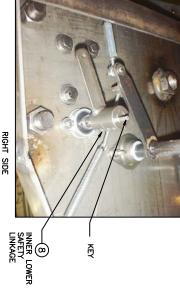


ille:



SLIDE THE 5/8" FLANGE BEARING OVER THE SHAFT OF THE OUTER SAFETY LINKAGE ASSY. ON THE INSIDE OF THE SLING, FASTEN THE BEARING TO THE INSIDE OF THE SLING AS SHOWN USING THE 1/4" BOLTS PROVIDED. USE FLAT WASHERS INSIDE AND OUT. TYPICAL BOTH SIDES OF SLING.



ALIGN

INNER LOWER SAFETY LINKAGE

LEFT SIDE

STEP 3:

SLIDE LOWER SAFETY LINKAGE ASSEMBLY ON THE 5/8" SHAWN SO THAT LOWER LEVER LINES UP WITH THE UPPER LEVER. IF KEY WAY IN SHAFT AND COUPLING DO NOT LINE UP SWITCH LOWER SAFETY LINKAGE ASSEMBLES FROM ONE SIDE TO THE OTHER. INSTALL THE 3/16" SQUARE KEY IN SHAFT/COUPLING KEYWAY. TYPICAL BOTH SIDES.

 OUTER SAFETY LINKAGE ASSY. (INCLUDING KEY) 23430

 5/8" 2 PC NYLON COLLAR

 5/8" RIGID FLANGE MOUNT BEARING
 23430

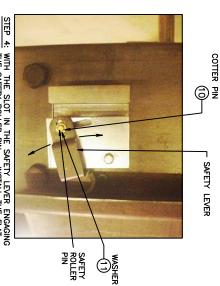
 1/4" HHMB x 1 1/2" LONG
 50030
 4" FLAT WASHER FLAT WASHER FIELD ASSEMBLY and INSTALLATION of SAFETY LINKAGE — SHEET 1 ą S/P SHIPPED

FIELD NOTE:
SQUARE KEYS INCLUDED WITH
SIDE. DO NOT INTERCHANGE. ITEM 2 ARE MATCH FIT PER

NOTE: GUIDE RAILS ARE FOR CLARITY. OMITTED FROM PHOTOS

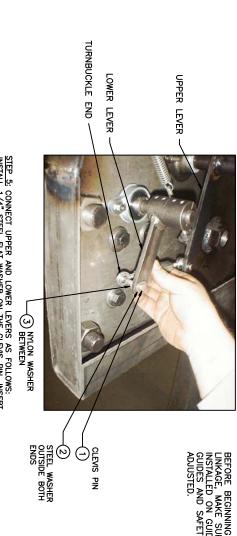
COTTER

SAFETY LEVER



4: WITH THE SLOT IN THE SAFETY LEVER ENGAGING THE SAFETY ROLLER PIN — INSTALL THE FLAT WASHER AND THE COTTER PIN ON THE SAFETY ROLLER PIN AS SHOWN TO RETAIN THE LEVER ON THE PIN. ROTATE THE SAFETY LEVER UP AND DOWN AS SHOWN TO CHECK FOR FREEDOM OF MOVEMENT WITHOUT ANY BINDING. SAFETY LEVER MUST ROTATE FREELY FOR PROPER OPERATION. IF LEVER BINDS OR IS HARD TO ROTATE REPOSITION LEVER IN OR OUT SLIGHTLY TO FREE UP.

E DATE 1	E:X DATE 8.	XXX DATE 5	XFS DATE 3.	ORIG. 2-2-00	wg ק
11-10-03 BY DMB	8-15-00	5-17-00	3-30-00		REVISIONS
BY DMB	BY DMB	BY KK	BY DMB	BY DMB	NS
SCALE NONE	^{QTY:} 1–JOB	TIME STUDY .5	WEIGHT 10#		MLVV-LV
XXXX # 80c	DWG.# SLS.001	BY XXX	DATE XXXX		



BEFORE BEGINNING INSTALLATION OF SAFETY LINKAGE, MAKE SURE THAT CAR FRAME IS INSTALLED ON GUIDE RAILS WITH ROLLER GUIDES AND SAFETIES INSTALLED AND PROPERLY ADJUSTED.

5/16" x 1" LONG SST CLEVIS PIN 1/4" FLAT WASHER (STEEL) 5/16" NYLON FLAT WASHER 1/8" x 1 1/2" LONG SST COTTER PIN

of SAFETY LINKAGE - SHEET 2

NART O.RT ą

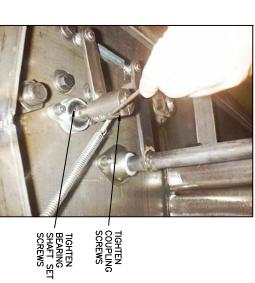
S/P

SHIPPED

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STEP 5: CONNECT UPPER AND LOWER LEVERS AS FOLLOWS:
INSTALL 1/4" STEEL FLAT WASHER ON THE CLEVIS PIN. INSERT
THE CLEVIS PIN THRU THE LOWER LEVER HOLE FROM THE OUTSIDE
PUT 5/16" NYLON WASHER ON CLEVIS PIN SO THAT NYLON WASHER
WILL BE BETWEEN LEVER AND TURNBUCKLE SUD. INSERT CLEVIS
PIN THRU TURNBUCKLE END. INSTALL 1/4" STEEL FLAT WASHER ON
CLEVIS PIN. INSTALL COTTER PIN IN CLEVIS PIN HOLE AND BEND.
TYPICAL BOTH SIDES OF SLING.

TRIM ENDS OF COTTER PINS AS NEEDED SO THAT THEY DO NOT EXTEND PAST WASHER OD.



(ON OUTSIDE) TWO PIECE COLLAR

STEP 7: USING AN ALLEN WRENCH, TIGHTEN THE THE COUPLING SCREWS AND THE BEARING SHAFT SET SCREWS. TYPICAL BOTH SIDES OF SLING.

STEP 6: USING AN ALLEN WRENCH, TIGHTEN THE TWO PIECE COLLAR ON THE 5/8" SHAFT TO RESTRAIN THE SHAFT ASSEMBLY. TYPICAL BOTH SIDES OF SLING.

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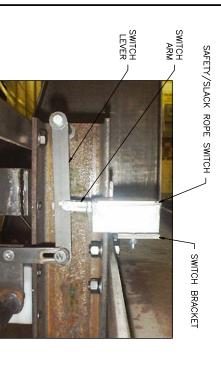
NOTE: GUIDE RAILS FOR CLARITY.

ARE OMITTED FROM PHOTOS



COMPLETED SAFETY LINKAGE INSTALLATION.
CHECK THAT ALL CLEVIS PINS HAVE NYLON WASHERS BETWEEN
CONNECTED COMPONENTS, STELL WASHERS ON BOTH ENDS, AND
COTTER PINS PROPERLY INSTALLED AND BENT OVER TO LOCK
CLEVIS PINS. COMPLETELY TIGHTEN ALL THREADED FASTENERS.
CHECK AND TIGHTEN TURNBUCKLE LOCKING NUTS AGAINST
TURNBUCKLE BODIES IF REQUIRED.

FILE:XXXXFS2.DWG					
DATE	DATE 3-2-05	DATE 8-15-00	DATE 3-30-00	ORIG. 2-4-00	REVISIONS
BY	BY DMB	BY DMB	BY DMB	BY DMB	SNS
SCALE NONE	anv. 1-JOB	STUDY .25	WEIGHT NA		
XXXXXX # BOL	DWG.# SLS.002	DWG XXX	DATE XXX		



SWITCH IS SHOWN HERE IN THE NORMAL OPERATING POSITION (CAR RUNNING). ADJUST SWITCH AND BRACKET LOCATION AS NEEDED SO THAT SWITCH LEVER HOLDS SWITCH ARM AS SHOWN FOR NORMAL OPERATION. SWITCH SHOULD BE WIRED IN SERIES WITH THE SAFETY CIRCUIT USING NORMALLY OPEN (HELD CLOSED) CONTACT. SEE WIRING PRINTS.

THE TWO TENSION SPRINGS WHICH HOLD THE SAFETY LINKAGE IN THE UNSET POSITION ARE CRITICALLY IMPORTANT FOR PROPER OPERATION OF THE SAFETIES. THE FORCE WHICH THESE SPRINGS EXERT IS ADJUSTABLE, BUT EACH ITEM BELOW MUST BE CONSIDERED BEFORE ADJUSTING THE SPRINGS. IF THE SPRINGS DO NOT RETURN THE SAFETY LINKAGE TO THE UNSET POSITION, FIRST CHECK FOR ANY BINDING OR RESTRICTION IN THE OPERATION OF THE SAFETY SYSTEM.

SAFETY LINKAGE ADJUSTMENTS

THE SPRINGS ARE FACTORY SET AT 5 7/16" LONG END TO END FOR SKEWED GOVERNORS LOCATED BETWEEN THE BUFFERS AND AT 5 3/4" LONG FOR GOVERNORS LOCATED BEHIND THE BUFFERS. IF A SPRING IS OVER STRECHED IT MAY NOT ADEQUATELY RESTRAIN THE SAFETY LINKAGE AND THE SAFETYES MAY INADVERTENTLY SET. IF THE SPRING IS STRETCHED TO 6 1/2" OR MORE, PERMANENT DEFORMATION MAY OCCUR. INSPECT A SPRING FOR DEFORMATION BY REMOVING ADJUSTING NUT ON THREADED ROD. THE FREE SPRING LENGTH SHOULD BE 4 1/8" AND NO LIGHT SHOULD SHOW BETWEEN THE COILS.

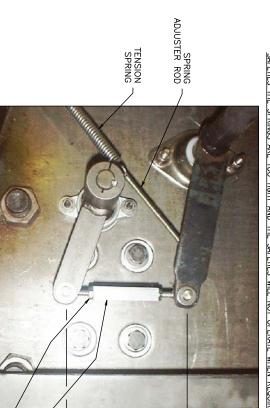
IF THE SAFETIES SET INADVERTENTLY DURING "NORMAL" OPERATION OF THE ELEVATOR:

1/16

- MAKE SURE THAT ALL UP AND DOWN SPEED TRANSITIONS AND STOPS ARE GRADUAL AND NOT ABRUPT. MODERATELY "HARD" STOPS, SLOW DOWNS, AND ACCELERATIONS CAN CAUSE EVEN PROPERLY ADJUSTED SAFETIES TO ACTIVATE WHEN NOT DESIRED. MAKE SURE THAT KNURLED SAFETY ROLLERS IN SAFETY BLOCKS BELOW GUIDES ARE NOT CLOSE TO OR "DRAGGING" ON THE CHART TRAVEL. ACCURACY OF RALL INSTALLATION IS CRITICAL. ADJUST SAFETY BLOCKS IN SLOTS OF SLING FOR PROPER CLEARANCE FER "LOWER SLING AND STILE FIELD INSTALLATION." DRAWING OF THIS PACKAGE. CHECK CAR ROPE SHACKLE ROD ENDS FOR CLEARANCE TO TRIGGER PAIN. IF SHACKLE RODS ARE TOO CLOSE TO PAIN, THEY MAY ACTIVATE SAFETIES IF THE SHACKLES "BOUNCE". SHACKLE ROD ENDS SHOULD BE 1/2" TO 1" FROM TRIGGER PAIN WHEN SAFETIES ARE UNSET.

ADJUST

IF THE TENSION OF THE SPRINGS MUST BE ADJUSTED, MAKE SMALL CHANGES AND EVALUATE PERFORMANCE. DO NOT OVER - TIGHTEN SPRINGS OR THE SAFETIES MAY NOT ACTIVATE WHEN THE COVERNOR ACTIVATES. TRY THREE TURNS OF ADJUSTING NUTS FIRST. AFTER EACH ADJUSTMENT OF SPRING TENSION, VERIFY PROPER OPERATION OF THE SAFETIES BY RUNNING THE CAR DOWN AT INSPECTION SPEED AND HAND TRIPPING THE GOVERNOR. HE THE COVERNOR ROPE PULLS THROUGH OR SUIDES WITHOUT SETTING THE SAFETIES THE SPRINGS ARE TOO TIGHT AND THE SAFETIES WILL NOT OPERATE WHEN REQUIRED TO STOP AN OVERSPEEDING CONDITION.



5 1/16" MAX ! DO NOT EXCEED

SWITCH ARM

SWITCH LEVER

WHEN SAFETIES ACTIVATE DUE TO SLACK ROPE OR GOVERNOR OVERSPEED THE SAFETY LINKAGE PULLS THE SWITCH LEVER DOWN RELEASING THE SWITCH ARM. THIS OPENS THE SAFETY CIRCUIT. THE SAFETY LINKAGE IS DESIGNED TO RELEASE THE SAFETIES UPON UPWARD MOVEMENT OF THE CAR, BUT THE SWITCH MUST BE MANUALLY RESET BY LITTING THE SWITCH LEVER AND RE-ENGAGING THE SWITCH ARM IN THE SWITCH LEVER AND RE-ENGAGING THE SWITCH ARM IN THE SWITCH LEVER AND RE-ENGAGING THE SWITCH ARM IN THE SWITCH

ADJUST EITHER TURNBUCKLE IF REQUIRED TO EQUALIZE THE TWO SAFETIES (FONE SAFETY SETS BEFORE THE OTHERS). IF POSSIBLE, SHORTEN A TURNBUCKLE TO ACHIEVE THE REQUIRED ADJUSTMENT. IF A TURNBUCKLE MUST BE LENGTHEN MAKE SURE THAT MAXIMUM CENTER TO CENTER LENGTH SHOWN HERE IS NOT EXCEEDED. ATTER ADJUSTMENT IS COMPLETE, TIGHTEN THE LOCKING NUTS AGAINST THE TURNBUCKLE BODY.

	NED				
FIL		XXX	_		VG
DATE	DATE	DATE	DATE	ORIG.	
			9-19-02	ORIG. 2-3-00	REVISIONS
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SCALE NONE	QTY. 1-JOB	STUDY NA	WEIGHT NA		
XXXXX # BOL	DWG.# SLS.003	DWG XXX	DATE XXX		

TURNBUCKLE BODY

LOCKING NUT