Regardless of the maximum speed capability of the tractor being used to tow this implement, do not exceed the implement's maximum transport speed.

Exceeding the implements maximum transport speed can result in:

- * Loss of control of the tractor/implement combinatio
- * Reduced or no ability to stop during brakin
- * Implement tire failur
- * Damage to the implement structure or its component

Use additional caution and reduce speed when towing under adverse surface conditions, when turning, and when on inclines.

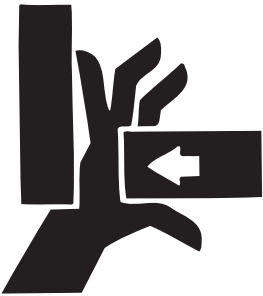
Do not attempt transport if the fully loaded implement weighs more than 1.5 times the weight of the tractor.



 <p>1494A</p>	<p>⚠ WARNING</p>
	<p>DO NOT OPERATE THIS EQUIPMENT IF THIS DECAL IS EXPOSED. REPLACE SAFETY SHIELDS.</p>

	<p>⚠ WARNING</p>
	<p>DO NOT GO NEAR LEAKS</p> <ul style="list-style-type: none"> • High pressure oil easily punctures skin causing serious injury, gangrene or death. • If injured, seek emergency medical help. Immediate surgery is required to remove oil. • Do not use finger or skin to check for leaks. • Lower load or relieve hydraulic pressure before loosening fittings. <p>11599</p>

 <p>1494B</p>	<p>⚠ WARNING</p>
	<p>DO NOT REMOVE SHIELDS MOVING PARTS INSIDE</p>

 <p>1494C</p>	<p>⚠ WARNING</p>
	<p>STAY CLEAR MOVING PARTS UNDER THIS AREA</p>

<p>⚠ WARNING!</p>

<p>KEEP CHILDREN AWAY AT ALL TIMES!</p> <p>2495</p>

TRACTOR:

This Operators Manual uses the term "Tractor" when identifying the power source.



W A R N I N G

TO PREVENT SERIOUS INJURY OR DEATH;

BEFORE YOU ATTEMPT TO OPERATE THIS EQUIPMENT, READ AND STUDY THE FOLLOWING INFORMATION. IN ADDITION, MAKE SURE THAT EVERY INDIVIDUAL WHO OPERATES OR WORKS WITH THIS EQUIPMENT, WHETHER FAMILY MEMBER OR EMPLOYEE, IS FAMILIAR WITH THESE SAFETY PRECAUTIONS. KNOW HOW TO STOP UNLOADING MECHANISM BEFORE STARTING IT.

If the machine becomes clogged, disengage truck or tractor hydraulics, stop the truck or tractor engine, and allow all mechanisms to stop before cleaning or working on the machine.

DO NOT attempt to perform maintenance or repair with truck or tractor running and hydraulics hooked to the power source.

DO NOT step up on machine at any time.

DO NOT get off the tractor when box is in operation. Operator position is in the tractor seat.

(Running Gear, Chassis Mount). DO NOT leave truck cab when box is in operation. (Truck Mount). DO NOT ALLOW PERSONNEL OTHER THAN THE QUALIFIED OPERATOR NEAR THE MACHINE. DO NOT allow minors to operate or be near the machine.

STAY CLEAR of rear of Forage Box at all times.

DO NOT clean, adjust, or lubricate the machine when any part is in operation.

BE SURE the machine is clear of people, tools, and other objects before engaging hydraulics.

NEVER start power box until all guards and safety shields are secured in place.

STAY CLEAR of hydraulic lines, they may be under extreme pressure or heat.

Loose or floppy clothing should not be worn by the operator.

CAUTION – BEWARE OF LOW ELECTRICAL WIRES.

H&S Mfg. Co. always takes the operator and his safety into consideration and guards exposed moving parts for his protection. However, some areas cannot be guarded or shielded in order to assure proper operation. In addition, the operators manual and decals on the machine itself warn you of further danger and should be read and observed closely.

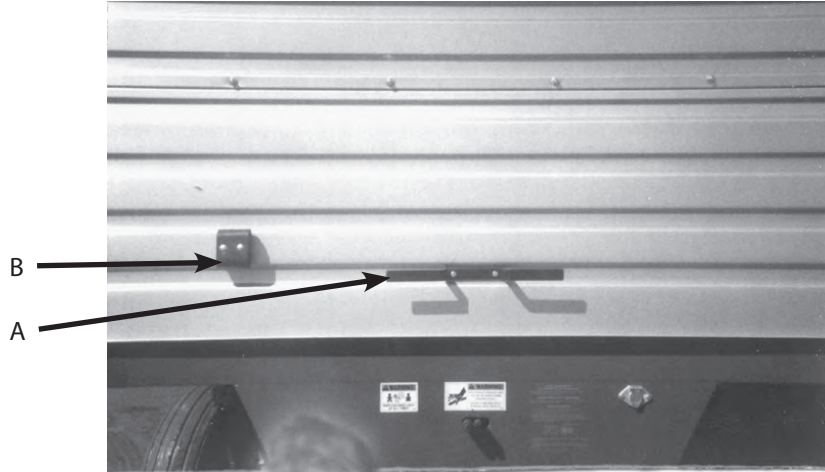
Study The Above Safety Rules

ATTENTION - BE ALERT - YOUR SAFETY IS INVOLVED

BEFORE OPERATION

Check entire unit carefully before first operation. Tighten bolts, set screws, and chains which might have come loose in handling. Run the unloading mechanism for several minutes. This will serve as a break-in and as a check that all parts are assembled and lubricated properly. Successful operation will be achieved by periodic adjustments and experience of the operator. Make sure to read and understand the main feeder apron adjustments.

Located on the front of the Wide Body Box is a convenient hanger (Item A) for the hydraulic hoses. When the Wide Body Box is not being unloaded, hoses should be securely wrapped around this holder, with ends inserted into Block Holder (Item B). (Running Gear and Chassis Mount Only).



Mounting Socket For SMV Emblem (A)

Red Reflective Tape (B)

WHEN TRANSPORTING ON THE HIGHWAY OR ROADS, PLACE SMV SIGN IN SOCKET PROVIDED AND REGULARLY CLEAN THE REFLECTIVE TAPE AT THE REAR OF THE POWER BOX.

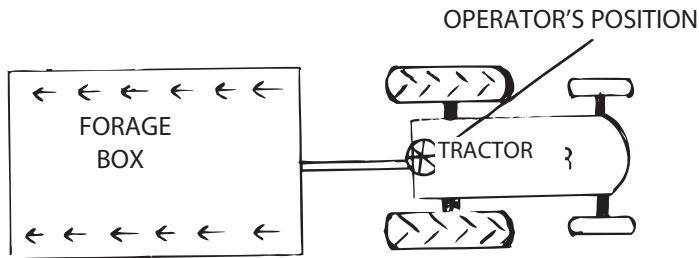
NOTE: Obey all state and local laws, concerning towed equipment, on public roads.

OPERATION

After you have run the Forage Box for several minutes, checked it over thoroughly as suggested in earlier recommendations, and have properly adjusted and lubricated it, you are ready to place your Power Box into operation.

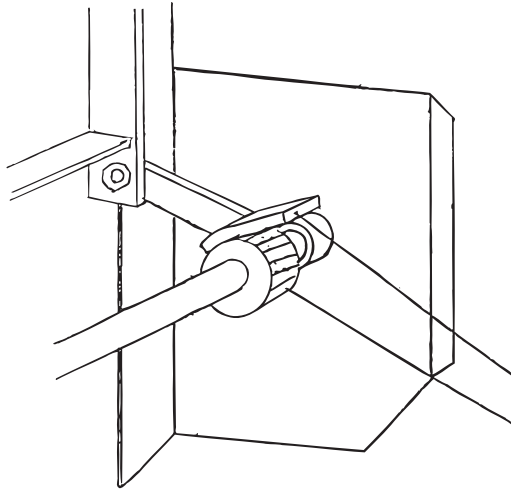
UNLOADING

1. Park the Forage Box on level ground whenever possible during unloading.
2. *Connect the hydraulic hoses from the Forage Box to the tractor.*
3. With operator in the truck or tractor seat, and all others well clear of Forage Box, engage the hydraulics. NOTE: Rear unload operates in only one direction. *If tractor hydraulic system stalls, check for obstruction, reverse the lever on the tractor or switch the hydraulic hoses at the ports on the tractor. If stalling persists, the problem may be insufficient tractor hydraulic pressure.*



4. During unloading, move the Power Box forward to allow material to fall away from rear of box.
5. When box is empty, disengage hydraulics.
6. Check rear door to make sure it is securely latched.

NOTE: (Italics between * refers to use on Chassis or Running Gear Mount Models Only)

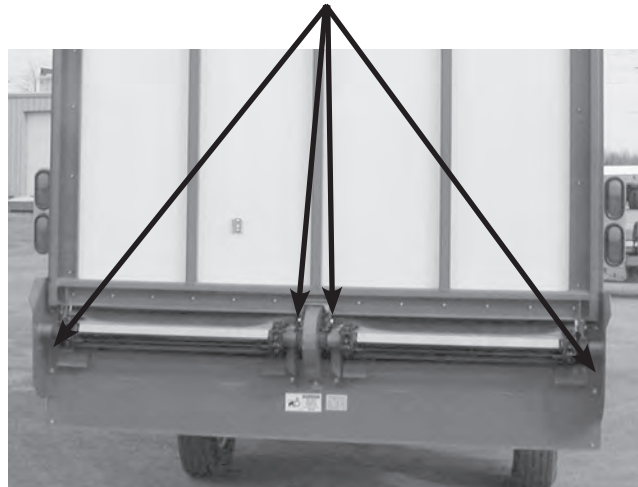


REAR DOOR LATCHES

Located at the bottom left, center, and right hand side of the rear door are the door latches. These latches lock against knurled gears on rear drive shaft to hold door closed when loading Rear Unload Power Box. When hydraulics are activated and rear drive shaft turns, knurled gears flip latches open to allow rear door to swing free. Upon completion of unloading check rear door to insure that door latches are securely in place for next load.

DOOR LATCHES

KNURLED GEARS



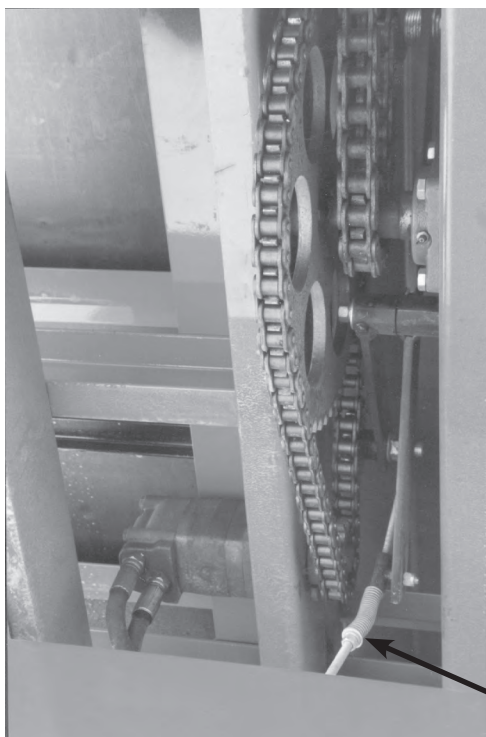
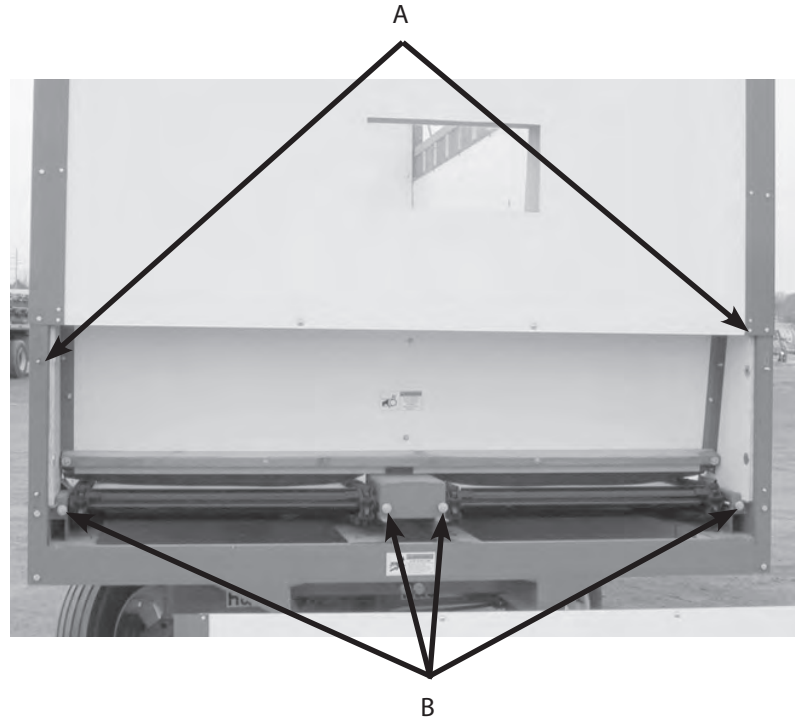
MAIN APRON ADJUSTMENT

Main feeder apron adjustment bolts are located behind the convenient access door located in the bottom portion of front gate. Remove handle nuts (A) to open access panel and swing door downward (Chassis or Running Gear Mount Only). On truck mount, remove 4 handle nuts and remove access panel.

All apron chains must be taken up evenly before you use the power box. Check again after the first few loads. The Main Feeder Aprons should be at proper tension at all times. The tightener bolts are spring loaded to help maintain proper tension on apron chains. Tighten the full threaded bolts (B) to adjust aprons. Aprons are properly adjusted when two Cross Slats, or about three feet of chain lift off the Chain Return Slides from the front of the box. Maintain this tension when operating the box.



(Shield Removed For Clarity)



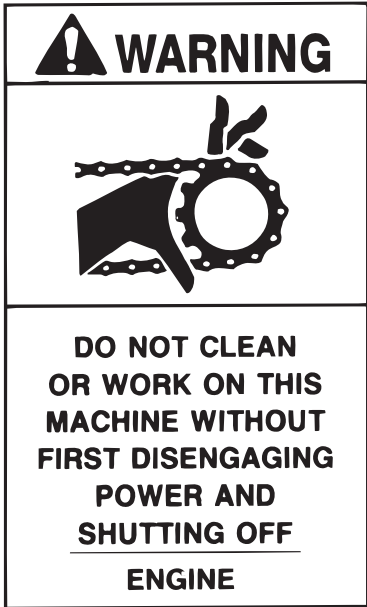
PRIMARY & SECONDARY APRON DRIVE CHAINS

Check both chains regularly for wear. Tension on roller chains is maintained by a spring loaded tightener system. This is factory set and should not require adjustment.

TIGHTENER

LUBRICATION GUIDE

The operator should become familiar with all lubrication points and establish a systematic routine to insure complete and quick lubrication of the machine.



DRIVE CHAINS

Lubricate the drive chains with a light machine oil. Keep chains aligned with sprockets. This will lengthen the life of the sprockets and chain. Lubricate chains often.

GREASE ZERKS

There are multiple grease fittings on your "WIDE BODY" FORAGE BOX. Grease daily during normal use and before and after storage. Use a good grade of high quality grease.

Listed below is location and quantity of zerks.

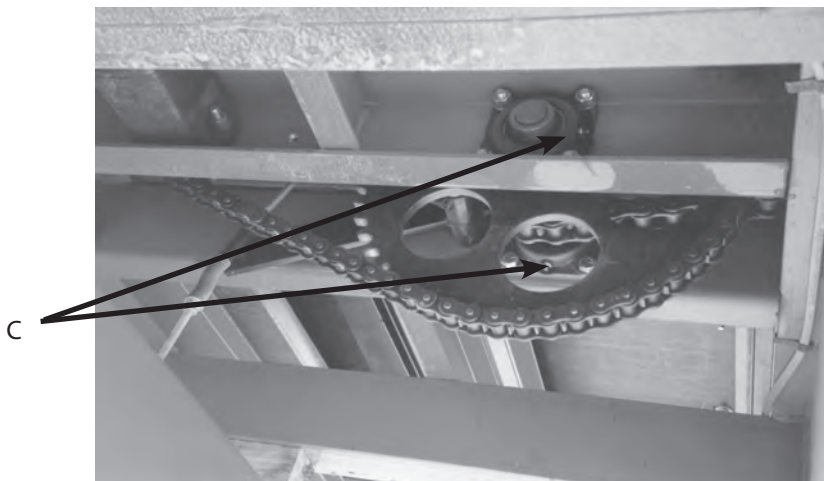
- A. (4) one on each main apron front idler sprocket.
- B. (4) one on left hand, two on center, and one on right hand rear main apron drive shaft brackets.
- C. (2) one on each bearing on reduction sprocket idler shaft.
- D. (2) one on each tandem pivot (chassis mount)



A (Shield Removed For Clarity)



B



C

DECAL LOCATION

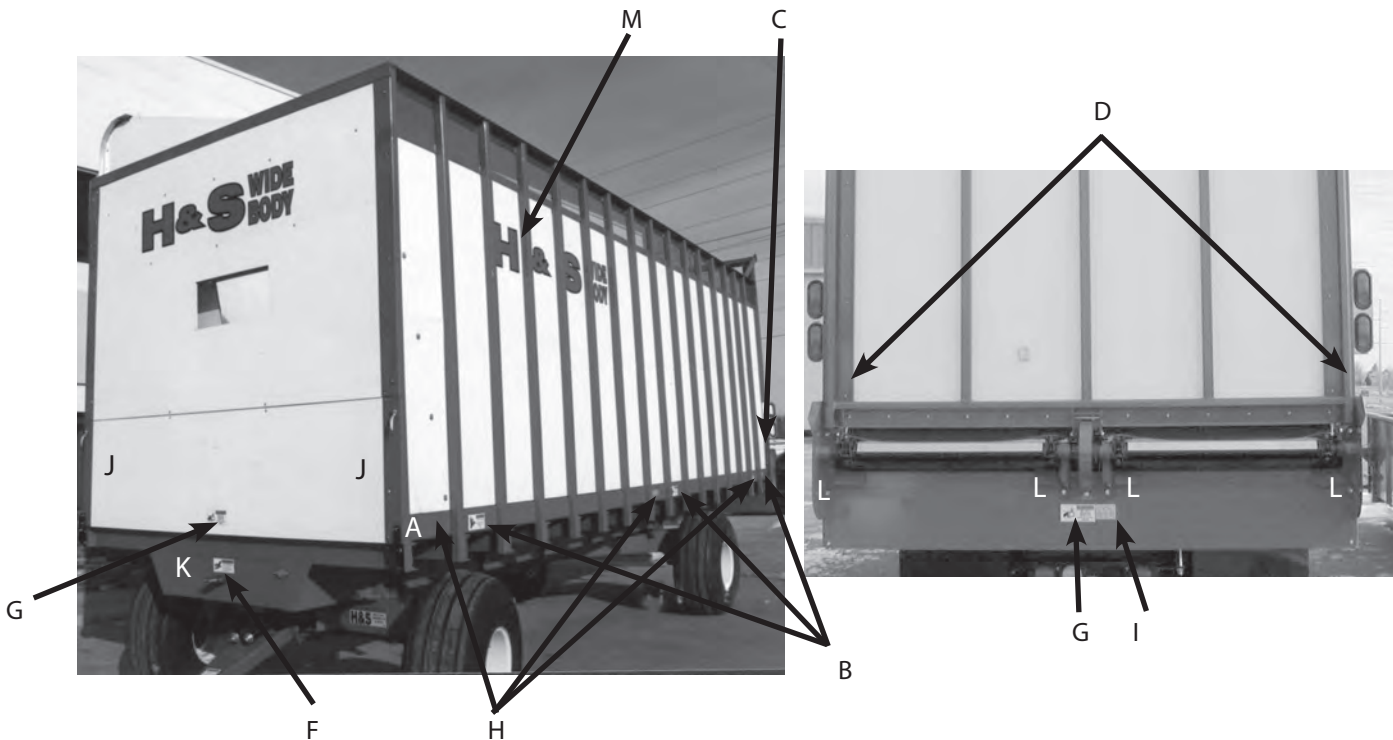
Your "Wide Body" Forage Box was manufactured with operator safety in mind. Located on the Forage Box are various decals to aid in operation, and warn of danger or caution areas. Pay close attention to all the decals on your Power Box.



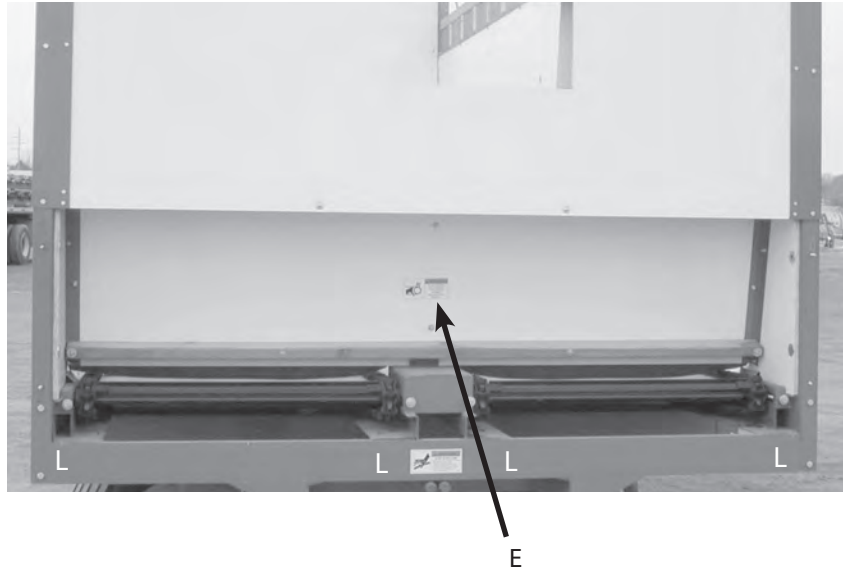
DO NOT REMOVE ANY OF THESE DECALS. IF DECALS ARE LOST, DAMAGED, OR IF THE POWER BOX IS REPAINTED, REPLACE DECALS. REMEMBER: DECALS ARE FOR YOUR PROTECTION AND INFORMATION.

Listed below are the decals on your "Wide Body" Forage Box. These decals may be ordered individually by part number or by ordering complete set.

ITEM	PART NO.	DESCRIPTION
A	54033	Made in the U.S.A.
B	1494C	(6) Warning - Moving Parts Under
C	N/A	Serial Number Decal
D	DCRED	(2) Red Reflector Decal
E	1494A	Warning - Do Not Operate
F	11599	Warning - Hydraulic Leaks
G	1494B	(2) Warning - Do Not Remove Shields
H	DCAMB	(6) Amber Reflector Decal
I	311	Patent Numbers
J	66076	(2) Grease Zerk behind shield
K	2495	Keep Children Away
L	093020	(8) Grease Zerk
M	32343	"H" Letter - Aluminum WB
	32344	"&" Letter - Aluminum WB
	32345	"S" Letter - Aluminum WB
	32274	"H" Letter - Fiberglass (FRP) WB
	32275	"&" Letter - Fiberglass (FRP) WB
	32276	"S" Letter - Fiberglass (FRP) WB
	32277	"WIDE BODY" Sign - All Models



DECAL LOCATION



INSTRUCTIONS FOR ORDERING PARTS

All service parts should be ordered through your authorized H&S Dealer. He will be able to give you faster service if you will provide him with the following:

1. Model & Serial Number – Both are located on the left hand rear upright.
2. All reference to left or right apply to the machine as viewed from the rear.
3. Parts should not be ordered from illustration only. Please order by complete parts numbers.
4. If your dealer has to order parts - give shipping instructions:
VIA truck - large pieces (please specify local truck lines)
VIA United Parcel Service (include full address)

H&S MFG. CO. INC.	
MARSHFIELD, WIS.	
MOD. NO.	<input type="text"/>
SER. NO.	<input type="text"/>
DESCR.	<input type="text"/>

PLEASE RECORD NUMBERS FOR YOUR UNIT FOR QUICK REFERENCE

ABOUT IMPROVEMENTS

H&S MFG. CO. IS CONTINUALLY STRIVING TO IMPROVE ITS' PRODUCTS.

We must therefore, reserve the right to make improvements or changes whenever it becomes practical to do so, without incurring any obligation to make changes or additions to the equipment previously sold.

FIGURE 1
BOX ASSEMBLY

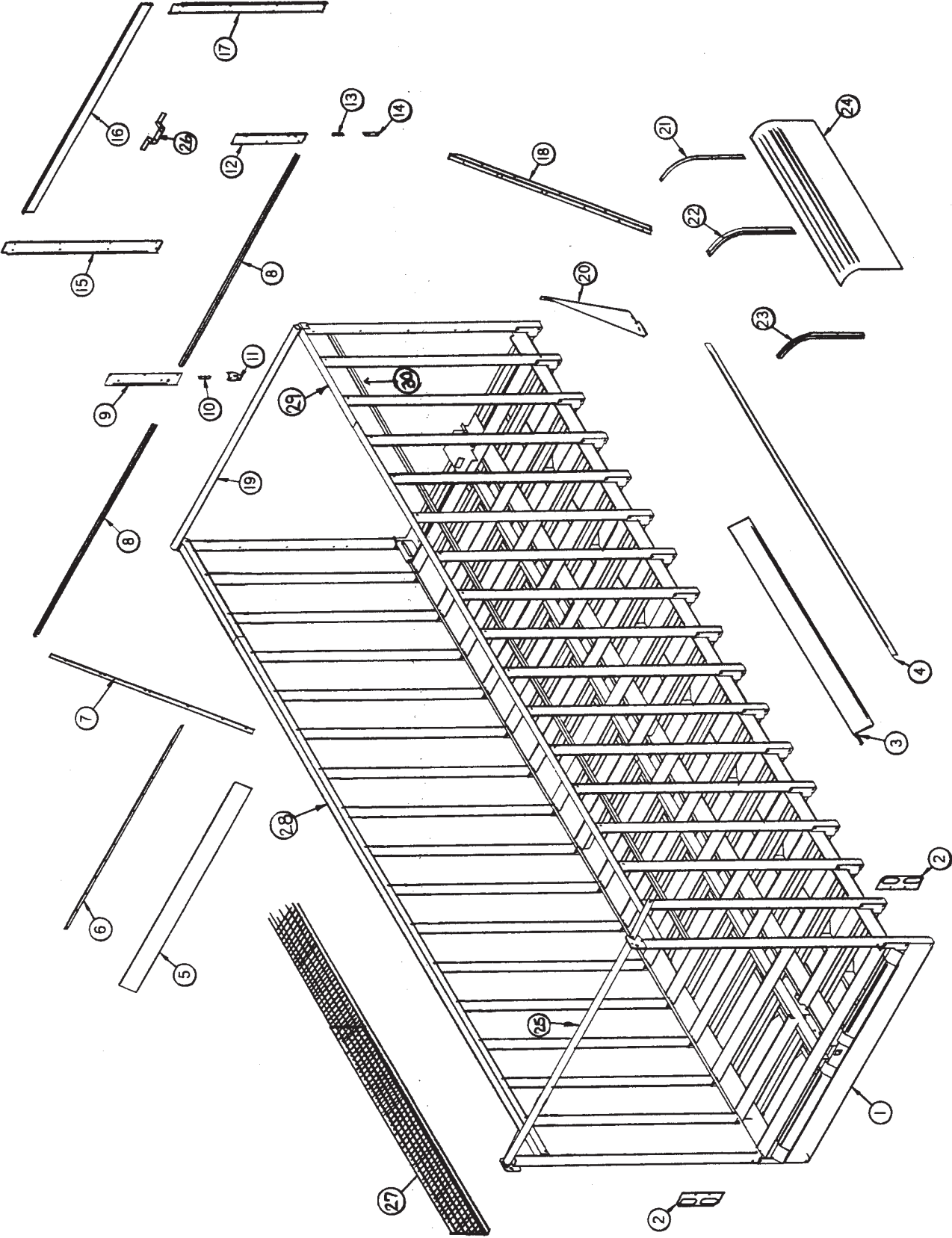


FIGURE 1 BOX ASSEMBLY

ITEM	PART NO. POLY BONDED SIDES		PART NO. ALUMINIZED SIDES			DESCRIPTION
	22'	24'	18'20'	22'		
1.	IFB25	IFB26	IFB128	IFB24	IFB25	Main Frame
2.	PB111	"	"	"	"	Light Bracket
3.	PB146	"	"	"	"	Center Floor Ridge
*	IFB149	"	"	"	"	Back Center Floor Ridge
*	IFB150	"	"	"	"	Front Center Floor Ridge
4.	IFB27	"	"	"	"	Filler Corner
5.	PB154	"	"	"	"	Front Rubber
6.	PB155	"	"	"	"	Rubber Holdown
7.	IFB28	"	"	"	"	Angle Bracket LH
8.	IFB29	"	"	"	"	Panel Angle
9.	IFB30	"	IFB45	"	"	Front Door Bottom Left
10.	S199	"	"	"	"	Door Hinge LH
11.	S198	"	"	"	"	LH Stake Hinge
12.	IFB31	"	IFB46	"	"	Front Door Bottom Right
13.	S193	"	"	"	"	Door Hinge RH
14.	S194	"	"	"	"	RH Stake Hinge
15.	IFB43	"	IFB32	"	"	Top Front Panel LH
16.	IFB33	"	IFB88	"	"	Top Front Door Panel
17.	IFB44	"	IFB34	"	"	Top Front Panel RH
18.	IFB35	"	"	"	"	Angle Bracket RH
19.	IFB36	"	"	"	"	Cross Front Brace
20.	IFB37	"	"	"	"	Inside Deflector B
21.	IFB38	"	"	"	"	Left Hood Support-Option
22.	IFB39	"	"	"	"	Center Hood Support-Option
23.	IFB40	"	"	"	"	Right Hood Support-Option
24.	IFB41	"	"	"	"	Roof Hood-Option
25.	IFB42	"	"	"	"	Top Rear Brace
26.	•PB29	"	"	"	"	Hose Holder
27.	IFB47	IFB84	IFB85	IFB86	IFB47	Expanded Metal Screen LH
*	IFB111	IFB112	IFB113	IFB114	IFB111	Expanded Metal Screen RH
28.	IFB65	IFB67	IFB69	IFB63	IFB65	LH Top Rail
29.	IFB66	IFB68	IFB70	IFB64	IFB66	RH Top Rail
30.	IFB115	IFB116	IFB117	IFB118	IFB115	RH Top Angle
*	IFB119	IFB120	IFB121	IFB122	IFB119	LH Top Angle
*	IFB152	IFB153	---	---	---	FRP Side Panel (1/side)
*	IFB154	"	---	---	---	FRP Front Top Panel (1)
*	IFB155	"	---	---	---	FRP Front Tailgate Panel (1)
*	IFB156	"	"	"	"	FRP Inside Shelf Panel (1)
*	---	---	S150	S299PB	---	Aluminized Side Panels Top
*	---	---	IFB75	IFB76	---	Aluminized Side Panels Bottom
*	---	---	---	---	IFB157	Aluminized Side Panel Top
*	---	---	---	---	IFB158	Aluminized Side Panel Bottom
*	---	---	PB151	"	"	Aluminized Front Panels Top
*	---	---	PB150	"	"	Aluminized Front Panels Bottom
*	---	---	PB152	"	"	Aluminized Front Tailgate Panel
*	PB145	IFB83	IFB81	IFB82	PB145	Poly Bonded Floor Panels
*	CHM38	"	"	"	"	Plug Storage
*	S522	"	"	"	"	Manual Holder

NOTE: * (Means Not Shown)

• (Indicates Use on Chassis or Running Gear Models Only)

" (Same as Part # to Left)

--- (Part is Not Used on This Model)

FIGURE 2 REAR DOOR & DRIVE SYSTEM

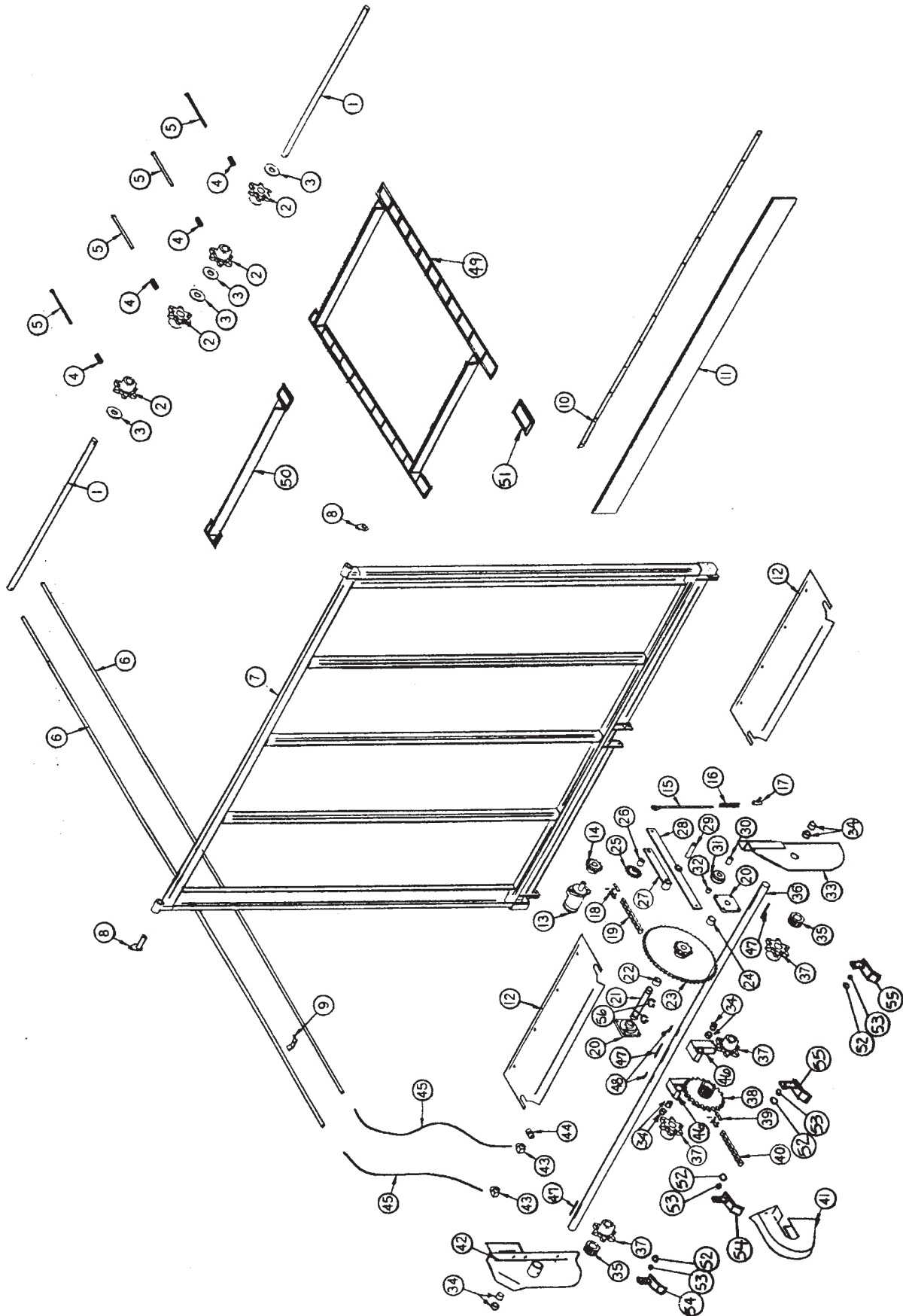


FIGURE 2

REAR DOOR & DRIVE SYSTEM

ITEM	PART NO. POLY BONDED SIDES		PART NO. ALUMINIZED SIDES			DESCRIPTION
	22'	24'	18'	20'	22'	
1.	S63	"	"	"	"	Idler Shaft
2.	S60	"	"	"	"	Idler sprocket
3.	S61	"	"	"	"	Idler shaft spacer
4.	WM210	"	"	"	"	Spring-Red
5.	S7	"	"	"	"	Idler Bolt 1/2 x 9-1/2"
6.	PB173	IFB1	IFB62	PB220	PB173	Hydraulic Pipe
7.	IFB2	"	"	"	"	Back Door Frame Work
8.	IFB3	"	"	"	"	Door Hinge Pin
9.	23N67	"	"	"	"	Pipe Clamp
10.	PB155	"	"	"	"	Seal Strap
11.	PB154	"	"	"	"	Rubber Seal
12.	PB74	"	"	"	"	Drive Shaft Panel
13.	16SV150	"	"	"	"	Hydraulic Motor
14.	IFB4	"	IFB4	"	IFB4	Motor Sprocket 10Tooth #80
15.	IFB5	"	"	"	"	Tightener Rod
16.	23N211	"	"	"	"	Spring
17.	23N206	"	"	"	"	Tightener Rod Holder
18.	F157	"	D39	"	F157	Connector Link
19.	16SV330	"	16SV330	"	16SV330	Chain #80 68 Pitch
20.	45N67	"	"	"	"	Bearing W/Holder
21.	IFB136	"	"	"	"	Short Idler Shaft
22.	R17	"	"	"	"	Short Idler Spacer
23.	IFB148	"	"	"	"	Short Idler Sprocket 52/8 Tooth #80/100
24.	R57	"	"	"	"	Spacer
25.	12V77	"	12V77	"	12V77	Sprocket
26.	IFB9	"	"	"	"	Primary Drive Spacer
27.	IFB10	"	"	"	"	Short Tightener
28.	IFB11	"	"	"	"	Long Tightener
29.	IFB12	"	"	"	"	Tightener Axle Pivot
30.	IFB13	"	"	"	"	Poly Chain Tightener Axle
31.	IFB14	"	"	"	"	Chain Tightener Roller
32.	IFB23	"	"	"	"	Spacer
33.	IFB15	"	"	"	"	RH Drive Shaft Mount
34.	S50	"	"	"	"	Bushing
35.	PB175	"	"	"	"	Latch Sprocket
36.	PB167	"	"	"	"	Drive Shaft
37.	S37	"	"	"	"	Drive Shaft Sprockets
38.	IFB16	"	IFB16	"	IFB16	Center Drive Shaft Sprocket 22 Tooth #100
39.	IFB159	"	"	"	"	Connector Link #100 (Heavy)
40.	IFB129	"	IFB129	"	IFB129	Chain #100 x 47 Pitch (Heavy)
41.	IFB19	"	"	"	"	Center Drive Shield
42.	IFB20	"	"	"	"	LH Drive Shaft Mount
43.	IFB21	"	"	"	"	Elbow-90 Degrees
44.	•PB185	"	"	"	"	Check Valve
45.	16SV144	"	"	"	"	Hose 1/2" x 41"
46.	PB183	"	"	"	"	Center Bearing Bracket
47.	PB133	"	"	"	"	Key (3) 3/8" SQ. x 4-3/8"
48.	PB87	"	"	"	"	Key (2) 3/8" SQ. x 2"
49.	---	---	S59	PB179	---	Complete T-Rod Apron
*	PB165	IFB22	PB180	PB178	PB165	Complete 667XH Apron
50.	---	---	S54	"	---	T-Rod Slat W/Att. Link
*	PB177	"	---	PB177	"	667XH Pintle Slat W/Att. Link
51.	---	---	S55	"	"	T-Rod Link
*	PB181	"	"	"	"	66XH Pintle Connector Link
*	PB182	"	"	"	"	667XH Pintle Att. Link LH or RH
52.	A34	"	"	"	"	Latch Washer
53.	PB61	"	"	"	"	Latch Pivot
54.	PB58	"	"	"	"	Latch Bracket LH
55.	PB57	"	"	"	"	Latch Bracket RH
*	---	---	PB161	"	"	Back Door Aluminized Panels
56.	F73	"	"	"	"	Snap Ring
*	IFB61	"	---	---	---	Back Door Poly Bonded Panels (2)

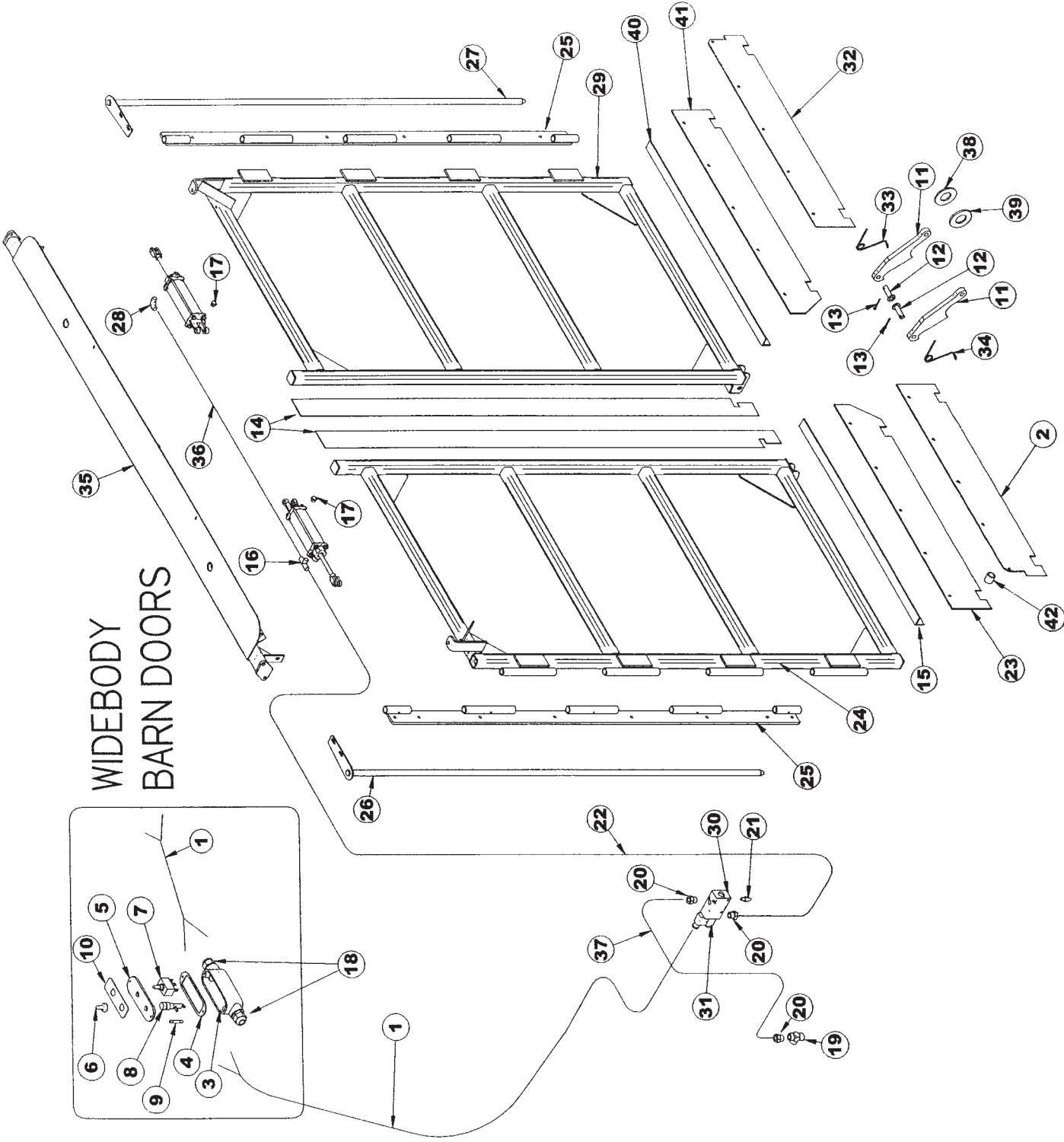
NOTE: * (Means Not Shown)

• (Indicates Use on Chassis or Running Gear Models Only)

" (Same as Part # to Left)

--- (Part is Not Used on This Model)

FIGURE 3 OPTIONAL BARN DOORS



WIDEBODY
BARN DOORS

FIGURE 3

OPTIONAL BARN DOORS

ITEM	PART NO.	DESCRIPTION
1.	GD13	10' 2-Wire Cable
2.	GD19	Left Door Seal
3.	16SV316	Control Box
4.	16SV317	Control Box Gasket
5.	16SV318	Control Box Cover
6.	16SV235	Switch Boot
7.	WM109	2 Position Momentary Switch
8.	16SV231	Fuse Holder
9.	16SV232	5 Amp Fuse
10.	GD20	Decal
*	GD42	Complete Control Box
11.	GD21	Latch
12.	GD22	Latch Pin
13.	33SV46	7/32" x 2" Cotter Pin
14.	GD24	Mid Door Seal
15.	GD25	Left Seal Angle
16.	GD26	1/4" Air Tee
17.	GD8	1/4" Vent Plug
18.	GD23	Strain Relief (Connector)
19.	GD43	1/4" Female Tee
20.	GD6	1/4" Male Coupler
21.	GD7	1/4" Vent Plug (Cone Shaped)
22.	GD10	1/4" D.O.T. Air Tubing (50')
23.	GD9	Left Double Seal
24.	GD28	Left Door Frame
*	GD41	Door Ply-Wood
25.	GD29	Hinge
26.	GD30	Left Hinge Pin
27.	GD31	Right Hinge Pin
28.	GD5	1/4" Male Elbow
29.	GD32	Right Door Frame
30.	GD16	3-Way Air Valve (Complete)
31.	GD17	Coil and Electrical Connector
*	GD18	Air Valve Spool and Seal Kit
32.	GD33	Right Door Seal
33.	GD34	Right Latch Spring
34.	GD35	Left Latch Spring
35.	GD36	Top Door Hood
36.	GD37	1/4" D.O.T. Air Tubing (15')
37.	GD38	1/4" D.O.T. Air Tubing (10')
38.	GD39	Thick Latch Washer
39.	GD40	Thin Latch Washer
40.	GD44	Right Seal Angle
41.	GD3	Right Double Seal
42.	GD45	Seal Spacer

NOTE: * (Means Not Shown)

FIGURE 4 HYDRAULIC GATE DELAY

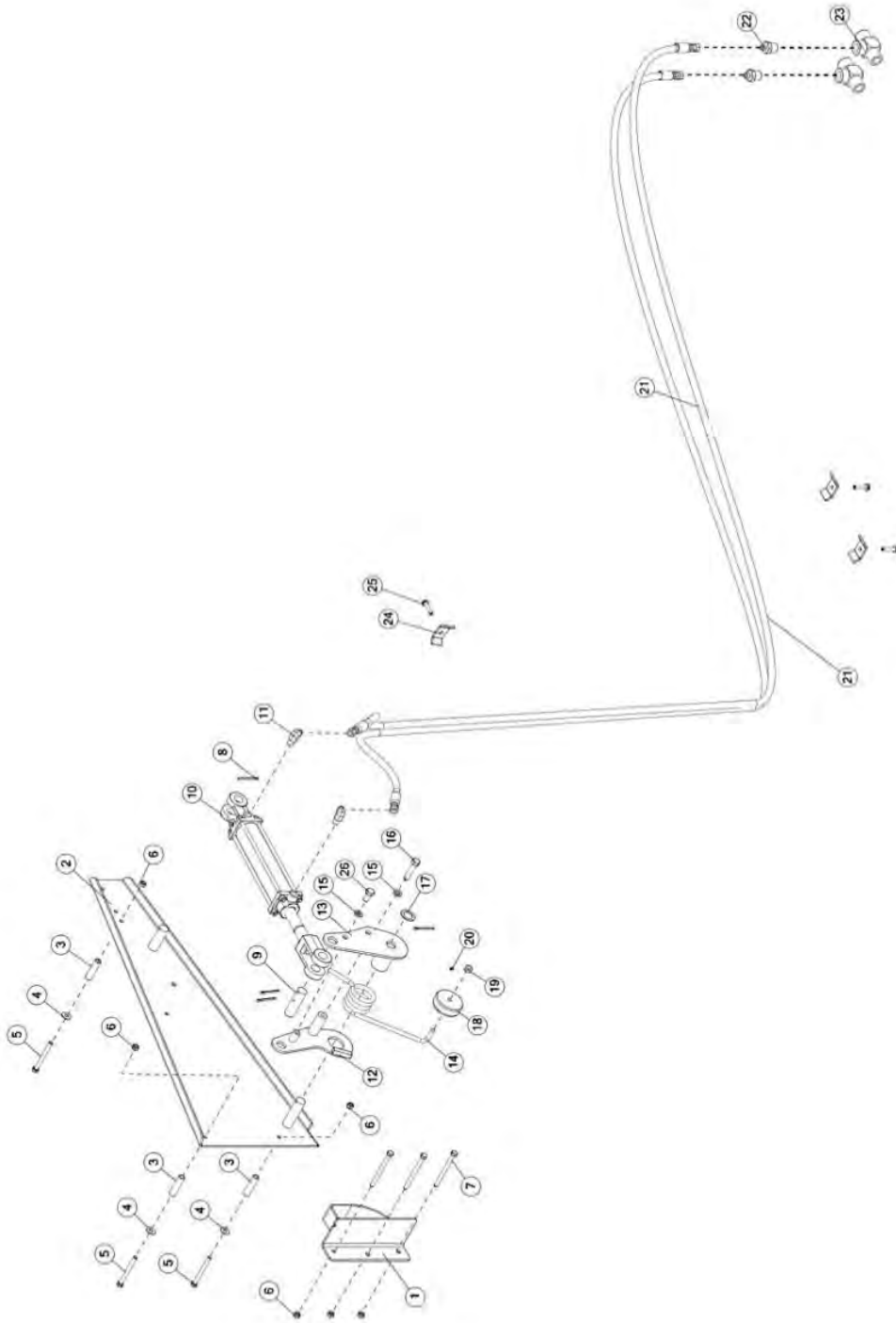


FIGURE 4

HYDRAULIC GATE DELAY

<u>ITEM</u>	<u>QTY</u>	<u>PART #</u>	<u>DESCRIPTION</u>
1	1	69912	STOP, GATE DELAY
2	1	60257	PIN WELDMENT
3	3	60404	STAKE SPACER
4	3	YWFL12005	WASHER, FLAT, 3/8 USS
5	3	YBHH12145	BOLT, 3/8 X 3-1/2 GR 5
6	6	YNRL12005	HEX NUT, REVERSIBLE-SIDE LOCK, 3/8-16
7	3	YBHH12185	BOLT, 3/8 X 4-1/2 GR 5
8	4	YPCT06020	COTTER PIN, 3/16 X 2
9	1	60192	GATE DELAY CYLINDER PIN
10	1	55999	2" X 8" HYDRAULIC CYLINDER
11	2	CHM164	MALE ELBOW CTX ~ 6-6 CTX
12	1	60266	SPRING MOUNT BOLT WELDMENT
13	1	69903	WLDMT, BRACKET, GATE DELAY
14	1	69884	SPRING
15	2	YWLO16005	WASHER, LOCK, 1/2
16	1	YBHH16045	BOLT, 1/2 X 1-1/4 GR 5
17	1	S345	PULLEY SPACER
18	1	69875	SHAFT, RND, 3.0 X 1.00
19	1	60133	SPRING SET COLLAR
20	1	YSKP08005	SET SCREW, SOCKET, KNURLED CUP PT, 1/4 X 1/4
21	2	60322	HOSE- GATE DELAY
22	2	60321	CONNECTOR, MALE, NPTF TO JIC
*	2	70774	SERVICE TEE .500
*	2	70775	MALE CONNCETOR .500
23	2	33SV71	SERVICE TEE, 3/4"
24	3	23N67	FRONT HOSE BRACKET
25	3	YSHW10020	HWH TCS "F", 5/16-18 X 1-1/2
26	1	YBHH16010	BOLT, 1/2 X 1 GR 5

NOTE: * (Means Not Shown)

FIGURE 5 **AIR GATE DELAY**

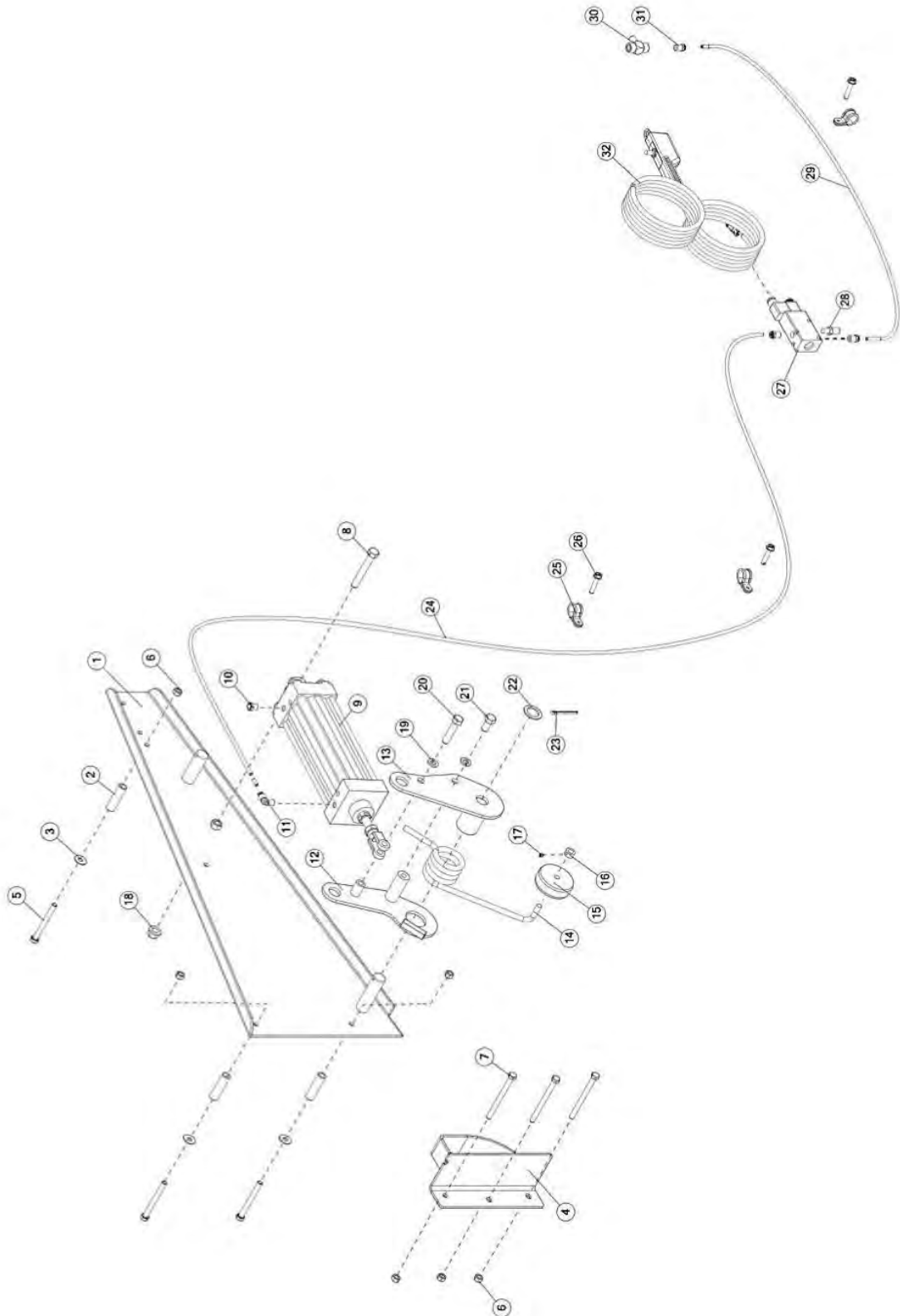
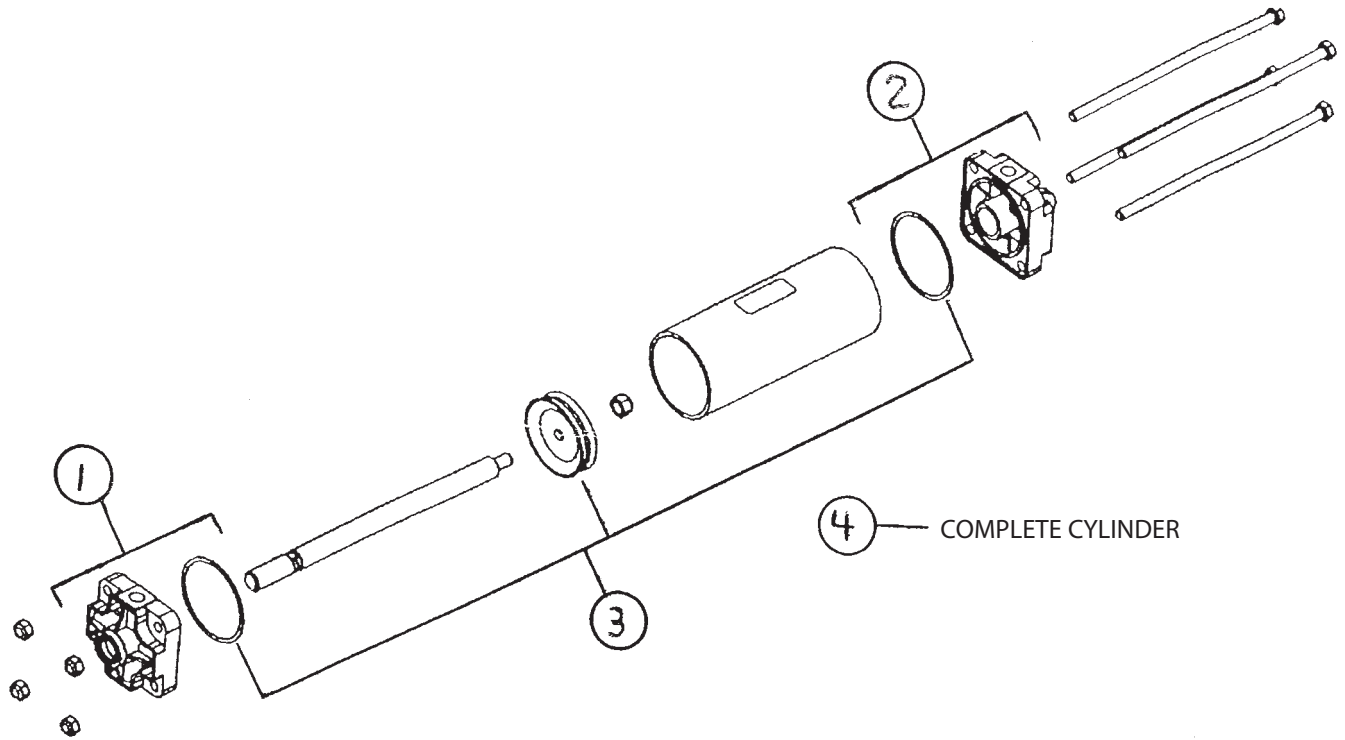


FIGURE 5 AIR GATE DELAY

ITEM	QTY.	PART #	DESCRIPTION
1	1	60257	PIN WELDMENT
2	3	60404	STAKE SPACER
3	3	YWFL12005	WASHER, FLAT, 3/8 USS
4	1	69912	STOP, GATE DELAY
5	3	YBHH12160	BOLT, 3/8 X 3-3/4
6	6	YNRL12005	HEX NUT, REVERSIBLE-SIDE LOCK, 3/8-16
7	3	YBHH12185	BOLT, 3/8 X 4-1/2 GR 5
8	1	YBHH16115	BOLT, 1/2 X 3-1/2 GR 5
9	1	GD52	3-1/4" X 6" AIR CYL COMPLETE
10	1	GD8	1/4" VENT PLUG
11	1	GD5	MALE ELBOW, 1/4"
12	1	60266	SPRING MOUNT BOLT WELDMENT
13	1	69903	WLDMT, BRACKET, GATE DELAY
14	1	69884	SPRING
15	1	69875	SHAFT, RND, 3.0 X 1.00
16	1	60133	SPRING SET COLLAR
17	1	YSKP08005	SET SCREW, SOCKET, KNURLED CUP PT, 1/4 X 1/4
18	1	YNFG16005	HEX NUT, FLANGED-LOCK, 1/2-13 GRADE F (ZINC)
19	2	YWLO16005	WASHER, LOCK, 1/2
20	1	YBHH16095	BOLT, 1/2 X 2-1/4 GR 5
21	1	YBHH16045	BOLT, 1/2 X 1-1/4 GR 5
22	1	S345	PULLEY SPACER
*	1	70774	SERVICE TEE .500
*	1	70775	MALE CONNCETOR .500
23	1	YPCT06020	COTTER PIN, 3/16 X 2
24	1	GD10	1/4" D.O.T. AIR TUBING
25	3	HGV162	RUBBER CUSHION CLAMP
26	3	YSHW10020	HWH TCS "F", 5/16-18 X 1-1/2
29	1	GD38	1/4" D.O.T. AIR TUBING X 10'
30	1	GD43	FEMALE TEE
31	2	GD6	MALE COUPLER, 1/4"
32	1	61598	HAND CONTROLLER (ON-OFF)

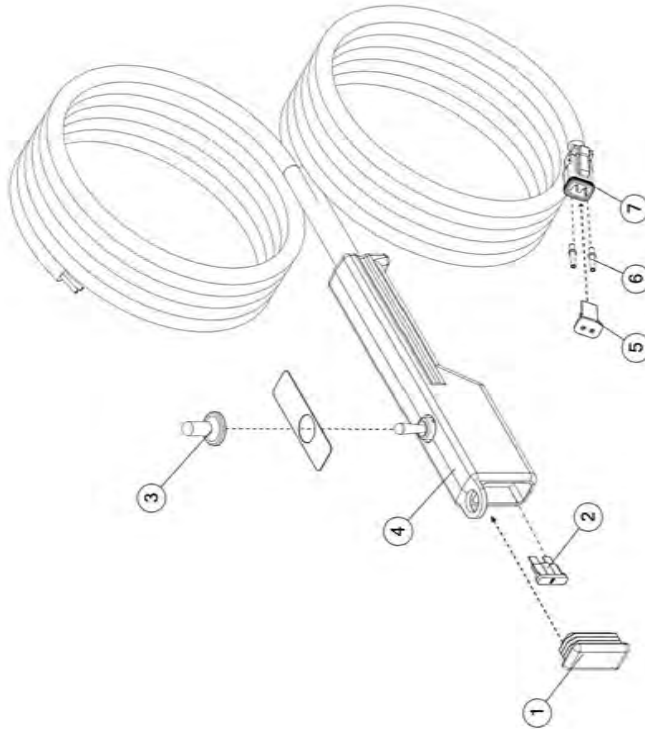
NOTE: * (Means Not Shown)

FIGURE 6 BARN DOOR 2-1/2" X 8" AIR CYLINDER



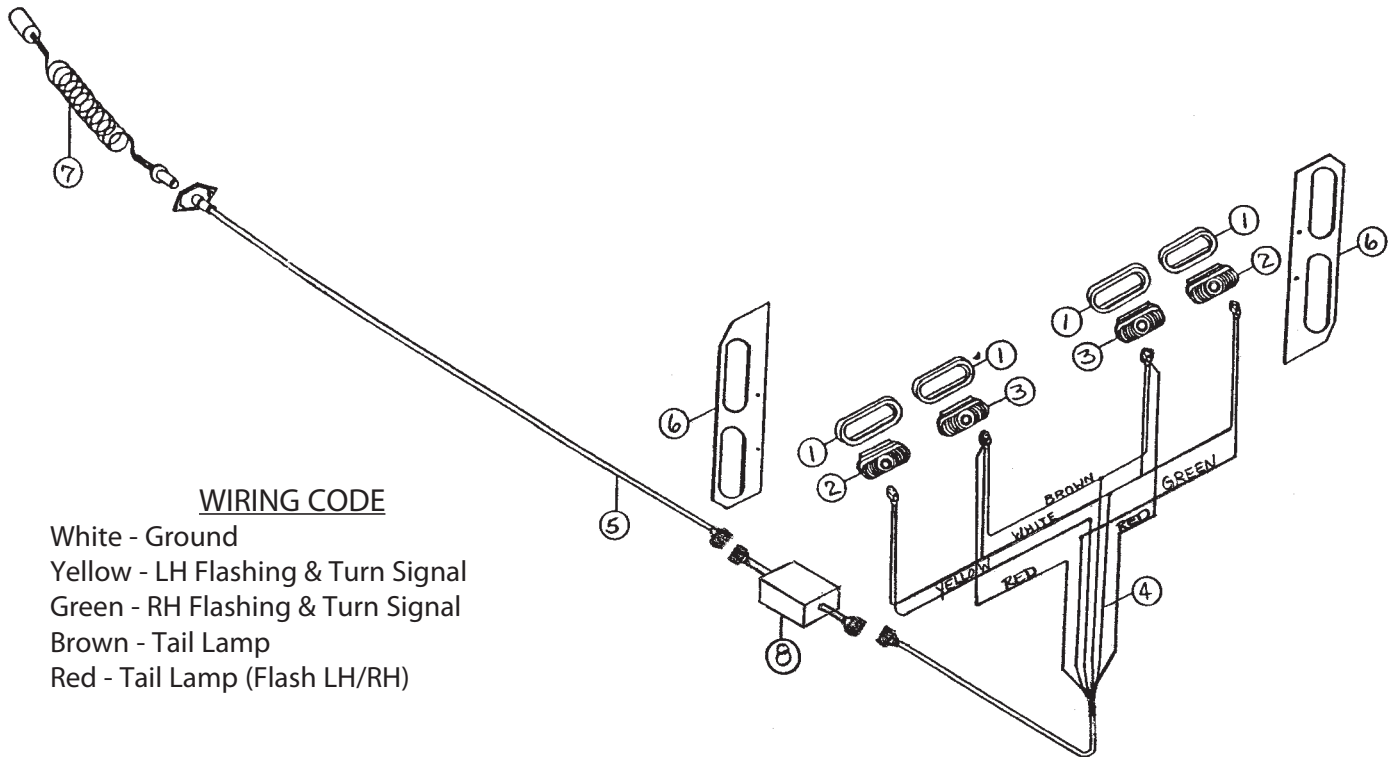
ITEM	PART NO.	DESCRIPTION
1.	GD46	Rod Cap
2.	GD47	Base Cap
3.	GD48	Seal Kit
4.	GD49	Complete Cylinder (2-1/2" x 8")

FIGURE 7 HAND CONTROLLER



ITEM	QTY	PART #	DESCRIPTION
1	1	61564	CAP
2	1	61597	FUSE, BLADE, 5AMP
3	1	16SV235	SWITCH BOOTS
4	1	61598	HAND CONTROLLER (ON-OFF)
5	1	58793	LOCKING WEDGE FOR DT06-2S CONNECTOR
6	2	56760	DEUTSCH SOCKET, SOLID, 14-16 GA.
7	1	58790	DEUTSCH 2 PIN PLUG HOUSING

FIGURE 1 LIGHTING



ITEM	PART NO.	DESCRIPTION
1.	S308	Rubber Light Mount
2.	S309	Amber Light
3.	S310	Red Light
4.	PB232	Light Harness (6-WIRE)
5.	S443	18' Longitudinal Cord (4-WIRE)
	S442	20' Longitudinal Cord (4-WIRE)
*	S439	22' Longitudinal Cord (4-WIRE)
*	S444	24' Longitudinal Cord (4-WIRE)
6.	PB111	Taillight Brackets
7.	S317	Optional Tractor Cord
8.	S441	Light Module
*	PB237	18' Complete Light Assembly Less Optional Tractor Cord
*	PB238	20' Complete Light Assembly Less Optional Tractor Cord
*	PB247	22' Complete Light Assembly Less Optional Tractor Cord
*	PB248	24' Complete Light Assembly Less Optional Tractor Cord

NOTE: * (Means Not Shown)

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