

PFAFF

3568

Service hand book for control

Safety Instructions

- The machine must only be used for the purpose it was designed for.
- In case of conversion into another version all valid safety instructions have to be considered.
- Do not operate the machine without the safety devices it is equipped with.
- The machine must only be switched on and operated by persons who have been instructed accordingly.
- When exchanging gauge parts (e. g. needle, presser foot, needle plate, feed dog, bobbin), threading the machine or leaving it, and during maintenance work, be sure to disconnect the machine, either by actuating the master switch or by removing the mains plug.
In case mechanically-actuated clutch motors wait for the motor to stand still.
- When carrying out maintenance- or repair work on pneumatic devices, disconnect the machine from the pneumatic supply source. The only exceptions permitted are adjustments and performance checks made by competent personnel.
- Work on electrical equipment of the machine must only be carried out by electricians or other persons who have been instructed accordingly.
- Apart from the permissible deviations according to DIN VDE 0105, work on live parts an equipment is not permitted.

T. Handle allen wrenches

6 mm allen----08-800 303-08
5 mm allen----08-800 303-07
4 mm allen----08-800 303-06
3 mm allen----08-800 303-05
2.5 mm allen--08-800 303-02
2 mm allen----08-800 303-01

List of input functions Pfaff 3568-1/12

BASIC STATE

- 1 - ENTER PROGRAM NUMBER
- 2 - ENTER SOURCE
 - 1 - EPROM
 - 2 - MEMORY
- 3 - ENTER SEWING SPEED
 - 1 - MAX. SPEED
 - 2 - RED. SPEED
- 4 - SET / RESET OF COUNTERS
 - 1 - PIECES
 - 2 - BOBBIN
 - 3 - PRE-SEL.
 - 4 - DELAY ZZ ON
 - 5 - DELAY ZZ OFF
 - 6 - SLOW STARTING STITCHES
- 5 - READ, DELETE, DIR. OF PROGRAMS
 - 1 - DIRECTORY
 - 1 - DIR. (EPROM)
 - 2 - DIR. (MEMORY)
 - 2 - DELETE ONE PROGRAM
 - 3 - DELETE ALL PROGRAMS
 - 4 - READ ONE PROGRAM FROM EPROM
 - 5 - READ ALL PROGRAMS FROM EPROM
 - 6 - READ PROGRAMS FROM SER. INT.
- 6 - TIME ADJUSTMENTS
 - 1 - TIMING FOR AIR BLAST STACKER
 - 2 - TIMING FOR STACKER ROLLER
 - 3 - TIMING F. POSITIONING PIN UP
 - 4 - TIMING AFTER PLATE UP
 - 5 - TIMING F. EDGE FOLDERS BACKW.
 - 6 - TIMING FOR TRANSFER FORWARD
 - 7 - TIMING FOR FOLDER DOWN
 - 8 - TIMING FOR PULLER DOWN
- 7 - SWITCH FUNCTIONS
 - 1 - AIR BLAST SELECTION
 - 1 - N. COOLING, TR. FOR.
 - 2 - N. COOLING, STACKER
 - 3 - FAB. FEED, TR. FORW.
 - 4 - FAB. FEED STACKER
 - 5 - FAB. FEED SEWING
 - 2 - PULLER
 - 3 - POSITIONING PIN
 - 4 - THREAD MONITOR
 - 5 - BOBBIN MONITOR
 - 6 - BOBBIN SENSOR
 - 7 - PROG. CHANGE A-B
 - 8 - PLAIN FABRIC
 - 9 - INTERIM STOP
- 8 - ENTER FIXED PROGRAM NUMBERS
 - 1 - FIXED PROG. A
 - 2 - FIXED PROG. B

General information

In the basic status, all main functions can be indicated together with their function numbers by pressing the "ENTER" key several times. If a valid function number is actuated, the corresponding input function is selected. Main functions may be divided into several part functions, and part functions again into several further part functions. Selection is made simple by the integrated operator guidance system.

The input is concluded by actuation of an operation mode key.

If error messages occur, one of the operation mode keys must be pressed in order to continue work.

In addition to the main functions listed below, there is a monitor function (byte, port) which, however, is only to be used by authorized service personnel!

Function numbers of the main functions:

- 1 - ENTER PROGRAM NUMBER
- 2 - ENTER SOURCE
- 3 - ENTER SEWING SPEED
- 4 - SET / RESET OF COUNTERS
- 5 - READ, DELETE, DIR. OF PROGRAMS
- 6 - TIME ADJUSTMENTS
- 7 - SWITCH FUNCTIONS
- 8 - ENTER FIXED PROGRAM NUMBERS

Main function 1 - ENTER PROGRAM NUMBER

The input of a program number is only possible when the machine is in its basic position. Otherwise an error message is indicated.

The new program number is accepted with "ENTER".

Furthermore it is important to take note that when an EPROM has been changed it is necessary to reselect a program number, even if the same program number is to be used, provided the current EPROM is the program source.

Main function 2 - ENTER SOURCE

It is only possible to input the program source when the machine is in its basic position; if it is not, an error message will be indicated.

Main function 3 - ENTER SEWING SPEED

The maximum sewing speed ("1") and the reduced sewing speed ("2") can be indicated and altered.

The selected sewing speed can be input in speed levels from 1 to 15, whereby each speed level is indicated with the percentage ratio in relation to the maximum possible speed. The setting is accepted with "ENTER" if the value is permissible (otherwise error message).

Furthermore it is important that the sewing speed may be limited by the stitch length or the sewing program.

Main function 4 - SET/RESET OF COUNTERS

Firstly it is possible to turn over the different part functions by pressing "ENTER". The corresponding function numbers in each case are indicated too. When a valid function number is actuated, the chosen part function is selected.

Part function 1 - PIECES (piece counter)

The active value is indicated. The piece counter can be reset by key "0".

Part function 2 - BOBBIN (bobbin thread stitch counter)

(Same as part function 1), the setting is indicated in units of 100 stitches.

Part function 3 - PRE-SEL. (setting of bobbin thread stitch counter)

The active value (units of 100 stitches) is indicated. After that, a new setting can be made and accepted with "ENTER".

Part function 4 - DELAY ZZ ON (delay of zigzag "on")

The active delay value is indicated in stitches. After that, a new setting can be made and accepted with "ENTER".

Part function 5 - DELAY ZZ OFF (delay of zigzag "off")

(Same as part function 4).

Part function 6 - SLOW STARTING STITCHES

The active number of slow starting stitches is indicated. After that, a new setting can be made and accepted with "ENTER".

Main function 5 - READ, DELETE, DIR. OF PROGRAMS

Firstly it is possible to turn over the different part functions by pressing "ENTER". The function numbers to be operated in each case are indicated too. On actuation of a valid function number, the corresponding part function is selected.

Part function 1 - DIRECTORY

It is possible to choose between the directory of the eprom ("1") and the memory ("2"). All existing program numbers are indicated. The list is concluded with "END". If one line is not sufficient to indicate all program numbers, the display can be continued with "ENTER". When all programs and "END" have been displayed, the display returns to the beginning.

Part function 2 - DELETE ONE PROGRAM

Deletion is only permissible in the basic position of the machine, otherwise an error message is indicated.

Firstly, the program number to be deleted is entered. The delete function is carried out with "ENTER" and confirmed afterwards. If the program number is not available an error message is indicated.

Part function 3 - DELETE ALL PROGRAMS

Deleting is only permissible in the basic position of the machine, otherwise an error message is indicated.
The delete function is carried out with "ENTER" and confirmed afterwards.

Part function 4 - READ ONE PROGRAM FROM EPROM

(read single programs from eprom into memory)

Firstly, the program number to be read is input. Reading is begun by pressing "ENTER". If the program to be read is not found in the eprom, if a program with the same number in the memory already exists, or if the storage capacity is not sufficient, this is indicated with a corresponding error message. After correct reading, a confirmation is indicated.

Part function 5 -READ ALL PROGRAMS FROM EPROM

(read all programs from eprom into memory)

Firstly, the part function is indicated. Reading is begun by pressing "ENTER". If no eprom or an empty one is inserted in the reading unit, a program with the same number in the memory already exists or if the storage space is not sufficient, this is indicated with a corresponding error message. Confirmation is indicated after correct reading.

Part function 6 -READ PROGRAMS FROM SER. INT. (read programs into memory via serial Interface)

A corresponding display is made. Then the system waits for data.

The following errors are recognized and indicated:

- program with the same number already in memory exists
- insufficient storage space
- wrong data transmitted
- transmission interrupted
- transmission error

Successful transmission is indicated by a message. Interruption of transmission is possible by actuation of an operation mode key.

Main function 6 - TIME ADJUSTMENTS

Firstly it is possible to scroll through the different part functions by pressing "ENTER". The function numbers to be operated in each case are indicated too. By actuation of a valid function number, the corresponding part function is selected.

The following times can be adjusted:

- part function 1 - TIMING FOR AIR BLAST STACKER
- part function 2 - TIMING FOR STACKER ROLLER
- part function 3 - TIME F. POSITIONING PIN UP
- part function 4 - TIMING AFTER PLATE UP
- part function 5 - TIMING F. EDGE FOLDERS BACKW.
- part function 6 - TIMING FOR TRANSFER FORWARD
- part function 7 - TIMING F. COVER OF ST. ROLLER
(time for stacker roller cover)
- part function 7 - TIMING FOR FOLDER DOWN
(only for 3568-1/12; -2/12)
- part function 8 - TIMING FOR PULLER DOWN

The input time is accepted with "ENTER".

Important: If the time for stacker roller cover is set longer than the time for stacker roller, the stacker roller cover will not be triggered.

Main function 7 - SWITCH FUNCTIONS

Firstly it is possible to scroll through the different part functions by pressing "ENTER". The function number to be operated in each case is indicated too. By actuation of a valid function number the corresponding part function is selected.

Part function 1 - AIR BLAST SELECTION

By pressing "ENTER" the different part functions of airblast selection can be scrolled through. If a part function is selected by its function number, the corresponding air blast can be enabled by "1" or disabled by "0".

The following part functions are possible:

- part function 1 - N. COOLING, TR. FOR. (air blast, needle cooling on during feed forward)
- part function 2 - N. COOLING, STACKER (air blast, needle cooling on during stacking)
- part function 3 - FAB. FEED, TR. FORW. (air blast, auxiliary fabric feed on during feed forward)
- part function 4 - FAB. FEED STACKER (air blast, auxiliary fabric feed on during stacking)
- part function 5 - FAB. FEED SEWING (air blast, auxiliary fabric feed on during sewing)

Part function 2 - PULLER

The puller function can be enabled ("1") or disabled ("0").

Part function 3 - POSITIONING PIN

It is possible to choose between edge folder with positioning pins ("1") and edge folder without positioning pins ("0").

Part function 4 - THREAD MONITOR

The needle thread monitor can be enabled ("1") or disabled ("0").

Part function 5 - BOBBIN MONITOR

The bobbin thread monitor can be enabled ("1") or disabled ("0").

Part function 6 - BOBBIN SENSOR

The bobbin thread sensor can be enabled ("1") or disabled ("0"). If the bobbin thread monitor and the bobbin thread sensor are enabled, the bobbin thread is monitored by the sensor. If the bobbin thread monitor is enabled and the bobbin thread sensor is disabled, the bobbin thread is monitored by stitch counting.

Part function 7 - PROG. CHANGE A - B

Automatic program change can be enabled ("1") or disabled ("0").

Part function 8 - PLAIN FABRIC (changed start of folder unit
for plain fabric)

The folder unit is started with the dual starting buttons.
The function of the foot switch is inactive.
This changed start can be enabled ("1") or disabled ("0").

Part function 9 - INTERIM STOP

The interim stop can be switched on ("1") or off ("0").

Part function 0 - FURTHER FUNCTIONS

Press "ENTER" to access and scroll through further part functions
with their function numbers.

After selecting a part function with its function number you can
select the required function with "1" or de-select with "0".

The following part functions are possible:

- Part function 1 - AUTO HEAD LIFT
- Part function 2 - LABEL FEEDER
- Part function 3 - ALTERN. LABEL SEWING

Main function 8 - ENTER FIXED PROGRAM NUMBERS

Firstly it is possible to scroll through the different part functions by
pressing "ENTER". The function numbers to be operated in each
case are indicated too. By actuation of a valid function number, the
corresponding part function is selected.

- Part function 1 - FIXED PROG. A
- Part function 2 - FIXED PROG. B

A program number may be given to the program station selected.

Service - brief description

To make a master reset on the Quick Synchro motor, press and hold all 4 switches on the Quicik controller and turn on the machine.

All parameters are set to the correct value as follow

Parameter

116 = 0000	705 = 0125
117 = 0400	706 = 0125
521 = II	718 = 0003
601 = I	722 = 0030
603 = I	723 = 0018
605 = II	733 = English
606 = 0180	800 = I
607 = 4100	884 = 0010
608 = 0030	
609 = 0180	
610 = 0180	
700 = 0	
701 = I	
702 = 0075	

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General information

In the basic status all different functions with their function numbers can be indicated by pressing the "ENTER" key. If a valid function number is actuated, the corresponding service - function is selected.

Service is exited by pressing an operation mode key.

Function numbers:

- 1 - SET / RESET OF OUTPUTS
- 2 - STEPPING MOTOR (X AXIS)
- 3 - STEPPING MOTOR (Y AXIS)
- 4 - SEWING MOTOR
- 5 - THREAD TRIMMING SEQUENCE
- 6 - DISPLAY OF INPUTS

1 - SET / RESET OF OUTPUTS

Outputs can be set or reset. Both interlocks and the are checked.

The output to be controlled verifications is characterized by a three-digit index. The highest digit determines whether the output is to be set or reset
(* = 1 for set, * = 0 for reset).

In the following list, the names of the outputs refer to set outputs in each case.

2 - STEPPING MOTOR (X - AXIS)

Indexes

Output	Name	Index	Output	Name	Index
Y1	Presser foot down	*08		OUT 7 On	*48
Y2	Trimming (900) on	*09		OUT 8 On	*49
Y3	Air blast needle cooling on	*10			
			Y20.1	Pocket plate back	*12
Y5	Thread puller function	*04	Y20.2	Pocket plate forward	*11
Y10	OUT 1 (zig-zag) on	*42	Y21.1	Pocket holder up	*14
Y11	OUT 2 (Thread tension ampl.) on	*43	Y21.2	Pocket holder down	*13
	OUT 3 On	*44	K22	Retaining solenoid edge folder on	*15
	OUT 4 On	*45	Y23.1	Edge folder and plate up	*17
	OUT 5 On	*46	Y23.2	Edge folder and plate down	*16
	OUT 6 On	*47	24.1	Edge folders back	*19

Output	Name	Index	Output	Name	Index
24.2	Edge folders forward	*18	Y40	Suction, fabric feed roller, on	*32
Y25	Positioning pins up	*20	Y41	Puller down	*33
Y26.1	Template down	*22	Y42	Stacker forward	*34
Y26.2	Template up	*21	Y43	Air blast, stacker, on	*35
Y27.1	Feed forward (to sewing pos.)	*48	K44	Fabric feed roller on	*36
Y27.2	Feed back (to edge folding pos.)	*49	Y45	Air blast, auxiliary fabric feed, on	*06
Y28.1	Locating pin sewing on	*01	K60	Main contactor on	*37
Y28.2	Locating pin feed on	*02	Y70	Label clamp pressure	*52
Y29.1	Edge folders forward	*03	H101	Start lamp on	*38
Y29.2	Edge folders backward	*07	H102	Stop lamp on	*39
Y31	Pocket plate up	*05	H103	Manual lamp on	*24

Output	Name	Index	
H104	Automatic mechanism lamp on	*25	
H105	Power-on lamp on	*26	
H106	Error reset lamp on	*27	
SGRD	Carriage in bas. pos. (only report)	*28	

3 - STEPPING MOTOR (X - AXIS)

The stepping motor of the X-axis is moved in the positive direction by pressing the "forward" key, in the negative direction by pressing the "backward" key. The interlocks are respected. If the thread is not cut, it can be cut by pressing the "needle position" key. If the needle is not in position 2, it can be positioned by pressing the same key too.

Remark: The passage of the needle has to be free, because thread trimming and positioning need one rotation of the sewing machine. (Needle over sewing slot)!

3 - STEPPING MOTOR (Y - AXIS)

Same function as (2), but for the stepping motor of the Y-axis.

4 - SEWING MOTOR

The sewing motor can be switched on with a pre-selected speed at the "start" key. The "stop" key stops the motion and the sewing machine positions with the needle "up". Renewed selection of speed and start of machine is possible. During the motion, the presser foot is switched down and the measured actual speed is displayed.

Remark: The passage of the needle must be free
(Needle over sewing slot)!

5 - THREAD TRIMMING SEQUENCE

By pressing the "start" key a thread trimming sequence is carried out.

Remark: Passage of the needle must be free
(Needle over the sewing slot)!

6 - DISPLAY OF INPUTS

24 inputs are illustrated at the same time on the display. Enabled inputs (LED on) are represented by "1", disabled ones by "0". Terminals, which are not used for inputs, are marked with "*". The display is arranged in 3 groups of 8 inputs, beginning with terminal no. 1 at the left side. The status is displayed continuously, i.e. a change of status is shown at once.

When the function is called up, the inputs of M-OX (A21) are indicated firstly. By pressing the "ENTER" key another pinboard can be selected. M-OX (A21) is followed by M-IN (A25), M-OE (A26) and M-OE (A27). Then the sequence starts from the beginning again, i.e. with display of M-OX (A21).

If a label station is fitted:
A21/5 = "1", after M-OE (A27), M-OX (A24) is indicated
It is not until then that sequence M-OX (A21) can start again.

List of interlocks

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General information

Label "1" on LED means LED is lighted, "0" means LED is not lighted.

ERROR LIST IN MODE:		AUT, MAN, SER		
DISPLAY	INTERLOCK	OUTPUT	VERIFICATION	REMARKS
	LED SIGNAL	LED	LED	
Y1 S PRESS.FOOT DOWN NOT READY		A22/1 I	A26/1 0	
Y1 R PRESSER FOOT UP NOT READY		A22/1 0	A26/1 I	
Y2 S THREAD TRIMMING LOCKED	A25/14 I POS.2 A25/13 0 MOT.DR			
Y2 S THREAD TRIMMING NOT READY		A22/2 I	A26/2 I	
Y20.1 POCKET PLATE BACK LOCKED	A26/8 I S23.1 A22/4 0 Y20.2			FOLDER WITHOUT POS.PINS
Y20.1 POCKET PLATE BACK N.READY		A22/5 I	A26/5 I A26/4 0	
Y20.2 POCKET PLATE FORW. LOCKED	A26/8 I S23.1 A22/5 0 Y20.1 A26/14 0 B27.1			FOLDER WITHOUT POS.PINS ONLY WITH LOCATING PIN, FEED, ON
Y20.2 POCKET PLATE FORW. N. READY		A22/4 I	A26/4 I	

DISPLAY	INTERLOCK	OUTPUT	VERIFICATION	REMARKS
				LED SIGNAL LED LED
Y21.1 POCKET HOLDER UP LOCKED	A26/10 I S24.1 A22/6 0 Y21.2			
Y21.1 POCKET HOLDER UP NOT READY		A22/7 I	A26/6 I	
Y21.2 POCKET HOLDER DOWN LOCKED	A22/7 0 Y21.1 A26/10 I S24.1 A26/14 0 B27.1			ONLY WITH LOCATING PINS, FEED, ON
Y21.2 POCKET HOLDER DOWN N.READY		A22/6 I	A26/6 0	
Y23.1 FOLDER UP LOCKED	A22/9 0 Y23.2			FOLDER WITHOUT POS.PINS
Y23.1 FOLDER UP NOT READY		A22/10 I	A26/8 I A26/18 I	
Y23.2 FOLDER/PLATE DOWN LOCKED	A26/14 0 B27.1 A22/10 0 Y23.1 A24/2 I ETRDY			FOLDER WITHOUT POS.PINS (if A21/5 I ET)
Y23.2 FOLDER/PLATE DOWN N.READY		A22/9 I	A26/7 I A26/18 0	

ERROR LIST IN MODE:

AUT, MAN, SER

DISPLAY	INTERLOCK	OUTPUT	VERIFICATION	REMARKS
				LED SIGNAL LED LED
Y24.1 EDGE FOLDERS BACK LOCKED	A22/11 0 Y24.2			
Y24.2 EDGE FOLDERS FORW. LOCKED	A22/12 0 Y24.1			
Y24.2 EDGE FOLDERS FORW. N.READY		A22/11 I	A26/18 I	FOLDER WITHOUT POS.PINS
Y25 S POSITIONING PIN UP LOCKED	A26/14 0 B27.1			ONLY WITH LOCATING PINS, FEED, ON
Y26.1 TEMPLATE DOWN LOCKED	A26/14 I B27.1 OR A26/13 0 B27.2 A22/14 0 Y26.2 A27/4 I S50.1	Check when the transfer is in the back position	A26/14 0 A26/13 1	Check when the transfer is in the forward position
Y26.1 TEMPLATE DOWN NOT READY		A22/15 I A26/11 0	A26/12 I	
Y26.2 TEMPLATE UP LOCKED	A25/14 I POS.2 A25/13 0 MOT.DR. A26/16 0 B28.4 A26/3 I B28.5 A26/24 I B28.8 A26/17 I S28.2 A27/2 I S41.1 A23/21 I SGRD A22/15 0 Y26.1			
Y26.2 TEMPLATE UP NOT READY		A22/14 I	A26/11 I A26/12 0	

ERROR LIST IN MODE:

AUT, MAN, SER

DISPLAY	INTERLOCK		OUTPUT LED	VERIFICATION LED	REMARKS
	LED	SIGNAL			
Y27.1 FEED FORWARD LOCKED	A26/1 I S1 A26/4 O S20.2 A26/13 I B27.2 A26/8 I S23.1 A27/2 I S41.1 A27/3 O S42 A23/21 I SGRO				LOCATING PIN, FEED, ON SICHDI = 1
Y27.1 FEED FORWARD NOT READY		A23/22 I A23/23 O	A26/14 O A26/13 I		
Y27.2 FEED BACKWARD LOCKED	A26/11 I S26.2 A26/12 O S26.1 A26/8 I S23.1 A27/2 I S41.1 A27/13 I S98 A27/14 I S99				LOCATING PINS, FEED, ON ONLY BEFORE START SICHDI = 1
Y27.2 TRANSFER BACKWARD N. READY		A23/22 I A23/23 I	A26/13 O A26/14 I		
Y28.1 LOCATING PINS, SEW., LOCKED	A26/14 O B27.1 A26/12 I S26.1 A26/11 O S26.2 A23/21 I SGRO A22/18 O Y28.2				
Y28.1 LOCATING PINS, SEW., N. READY		A22/18 I	A26/15 I A26/24 O A26/3 O A28/16 I		
Y28.2 LOCATING PINS, FD., LOCKED	A26/14 O B27.1 A26/12 I S26.1 A26/11 O S26.2 A23/21 I SGRO A22/18 O Y28.1				

ERROR LIST IN MODE:		AUT, MAN, SER		
DISPLAY	INTERLOCK	OUTPUT	VERIFICATION	REMARKS
	LED SIGNAL	LED	LED	
Y28.2 LOCATING PINS, FD, N. READY		A22/19 I	A26/16 0 A26/17 1 A26/3 1 A26/24 1	
Y29.1 FOLDER FORWARD LOCKED	A26/8 I S23.1 A22/24 0 Y29.2			ONLY WHEN FOLDER BACK
Y29.1 FOLDER FORWARD NOT READY		A22/20 I	A27/23 I	
Y29.2 FOLDER BACKWARD LOCKED	A26/8 I S23.1 A22/20 0 Y29.1			
Y29.2 FOLDER BACKWARD N. READY		A22/24 I	A27/24 I	
Y41 S PULLER DOWN LOCKED	A26/14 0 B27.1			
Y41 S PULLER DOWN NOT READY		A23/10 I	A27/1 I	
Y41 R PULLER UP NOT READY		A23/10 0	A27/2 I	
Y42 S STACKER FORWARD NOT READY		A23/11 I	A27/3 I	
Y42 R STACKER BACKWARD NOT READY		A23/11 0	A27/3 0	
K60 S MAIN CONTACTOR NOT READY		A23/14 I	A27/11 0	

ERROR LIST IN MODE:

AUT, MAN, SER

DISPLAY	REMARKS
*ERR: POWER SUPPLY, 12V, EXT. A27/16 = 1	
*ERR: NO COMPRESSED AIR A27/12 = 1	
*ERR: STEPPING MOTOR DRIVE A27/22 should be on(1) this is the voltage monitor for the stepper drive. Check the fuse on each off d650 units inside the stepper drive.	
*ERR: NEEDLE DOES NOT GET TO POS Check the sewing motor control panel. Check T1 transformer for the correct voltage output.	
*ERR: -900 NOT IN BAS.-POSITION A26/2 should be on(1). If B2 sensor is uncovered the input is on (1) and covered the input is off (0).	
*ERR: SEWING MOTOR DOES NOT STOP Check synchronizer.	
*ERR: NO START OF CARRIAGE (NIS) A21/13 is the input controlled by B50.1 sensor. If the sensor is covered the input should be on (1) or uncovered the input should be off (0).	

ERROR LIST IN MODE:		AUT. MAN			
DISPLAY	INTERLOCK		OUTPUT	VERIFICATION	REMARKS
	LED	SIGNAL	LED	LED	
*ERR: CAR. MOVEMENT LOCKED / BAS	A25/14 A25/13 0 A26/15 A26/24 0 A26/3 0 A26/16 A26/12 A26/11 0 A27/2 A27/6 A27/7 A27/8 A27/10	POS.2 MOT.DR S28.1 B28.3 B28.5 B28.4 S26.1 S26.2 S41.1 B51.2 B51.3 B52.2 B52.3			
*ERR: BAS MOVEMENT LOCKED / BAS	A25/14 A25/13 0 A26/1 A27/6 A27/8 A27/10 UND,AND, ET, Y A26/15 A26/24 0 A26/3 0 A26/16 ODER,OR A26/16 0 A26/3 A26/24 A26/17	POS.2 MOT.DR S1 B51.2 B52.2 B52.3 UND,AND, ET, Y S28.1 B28.3 B28.5 B28.4 B28.4 B28.5 B28.3 S28.2			LOCATING PIN TO SEWING LOCATING PIN, FEED, ON
*ERR: FWD/BACK LOCKED / BAS	A26/15 A26/24 0 A26/3 0 A26/16 A26/12 A26/11 0 A27/2 A27/6 A27/7 A27/9 A27/10	S28.1 B28.3 B28.5 B28.4 S26.1 S26.2 S41.1 B51.2 B51.3 B52.2 B52.3			
*ERR: SEWING LOCKED / BAS	A26/15 A26/24 0 A26/3 0 A26/16 A26/12 A26/11 0 A27/2 A27/6 A27/7 A27/9 A27/10	S28.1 B28.3 B28.5 B28.4 S26.1 S26.2 S41.1 B51.2 B51.3 B52.2 B52.3			

ERROR LIST IN MODE:	AUT. MAN	
DISPLAY		REMARKS
*ERR: BATTERY EMPTY	Check the memory battery on the A3 board	
POWER OFF / EMERGENCY STOP		
STEPPING MOTORS NOT IN POSITION	Check all slotted sensors under the cover for the stepper motors	
THREAD ERROR		
THREAD ERROR / CHANGE BOBBIN		
*ERR: THREAD NOT CUT	Operator switch # 132, if no response check motor control panel	
*ERR: NEEDLE NOT IN UPPER POS.	Operate needle positioning switch (#132) Check motor control panel, check T1 transformer,	
SAFETY GUARD		
COVER OF CARRIAGE OPEN !		
CHANGE BOBBIN		
*ERR: LIMIT SWITCH OF CAR. / BAS	Check all slotted sensors under the cover for the stepper motors	
*ERR: WRONG SEWING DATA / BAS	Remove and re-insert the E-Prom	
*ERR: CAR NOT IN BAS.-POS. / BAS	Check all slotted sensors under the cover for the stepper motors	
*ERR: CAR. MOVE. NOT READY / BAS	Check all slotted sensors under the cover for the stepper motors	

DISPLAY	REMARKS
*ERR: THREAD TRIM. NOT READY/BAS	Check the synchronizer setting.
*ERR: NEEDLE NOT IN UP.POS / BAS	Check motor control panel Check T1 transformer for correct voltage output.
*ERR: RAMP NOT FINISHED / BAS	Check B50.1 sensor setting, Check the voltage supplied the machine, Check machine RPM for 4020, Replace A 5 board, Check X 6 plug on the A 5 board
*ERR: WRONG POS. AT END OF PROG.	Check the flag setting on the handwheel
*ERR: NO SUCH PROGRAM	
*ERR: SEWING MOTOR TOO FAST	Check the machine making sure it is running 4020 RPM. Make a master reset. Check the V belt, Oil on V Belt, and Pulley.

ERROR LIST IN MODE:		SER		
DISPLAY	INTERLOCK	OUTPUT	VERIFICATION	REMARKS
	LED SIGNAL	LED	LED	
*ERR: CARRIAGE MOVEMENT LOCKED	A25/14 I POS.2 A25/13 0 MOT.DR. A26/1 I S1			

ERROR LIST IN MODE:		SER	
DISPLAY		VERIFICATION	REMARKS
		LED	
*ERR: THREAD TRIMMING NOT READY			

ERROR LIST IN MODE:		INP
DISPLAY	REMARKS	
*ERR: MACHINE IS NOT IN BAS-POS.	Turn the machine off and on again, Check the transfer forward position	
*ERR: PROG. CHANGE A-B SELECTED		
*ERR: WRONG INPUT		
*ERR: NO SUCH PROGRAM (NO.)		
*ERR: EXISTING PROGRAM (NO.)		
*ERR: LIMITED SPACE IN MEMORY		
*ERR: EMPTY OR WRONG EPROM		
*ERR: TRANSMISSION (WRONG DATA)		
*ERR: TRANSMISSION (MALFUNCTION)		

ERROR LIST IN MODE:		INP, AUT, MAN, SER
DISPLAY	REMARKS	
PF - SWITCH OFF MACHINE SHORTLY!	SWITCH POWER SUPPLY OFF AND ON AGAIN	

3568-12/12 list of interlocks (only for machines without pos. pins.)

DISPLAY	INTERLOCKS LED SIGNAL	OUTPUT [E]	VERIFY [E]	REMARKS
Y1 S Presser foot down not ready		A22/1 1	A26/1 0	
Y1 R Presser foot up not ready		A22/1 0	A26/1 1	
Y2 S Thread trimming locked	A25/14 1 Pos. 2 A25/13 0 Mot. Dr.			
Y2 S Thread trimming not ready		A22/2 1	A26/2 1	
Y20.1 Pocket plate back locked	A26/8 1 S23.1 A22/4 0 Y20.2			Folder without pos. pins.
Y20.1 Pocket plate back not ready		A22/5 1	A26/5 1 A26/4 0	
Y20.2 Pocket plate forward locked	A26/8 1 S23.1 A22/5 0 Y20.1 A26/14 0 B27.1			Folder without pos. pins. Only when locating pins sewing is on.
Y20.2 Pocket plate forward not ready		A22/4 1	A26/4 1	
Y21.1 Pocket holder up locked	A26/10 1 S24.1 A22/6 0 Y21.2			
Y21.1 Pocket holder up not ready		A22/7 1	A26/6 1	
Y21.2 Pocket holder down locked	A22/7 0 Y21.1 A26/10 1 S24.1 A26/14 0 B27.1			Only when locating pins sewing is on
Y21.2 Pocket holder down not ready		A22/6 1	A26/6 0	
Y23.1 Folder up locked	A22/9 0 Y23.2			Folder without pos. pins
Y23.1 Folder up not ready		A22/10 1	A26/8 1 A26/18 1	
Y23.2 Folder/plate down locked	A26/14 0 B27.1 A22/10 0 Y23.1 A24/2 1 ETRDY			Folder without pos. pins. if A25/15 1 (label feeder)
Y23.2 Folder/plate down not ready		A22/9 1	A26/7 1 A26/18 0	
Y24.1 Edge folders back locked	A22/11 0 Y24.2			

DISPLAY	INTERLOCKS LED SIGNAL	OUTPUT [I]	VERIFY [I]	REMARKS
Y24.2 Edge folders forward locked	A22/12 0 Y24.1			
Y24.2 Edge folders forward not ready		A22/11 1	A26/18 1	Folder without pos. pins
Y26.1 Template down locked	A26/14 1 B27.1 A26/13 0 B27.2 A22/14 0 Y26.2			Check these inputs if the transfer is in the backward position
Y 26.1 Template down locked	OR A26/14 0 B27.1 A26/13 1 B27.2 A22/14 0 Y26.2			Check these inputs if the transfer is in the forward position
Y26.1 Template down not ready		A22/15 1 A26/11 0	A26/12 1	
Y26.2 Template up locked	A25/14 1 Pos. 2 A25/13 0 Mot. Dr. A26/16 0 B28.4 A26/3 1 B285 A26/24 1 B28.3 A26/17 1 S28.2 A27/2 1 S41.1 A23/21 1 SG RD A22/15 0 Y26.1			
Y26.2 Template up not ready		A22/14 1	A26/11 1 A26/12 0	
Y27.1 Feed forward locked	A26/13 0 B27.2 A26/1 1 S1 A26/4 0 S20.2 A26/8 1 S23.1 A27/2 1 S41.1 A27/3 0 S42 A23/21 1 SG RD A27/13 1 S98 A27/14 1 S99			Locating pins locked in for transfer
Y 27.1 Feed forward not ready		A23/22 1 A23/23 0	A26/14 0 A26/13 1 A26/20 0	

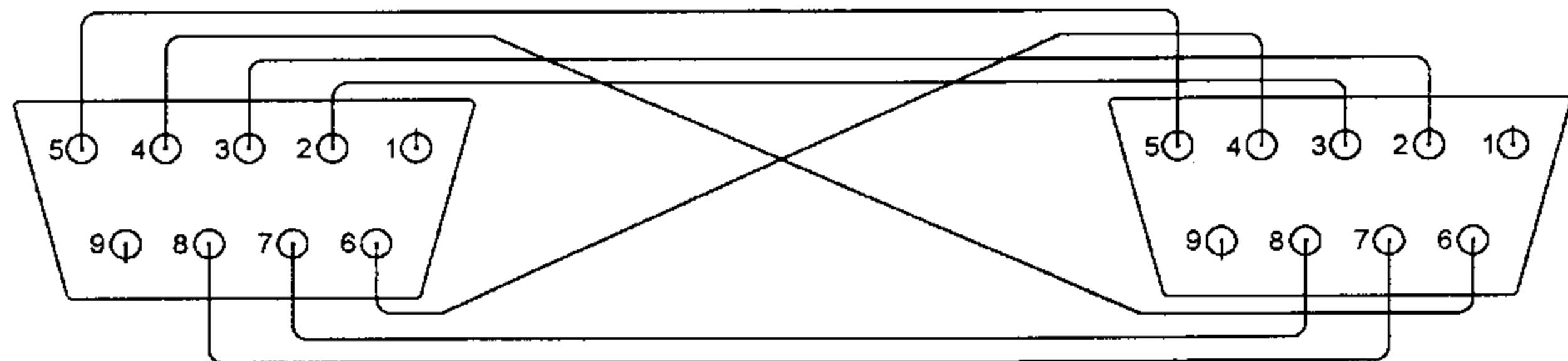
DISPLAY	INTERLOCKS LED SIGNAL	OUTPUT [E]	VERIFY [E]	REMARKS
Y 27.2 Feed backward locked	A26/11 1 S26.2 A26/12 0 S26.1 A26/8 1 S23.1 A27/2 1 S41.1 A27/13 1 S98 A27/14 1 S99			Locating pins locked in for transfer Only before start
Y 27.2 Feed backward not ready		A23/22 1 A23/23 1	A26/13 0 A26/14 1	
Y 28.1 Locating pins sewing locked	A26/14 0 B27.1 A26/12 1 S26.1 A26/11 0 S26.2 A23/21 1 SGRD A22/19 0 Y28.2			
Y 28.1 Locating pins sewing not ready		A22/18 1	A26/15 1 A26/24 0 A26/3 0 A26/16 1	
Y 28.2 Locating pins feed locked	A26/14 0 B27.1 A26/12 1 S26.1 A26/11 0 S26.2 A23/21 1 SGRD A22/18 0 Y28.1			
Y 28.2 Locating pins feed not ready		A22/19 1	A26/16 0 A26/17 1 A26/3 1 A26/24 1	
Y 29.1 Folder forward locked	A26/8 1 S23.1 A22/24 0 Y29.2			Only when folder is back
Y 29.1 Folder forward not ready		A22/20 1	A27/23 1	
Y 29.2 Folder backward locked	A28/8 1 S23.1 A22/20 0 Y29.1			
Y 29.2 Folder backward not ready		A22/24 1	A27/24 1	

DISPLAY	INTERLOCKS LED SIGNAL	OUTPUT []	VERIFY []	REMARKS
Y 41 S Puller down locked	A26/14 0 B27.1			
Y 41 S Puller down not ready		A23/10 1	A27/1 1	
Y 41 R Puller up not ready		A23/10 0	A27/2 1	
Y 42 S Stacker forward not ready		A23/11 1	A27/3 1	
Y 42 R Stacker backward not ready		A23/11 0	A27/3 0	
K 60 S Main Contactor not ready		A23/14 1	A27/11 0	
ERR: Power supply, 12 V ext.	A27/16 1			
ERR: No compressed air	A27/12 1			
ERR: Stepping motor drive	A27/22 1			Check fuse on the D 650 Printed circuit board inside the stepper motor drives.
ERR: Needle does not get to pos.				Check motor panel, Check (T1) Transformer
ERR: 900 not in Bas. Position	A26/2 1 B2			
ERR: Sewing motor does not stop				Check synchronizer
ERR: No start of carriage (NIS)	A21/13 on/off			If B50.1 sensor is covered, A21/13 should be on. (1) If B50.1 sensor is uncovered, A21/13 should be off. (0)

DISPLAY	INTERLOCKS LED SIGNAL	OUTPUT [TEI]	VERIFY [TEI]	REMARKS
ERR: Car. Movement locked / bas	A25/14 1 POS.2 A25/13 0 Mot.Dr. A26/15 1 S28.1 A26/24 0 B28.3 A26/3 0 B28.5 A26/16 1 B28.4 A26/12 1 S26.1 A26/11 0 S26.2 A27/2 1 S41.1 A27/6 1 B51.2 A27/7 1 B51.3 A27/9 1 B52.2 A27/10 1 B52.3			
ERR: Bas movement locked / bas	A25/14 1 POS.2 A25/13 0 Mot.Dr. A26/1 1 S1 A27/6 1 B51.2 A27/9 1 B52.2 A27/10 1 B52.3 AND A26/15 1 S28.1 A26/24 0 B28.3 A26/3 0 B28.5 A26/16 1 B28.4 OR A26/16 0 B28.4 A26/3 1 B28.5 A26/24 1 B28.3 A26/17 1 S28.2			
ERR: Fwd /Back locked / bas	A26/15 1 S28.1 A26/24 0 B28.3 A26/3 0 B28.5 A26/16 1 B28.4 A26/12 1 S26.1 A26/11 0 S26.2 A27/2 1 S41.1 A27/6 1 B51.2 A27/7 1 B51.3 A27/9 1 B52.2 A27/10 1 B52.3			

DISPLAY	INTERLOCKS LED SIGNAL	OUTPUT [E]	VERIFY [E]	REMARKS
ERR: Sewing locked /Bas	A26/15 1 S28.1 A26/24 0 B28.3 A26/3 0 B28.5 A26/16 1 B28.4 A26/12 1 S26.1 A26/11 0 S26.2 A27/2 1 S41.1 A27/6 1 B51.2 A27/7 1 B51.3 A27/9 1 B52.2 A27/10 1 B52.3			
ERR: Battery Empty				Check battery on A3 board
Power off / Emergency stop				
Stepping motors not in position				Check all slotted sensors under the stepper drive cover.
Thread Error				
Thread Error / Change Bobbin				
ERR: Thread not cut				Operate switch # 132 (trim switch) If no response check motor panel; Check T1 transformer
ERR: Needle not in upper pos.				Operate switch # 132 (trim switch) If no response check motor panel; Check T1 transformer
Safety Guard				
Cover of Carriage Open				
Change Bobbin				
ERR: Limit switch of car. / bas				Check all slotted sensors under the stepper cover
ERR: Wrong sewing data / bas				Remove and re-insert the E-Prom
ERR: Car not in bas pos. / bas				Check all slotted sensors under the stepper cover
ERR: Car move. Not ready / bas				Check all slotted sensors under the stepper cover
ERR: Thread trim not ready / bas				See Note A on next page.
ERR: Needle not in upper pos. / bas				Check motor panel, Check T1 transformer.
ERR: Ramp not finished / bas				Check B50.1 sensor at the handwheel Check voltage to machine. Should be between 200 and 240 volts Check RPM for 4050 at 100% Check X6 plug on A5, Replace A5 P.C. board

DISPLAY	INTERLOCKS LED SIGNAL	OUTPUT [LED]	VERIFY [LED]	REMARKS			
ERR: Wrong pos. at end of prog.		Check flag setting					
ERR: No such program							
ERR: Sewing motor too fast		Check machine RPM for 4050. Check synchronizer Make a master reset of the sewing motor Check belts, pulleys, for oil on belt.					
ERR: Carriage movement locked	A25/14 1 Pos. 2 A25/13 0 Mot. Dr. A26/1 1 S1						
ERR: Thread trim not ready		Check B2 sensor on the undertrimmer					
ERR: Machine is not in bas pos.		Turn the machine off and on again Check transfer forward position make sure sensor is covered					
ERR: prog. Change A-B selected							
ERR: Wrong input							
ERR: No such program							
ERR: Existing program							
ERR: Limited space in memory							
ERR: Empty or wrong EPROM							
ERR: Transmission (wrong data)							
ERR: Transmission (malfunction)							
PF- Switch off machine shortly		Switch power supply off and on again					
General information							
LED on the A60 is (on) when the transfer is forward or backward							
LED on the A60 is (off) when the transfer is moving							
LED at the A23/22 and A23/23 position is (on) when the transfer is moving to the back position.							
LED at the A23/23 and A23/24 position is (on) when the transfer is at the back position.							
LED at the A23/22 position is (on) when the transfer is moving to the forward position.							
LED at the A23/24 is (on) when the transfer is at the forward position							
Note: A This problem is caused by the B2 sensor getting uncovered before the synchronizer tells the machine to stop at the finish position of the take up. To correct this problem, (1) Check the setting of the synchronizer. (2) Check the timing of the trimmer cam. (3) Check the flat spring mounted on the trimmer housing to hold the roller lever into the trimmer cam. (4) Check the tension between the thread catcher and the stationary knife. If more tension is needed add by turning the small screw on top of the thread catcher plate.							

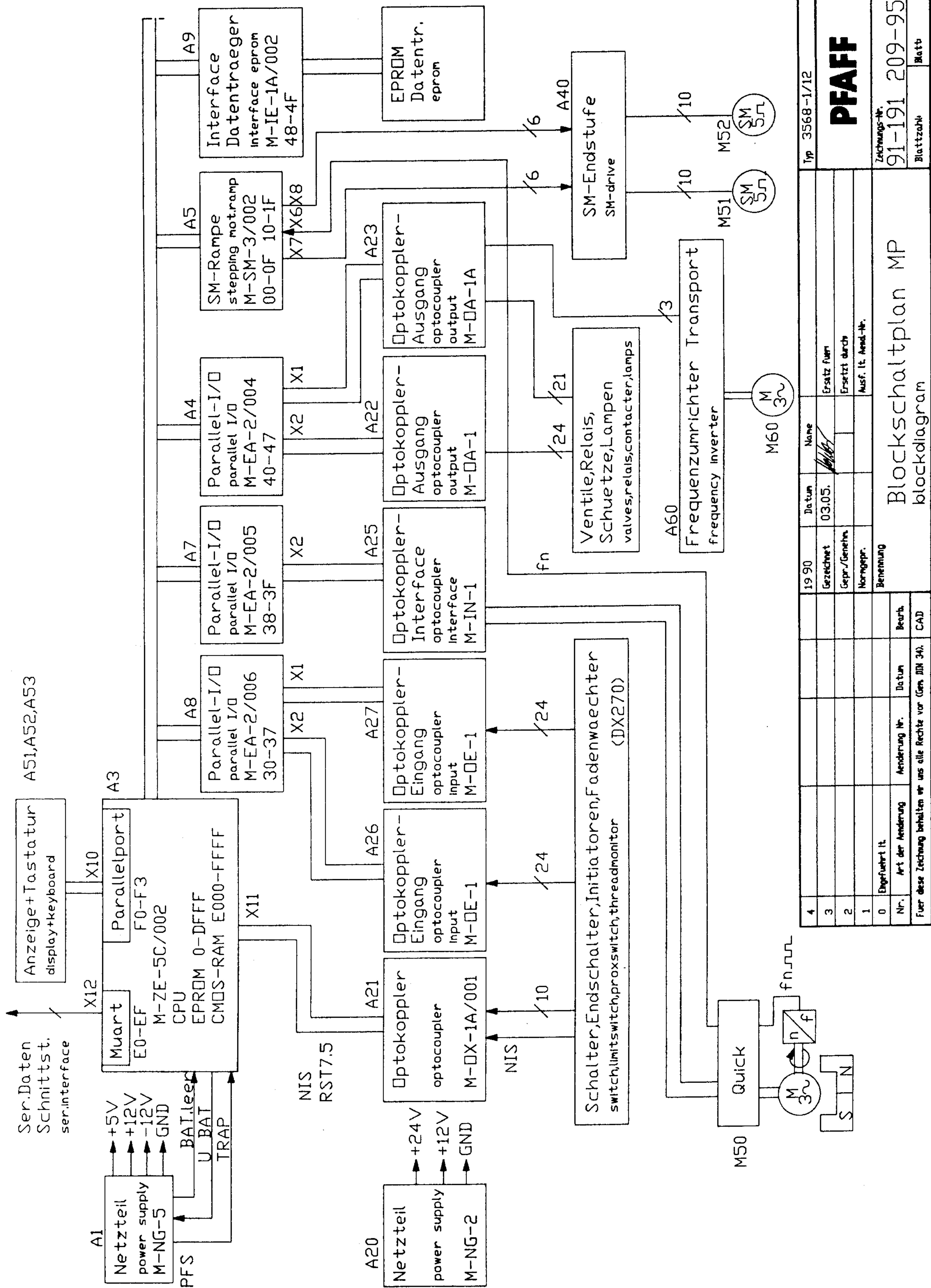


Wiring connections for the interface cable
used on the Pfaff System 3000 program unit

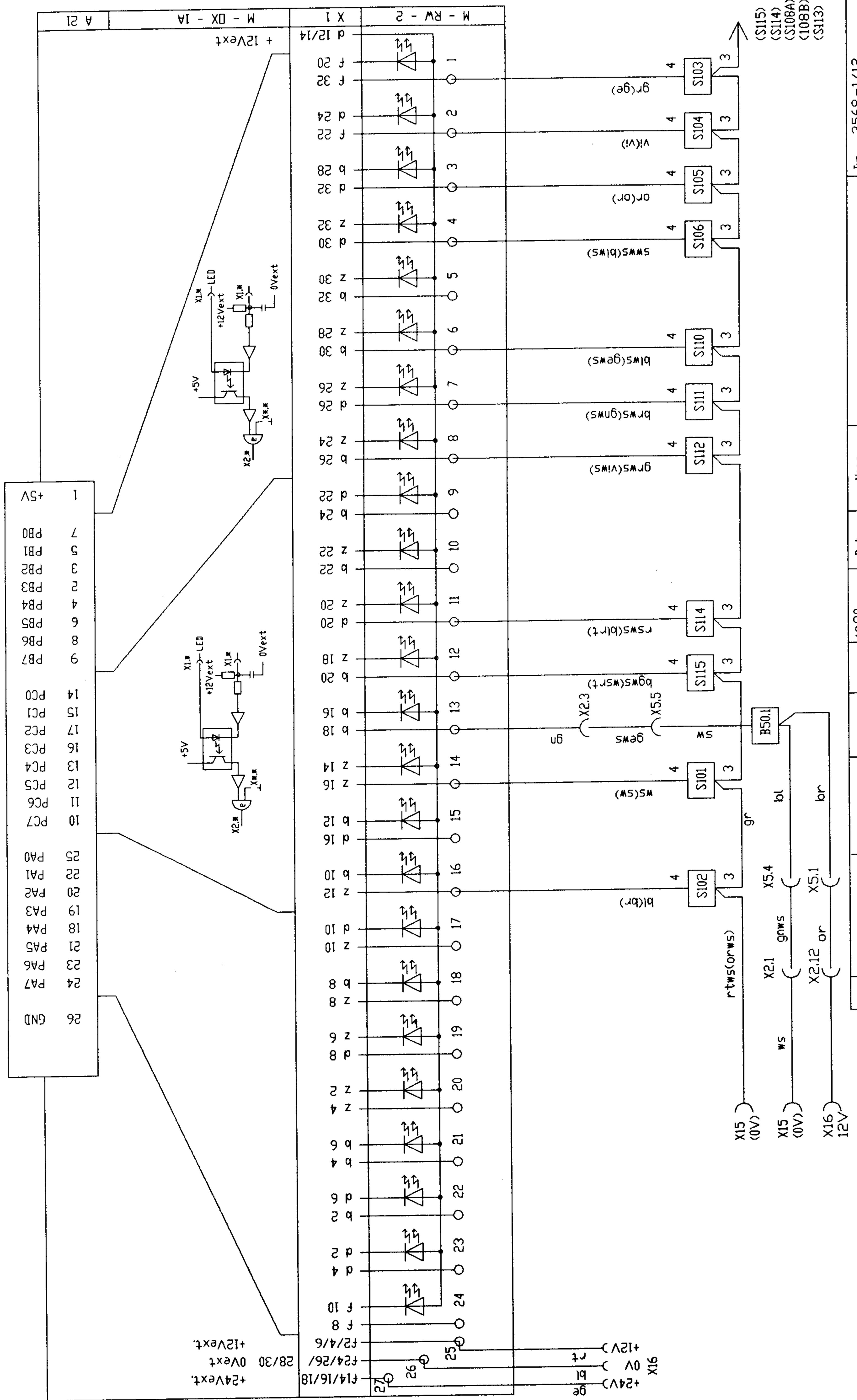
INPUT FROM MANUAL SWITCHES																																								
A21																																								
OUTPUT BOARD																																								
A22		24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1															
OUTPUT BOARD																																								
A23												H01S.Y	H01L.FT	H01EN	SGRD	H106	H105	H104	H103	H115	Y26.1	Y26.2	Y25	Y24.1	Y24.2	Y23.1	Y23.2	K22	Y21.1	Y21.2	Y20.1	Y20.2	Y3	Y2	Y1					
OUTPUT BOARD												24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1					
A24																																S120	ETINKL	ETRDY	ETERR					
INTERFACE BOARD												24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1					
INPUT BOARD																																								
A25												24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1					
INPUT BOARD																																								
A26												B28.3	S108B	S108A	B31.1	B31.2	S37	S28.2	B28.4	S28.1	B27.1	B27.2	S26.1	S26.2	S24.1	S24.2	S23.1	S23.2	S21.1	S20.1	S20.2	B28.5	B2	S1						
INPUT BOARD												24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1					
A27												S29.2	S29.1	SMOK	KONTIN	THEERR	BOBERR	S113	S90	SPGTST	KASTEN	S99	S98	S97	S60	B52.3	B52.2	B52.1	B51.3	B51.2	B51.1	S50.1	S42	S41.1	S41.2					
INPUT BOARD												24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1					
A28												24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1					

S = input switch (mechanical or magnet)
B = input switch (proximity or sensor)
H = light
KASTEN = reset or cold start
SMOK = stepping motor OK
KONTIN = continuos

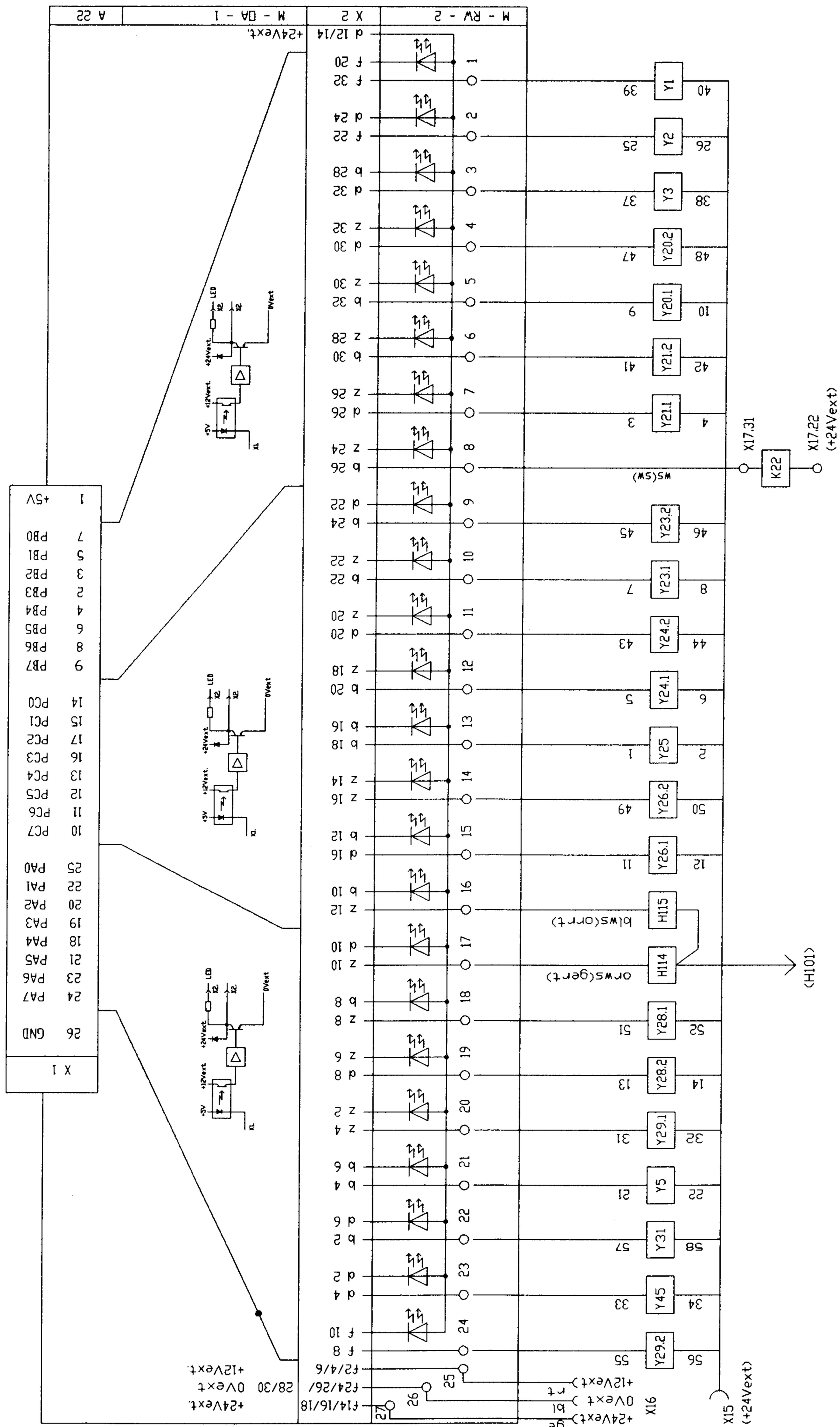
STP 3568-2/12						Date 1
91-191 291-95						Date 2
PFAFF						Date 3
1	91-191 291-95	1993	Year	Month	Day	1993-02-15
2	PFAFF	Constant	13.01	13.01	13.01	13.01
3		Upper/Search				
4		Lower				
5	0	0	0	0	0	0
6	1	1	1	1	1	1
7	2	2	2	2	2	2
8	3	3	3	3	3	3
9	4	4	4	4	4	4
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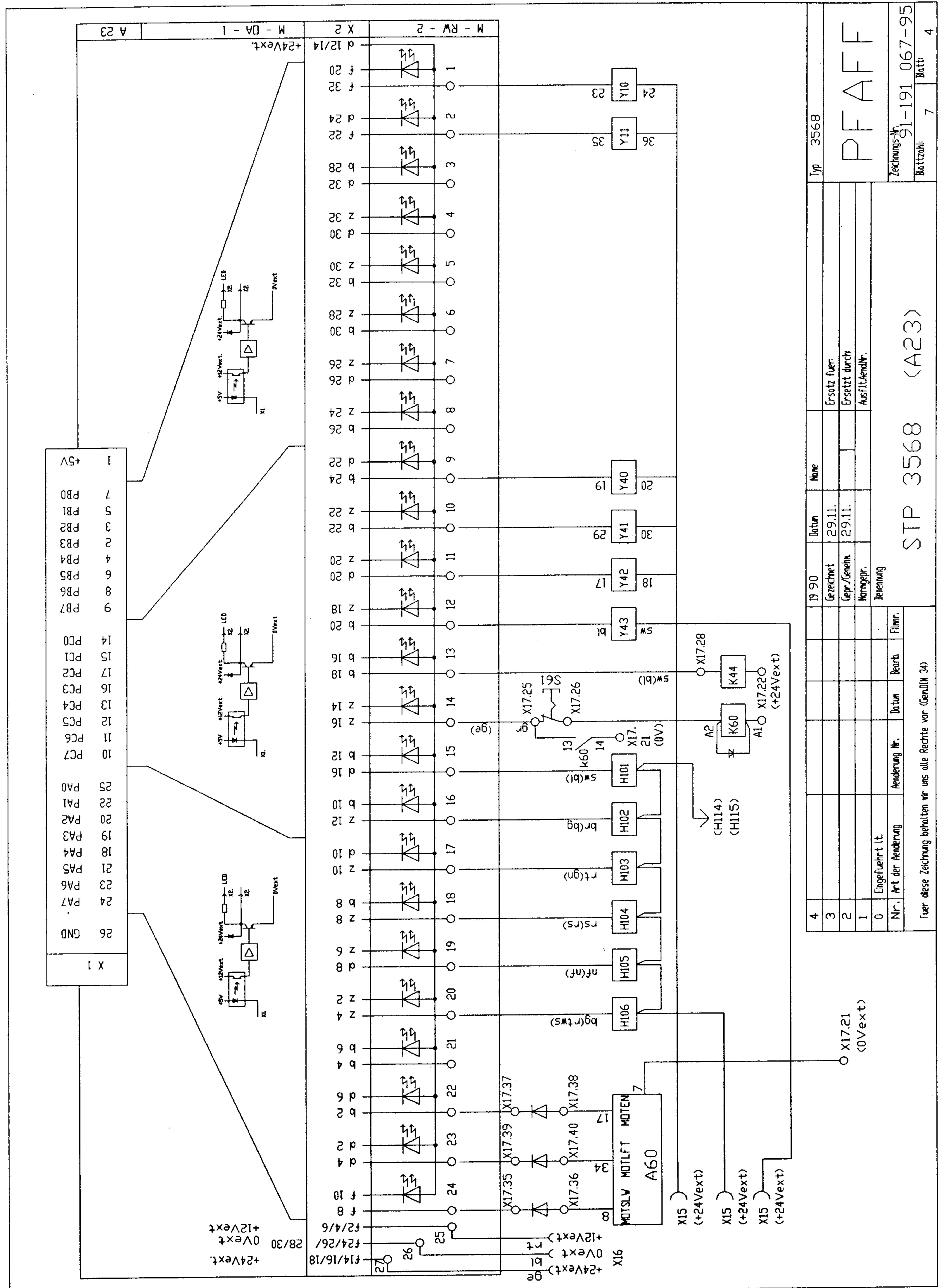
Circuit diagrams

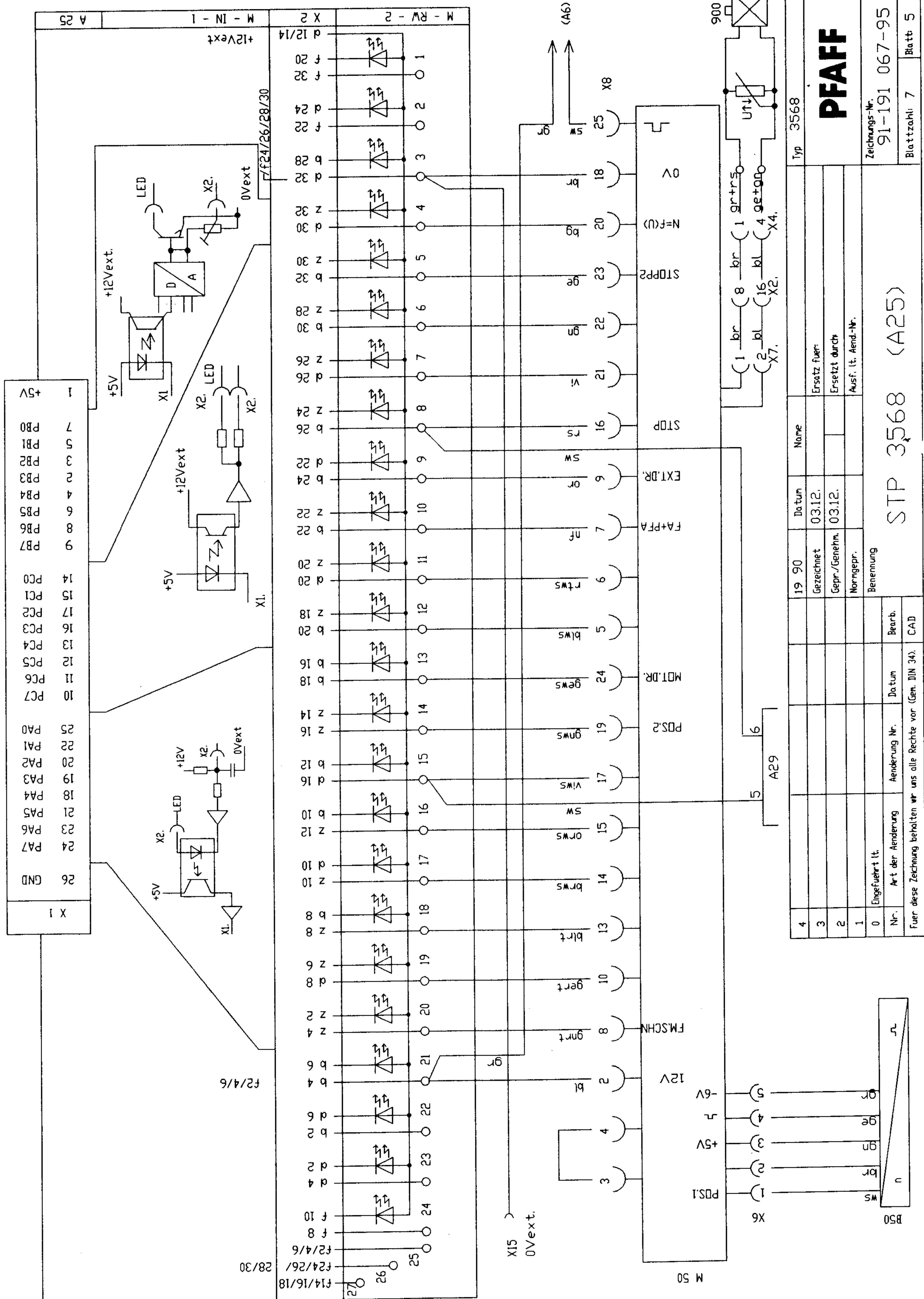


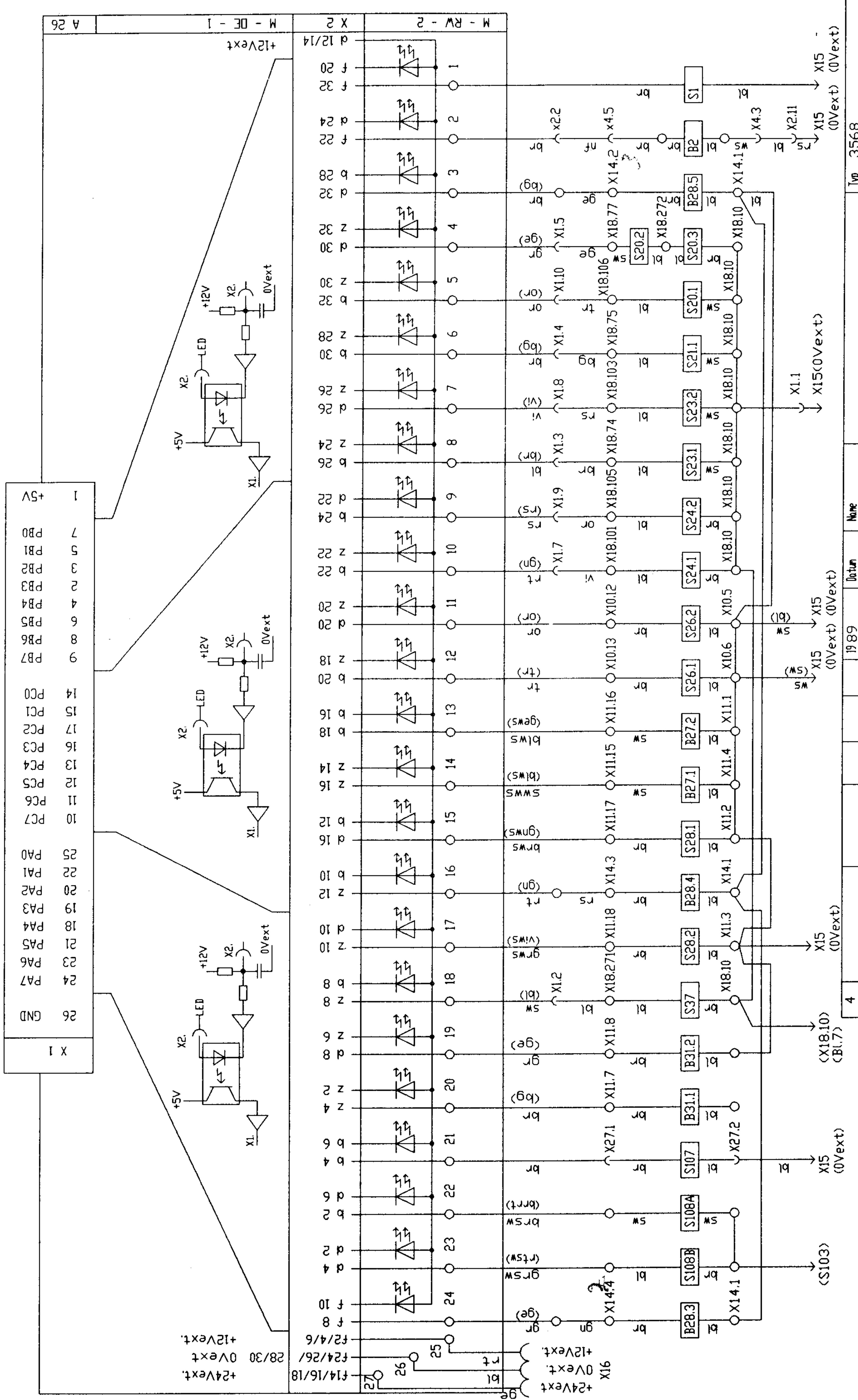
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2	Gepr./Genehm.	03.12.	Ersetzt durch:		
1	Normgepr.		Ausf. lt. Aend.-Nr.		
0	Eingebracht lt.		Benennung	S T P 3568 < A21 >	
			Aenderung Nr.		
			Datum	Bearb.	
				CAD	
fuer diese Zeichnung behalten wir uns alle Rechte vor (Gem. DIN 34).					



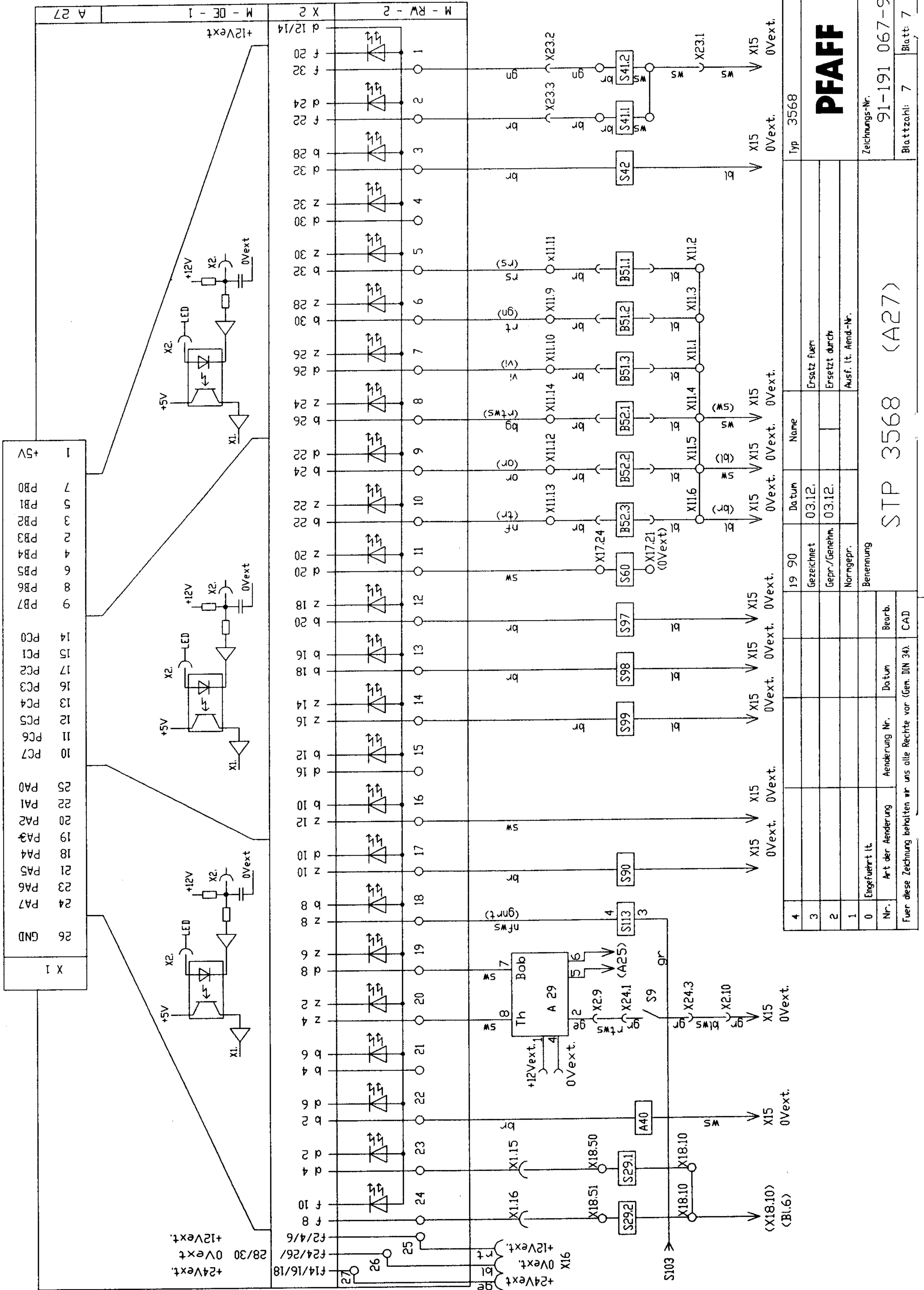
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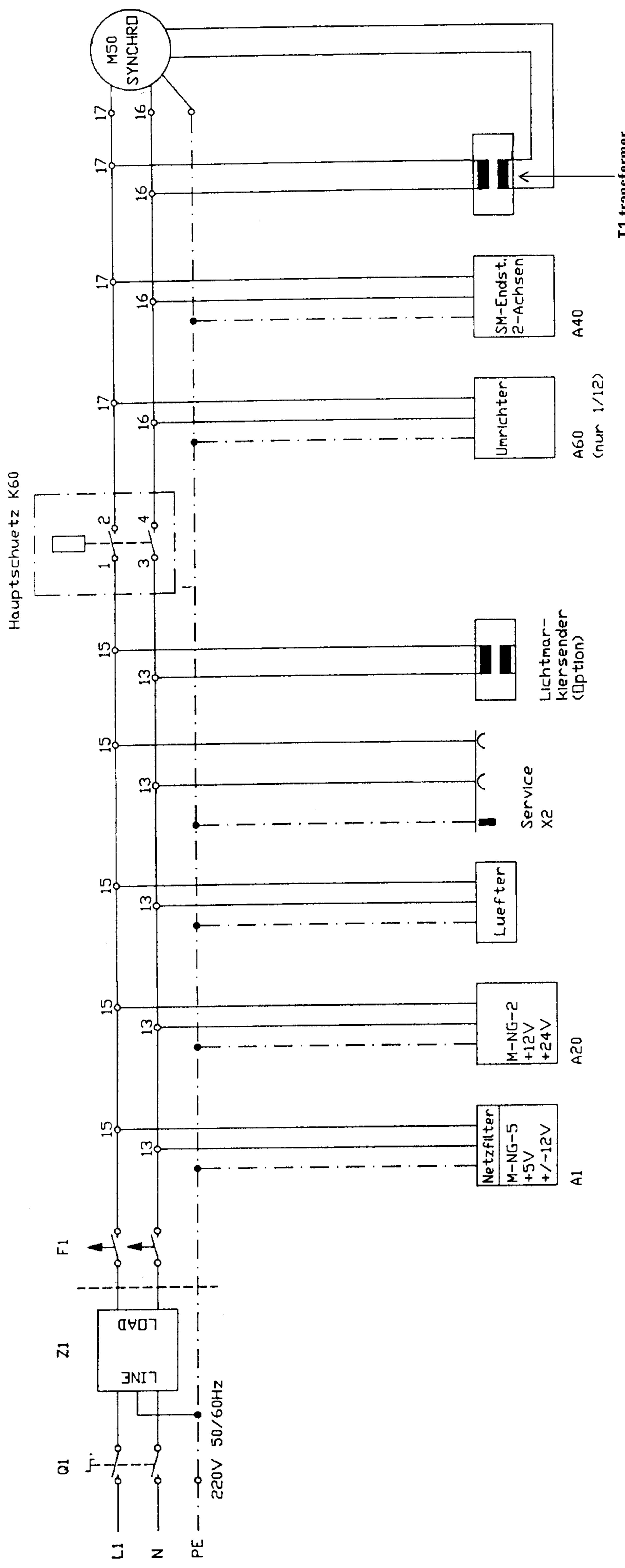






Für diese Zeichnung behalten wir uns alle Rechte vor (Gen DIN 34)





STP-Netzversorgung		Typ 3568	
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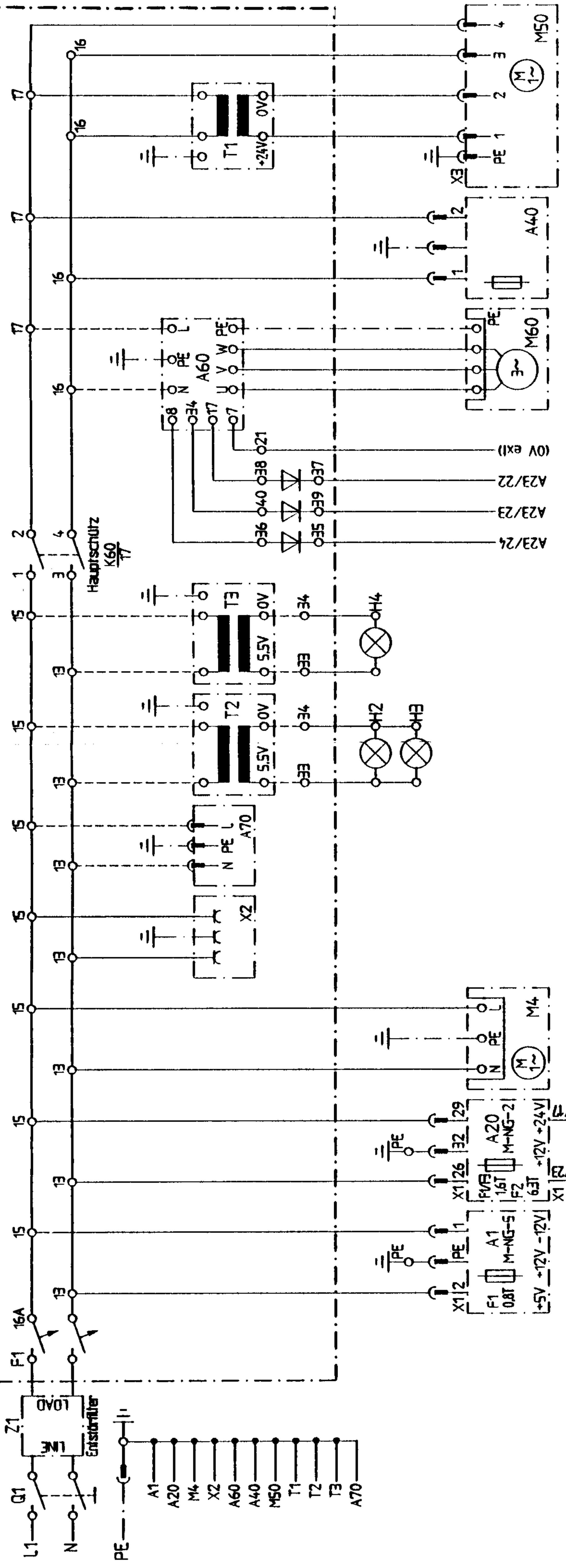
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Zeichnungs-Nr.
91-191 207-95

Blattzahl
Blatt

Für diese Zeichnung behalten wir uns alle Rechte vor (Gem. DIN 34).

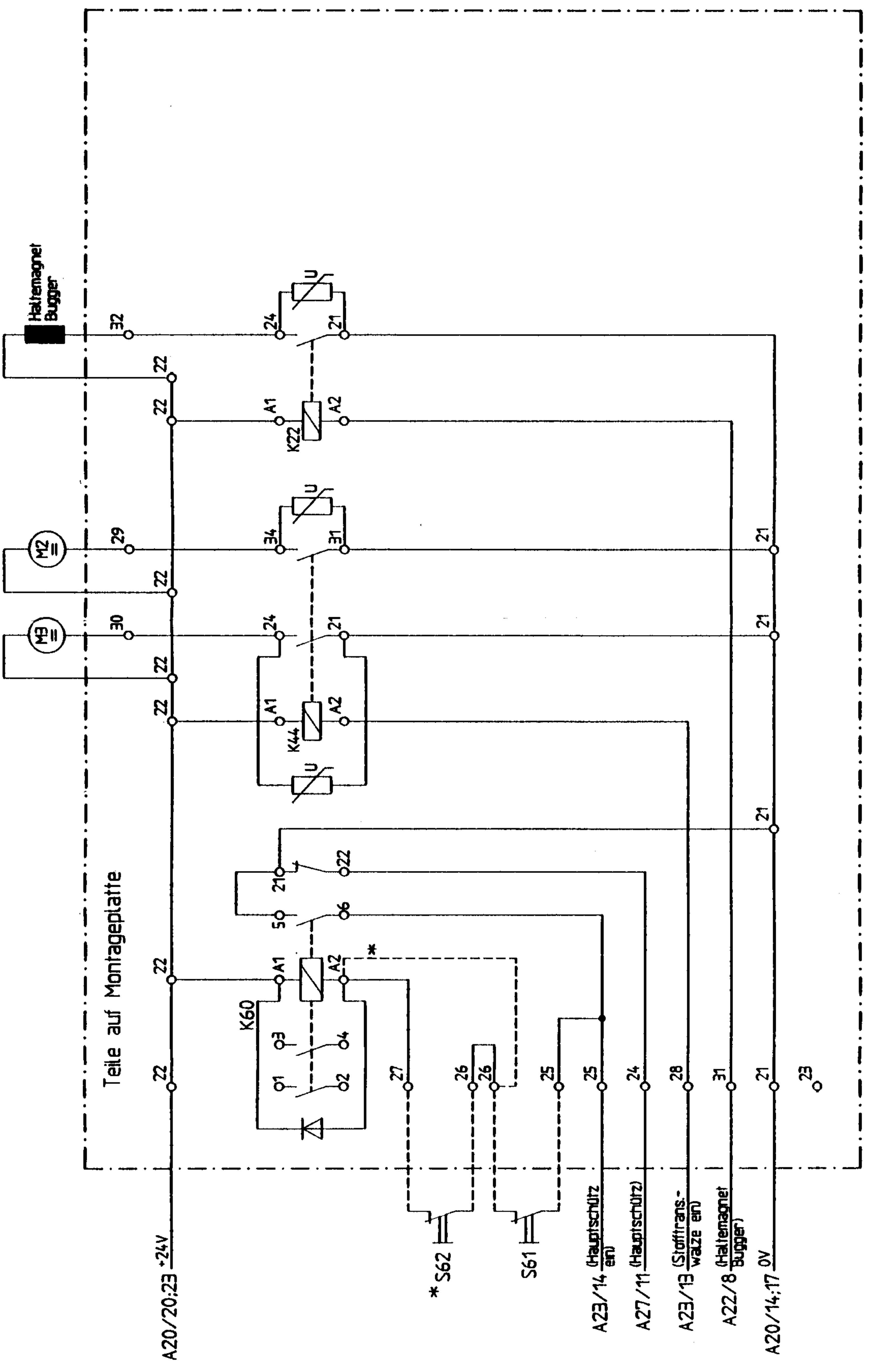
Teile auf Montageplatte



Netzteil +5V ±12V		Netzteil 24V		Ufer		Servicesteckdose		Effektor-zuführung (Option)		Träfo für Lichtmarkier-sender (Option)		Umrichter (Option)		SM-Endstufen 2 Achsen		Träfo 24V		Synchro-motor		
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Typ 3568-2/12	
0	Eingangs-/Ausgangs-	Art d.	Änderung	Änderung Nr.	Datum	Geart.	Bemerkung													PFAFF
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1																				Blatt-Nr. 2, Blatt: 1

JTP Netzversorgung

Für diese Zeichnung berichten wir uns alle Rechte vor Gericht. DIN 344 CAD



* S62 entfällt bei Version -2/12
Verbindung von K60A2 nach X1727
in K60A2 nach X1726 ändern.

25 26 27 28

15 16 17 18 19 20 21 22

23 24

Typ 3568-2/12

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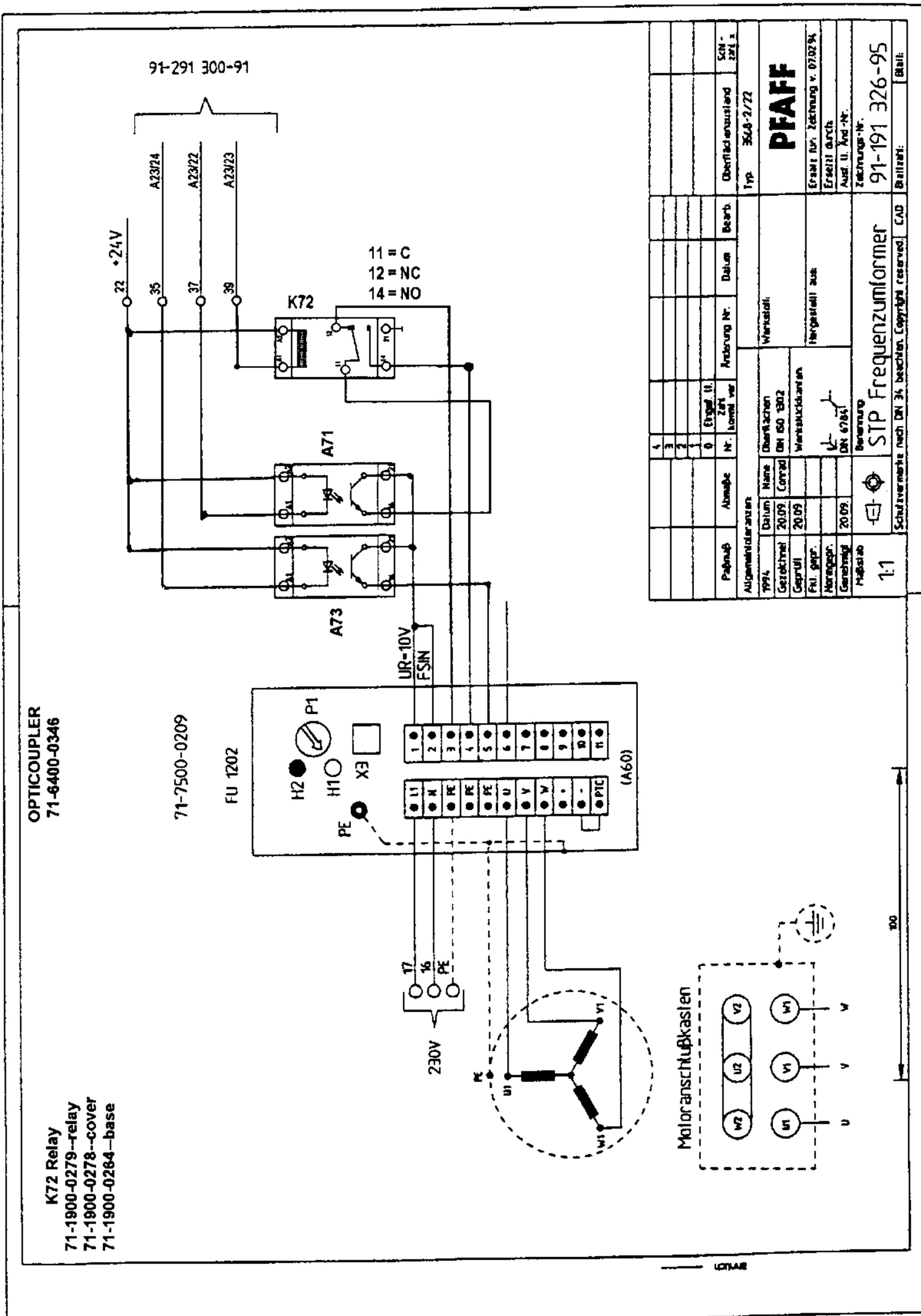
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Bearbeitn. 2	Bearb. 2

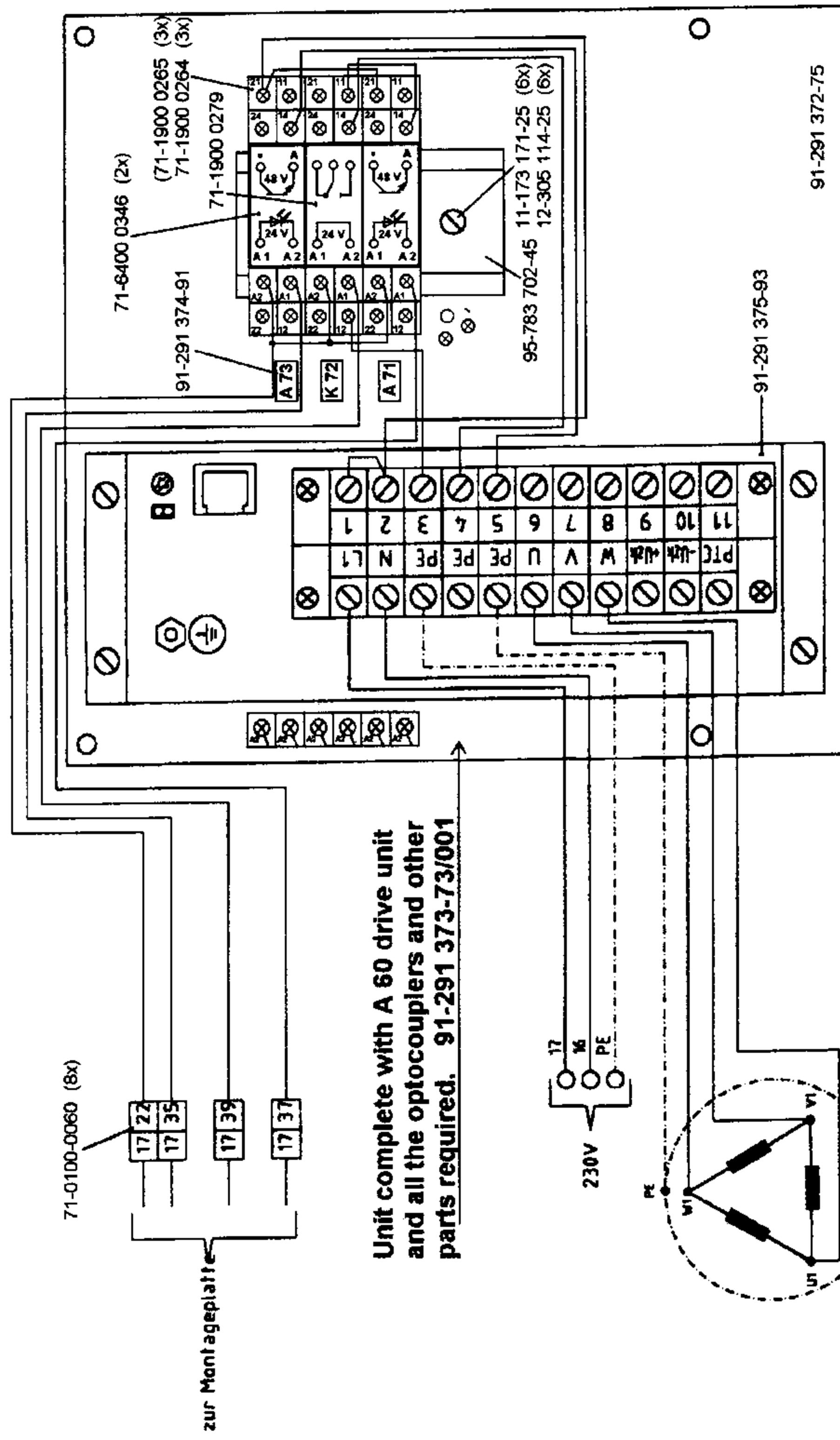
24V Versorgung

Bemerkung

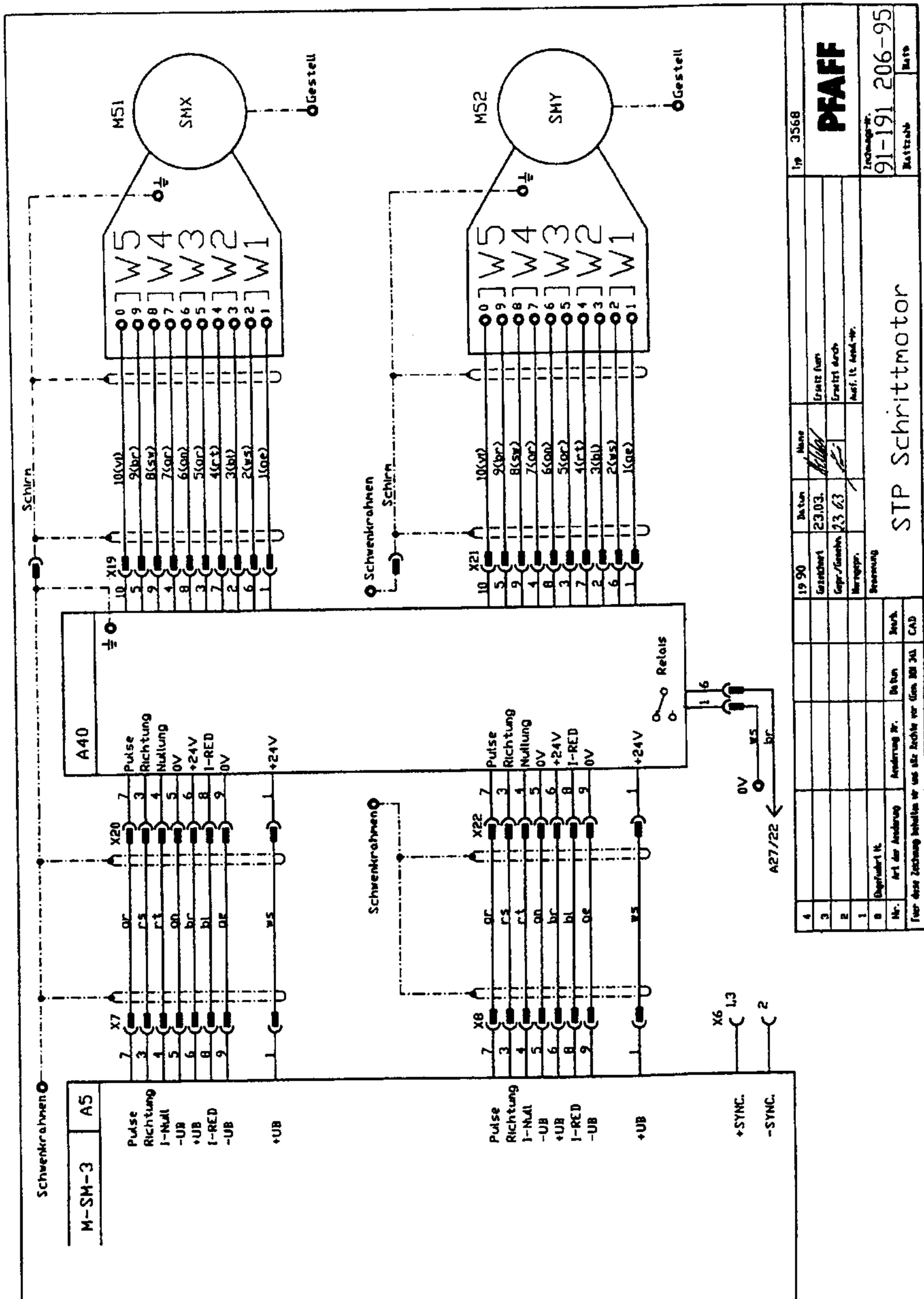
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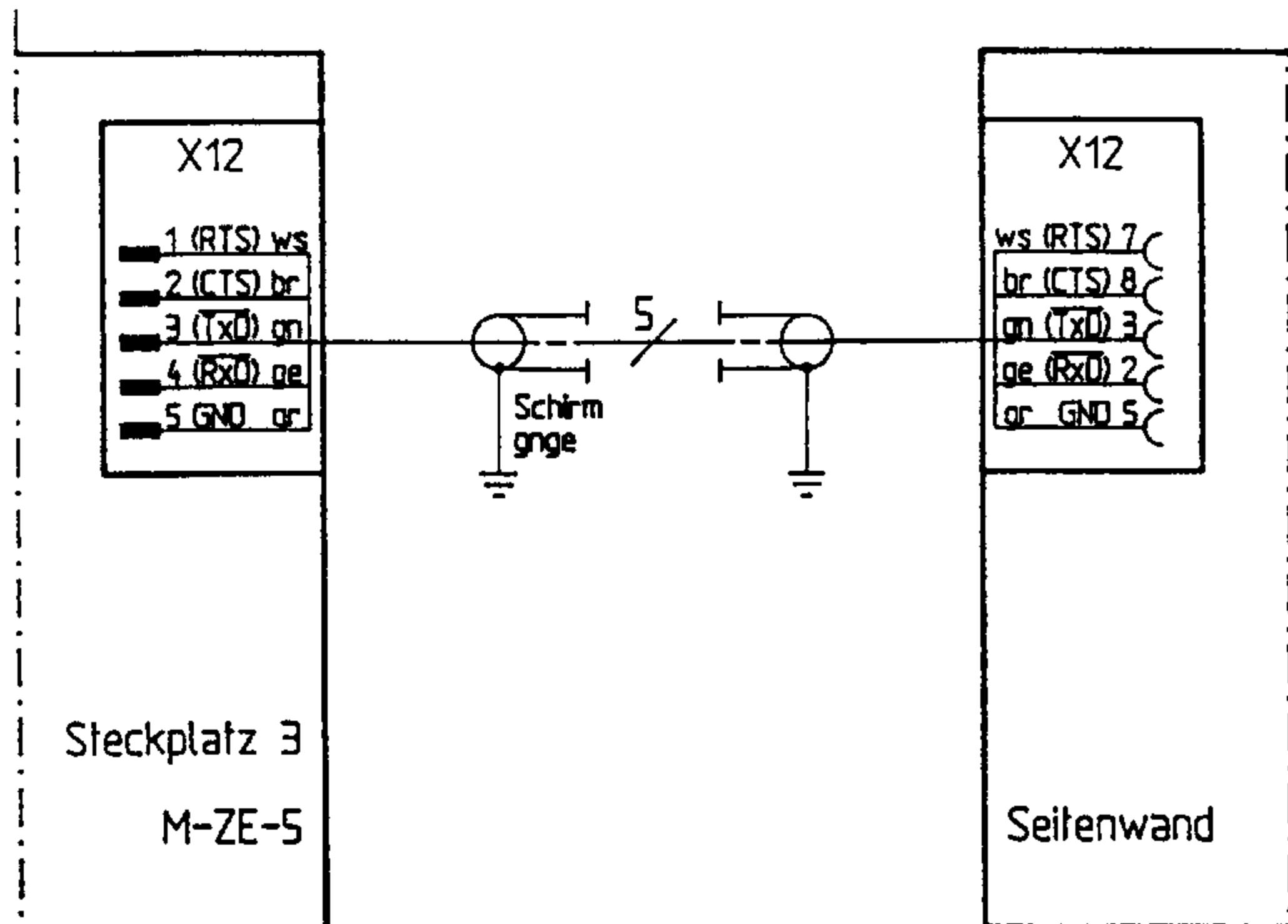
Für diese Zeichnung behalten wir uns alle Rechte vor. Gult. ab 03.04.94





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Paßmaß	Abmaße	Nr.	Zahl kommt vor	Änderung Nr.	Datum	Bearb.	Oberflächenzustand	Schl.-zahl x
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Gezeichnet	17.11. <i>Ulfmeier</i>		DIN ISO 1902					
Geprüft	17.11. <i>3</i>		Werkstückkanten:					
Fkt. gepr.								
Normgepr.								
Genehmigt	17.11. <i>Roschow</i>		DIN 67841	Hergestellt aus:				
Maßstab								
—			Benennung:					
			STP Anschluß serielle Schnittstelle					
			Schutzvermerke nach DIN 34 beachten. Copyright reserved.	CAD	Blattzahl:			

Component list

Part Used for

A0 Solid state circuit board SMP - BUS**A1** Solid state circuit board, power pack**A3** Solid state circuit board CPU**A4** Solid state circuit board parallel-I/O**A6** Solid state circuit board parallel-I/O**A5** Solid state circuit board, stepping motor ramp**A7** Solid state circuit board parallel-I/O**A8** Solid state circuit board parallel-I/O**A9** Solid state circuit board interface eprom data carrier**A20** Solid state circuit board, power pack**A21** Solid state circuit board, optocoupler inputs, outputs**A22** Solid state circuit board optocoupler outputs**A23** Solid state circuit board, optocoupler outputs

Part	Used for
A24	Solid state circuit board, optocoupler inputs/outputs
A25	Solid state circuit board, optocoupler interface, sewing motor
A26	Solid state circuit board, optocoupler inputs
A27	Solid state circuit board, optocoupler inputs
A28	Solid state circuit board, optocoupler inputs
A29	Solid state circuit board thread monitor
A40	Stepping motor - drive
A51	Solid state circuit board, interface keyboard display
A52	Solid state circuit board, keyboard
A53	Solid state circuit board, display unit
A60	Frequency converter
A70	Label feeder
B2	-900 not in basic position

Part Used for

B26.1 Jig down [Sewing template]**B26.2** Jig up [Sewing template]**B27.1** Feed forward [template transfer]**B27.2** Feed back [template transfer]**B28.3** Locating pins, feed off (left) [template changeover for transfer off]**B28.4** Locating pins, feed, on [template changeover for transfer on]**B28.5** Locating pins, feed, off (right) [template changeover for transfer off]**B31.1** Feed prior to sewing position (ramp down on) [template transfer]**B31.2** Feed prior to folding position (ramp down on) [template transfer]**B50** Synchronizer**B50.1** Needle into fabric**B51.1** Zero position SM X**B51.2** End position + SM X

Part	Used for
------	----------

B51.3	End position - SM X
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B52.1	Zero position SM Y
-------	--------------------

B52.2	End position + SM Y
-------	---------------------

B52.3	End position - SM Y
-------	---------------------

BOBERR	Bobbin thread disturbance
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ET	Label feeder fitted
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ETINKL	Label in clamp
--------	----------------

ETRDY	Label feeder ready
-------	--------------------

ETERR	Label feeder error
-------	--------------------

ETSTART	Label feeder start
---------	--------------------

EXTDR	External speed on
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F1	Main fuse
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F2	Fuse power pack (A20)
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Part Used for

F3 Fuse power pack (A1)**F4** Fuse stepping motor - final stage (A40)**FA+PFA** Autom. presser foot lift "on"**FMSCHN** Cutting finished**H101** Lamp "start"**H102** Lamp "stop"**H103** Lamp "manual"**H104** Lamp "automatic"**H105** Lamp "control on"**H106** Lamp "error reset"**H114** Lamp "program A"**H115** Lamp "program B"**H120** Lamp "label transfer"

Part Used for

K22 Retaining solenoid, folder

K40 Puller up (option)

K44 Stacke roller on

K60 Main contactor on

KASTEN Enable cold start

KONTIN Enable continuous

KST Small-parts stacker, fitted

M2 Stacke feed roller

M3 Puller motor

M50 Sewing motor

M51 Stepping motor, X-axis

M52 Stepping motor, Y-axis

M60 Feed drive motor

Part Used for

MOTDR Motor turns**MOTEN** Release feeding motor**MOTLFT** Feeding motor turning left**MOTSLW** Feeding motor slow**NM** Sewing motor**N=F(U)** Speed control, sewing motor**POS1** Position 1 attained**POS2** Position 2 attained**Q1** Master switch**S1** Presser foot up**S9** Needle thread monitor**S20.1** Pocket plate back**S20.2** Pocket plate forward

Part	Used for
------	----------

S20.3	Pocket plate down
-------	-------------------

S21.1	Pocket holder up
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S23.1	Folding unit up
-------	-----------------

S23.2	Folding unit down
-------	-------------------

S24.1	Edge folders back
-------	-------------------

S24.2	Edge folders forward
-------	----------------------

S26.1	Template down
-------	---------------

S26.2	Template up
-------	-------------

S27.1	Feed forward
-------	--------------

S27.2	Feed back
-------	-----------

S28.1	Indexing sewing on
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S28.2	Indexing sewing off
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S29.1	Folding station front
-------	-----------------------

Part Used for

S29.2 Folding station rear**S37** Plate up**S38** Pocket plate swung in**S39** Folding unit swung in**S41.1** Puller up**S41.2** Puller down**S42** Stacker forward**S50.1** Sewing head down**S60** Main contactor off**S61** Emergency stop**S62** Emergency stop**S70.1** Label feeder top**S70.2** Label feeder bottom

Part	Used for
S80	Label magazine empty
S90	Safety control disabled
S97	Pressure monitor
S98	Safety guard rear
S99	Carriage cover closed
S101	Key "start"
S102	Key "stop"
S103	Key "manual"
S104	Key "automatic"
S105	Key "control on"
S106	Key "error reset"
S107	Pocket plate down
S107	Foot switch "pocket plate front"

Part Used for

S108A Key "folding unit start"

S108B Key "folding unit start"

S109 Key "clamping cylinder retracted"

S110 Key "sewing"

S111 Key "push button"

S112 Key "delete"

S113 Key "no sewing"

S114 Key "program A"

S115 Key "program B"

S120 Key "bring label"

SGRD Carriage in basic position

SMOK Stepping-motor end phases o.k.

SPGTST Power supply +12 V external

Part	Used for
SPWOUT	Bobbin change
STOP	Stop without position
STOP P1	Stop, 1st position
STOP P2	Stop, 2nd position
THERR	Needle thread disturbance
X1.	Plug-in connection for folding unit
X2.	Plug-in connection for sewing head
X3.	Plug-in connection, synchronizer sewing head
X4.	Plug-in connection, -900 at sewing head
X5.	Plug-in connection B50.1
X6.	Plug-in connection, synchronizer - Quick
X7.	Plug-in connection, -900 - Quick
X8.	Plug-in connection control signals Quick

Part	Used for
X9.	Plug-in connection S1 (presser foot)
X10	Terminal strip in distributor, jig feed
X11.	Terminal strip in distributor, carriage
X12.	Plug-in connection, serial interface Prog.
X13.	Plug-in connection serial interface CPU
X14.	Terminal strip in distributor at jig
X15.	Terminal strip in control box 12/24 V left
X16.	Terminal strip in control box 12/24 V right
X17.	Terminal strip, control box, contactor board
X18.	Terminal strip in folding unit
X19.	Plug-in connection, stepping motor x-drive
X20.	Plug-in connection, control x-drive
X21.	Plug-in connection, stepping motor y-drive

Part Used for

X22. Plug-in connection, control y-drive

X23. Plug-in connection, puller

X24. Push-in connection, thread monitor

X27. Plug-in connection for foot switch

X28. Plug-in connection for small part stacker (mains)

X29. Plug-in connection for small part stacker (signal)

X50 Terminal strip in control box, left

Y1 Presser foot down

Y2 Cutting "on"

Y3 Air blast, needle cooling

Y5 Thread puller engaged

Y10 Zigzag engaged

Y11 Increase of thread tension

Part Used for

Y20.1 Pocket plate backwards

Y20.2 Pocket plate forwards

Y21.1 Pocket holder upwards

Y21.2 Pocket holder downwards

Y23.1 Folding unit and table up

Y23.2 Folding unit and table down

Y24.1 Edge folders backwards

Y24.2 Edge folders forwards

Y25 Positioning pins upwards

Y25 Suction folding station on (only for 3568-2/12)

Y26.1 Jig downwards

Y26.2 Jig upwards

Y27.1 Feed forwards

Part Used for

Y27.2 Feed backwards

Y28.1 Locating pin sewing

Y28.2 Locating pins, feed

Y29.1 Folding station forward

Y29.2 Folding station backward

Y30 Clamping cylinder, folding unit, extend

Y31 Pocket plate up

Y40 Fabric feed roller (not for 3568-1/12)

Y40 Suction fabric feed roller on (only for 3568-1/12)

Y41 Puller down

Y42 Stacker forward

Y43 Air blast, stacker

Y45 Air blast, auxiliary fabric feed

Part	Used for
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Y46.1	Turning cylinder, puller, right
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Y46.2	Turning cylinder, puller, left
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Y50.1	Sewing head down
-------	------------------

Y50.2	Sewing head up
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Y70	Label feeder clamp pressure
-----	-----------------------------

Part	Description	Part number
A0	Solid state circuit board	M-BU-7 91-094 453-93/001
A1	Solid state circuit board	M-NG-5 91-094 753-91
A3	Solid state circuit board	M-ZE-5C 91-094 521-93/002
A4	Solid state circuit board	M-EA-2 91-092 767-93/004
A5	Solid state circuit board	M-SM-3 91-093 459-93/002
A7	Solid state circuit board	M-EA-2 91-092 767-93/005
A8	Solid state circuit board	M-EA-2 91-092 767-93/006
A9	Solid state circuit board	M-IE-1A 91-093 331-93/002
A20	Solid state circuit board	M-NG-2 91-093 329-91
A21	Solid state circuit board	M-OX-1A 91-093 330-93/001
A22	Solid state circuit board	M-OA-1 91-092 323-91
A23	Solid state circuit board	M-OA-1 (not for 3568-1/12) 91-092 323-91
A23	Solid state circuit board	M-OA-1A (only for 3568-1/12) 91-094 878-91

Part	Description	Part number
A24	Solid state circuit board	M-OX-2A 91-290 916-91
A25	Solid state circuit board	M-IN-1 91-092 490-91
A26	Solid state circuit board	M-OE-1 91-092 321-91
A27	Solid state circuit board	M-OE-1 91-092 321-91
A29	Solid state circuit board	DX 270 (mechanical) 91-094 591-93/001
A29	Solid state circuit board	DX 270A(visual) 91-094 792-93/001
A40	Stepping motor - drive	71-75 00-0173
A51	Solid state circuit board	91-094 419-91
A52	Solid state circuit board	91-094 541-93/001
A53	Solid state circuit board	91-093 929-91
A60	Control unit (only for 3568-1/12; -2/12)	71-7500-0149
A70	Control unit	
B2	Proximity switch (only for 3568-2/12)	71-13 00-0448

Part	Description	Part number
B26.1	Proximity switch	71-13 00-0448
B26.2	Proximity switch	71-13 00-0448
B27.1	Proximity switch	71-63 00-0202
B27.2	Proximity switch	71-63 00-0202
B28.3	Proximity switch	71-13 00-0448
B28.4	Proximity switch	71-13 00-0448
B28.5	Proximity switch	71-13 00-0448
B31.1	Proximity switch	71-63 00-0202
B31.2	Proximity switch	71-63 00-0202
B50	Proximity switch	71-14 00-0041
B50.1	Proximity switch	91-290 120-91
B51.1	Proximity switch	71-13 00-0473 (71-13 00-0483 m. Fastenan.)
B51.2	Proximity switch	71-13 00-0473 (71-13 00-0483 m. Fastenan.)

Part	Description	Part number	
B51.3	Proximity switch	71-13 00-0473 (71-13 00-0483 m. Fastenan.)	
B52.1	Proximity switch	71-13 00-0473 (71-13 00-0483 m. Fastenan.)	
B52.2	Proximity switch	71-13 00-0473 (71-13 00-0483 m. Fastenan.)	
B52.3	Proximity switch	71-13 00-0473 (71-13 00-0483 m. Fastenan.)	
F1	Automatic cut-out	16A	71-15 00-0082
F2	Fuse	T1,6	70-15 24-0018
F3	Fuse	T0,8	70-15 24-0015
F4	Fuse	T8	70-15 15-0025
F5	Fuse	T1	70-15 15-0016
H1	Light bulb		70-25 21-7234
H101	Light bulb		71-25 00-0267
H102	Light bulb		71-25 00-0267
H103	Light bulb		71-25 00-0267

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Part	Description	Teilenummer Part number Nº de pièce Nº de pieza
H104	Light bulb	71-25 00-0267
H105	Light bulb	71-25 00-0267
H106	Light bulb	71-25 00-0267
H114	Light bulb	71-25 00-0267
H115	Light bulb	71-25 00-0267
H120	Light bulb	71-25 00-0267
K22	Relay	71-19 00-0060
K22	Varistor	71-63 00-0058
K40 K44	Relay	71-19 00-0060
K40 K44	Varistor	71-63 00-0058
K60	Contactor	71-19 00-0224
K60	Switching diodes	71-63 00-0159
M2	Motor	See pneum. parts list

Part	Description	Part number
M3	Motor	See pneum. parts list
M50	Motor	See pneum. parts list
M51	Motor	See pneum. parts list
M52	Motor	See pneum. parts list
M60	Motor	See pneum. parts list
Q1	Master switch (only for 3568-1/12)	71-11 00-0308
Q1	Master switch (not for 3568-1/12)	71-11 00-0307
S1	Solenoid switch	71-13 00-0479
S9	Thread monitor	91-094 036-91
S20.1	Proximity switch	99-135 051-91
S20.2	Proximity switch	99-135 051-91
S20.3	Pneum./electr. converter	99-136 122-91
S21.1	Limit switch	71-12 00-0413

Part	Description	Part number
S23.1	Proximity switch	99-135 051-91
S23.2	Proximity switch	99-135 051-91
S24.1	Pneumatic/electrical converter	99-136 122-91
S24.2	Pneumatic/electrical converter	99-136 122-91
S26.1	Solenoid switch	71-13 00-0479
S26.2	Solenoid switch	71-13 00-0479
S27.1	Solenoid switch	99-135 051-91
S27.2	Solenoid switch	99-135 051-91
S28.1	Solenoid switch	71-13 00-0527
S28.2	Solenoid switch	71-13 00-0527
S29.1	Solenoid switch	99-135 051-91
S29.2	Solenoid switch	99-135 051-91
S37	Limit switch	71-12 00-0413

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Part	Description	Part number
S38	Limit switch	71-12 00-0420
S41.1	Solenoid switch	71-13 00-0527
S41.2	Solenoid switch	71-13 00-0527
S42	Limit switch	71-12 00-0532
S50.1	Solenoid switch	99-13 5 051-91
S61	Push-button	71-13 00-0497
S62	Push-button	71-13 00-0498
S70.1	Push-button	71-13 00-0498
S70.2	Push-button	71-13 00-0498
S80	Push-button	71-13 00-0498
S90	Push-button	71-13 00-0216
S97	Pressure monitor	95-629 723-71/993
S98	Limit switch	71-12 00-0413

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Blatt: 27

Part	Description	Teilenummer Part number N° de pièce Nº de pieza
S99	Limit switch	71-12 00-0413
S101	Push-button	71-13 00-0374
S102	Push-button	71-13 00-0374
S103	Push-button	71-13 00-0374
S104	Push-button	71-13 00-0374
S105	Push-button	71-13 00-0374
S106	Push-button	71-13 00-0374
S107	Limit switch	71-12 00-0413
S108A	Push-button	(only for 3568-2/12) 71-12 00-0413
S108A	Limit switch	(only for 3568-2/12) Plastic cap 71-13 00-0440 71-12 00-0439
S108A	Push-button	(not for 3568-1/12) 71-13 00-0374
S108B	Limit switch	(not for 3568-1/12) 71-12 00-0413
S109	Limit switch	71-12 00-0532

Part	Description	Part number
S110	Push-button	71-13 00-0374
S111	Push-button	71-13 00-0374
S112	Push-button	71-13 00-0374
S113	Push-button	71-13 00-0375
S114	Push-button	71-13 00-0374
S115	Push-button	71-13 00-0374
S120	Push-button	71-13 00-0374
Y1	Solenoid valve	See pneum. parts list
Y2		
Y3		
Y5		
Y10		
Y11		
Y20.1		
Y20.2		
Y21.1		
Y21.2		
Y23.1		
Y23.2		
Y24.1		
Y24.2		
Y25		
Y26.1		
Y26.2		
Y27.1		
Y27.2		
Y28.1		
Y28.2		
Y29.1		
Y29.2		
Y30		
Y31		
Y40		
Y41		
Y42		
Y43		
Y45		

Part	Description	Part number
Y46.1		
Y46.2		
Y50.1		
Y50.2		
Y70		

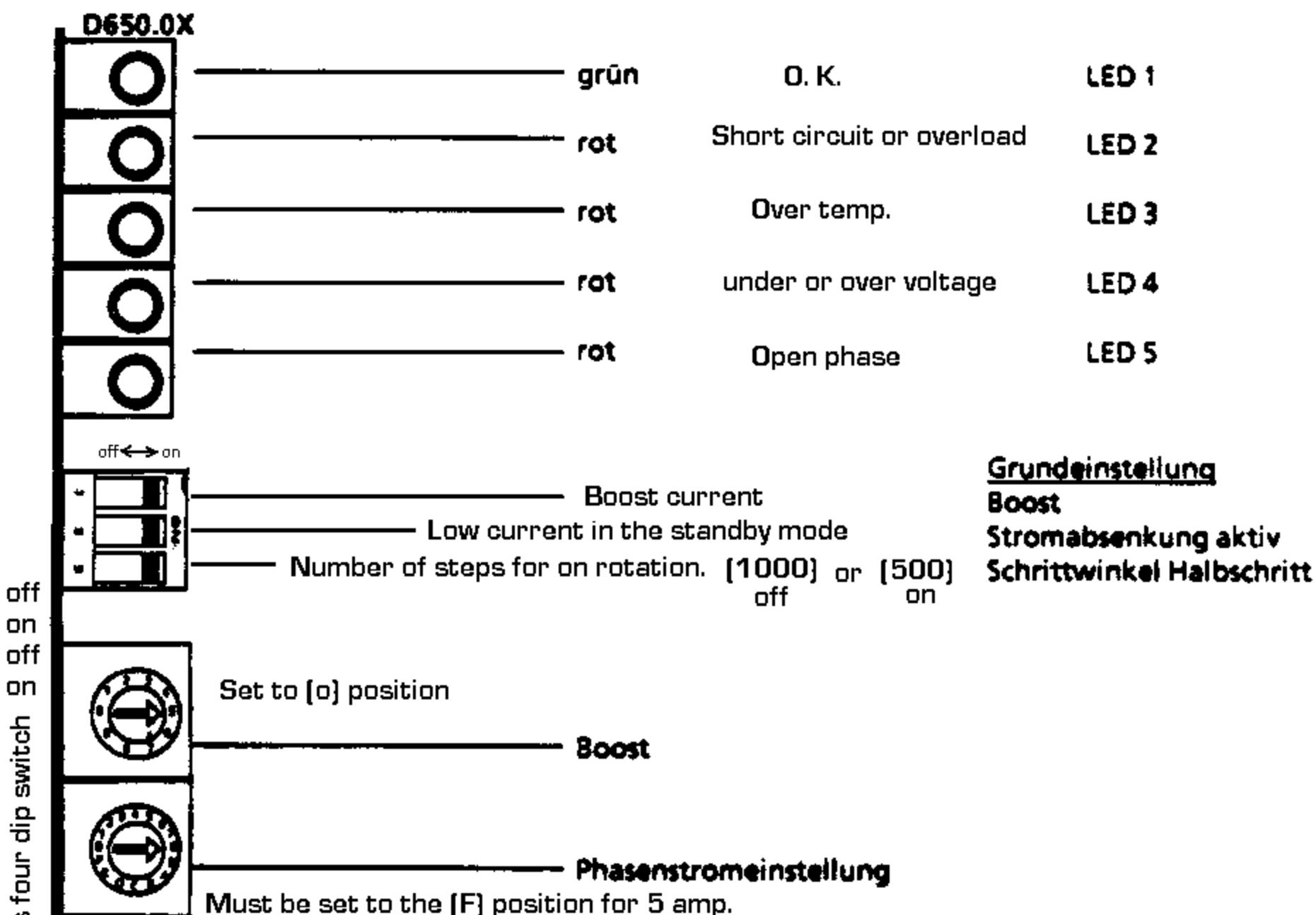
All switches are set to the off position

1.4.2 Steuerkarte D 650.0X

1.4.2.1 Betriebsdaten

Betriebsspannung	70 - 130 VDC ± 10%
Phasenströme einstellbar	2,0 - 5,0 A
Boost einstellbar	1,0 - 1,9xI _N (max.6A)
Anzeige für Bereitschafts- und Störungsanzeigen	LEDs
Drehschalter zur Einstellung des Boost	
Drehschalter zur Einstellung des Phasenstroms	

1.4.2.2 Anzeige und Programmierschalter



1.4.2.3 Boost (Grenzwert $I_{Boost} = 6 \text{ A max.}$)

I_{Boost}	$1,0 \times I_N$	$1,1 \times I_N$	$1,2 \times I_N$	$1,3 \times I_N$	$1,4 \times I_N$	$1,5 \times I_N$	$1,6 \times I_N$	$1,7 \times I_N$	$1,8 \times I_N$	$1,9 \times I_N$
Stellung	0	1	2	3	4	5	6	7	8	9

top rotary dial switch must point to the O position

1.4.3.3 Phasenstrom (Angabe in A)

$I(A)$	2,0	2,2	2,4	2,6	2,8	3,0	3,2	3,4	3,6	3,8
Stellung	0	1	2	3	4	5	6	7	8	9

$I(A)$	4,0	4,2	4,4	4,6	4,8	5,0				
Stellung	A	B	C	D	E	F				

bottom rotary dial switch must point to the F position

1.4.3.4 Stromabsenkung

Schalterstellung	OFF		ON	
Pulsfrequenz	<10 Hz	>10 Hz	<10 Hz	>10 Hz
Motorstrom I	$I_{Nenn} \times 0,6$	I_{Nenn}	I_{Nenn}	I_{Nenn}

1.4.3.5 Schrittwinkel

Schalterstellung	OFF	ON
Schrittwinkel	Halbschritt 1000 Schritte pro Umdrehung	Vollschrift 500 Schritte pro Umdrehung

switch # 3

Half step

Full step

PFAFF

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