

4410 LIBRARY STORAGE MODULE

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PN 4902

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## INTRODUCTION

This manual contains two parts:

1. INTRODUCTION - which defines the content of the manual and explains how to use it.
2. Compatibility is defined as follows:

**Downward Compatible:** A new assembly (usually a higher PN) is a direct replacement (downward compatible) for an old assembly (usually a lower PN) when it does not degrade machine performance. Downward compatibility is indicated when both assemblies have the same compatibility number for a specific application.

**Upward Compatible:** An old assembly (usually a lower PN) is equivalent to (upward compatible) and may directly replace a new assembly (usually a higher PN) if its use does not affect machine performance. Upward compatibility is indicated when assemblies having the same compatibility number are also indicated as "equivalent" in the "Description of EC" field.

Each page in the compatibility section contains the compatibility information for each FRU. It shows the history of Engineering Changes (ECs) that resulted in part number changes for that FRU. It also shows which part numbers are obsolete and which part numbers can be used to replace them.

For some FRUs, the functional changes that resulted in new part numbers will not function without corresponding machine rework. This usually results in a compatibility number change for the new assembly. The "Description of EC: field will summarize the changes. A Field APL defining the required rework will be listed in a separate column next to the EC number if applicable.

When a common FRU is released or modified for specific use in a new model or feature, the compatibility number will roll to indicate the new part number is not downward compatible for the new feature or models.

If the FRU is downward compatible for other existing models, an explanation will be added to the EC Description field.

If the compatibility number does not change, the new FRU will perform at least the same functions as the older FRU.

### COMPATIBILITY AND OBSOLESCENCE

Any part number that is prefixed with an asterisk (\*) is an obsolete part number. Obsolete means that the part will no longer be supplied. If an obsolete part is ordered, the field parts crib will substitute a part that is downward compatible or equivalent to the part number ordered.

Downward compatibility is designated by the compatibility number to the right of the part number. A FRU of a given part number is downward compatible with all those lower part number FRUs that have the same compatibility number. This means it can be used to replace any of the lower part numbers having the same compatibility number without requiring rework to another FRU or the machine.

For Example:

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*42150101	1	40020			NONE	IR - W/W BOARD
*42150102	1	40030			NONE	ADD REWORK
42150202	1	40040			8612	IMBED REWORK - EQUIV TO 102
*42150203	2	40050			8619	ADD REWORK. REQUIRED MBD AT LEVEL ___.
42150204	2	40060			NONE	ADD REWORK

In the above example:

P/N 42150 101 can replace only itself.

P/N 42150 102 can replace itself or P/N 42150101 (or -202 because it is equivalent).

P/N 42150 202 can replace itself, P/N 42150101 or P/N 42150102.

P/N 42150 203 can replace only itself. (Can not replace lower level cards unless MBD change or other prerequisite is installed).

P/N 42150 204 can replace itself and -203. (Cannot replace lower level cards unless MBD change or other prerequisite is installed).

\* The asterisk to the left of a part number indicates that the part is obsolete and is no longer supported by manufacturing. The highest level part for each compatibility level should not carry an asterisk because manufacturing must support field spares until all machines have been brought to the next compatibility level.

#### CAUTION

Upward compatibility exists only if two FRUs with the same compatibility number are described as "equivalent" in the "Description of EC" field. Any other substitution of a lower part number for a higher part number requires a great deal of caution. Such practice may result in noise problems, timing problems, diagnostic errors, etc. Any attempt to utilize such a lower part number requires ensuring that functional changes or improvements missing from the lower part number will not result in customer system operation degradation. Reference the description of each EC and ensure that no machine wiring changes or companion changes to other FRUs were required at the time the higher part number was originally installed. Usage in this manner is not recommended and should be avoided if possible.

#### UPDATING THE MANUAL

To update the manual, insert the new pages according to the new list of effective pages. Remove and discard any pages that are replaced by a later EC level, or are shown as deleted from the list of effective pages.

Comments concerning the content of this manual should be directed to Configuration Management at the address below. In case of errors, please give specific page and line references, where appropriate. For a reply, include name and address.

Requests for additional copies of this manual should be directed to the Field Crib via Field Inventory System (FIS) terminals.

This publication was prepared by Storage Technology Corporation, 1 StorageTek Drive, Louisville, Colorado 80028-0001.



UNIT/FRAME FRU ID CHIP DATA  
 MACHINE 4410 LIBRARY  
 CHIP LOCATION BACKPANEL  
 FAMID CODE: 004  
 FAMID NAME:

\*\* NA \*\* THIS DATA FIELD IS NOT AFFECTED BY THIS CHANGE

REF NO.	(HEX) DEV SPEC INFO	DEV HARD COMP NO.	(HEX) FRAME SPEC INFO	EC REFERENCE	(HEX) SOFT COMP	(HEX) FRAME COMP	DESCRIPTION
	(†)		(‡)				
	00/00	00	00/00		00	00	INITIAL DATA.

(†) THE 4410 DIAGNOSTIC SYSTEMS FRU ENVIRONMENT DISPLAYS THIS AS TWO 8-BIT VALUES ("DEVICE SPECIFIC INFO 1" AND "DEVICE SPECIFIC INFO 2"). TO PREVENT CORRUPTION OF THE SUBFIELDS, THIS INFORMATION SHOULD ONLY BE MODIFIED BY THE COMMANDS DESCRIBED IN THE DESCRIPTION COLUMN.

(‡) AS ABOVE, BUT DISPLAYED AS "FRAME SPECIFIC INFO 1" AND "FRAME SPECIFIC INFO 2".

FRU NAME BACKPANEL REI LM  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME  
 DESCRIPTION W/WE/TESTED REI

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410331101	1	16578	00	00	NONE	INITIAL RELEASE.
*410331102	1	25133	00	00	NONE	CHANGE P/J 708 CONNECTOR GENDER ON MOTHERBOARD AND ON Z MOTOR POWER CABLE TO PREVENT MIS-PLUGGED CABLES CAUSING CARD FAILURES.
*410331103	2	19783	00	00	69568	ADD ADDITIONAL +5 VOLT LINES FROM MOTHERBOARD TO THE MS CARD TO BOOST THE +5 VOLT LEVEL. CONCURRENT WITH EC 19585, MS CARD LEVEL 410292202 (OR HIGHER) FB 69564. COMPANION EC 19871, FB 69569 (LS CARD) FB RELEASED MANDATORY.
*410331103	2	19892	00	00	NONE	EQUIVALENT TO 410331203.
*410331103	2	35594	00	00	NONE	UPWARD COMPATIBLE TO THE 104
*410331203	2	19892	00	00	NONE	INITIAL RELEASE OF IMBED. EQUIVALENT TO 410331103.
*410331203	2	35594	00	00	NONE	UPWARD COMPATIBLE TO THE 204
410331104	3	35594	01	00	NONE	CHANGE FRU CHIP TO CMOS. COMPATIBLE TO THE 204 LEVEL. PREREQ EC 29545. NOT DOWNWARD COMPATIBLE TO THE 103 LEVEL. EQUIVALENT TO 205 LEVEL.
*410331204	3	35594	01	00	NONE	CHANGE FRU IC TO CMOS. NOT DOWNWARD COMPATIBLE TO THE 203 LEVEL. PREREQ EC 29545. EQUIVALENT TO 104 LEVEL.

FRU NAME                   BACKPANEL REI LM  
 PRODUCT NUMBER       4410  
 FAMID CODE             004  
 FRUID NAME  
 DESCRIPTION            W/WE/TESTED REI

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
410331205	3	35992	00	00	NONE	MODIFIES THE REI BACKPANEL BY REPLACING A CONNECTOR & PINS WITH A PRE-LOADED CONNECTOR & PINS. CHANGE IS TRANSPARENT TO CUSTOMER MACHINES, BUT AFFECTS SPARES AND CURRENT DOCUMENTATION.
410331205	3	113028	00	00	NONE	COMPAT PAGES UPDATED TO REFLECT ORIGINAL INTENT.

FRU NAME BY CARD  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME BY BY/PWA  
 DESCRIPTION TEMPERATURE SENSOR

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*402884201	1	19041	00	00	NONE	INITIAL RELEASE.
*402884202	1	17303	00	00	NONE	ADD NEW REDESIGNED FUSE CLIPS.
402884203	1	19190	00	00	NONE	CORRECT BRACKET MOUNTING LOCATION.
402884203	1	29738	00	00	44336	FB 44336 RELEASED EXCEPTIONAL.

FRU NAME LN/PWA  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME  
 DESCRIPTION REACH/GRAP AMPS

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410256201	1	16619	FF	FF	NONE	INITIAL RELEASE.
*410256202	1	16949	FF	FF	NONE	NOISE STILL SETTING S/R LATCH, REACH AND FINGER. "I" TIME OUT TO SHORT FOR ALL POSSIBLE CONDITIONS.
*410256203	2	25061	FF	FF	NONE	GAIN CHANGE FOR REACH MOTOR CHANGE. CONCURRENT EC 16891.
*410256204	2	25176	FF	FF	NONE	CAP CHANGE BEMF.
*410256205	2	25207	FF	FF	NONE	CAP CHANGE.
*410256305	2	25057	FF	FF	NONE	INITIAL RELEASE OF IMBED.
*410256306	2	25282	FF	FF	NONE	AMP NOISE. FIX AT GATE Q8/Q9.
*410256306	2	19324	FF	FF	*92540	INITIAL RELEASE FB FOR FIELD MANDATORY UPGRADE.
*410256307	2	19409	FF	FF	*92587	BUFFER RESET INPUT, ADD CRASH SWITCH FILTER, CHANGE DBR RELAY CAPACITORS. FB RELEASED MANDATORY.
*410256308	2	19443	FF	FF	*43487	INCREASE CURRENT COMMAND TO MOTOR FROM 2.5 AMPS TO 4.0 AMPS. FB RELEASED MANDATORY.
*410256309	2	19513	FF	FF	43494	FILTER OUT NOISE OCCURRING ON QUICK INITIALIZATION FB RELEASED MANDATORY.
*410256310	2	19774	10	FF	NONE	DELETE FINGERS RELAY.
*410256311	2	27093	02	FF	NONE	REPLACE TACH PAL AND DAC. FB 43494 IS UPDATE ONLY.

FRU NAME LN/PWA  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME  
 DESCRIPTION REACH/GRAP AMPS

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410256312	2	27648	03	FF	NONE	ADD 1K PULL-UP TO ELIMINATE DOOR OPEN INITIALIZATION PROBLEM. CHANGE C21, C32 TO HIGHER VOLTAGE RATING TO IMPROVE RELIABILITY. FB 43494 UPDATE ONLY.
*410256312	2	27055	03	FF	NONE	EQUIVALENT TO 410256512.
*410256312	2	27648A	03	FF	43755	FB 43755 FIELD MANDATORY ONLY.
*410256312	2	28214B	13	FF	NONE	CHANGES SOFTWARE COMPAT. NUMBER FROM 03 TO 13. EQUIVALENT TO .....
*410256312	2	35589	13	FF	NONE	UPWARD COMPATIBLE TO THE 313
*410256412	2	27055	03	FF	NONE	PROTO ONLY.
*410256512	2	27055	03	FF	NONE	INITIAL RELEASE OF IMBED. EQUIVALENT TO 410256312. FB 43494 IS UPDATE ONLY.
*410256512	2	28214	13	FF	NONE	SOFTWARE COMPATIBILITY NUMBER CHANGED TO 13H TO ACCOMMODATE BOOT CODE.
*410256512	2	28214A	13	FF	NONE	COMPAT PAGE UPDATED IN SUFFIX TO REFLECT INTENT OF ORIGINAL EC.
*410256512	2	35589	13	FF	NONE	UPWARD COMPATIBLE TO THE 513.
*410256313	3	35589	14	FF	NONE	CHANGE FRU IC TO CMOS. NOT DOWNWARD COMPATIBLE TO THE 312 LEVEL. PREREQ EC 29545. EQUIVALENT TO 513 LEVEL.
410256314	3	113096	14	FF	NONE	REPALCE OBSOLETE PAL. EQUIVALENT TO 514.

FRU NAME LN/PWA  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME  
 DESCRIPTION REACH/GRAP AMPS

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410256513	3	35589	14	FF	NONE	CHANGE FRU IC TO CMOS/HDWR TO RIVET. NOT DOWNWARD COMPATIBLE TO THE 512 LEVEL. PREREQ EC 29545. EQUIVALENT TO 313 LEVEL.
410256514	3	113096	14	FF	NONE	REPALCE OBSOLETE PAL. EQUIVALENT TO 314.

FRU NAME LO CARD  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME LO LO/PWA  
 DESCRIPTION ROLL/LAMP AMPS

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410235201	1	16620	FF	FF	NONE	INITIAL RELEASE.
*410235202	1	16944	FF	FF	NONE	ADDRESS SELECT FIX.
*410235203	1	16990	FF	FF	NONE	CORRECT TACH NOISE PROBLEM. PAL CHANGES.
*410235204	1	25175	FF	FF	NONE	BEMF CIRCUIT CHANGES.
*410235304	1	25084	FF	FF	NONE	ENGINEERING PROTO BOARDS. NONE BUILT.
*410235405	1	25084	FF	FF	NONE	INITIAL RELEASE OF IMBED WITH REWORK.
*410235406	1	27580	FF	FF	*92502	DECOUPLE COMPARATOR INPUTS SO LAMPS ARE NOT SUSCEPTIBLE TO NOISE. FB RELEASED MANDATORY.
*410235407	1	19386	FF	FF	92582	BUFFER RESET INPUT, ADD FERRITE BEADS, CRASH SWITCH FILTERING. FB RELEASED MANDATORY. EQUIVALENT TO 410235607.
*410235507	1	27730	FF	FF	NONE	PROTO ONLY.
*410235607	1	25262	FF	FF	NONE	INITIAL RELEASE OF IMBED. CONTAINS RESET BUFFER, FERRITE BEADS, CRASH SWITCH FILTER REWORK. EQUIVALENT TO 410235407. FB 92582 UPDATE ONLY.
*410235408	1	19539	FF	FF	NONE	IMPROVE NOISE IMMUNITY. REDUCE PULL-UP RESISTOR VALUES REROUTE - RESET. EQUIVALENT TO 410235608. FB 92582 UPDATE ONLY.



FRU NAME LO CARD (CONT)  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME LO LO/PWA  
 DESCRIPTION ROLL/LAMP AMPS

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410235608	1	19539	FF	FF	NONE	IMPROVE NOISE IMMUNITY. REDUCE PULL-UP RESISTOR VALUES REROUTE - RESET. EQUIVALENT TO 410235408. FB 92582 UPDATE ONLY.
*410235409	1	27093	02	FF	NONE	REPLACE TACH PAL AND DAC.
*410235609	1	27093	02	FF	NONE	REPLACE TACH PAL AND DAC. FB 92582 IS UPDATE ONLY.
*410235410	1	27649	02	FF	NONE	CHANGE C21/C32 FROM 50 V TO 100 V RATING.
*410235610	1	27649	02	FF	NONE	CHANGE C21/C32 FROM 50 V TO 100 V RATING. FB 92582 UPDATE ONLY.
*410235411	1	27730	02	FF	NONE	INCREASE RESISTOR VALUE TO CUT POWER DISSIPATION AND CHANGE CAPACITORS TO AUTOINSERTABLE.
*410235411	1	27964	02	FF	NONE	EQUIVALENT TO 410235611/ 711.
*410235411	1	35590	02	FF	NONE	UPWARD COMPATIBLE TO THE 412
*410235611	1	27730	02	FF	NONE	INCREASE RESISTOR VALUE TO CUT POWER DISSIPATION AND CHANGE CAPACITORS TO AUTOINSERTABLE.
*410235611	1	27730A	02	FF	NONE	DESCRIPTIONS OF PREVIOUS EC 27730 CLARIFIED.
*410235611	1	27964	02	FF	NONE	EQUIVALENT TO 410235411/ 711.
*410235611	1	35590	02	FF	NONE	UPWARD COMPATIBLE TO THE 612

FRU NAME LO CARD (CONT)  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME LO LO/PWA  
 DESCRIPTION ROLL/LAMP AMPS

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410235711	1	27964	02	FF	NONE	INITIAL RELEASE OF 7XX IMBED TO ELIMINATE THE SOLE SOURCED PART. EQUIVALENT TO 410235411/611.
*410235711	1	35590	02	FF	NONE	UPWARD COMPATIBLE TO THE 712
*410235412	2	35590	03	FF	NONE	CHANGE FRU IC TO CMOS. NOT DOWNWARD COMPATIBLE WITH 411 LEVEL. PREREQ EC 29545.
*410235612	2	35590	03	FF	NONE	CHANGE FRU IC TO CMOS. NOT DOWNWARD COMPATIBLE WITH 611 LEVEL. PREREQ EC 29545.
*410235712	2	35590	03	FF	NONE	CHANGE FRU IC TO CMOS/HDWR TO RIVET. NOT DOWNWARD COMPATIBLE TO THE 711 LEVEL. PREREQ EC 29545.
410235413	2	113096	03	FF	NONE	REPLACE OBSOLETE PAL. EQUIVALENT TO 613/713.
410235613	2	113096	03	FF	NONE	REPLACE OBSOLETE PAL. EQUIVALENT TO 413/713.
410235713	2	113096	03	FF	NONE	REPLACE OBSOLETE PAL. EQUIVALENT TO 413/613.

FRU NAME            LS CARD  
 PRODUCT NUMBER    4410  
 FAMID CODE         004  
 FRUID NAME         LS LS/PWA  
 DESCRIPTION        POWER REGULATOR

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410118302	1	16547	FF	FF	NONE	INITIAL RELEASE.
*410118303	1	16996	FF	FF	NONE	CORRECT ID SIGNAL PIN-OUT. CORRECT POWER FAIL GLITCH.
*410118304	1	19871	FF	FF	69569	CHANGE 5 V OUTPUT TO 5.10 V IMPROVES SENSOR OPERATION. FB RELEASED MANDATORY. COMPANIONS: FB 69563 EC 19585 FB 69568 EC 19783
*410118304	1	27030	FF	FF	NONE	CHANGE WIRE GUAGE ON THE FLYBACK TRANSFORMER TO IMPROVE THE YIELD OF THE TRANSFORMERS.
*410118304	1	35593	FF	FF	NONE	UPWARD COMPATIBLE WITH 305 LEVEL.
410118305	2	35593	01	FF	NONE	CHANGE NMOS FRU ID CHIP TO CMOS FRU ID CHIP. CHANGE CONNECTOR HDWR TO RIVET. NOT DOWNWARD COMPATIBLE TO THE 304 LEVEL. PREREQ EC 29545.

FRU NAME LU/PWA  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME LSM CARD  
 DESCRIPTION REI/WRIST AMP

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410259201	1	16621	FF	FF	NONE	INITIAL RELEASE.
*410259202	1	16699	FF	FF	NONE	PARITY MOD & WRIST FILTER ADDITION.
*410259203	1	25023	FF	FF	NONE	ALLOW ONLY ONE DRIVER TO SOURCE PARITY DURING READ TIMES.
*410259204	1	25096	FF	FF	NONE	LAND CUT LEFT OUT OF PREVIOUS EC. CHANGE RESISTOR VALUES FOR VOLTAGE ADC.
*410259205	1	25098	FF	FF	NONE	ALLOW BEMF TO BE READ BACK THROUGH DIAGNOSTIC ADC. DISABLE BIT FOR RE WATCHDOG TIMER CONTROL THROUGHT SWITCH. EQUIVALENT TO 410259305.
*410259305	1	25098	FF	FF	NONE	INITIAL RELEASE OF IMBED. EQUIVALENT TO 410259205.
*410259306	1	17546	FF	FF	*92510	CORRECT ADC AND BEMF PROBLEM. FB RELEASED MANDATORY.
*410259307	1	19401	FF	FF	*43489	ADD FERRITE BEADS TO FETS, ADD CRASH STOP FILTER. (CHANGE ZENER + RESISTOR TO IMPROVE REGULATION.) FB RELEASED MANDATORY.
*410259308	1	19527	FF	FF	*43511	LATCH EDC SIGNAL BEFORE IT IS BUFFERED OFF CARD. FB RELEASED MANDATORY.
*410259308	1	19527A	FF	FF	*69476	FB CHANGED FROM REPLACE TO REWORK. FB 69476 RELEASED MANDATORY.

FRU NAME LU/PWA (CONT)  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME LSM CARD  
 DESCRIPTION REI/WRIST AMP

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410259308	1	19527B	FF	FF	*43511	FB REACTIVATED TO COMPLETE SHIPMENT FOR REMAINDER OF 306 TO 308 LVL. FB 43511 RELEASED EXCEPTIONAL.
*410259309	1	27093	02	FF	NONE	REPLACE TACH PAL AND DAC. FB 43511 UPDATE ONLY.
*410259310	1	27649	02	FF	NONE	CHANGE CK07/CK44 FROM 50 V TO 100 V RATING. FB 43511 UPDATE ONLY.
*410259311	1	28546	02	FF	*44075	ADD NOISE/GLITCH FILTER TO PREVENT POSSIBLE FALSE INTERRUPTS (FSC 9456). FBS 43511 AND 69476 UPDATE ONLY. FB 44075 RELEASED FIELD
*410259312	1	30642	02	FF	NONE	MODIFIES THE LU CARD REWORK TO PREVENT COMPONENT LEAD FROM TOUCHING CARD.
*410259312	1	27789A	02	FF	NONE	EQUIVALENT TO 410259513.
*410259312	1	35591	02	FF	NONE	UPWARD COMPATIBLE TO THE 313
*410259412	1	27789A	02	FF	NONE	PROTO ONLY.
*410259512	1	27789A	02	FF	NONE	INITIAL RELEASE OF IMBED.

FRU NAME LU/PWA (CONT)  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME LSM CARD  
 DESCRIPTION REI/WRIST AMP

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410259513	1	27789A	02	FF	NONE	ADD -12V REWORK AND SWAP TACH PHASE A AND B. EQUIVALENT TO 410259312.
*410259513	1	35591	02	FF	NONE	UPWARD COMPATIBLE TO THE 514
*410259313	2	35591	03	FF	NONE	CHANGE FRU IC TO CMOS. NOT DOWNWARD COMPATIBLE WITH THE 312 LEVEL. PREREQ EC 29545. EQUIVALENT TO 514 LEVEL.
*410259514	2	35591	03	FF	NONE	CHANGE FRU IC TO CMOS/HDWR TO RIVET. NOT DOWNWARD COMPATIBLE WITH THE 513 LEVEL. PREREQ EC 29545. EQUIVALENT TO 313 LEVEL.
410259314	2	113096	03	FF	NONE	REPLACE OBSOLETE PAL. EQUIVALENT TO 515.
410259515	2	113096	03	FF	NONE	REPLACE OBSOLETE PAL. EQUIVALENT TO 314.

FRU NAME LV/PWA  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME LV CARD  
 DESCRIPTION Z/AMP

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410230201	1	16622	FF	FF	NONE	INITIAL RELEASE.
*410230202	1	16951	FF	FF	NONE	244 - 373 SOCKET CONV.
*410230302	1	16955	FF	FF	NONE	INITIAL RELEASE OF IMBED.
*410230303	1	25179	FF	FF	*92481	CHANGE VALUES & CONFIGURATION OF BACK EMF CIRCUIT. FB RELEASED MANDATORY.
*410230304	1	19400	FF	FF	*92585	NOISE ON RESET FIX. IMPROVE REGULATION ON U76. ADD FERRITE BEADS ON FETS TO SUPPRESS OSCILLATION. FB RELEASED MANDATORY.
*410230305	1	19712	FF	FF	*69468	MODIFY WIRE CHOKE TO PROVIDE ADEQUATE FILTERING FB RELEASED MANDATORY
*410230305	1	19712A	FF	FF	*69482	CHANGE FI TO FIELD REWORK. FB RELEASED MANDATORY
*410230305	1	27288	FF	FF	69682	FI CLARIFICATION ONLY. NEW FB RELEASED.
*410230306	1	27160	02	FF	69682	REPLACE TACH PAL AND DAC. THIS CARD FUO. SPARE STATUS. THIS CARD WILL WORK WITH CHANNEL ASSY PN 410304105 OR LOWER.
*410908201	2	27160	03	FF	NONE	REWORK TO DRIVE BELT DRIVEN Z MECHANISM. ALSO REPLACE TACH PAL AND DAC. THIS CARD WILL WORK WITH LEADSCREW OR BELT DRIVEN MECHANISM. CONCURRENT EC: 19820

FRU NAME LV/PWA (CONT)  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME LV CARD  
 DESCRIPTION Z/AMP

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410230307	1	27649	02	FF	NONE	CHANGE C40 FROM 50 V TO 100 V RATING. SPARE STATUS.
*410230307	1	35592	02	FF	NONE	UPWARD COMPATIBLE TO THE 308
*410908202	2	27649	03	FF	NONE	CHANGE C40 FROM 50 V TO 100 V
*410908202	2	28147	03	FF	NONE	EQUIVALENT TO 410908302.
*410908202	2	28700B	03	FF	NONE	EQUIVALENT TO 410908303.
*410908202	2	35592	03	FF	NONE	UPWARD COMPATIBLE TO THE 203
*410908203	3	35592	04	FF	NONE	CHANGE FRU IC TO CMOS. NOT DOWNWARD COMPATIBLE TO THE 202 LEVEL. PREREQ EC 29545. EQUIVALENT TO 304 LEVEL.
410908204	3	113096	04	FF	NONE	REPLACE OBSOLETE PAL. EQUIVALENT TO 305.
*410908302	2	28147	03	FF	NONE	INITIAL RELEASE IMBED. SOFTWARE COMPATIBILITY = 03H. EQUIVALENT TO 410908202.
*410908302	2	28147A	03	FF	NONE	COMPAT NUMBER CORRECTED FOR ECS 27160, 27649 & 28147.
*410908303	2	28700	00	FF	NONE	CHANGE HOLE SZ FOR CR-50, CR 51 SO THAT COMPONENTS MAY BE AUTO INSERTED.
*410908303	2	28700B	03	FF	NONE	CORRECT SOFT REF TO SHOW ORIGINAL INTENT IN EC 28700. EQUIVALENT TO 410908202.



FRU NAME            LV/PWA (CONT)  
 PRODUCT NUMBER    4410  
 FAMID CODE         004  
 FRUID NAME         LV CARD  
 DESCRIPTION        Z/AMP

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410908303	2	35592	03	FF	NONE	UPWARD COMPATIBLE TO THE 304
*410908304	3	35592	04	FF	NONE	CHANGE FRU IC TO CMOS/HDWR TO RIVET. NOT DOWNWARD COMPATIBLE TO THE 303 LEVEL. PREREQ EC 29545. EQUIVALENT TO 203 LEVEL.
410908305	3	113096	04	FF	NONE	REPLACE OBSOLETE PAL. EQUIVALENT TO 204.
<b>*410230308</b>	3	35592	04	FF	NONE	CHANGE FRU IC TO CMOS. NOT DOWNWARD COMPATIBLE TO THE 307 LEVEL. PREREQ EC 29545. SPARE
<b>*410230308</b>	2	110241	03	FF	NONE	CORRECT COMPAT PAGE FOR 410230308/309. THE 410230308/309 CAN ONLY BE USED WITH (LEADSCREW)
<b>*410230308</b>	2	113028	03	FF	NONE	COMPAT PAGES UPDATED TO REFLECT ORIGINAL INTENT.
410230309	3	113096	04	FF	NONE	REPLACE OBSOLETE PAL. SPARE STATUS.
<b>410230309</b>	<b>2</b>	<b>110241</b>	<b>03</b>	<b>FF</b>	<b>NONE</b>	<b>CORRECT COMPAT PAGE FOR 410230308/309. THE 410230308/309 CAN ONLY BE USED WITH (LEADSCREW)</b>

FRU NAME MB CARD  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME MB MB/PWA  
 DESCRIPTION WRIST INTERFACE

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
410246201	1	16565	00	00	NONE	INITIAL RELEASE.
410246201	1	27382A	00	00	NONE	EQUIVALENT TO 410246301.
410246201	1	28662	00	00	NONE	EQUIVALENT TO 410246302.
410246201	1	28707	00	00	NONE	EQUIVALENT TO 410246302/ 503.
*410246301	1	27382	00	00	NONE	INITIAL RELEASE OF IMBED.
*410246301	1	27382A	00	00	NONE	EQUIVALENT TO 410246201.
410246302	1	28662	00	00	43970	ADDED KAPTON TAPE TO FEED THRU NEAR FRAME GROUNDED MOUNTING HOLE. EQUIVALENT TO 410246201. FB RELEASE EXCEPTIONAL.
410246302	1	28707	00	00	NONE	EQUIVALENT TO 410246503/ 201.
*410246403	1	28707	00	00	NONE	NONE BUILT.
410246503	1	28707	00	00	NONE	INITIAL RELEASE OF IMBED. REMOVES FEED-THRU NEAR FRAME GROUND. EQUIVALENT TO 410246201/302. FB 43970 UPDATE ONLY.

FRU NAME            MC CARD  
 PRODUCT NUMBER    4410 LSM  
 FAMID CODE         004  
 FRUID NAME         MC MC/PWA  
 DESCRIPTION        THETA SENSORS

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410255301	1	16677	00	00	NONE	INITIAL RELEASE.
410255402	1	25224	00	00	92485	INITIAL RELEASE OF IMBED. TO SUPPORT DBR CHANGE. DOWNWARD COMPATIBLE BUT 301 LEVEL NOT UPWARD COMPATIBLE. FB RELEASED MANDATORY.
410255402	1	27153	00	00	NONE	SPARE STATUS.
404239201	2	27153	00	00	NONE	REDESIGN NEW MC1 CARD FOR NEW DESIGN OF THETA STOP ASSEMBLY. CONCURRENT WITH NEW THETA STOP ASSEMBLY PN 410809101 PER EC 19827.
404239201	2	27680	00	00	NONE	DESCRIPTION OF PREVIOUS ECS 25224 & 27153 CLARIFIED. COMPATIBILITY NO. CORRECTED FOR THESE ECS.

FRU NAME MD CARD  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME MD MD/PWA  
 DESCRIPTION ROLL SENSORS

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410275201	1	16672	00	00	NONE	INITIAL RELEASE.
*410275201	1	19574	00	00	NONE	CHANGE SLOT SIZE FOR STRAIN
*410275202	1	19528	00	00	NONE	REACH MOTOR NOISE FIX.
*410275203	1	19833	00	00	NONE	ADD ADDITIONAL +5 VDC AND GROUND PINS INTO J775 AND J778 CONNECTORS TO REDUCE VOLTAGE DROP.
*410275203	1	28945	00	00	NONE	REPLACED BY 410275503 PER FB 44107.
*410275203	1	27383	00	00	NONE	EQUIVALENT TO 410275403.
*410275203	1	28022	00	00	NONE	EQUIVALENT TO 410275503.
*410275303	1	27383	00	00	NONE	PROTO ONLY.
*410275403	1	27383	00	00	NONE	INITIAL RELEASE OF IMBED. EQUIVALENT TO 410275203. NONE SHIPPED.
*410275503	1	28022	00	00	NONE	INITIAL RELEASE OF IMBED. REDESIGN OF BOARD SIZE TO ELIMINATE INTERFERENCE WITH HAND. EQUIVALENT TO 410275204.
*410275503	1	28945	00	00	*44107	FB 44107 RELEASED MANDATORY. REPLACES 410275203.
*410275503	1	28945B	00	00	NONE	FB 44107 CHANGED TO EXCEPTIONAL.
*410275204	1	28830	00	00	NONE	REWORK TO ADD EPOXY TO WIRES TO PREVENT CONTACT WITH FLAT CABLE. ALSO PREVENT CONTACT BETWEEN P777 AND J775 PINS. EQUIVALENT TO 410275403 AND 410275503.

FRU NAME MD CARD (CONT)  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME MD MD/PWA  
 DESCRIPTION ROLL SENSORS

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
410275504	1	29864	00	00	NONE	ADDED NOTE TO ASSEMBLY TO CLIP LEADS TO .030 INCH BEFORE WAVE SOLDER.

FRU NAME ME CARD  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME ME ME/PWA  
 DESCRIPTION Z/SENSOR I/F

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410253201	1	16588	00	00	NONE	INITIAL RELEASE.
410253202	1	16753	00	00	NONE	CHANGE SENSOR TO OPAQUE TYPE W/O MOUNTING EARS.
<b>410253202</b>	<b>1</b>	<b>29938</b>	<b>00</b>	<b>00</b>	<b>NONE</b>	<b>EQUIVALENT TO 410253302.</b>
<b>410253302</b>	<b>1</b>	<b>29938</b>	<b>00</b>	<b>00</b>	<b>NONE</b>	<b>EMBED. EQUIVALENT TO 410253202.</b>

FRU NAME MG  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME MG/PWA  
 DESCRIPTION ACCESS DOOR INTERLOCKS

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410180302	1	16631	00	00	NONE	INITIAL RELEASE.
*410180402	2	25041	00	00	NONE	INITIAL RELEASE OF IMBED. CONCURRENT ECS 25042 & 25043. PREREQUISITE EC 25040.
*411048301	3	30626	00	00	NONE	INITIAL RELEASE OF IMBED FOR ELECTICAL HBO. NONE BUILT.
*411048301	3	30626A	00	00	52543	FB 52543 RELEASED OPTIONAL.
*411048401	4	92076	00	00	NONE	INITIAL RELEASE OF IMBED FOR ELECTICAL HBO. FB UPDATE ONLY.
411048402	4	113094	00	00	NONE	ADD HARDWARE FOR SECURE BATTERY SEATING. FB UPDATE ONLY.

FRU NAME MK CARD  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME MK MK/PWA  
 DESCRIPTION REACH SENSOR I/F

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410267201	1	16595	00	00	NONE	INITIAL RELEASE.
*410267202	1	16755	00	00	NONE	CHANGE SENSOR TO OPAQUE TYPE W/O MOUNTING EARS
		25250	00	00	NONE	SPARE STATUS.
*410267303	2	25250	00	00	NONE	INITIAL RELEASE OF IMBED. IMPROVES MARGINS BETWEEN SAFE AND HOME SENSORS. REQUIRES NEW MOUNTING BRACKET, PN 4107874XX.
410267203	1	19833	00	00	NONE	ADD ADDITIONAL +5 VDC AND GROUND PINS INTO J783 CONNECTOR TO REDUCE VOLTAGE DROP. DOES NOT REQUIRE NEW MOUNTING BRACKET.
410267203	1	19833	00	00	NONE	SPARE STATUS.
410267304	2	19833	00	00	NONE	ADD ADDITIONAL +5 VDC AND GROUND PINS INTO J783 CONNECTOR TO REDUCE VOLTAGE DROP.
410267304	2	27384	00	00	NONE	EQUIVALENT TO 410267404.
410267404	2	27384	00	00	NONE	INITIAL RELEASE OF IMBED. EQUIVALENT TO 410267304.



FRU NAME MS CARD  
PRODUCT NUMBER 4410, 9310  
FAMID CODE 004  
FRUID NAME MS CARD  
DESCRIPTION PWA, MS

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
<b>410292302</b>	<b>1</b>	<b>28733</b>	<b>00</b>	<b>00</b>	<b>NONE</b>	<b>INITIAL RELEASE.</b>

FRU NAME MW CARD  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME MW/PWA  
 DESCRIPTION DUAL CAP SOLENOID DRIVER CARD

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*404514304	1	41536	00	00	NONE	CORRECTS PWB POWER PLANE PROBLEM.
*404514304	1	41552	00	00	NONE	EQUIVALENT TO 404514404.
*404514404	1	41552	00	00	NONE	RELEASES IMBED. EQUIVALENT TO 404514304.
404514305	1	41606	00	00	*52267	DELAYS ENABLE SIGNAL TO PROVIDE REQUIRED DELAY TIME BETWEEN LOCK/UNLOCK SIGNAL AND ENABLE SIGNAL. EQUIVALENT TO 404514405 /707. FIELD BILL RELEASED EXCEPTIONAL.
404514405	1	41606	00	00	*52267	DELAYS ENABLE SIGNAL TO PROVIDE REQUIRED DELAY TIME BETWEEN LOCK/UNLOCK SIGNAL AND ENABLE SIGNAL. EQUIVALENT TO 404514305 /707. FIELD BILL RELEASED EXCEPTIONAL.
404514405	1	57570	00	00	NONE	EQUIVALENT TO 404514606.
*404514606	1	57570	00	00	NONE	INITIAL RELEASE EMBED. EQUIVALENT TO 404514405.
*404514607	1	45946	00	00	52861	CHANGE FET R/C DELAYS TO ADD APPROXIMATELY 200 MICROSECONDS DELAY PROTECTION. EQUIVALENT TO 404514305 /405. FB RELEASED EXCEPTIONAL.
404514707	1	92075	00	00	NONE	INITIAL RELEASE IMBED. EQUIVALENT TO 404514305/405. FB UPDATE ONLY.
404514707	1	113028	00	00	NONE	COMPAT PAGE UPDATED TO REFLECT ORIGINAL INTENT.

FRU NAME MZ CARD  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME MZ MZ/PWA  
 DESCRIPTION PROCESSOR CARD

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*404536304	1	30549	00	00	NONE	ADD COUNTER REWORK TO SPARE STATUS.
*404536305	1	41550	00	00	NONE	REMAKE COUNTER REWORK.
*404536305	1	30679	00	00	NONE	EQUIVALENT TO 404536405.
*404536405	1	30679	00	00	NONE	INITIAL RELEASE OF EMBED. EQUIVALENT TO 404536305.
*404536306	1	35502	01	00	NONE	ADDS SWITCH TO TURN ON DISPLAY PANEL. EQUIVALENT TO 404536406.
*404536406	1	35502	01	00	NONE	ADDS SWITCH TO TURN ON DISPLAY PANEL. EQUIVALENT TO 404536306.
*404536307	1	35657	02	00	NONE	ADDS SOFTWARE CONTROL TO SWITCH LED. EQUIVALENT TO 404536407.
*404536407	1	35657	02	00	NONE	ADDS SOFTWARE CONTROL TO SWITCH LED. EQUIVALENT TO 404536307.
* 404536308	1	41604	02	00	NONE	BYPASS 14.3 MHZ BUFFER TO FIX THE UNSTABLE PIXEL ON DISPLAY. EQUIVALENT TO 404536408.
*404536408	1	41604	02	00	NONE	BYPASS 14.3 MHZ BUFFER TO FIX THE UNSTABLE PIXEL ON DISPLAY. EQUIVALENT TO 404536308.
*404536309	2	41605	02	00	*52244	ADD EMI FILTER TO PASS FCC TEST. EQUIVALENT TO 404536409. FB RELEASE EXCEPTIONAL. FOR SPARES, ORDER MZ SPARES KIT PN 411032501.

FRU NAME MZ CARD (CONT)  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME MZ MZ/PWA  
 DESCRIPTION PROCESSOR CARD

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*404536409	2	41605	02	00	*52244	ADD EMI FILTER TO PASS FCC TEST. EQUIVALENT TO 404536309. FB RELEASE EXCEPTIONAL. FOR SPARES, ORDER MZ SPARES KIT PN 411032501.
*404536309	2	41605A	02	00	52250	ADD WASHERS TO CARD TO PREVENT DAMAGE TO SURFACE MOUNT SOLDER JOINTS. EQUIVALENT TO 404536409. FB RELEASED EXCEPTIONAL. FOR SPARES, ORDER MZ SPARES KIT PN 411032502.
*404536409	2	41605A	02	00	52250	ADD WASHERS TO CARD TO PREVENT DAMAGE TO SURFACE MOUNT SOLDER JOINTS. EQUIVALENT TO 404536309. FB RELEASED EXCEPTIONAL. FOR SPARES, ORDER MZ SPARES KIT PN 411032502.
*404536310	2	35910	02	00	NONE	REMOVE WASHERS FROM CARD. EQUIVALENT TO 404536410. FB UPDATED. FOR SPARES, ORDER MZ SPARES KIT PN 411032503.
404536410	2	35910	02	00	NONE	REMOVE WASHERS FROM CARD. EQUIVALENT TO 404536310. FB UPDATED. FOR SPARES, ORDER MZ SPARES KIT PN 411032503.
404536410	2	41605B	02	00	NONE	CORRECTS SOFT REF AND HEX FEAT COLUMNS ERROR MADE IN EC 41605A.
404536410	2	35679A	02	00	NONE	EQUIVALENT TO 404536610/711.
*404536510	2	35679A	02	00	NONE	NONE BUILT.

FRU NAME MZ CARD (CONT)  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME MZ MZ/PWA  
 DESCRIPTION PROCESSOR CARD

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
404536610	2	35679A	02	00	NONE	INITIAL RELEASE OF M2 EMBED FOR SPARES. ORDER MZ SPARES KIT PN 411032503. EQUIVALENT TO 404536410/711.
404536711	2	35283	02	00	NONE	IMBED. EQUIVALENT TO 404536610/410.

FRU NAME            NA CARD  
 PRODUCT NUMBER    4410  
 FAMID CODE         004  
 FRUID NAME         NA NA/PWA  
 DESCRIPTION        CAP OP PANEL CARD

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
410234201	1	16610	00	00	NONE	INITIAL RELEASE.
410234201	1	30628	00	00	NONE	EQUIVALENT TO 410234301.
410234301	1	30628	00	00	NONE	INITIAL RELEASE IMBED TO PANELIZE. EQUIVALENT TO 410234201.

FRU NAME	ND CARD
PRODUCT NUMBER	4410
FAMID CODE	004
FRUID NAME	ND ND/PWA
DESCRIPTION	ENTRY INDICATOR

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
410640201	1	25042	00	00	NONE	INITIAL RELEASE. CONCURRENT ECS 25041 & 25043. PREREQUISITE EC 25040.
410640201	1	30629	00	00	NONE	EQUIVALENT TO 410640301.
410640301	1	30629	00	00	NONE	INITIAL RELEASE IMBED. EQUIVALENT TO 410640201.

FRU NAME LSM PLE1  
 PRODUCT NUMBER 9310  
 FAMID CODE 004  
 FRUID NAME  
 DESCRIPTION LED LIGHT SOURCE FOR VISION LEFT

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308405301	1	43530A	FF	FF	NONE	INITIAL RELEASE.
*308405302	2	41790	FF	FF	NONE	REMOVE ECD LED FROM PLE CARD ASSY.
*308405302	2	113141	FF	FF	NONE	EQUIVALENT TO 308776901.
*308776901	2	113141	FF	FF	NONE	ADD LIMIT RESISTORS TO REDUCE LED INTENSITY LEVEL BY 25%. EQUIVALENT TO 308405302.
*308849601	3	113002	FF	FF	NONE	RELEASE A LEFT AND RIGHT VERSION OF THE PLE. MUST BE USED AS A PAIR.
<b>*308849602</b>	3	110344	FF	FF	NONE	INITIAL RELEASE OF IMBED WITH DOCUMENTATION CHANGES AND INSTRUCTIONS. REDUCE LED INTENSITY.
<b>*308849603</b>	<b>3</b>	<b>35160</b>	<b>FF</b>	<b>FF</b>	<b>NONE</b>	<b>LED PART CHANGE.</b>
<b>308849604</b>	<b>3</b>	<b>140450</b>	<b>FF</b>	<b>FF</b>	<b>NONE</b>	<b>LED PART CHANGE.</b>
<b>308849604</b>	<b>3</b>	<b>140450A</b>	<b>FF</b>	<b>FF</b>	<b>NONE</b>	<b>BOM CORRECTION.</b>



FRU NAME            PLR CARD  
 PRODUCT NUMBER    9310  
 FAMID CODE         004  
 FRUID NAME         PLR PLR/PWA  
 DESCRIPTION        REI INTERFACETO PLS CARD

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308401401	1	43529A	FF	FF	NONE	INITIAL RELEASE PWA.
*308401402	1	43717	FF	FF	NONE	USE BNC CONNECTOR WITH
*308401403	1	43778	FF	FF	NONE	EDGE CONNECTOR HARDWARE
*308401504	1	43802	FF	FF	NONE	EMBED WITH POWER DOWN WRIST BRAKING RELAYS.
308401505	1	92175	FF	FF	NONE	REPLACE POLARIZED CAPS WITH LOWER VOLTAGE/EASIER TO DETERMINE POLARIZATION PARTS.
308401505	1	92175A	FF	FF	60379	F/B RELEASED MANDATORY FOR F/IS ONLY.

FRU NAME                    PLS MODULE  
 PRODUCT NUMBER        9310  
 FAMID CODE              004  
 FRUID NAME  
 DESCRIPTION              PLS MODULE ASSY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308408001	1	43675	00	00	NONE	INITIAL RELEASE.
*308408002	1	43692	00	00	NONE	NEW LATCH DESIGN.
*308408003	2	43712	01	01	NONE	CHANGE GAIN OF CURRENT SENSE AMPLIFIER FOR REACH. CONCURRENT EC 43716. PLS CARD LEVEL 308400610.
*308408004	2	43727	01	01	NONE	ADD WARNING LABEL TO MODULE. PLS CARD LEVEL 308400610.
*308408005	2	43783	01	01	52512	CHANGE SCALING RESISTOR TO PREVENT LOW VOLTAGE SHUT DOWN OF PLS CARD. PLS CARD LEVEL 308400611. FB RELEASED MANDATORY. EQUIVALENT TO 308408009 AND 308408010.
*308408005	2	43846	01	01	NONE	ADDED EQUIVALENT.
*308408006	2	43794	01	01	NONE	IMPROVED RELIABILITY OF FAN ASSY. FB UPDATE ONLY.
*308408006	2	43794A	01	01	NONE	COMPATIBILITY NUMBER AND FIELD BILL INFORMATION ADDED TO EC 43794.
*308408006	2	43794B	01	01	NONE	CLARIFICATION OF EC 43794A.
*308408007	2	43751A	01	01	NONE	INITIAL RELEASE OF IMBEDDED PLS CARD 308400712 WITH MANY FEATURE ENHANCEMENTS. FB UPDATE ONLY.

FRU NAME PLS MODULE (CONT)  
 PRODUCT NUMBER 9310  
 FAMID CODE 004  
 FRUID NAME  
 DESCRIPTION PLS MODULE ASSY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308408008	2	43801	01	01	NONE	REMOVE FEEDBACK CAPACITORS, CORRECT PAL AND CHANGE RESISTORS. FB UPDATE ONLY. PLS 308400713.
*308408008	2	43846	01	01	NONE	ADDED PLS CARD PN.
*308408009	2	43836	01	01	NONE	REMOVE GRATE UNDER FAN ASSEMBLY FOR ASSEMBLY PURPOSES. FB UPDATE ONLY. EQUIVALENT TO 308408010.
*308408010	2	43846	01	01	NONE	CHANGE RESISTORS FOR PART AVAILABILITY AND MARGIN IMPROVEMENT. PLS CARD 308400714. FB UPDATE ONLY. EQUIVALENT TO 308408009 AND 308408005.
*308408011	2	43836A	01	01	NONE	ALLOW USE OF 308400714 PLS CARD WITH GRATE UNDER FAN. FB UPDATE
*308408012	2	43836A	01	01	NONE	REMOVE GRATE UNDER FAN. FB UPDATE ONLY. PLS CARD IS 308400714.
*308408013	2	45943	01	01	NONE	REWORK PLS CARD TO IMPROVE MARGIN ON POWER UP. PLS CARD IS 308400612 /715. FB UPDATE ONLY.
*308408014	2	41934	01	01	NONE	REWORK PLS CARD TO FIX FRU ID READ ISSUE AT CONFIGURATION PLS CARDS ARE 308400613/716. FB UPDATE ONLY.
*308408014	2	92331	01	01	NONE	CORRECT REWORK ERROR. PLS CARDS ARE 308400614/716.

FRU NAME PLS MODULE (CONT)  
 PRODUCT NUMBER 9310  
 FAMID CODE 004  
 FRUID NAME  
 DESCRIPTION PLS MODULE ASSY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308408015	2	92376	01	01	NONE	FAN SENSE REFERENCE CHANGE. PLS CARDS ARE 308400614/717. FB UPDATE ONLY.
*308408016	2	92440	01	01	NONE	CHANGE CLOCK DRIVER CHIP FROM FO8 TO ACTQ08 TO QUIET NOISE PROBLEM. PLS CARDS ARE 308400614/718.
<b>*308408017</b>	2	43833	01	01	NONE	RELEASE EMBED OF THE PLS CARD. EMBED COVERS MANY NEW DESIGN CHANGES AND ENHANCEMENTS. PLS CARD IS 308490403 AND ITS EQUIVALENT IS 308400718.
<b>*308408017</b>	2	43833A	01	02	NONE	ROLL FEATURE BIT. PLS CARDS ARE 308490403 AND EQUIVALENT 308400718.
<b>*308408017</b>	2	43833B	01	02	NONE	CLARIFY HEX FEAT VALUE. HEX FEAT FOR PLS CARD 308400718 IS 01. HEX FEAT VALUE FOR PLS CARD 308490403 IS 02. PLS CARD IS 308490403 AND ITS EQUIVALENT IS 308400718.
<b>*308408017</b>	2	110145	01	02	NONE	EC 110112 INADVERTANTLY ROLLED. NO FORM, FIT OR FUNCTION CHANGE OCCURRED. NONE BUILT AT 18. REACTIVATE 17.
*308408018	2	110112	01	02	NONE	CHANGE FLATNESS AND RADII TO SUPPORT RAILS.
<b>308408019</b>	<b>2</b>	<b>111417</b>	<b>01</b>	<b>02</b>	<b>NONE</b>	<b>REDUCE SENSITIVITY OF TACH DIFFERENTIAL RECEIVERS BY PLACING CAPS ACROSS INPUTS ON PLS PWA.</b>

FRU NAME            PMC CARD  
 PRODUCT NUMBER    9310  
 FAMID CODE         004  
 FRUID NAME         PMC PMC/PWA  
 DESCRIPTION        THETA TACH AND SENSOR

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308423302	1	43506A	FF	FF	NONE	INITIAL RELEASE.
308423303	2	43827	FF	FF	NONE	SCALE RESISTOR TO PROVIDE PROPER +5 VOLT
308423303	2	41727	FF	FF	NONE	COMPATIBILITY NUMBER CHANGE. REPLACE ENTIRE THETA TURNS COUNTER ASSEMBLY IF THE EXISTING THETA TURNS COUNTER ASSEMBLY IS 308424003 OR LOWER. DETECTION

FRU NAME            BASE ASSEMBLY SMOKE DETECTOR  
 PRODUCT NUMBER    4410/9310  
 FAMID CODE         004  
 FRUID NAME         BASE ASSEMBLY SMOKE DETECTOR  
 DESCRIPTION        BASE ASSEMBLY SMOKE DETECTOR

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410273701	1	16519	00	00	NONE	INITIAL RELEASE.
*410273702	1	25155	00	00	NONE	REMOVE RESISTOR.
*410273703	1	57958	00	00	NONE	NEW BASE ASSEMBLY RELEASED FOR PHOTO-ELECTRIC SMOKE DETECTORS.
410273704	1	57958B	00	00	NONE	UPDATE DWGS TO REFLECT VENDOR CHANGES.

FRU NAME BEARING KIT  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME BEARING KIT  
 DESCRIPTION TOP/BOTTOM PLATE BEARING KIT

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410638501	1	25035	00	00	NONE	INITIAL RELEASE.
410638502	1	16991A	00	00	NONE	CHANGE TO SHIELDED BEARING.
410638502	1	19820	00	00	NONE	SPARE STATUS.

FRU NAME BELT SLIDE  
PRODUCT NUMBER 4410  
FAMID CODE 004  
FRUID NAME BELT SLIDE  
DESCRIPTION BELT SLIDE

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
410812901	1	27461	00	00	NONE	INITIAL RELEASE.



FRU NAME BELT, Z  
PRODUCT NUMBER 9310  
FAMID CODE 004  
FRUID NAME  
DESCRIPTION Z BELT

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308410601	1	43527	00	00	NONE	INITIAL RELEASE.
308410602	1	43604	00	00	NONE	OPEN TOLERANCE RANGE.

FRU NAME LSM BULB LIGHT PRECISE  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME  
 DESCRIPTION BULB LIGHT PRECISE

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
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410313101	1	16503A	00	00	NONE	INITIAL RELEASE (SYLVANIA BULB).
		19781B	00	00	NONE	SPARE STATUS.
*410802301	2	19781	00	00	NONE	INITIAL RELEASE OF GE BULB THAT HAS FILAMENT CENTERED INSIDE THE REFLECTOR.
*410802301	2	19781A	00	00	NONE	DESCRIPTION OF PREVIOUS ECS CLARIFIED.
*410802301	2	19781B	00	00	NONE	GE LAMPS REQUIRE 2.1 LSM MICROCODE, EC 27157, FB 69649. CODE LEVELS LESS THAN 2.1 LSM CODE REQUIRE THE USE OF BLUE DOT SYLVANIA LAMPS FOR VISION SYSTEM.
10079034		35161	XX	XX	NONE	HALOGEN LAMP DESIGN CHANGE DOUBLED IN INTENSITY. REPLACE WITH 10079034; 410802301 IS INACTIVATED.

FRU NAME BULB BLUE DOT  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME BULB BLUE DOT  
 DESCRIPTION BULB BLUE DOT FUO

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410815901	1	19856	00	00	NONE	INITIAL RELEASE.
*410815901	1	19781	00	00	NONE	REFERENCE PRECISE LIGHT BULB, PN 410802300.
410815901	1	19781B	00	00	NONE	CODE LEVELS LESS THAN 2.1 LSM CODE REQUIRE THE USE OF BLUE DOT SYLVANIA LAMPS FOR VISION SYSTEM. SPARE STATUS.

FRU NAME CABLE ASSEMBLY ACCESS DOOR  
 PRODUCT NUMBER 4410/9310  
 FAMID CODE 004  
 FRUID NAME  
 DESCRIPTION CABLE ASSEMBLY ACCESS DOOR

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410647801	1	25043	00	00	NONE	INITIAL RELEASE.
*410647802	1	25196	00	00	NONE	CHANGE RAW CABLE TO UL2464/CSZ AWM. CHANGE CONNECTOR TO 6 PIN.
*410647803	1	29655	00	00	NONE	RELEASES GOLD CONTACT SWITCHES TO AVOID INTERMITTENT FAILURES.
410647804	1	110229	00	00	NONE	MOVE P878 BREAKOUT.

FRU NAME CABLE ASSY, INTERLOCK, DOOR  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME CABLE ASSY, INTERLOCK DOOR  
 DESCRIPTION CABLE ASSY, INTERLOCK DOOR

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*404591501	1	29547	00	00	NONE	INITIAL RELEASE.
404591502	1	57730	00	00	NONE	HEAVIER INSULATION ADDED TO INCREASE STRAIN RELIEF.

FRU NAME 4410 CABLE ASSEMBLY  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME CABLE ASSEMBLY COAX T/T  
 DESCRIPTION CABLE ASSEMBLY COAX T/T FLEX 0

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410307302	1	16511	00	00	NONE	INITIAL RELEASE.
*410307303	1	16768	00	00	NONE	RELEASE MORE SECURE CLAMPS.
*410307304	1	19428	00	00	NONE	ADD STRAIN RELIEF GROMMETS AND MACHINED CLAMPS AND BRACKET TO TURNTABLE COAX CABLES TO PREVENT CABLE FROM BREAKING.
410307305	1	35856	00	00	NONE	ADD OVERMOLD STRAIN RELIEF TO PREVENT WIRE FROM BEING PULLED FREE. FB 69

FRU NAME 4410 CABLE ASSEMBLY  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME CABLE ASSEMBLY COAX T/T  
 DESCRIPTION CABLE ASSEMBLY COAX T/T FLEX1

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410324001	1	16511	00	00	NONE	INITIAL RELEASE.
*410324002	1	16768	00	00	NONE	RELEASE MORE SECURE CLAMPS.
*410324003	1	19428	00	00	NONE	ADD STRAIN RELIEF GROMMETS AND MACHINED CLAMPS AND BRACKET TO TURNTABLE COAX CABLES TO PREVENT CABLE FROM BREAKING.
410324004		35856	00	00	NONE	ADD OVERMOLD STRAIN RELIEF TO PREVENT WIRE FROM BEING PULLED FREE.

FRU NAME 4410 CABLE Z 0  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME CABLE Z/0  
 DESCRIPTION CABLE ASSEMBLY COAX ZFLEX/0

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410648001	1	25072	00	00	NONE	INITIAL RELEASE.
		19641A	00	00	NONE	SPARE STATUS.
*410648002	1	19641	00	00	*43551	ADD STRAIN RELIEF GROMMETS AND CHANGE CLAMPS AND BRACKETS TO PREVENT Z FLEX LOOP COAX VIDEO CABLES FROM BREAKING AT STRAIN RELIEF POINTS.
*410648002	1	27370	00	00	69724	ADDS SHRINK TUBING TO CLAMPS AND TAPE TO CABLES TO PREVENT CUTTING INTO CABLE INSULATION.
410648003	1	35856	00	00	NONE	ADD OVERMOLD STRAIN RELIEF TO PREVENT WIRE FROM BEING PULLED FREE. FB 69724 UPDATE ONLY.



FRU NAME 4410 CABLE Z 1  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME CABLE Z/1  
 DESCRIPTION CABLE ASSEMBLY COAX ZFLEX/1

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410648101	1	25072	00	00	NONE	INITIAL RELEASE.
*410648101	1	19641A	00	00	NONE	SPARE STATUS.
*410648102	1	19641	00	00	*43551	ADD STRAIN RELIEF GROMMETS AND CHANGE CLAMPS AND BRACKETS TO PREVENT Z FLEX LOOP COAX VIDEO CABLES FROM BREAKING AT STRAIN RELIEF POINTS.
*410648102	1	27370	00	00	69724	ADDS SHRINK TUBING TO CLAMPS AND TAPE TO CABLES TO PREVENT CUTTING INTO INSULATION.
410648103	1	35856	00	00	NONE	ADD OVERMOLD STRAIN RELIEF TO PREVENT WIRE FROM BEING PULLED FREE. FB 69724 UPDATE ONLY.

FRU NAME CABLE ASSEMBLY FAN DC REI  
PRODUCT NUMBER 4410  
FAMID CODE 004  
FRUID NAME CABLE ASSEMBLY FAN DC REI  
DESCRIPTION CABLE ASSEMBLY FAN DC REI

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
410261101	1	16529A	00	00	NONE	INITIAL RELEASE.

FRU NAME CABLE ASSEMBLY OPT SENSOR 5INCH  
PRODUCT NUMBER 4410/9310  
FAMID CODE 004  
FRUID NAME CABLE ASSEMBLY OPT SENSOR  
DESCRIPTION CABLE ASSEMBLY OPT SENSOR 5INCH

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
410272602	1	16738	00	00	NONE	INITIAL RELEASE.

FRU NAME CABLE ASSEMBLY OPT SENSORS  
PRODUCT NUMBER 4410  
FAMID CODE 004  
FRUID NAME CABLE ASSEMBLY OPT SENSORS  
DESCRIPTION CABLE ASSEMBLY OPT SENSORS ROLL

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
410270903	1	16738	00	00	NONE	INITIAL RELEASE.

FRU NAME CABLE ASSEMBLY OPT SENSORS  
PRODUCT NUMBER 4410  
FAMID CODE 004  
FRUID NAME CABLE ASSEMBLY OPT SENSORS  
DESCRIPTION CABLE ASSEMBLY OPT SENSORS THETA HOME

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
410165502	1	16738	00	00	NONE	INITIAL RELEASE.

FRU NAME CABLE ASSEMBLY PROX SENSOR  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME CABLE ASSEMBLY PROX SENSOR  
 DESCRIPTION CABLE ASSEMBLY PROX SENSOR

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410287805	1	25043	00	00	NONE	INITIAL RELEASE.
*410287805	1	35517	00	00	NONE	REPLACED BY PART NUMBER 4110261-00 AND 4110259-00.

FRU NAME CABLE ASSEMBLY ROLL FLAT FLEX  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME CABLE ASSEMBLY ROLL FLAT FLEX  
 DESCRIPTION CABLE ASSEMBLY ROLL FLAT FLEX

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410166302	1	16501B	00	00	NONE	INITIAL RELEASE.
410166303	1	29280	00	00	44209	ADDS VELCRO HOOKS TO TRAP THE COAX CABLE UNDER FLAT CABLE TO PREVENT CATCHING ON ARRAYS. FB RELEASED MANDATORY.

FRU NAME CABLE ASSEMBLY COAX ROLL FLEX  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME CABLE ASSEMBLY COAX ROLL FLEX  
 DESCRIPTION CABLE ASSEMBLY COAX ROLL FLEX

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410307101	1	16501	00	00	NONE	INITIAL RELEASE.
*410307102	1	19574	00	00	43541	ADD STRAIN RELIEF RUBBER GROMMETS. FB REL MANDATORY. COMPANION EC 19428. FB 43537.
410307103	1	35856	00	00	NONE	ADD OVERMOLD STRAIN RELIEF TO PREVENT WIRE FROM BEING PULLED FREE. FB 43541 UPDATE ONLY.



FRU NAME LSM CABLE ASSEMBLY SOLENOID  
 PRODUCT NUMBER 4410/9310  
 FAMID CODE 004  
 FRUID NAME  
 DESCRIPTION CABLE ASSEMBLY SOLENOID CAP LOCKED

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410281403	1	25045A	00	00	NONE	INITIAL RELEASE.
*410281404	1	28098	00	00	*43818	CAP LOCK SOLENOID JAMS IF CAP IS OPENED BEFORE SOLENOID UNLOCKS. CAP ABUSE IN THIS CONDITION CAN BEND SOLENOID SHAFT. RE-POSITION THE SOLENOID TO SHORTEN BENDING MOMENT ARM. FIELD BILL RELEASED MANDATORY.
*410281404	1	28098A	00	00	NONE	DESCRIPTION OF PREVIOUS EC CLARIFIED.
*410281404	1	35517	00	00	NONE	TO SPARE STATUS. FOR USE ON ASSEMBLY 4102839-00 ONLY.

FRU NAME CABLE Z ASSEMBLY  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME CABLE Z/ASSEMBLY  
 DESCRIPTION CABLE Z/ASSEMBLY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410317902	1	16975	00	00	NONE	INITIAL RELEASE.
*410317903	1	19641	00	00	*43551	ADD STRAIN RELIEF GROMMETS TO Z COAX CABLES AND CHANGE CABLE CLAMPS AND BRACKETS TO AVOID BREAKING. FB RELEASE MANDATORY.
*410317903	1	27370	00	00	69724	FB 69724 REPLACES 43551 PER EC 27370. FB RELEASED MANDATORY.
*410317904	1	27370	00	00	69720	CHANGE FLEX CABLE CLAMP TO INSULATED CLAMP ASSEMBLY. FB RELEASE MANDATORY.
*410317904	1	27370A	00	00	NONE	DESCRIPTION AND FB NUMBER OF PREVIOUS EC CLARIFIED.
*410317905	1	27950	00	00	43757	CHANGE COAX PLASTIC CABLE CLIP TO VELCRO TO AVOID CUTTING COAX CABLES. FB RELEASED MANDATORY.
410317906	1	35748	00	00	NONE	ADD KAPTON TAPE TO COVER VELCRO TO PREVENT IT FROM CATCHING ON Z-ARM.

FRU NAME CABLE ASSY, Z MOTOR ENCODER  
 PRODUCT NUMBER 9310  
 FAMID CODE 004  
 FRUID NAME  
 DESCRIPTION CABLE ASSY, Z MOTOR ENCODER

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308430901	1	43581	00	00	NONE	INITIAL RELEASE.
*308430902	1	43725	00	00	NONE	SHORTEN CABLE.
<b>308430903</b>	<b>1</b>	<b>140832</b>	<b>00</b>	<b>00</b>	<b>NONE</b>	<b>REDESIGN DUE TO OBSOLETE CONNECTOR.</b>

FRU NAME CABLE ASSY, Z MOTOR POWER  
PRODUCT NUMBER 9310  
FAMID CODE 004  
FRUID NAME  
DESCRIPTION CABLE ASSY, Z MOTOR POWER

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308430101	1	43581	00	00	NONE	INITIAL RELEASE.
308430102	1	43725	00	00	NONE	SHORTEN CABLE.

FRU NAME CABLE ASSEMBLY Z SENSOR/TACH  
PRODUCT NUMBER 4410  
FAMID CODE 004  
FRUID NAME CABLE ASSEMBLY/Z SENSOR/TACH  
DESCRIPTION CABLE ASSEMBLY/Z SENSOR/TACH

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
410852401	1	27461	00	00	NONE	INITIAL RELEASE.

FRU NAME CABLE ASSEMBLY Z TO TURNTABLE  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME CABLE ASSEMBLY/Z TO TURNTABLE  
 DESCRIPTION CABLE ASSEMBLY/Z TO TURNTABLE

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410622701	1	25035	00	00	NONE	INITIAL RELEASE.
*410622702	1	19428	00	00	*43537	ADDED COAX STRAIN RELIEF BOOTS. FB RELEASE MANDATORY COMPANION EC 19574 FB 43541.
*410622702	1	27370	00	00	69726	FB 69726 REPLACES 43537 PER EC 27370. FB RELEASED MANDATORY.
*410622703	1	27370	00	00	69720	CHANGE FLEX CABLE CLAMP TO INSULATED CLAMP ASSEMBLY. FB RELEASE MANDATORY.
*410622703	1	27370A	00	00	NONE	DESCRIPTION AND FB NUMBER OF PREVIOUS EC CLARIFIED.
410622704	1	27950	00	00	43757	CHANGE COAX PLASTIC CABLE CLIP TO VELCRO TO AVOID CUTTING COAX CABLES. FB RELEASED MANDATORY.

FRU NAME CABLE CONNECTION ASSEMBLY  
PRODUCT NUMBER 4410/9310  
FAMID CODE 004  
FRUID NAME CABLE CONNECTION ASSEMBLY  
DESCRIPTION CABLE CONNECTION ASSEMBLY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
404612101	1	29655	00	00	NONE	INITIAL RELEASE.

FRU NAME CABLE, DC POWER, MZ CARD  
 PRODUCT NUMBER 4410/9310  
 FAMID CODE 004  
 FRUID NAME CABLE, DC POWER, MZ CARD  
 DESCRIPTION CABLE, DC POWER, MZ CARD

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*404558702	1	41504	00	00	NONE	CABLE CHANGE.
*404558703	1	41581	00	00	NONE	CHANGE TO APPROPRIATE BREAKOUT AND UPGRADE CONNECTOR FOR P901.
404558704	1	41618	00	00	NONE	EXTEND SPIRAL WRAP TUBING TO PREVENT DAMAGE TO CABLE.



FRU NAME CABLE ASSEMBLY, MW, CAP EXTRUSION  
 PRODUCT NUMBER 4410/9310  
 FAMID CODE 004  
 FRUID NAME CABLE ASSEMBLY, MW, CAP EXTRUSION  
 DESCRIPTION CABLE ASSEMBLY, MW, CAP EXTRUSION

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*404631303	1	41539	00	00	NONE	MODIFIED CABLE BRACKETS TO INCLUDE TENSION SPRING.
*404631304	1	41607	00	00	NONE	ADDS HEAT SHRINK TO CAP CABLES TO IMPROVE AXIAL SPRING ASSEMBLY GRIP. CHANGES TO NEW TIE WRAP.
404631305	1	41625	00	00	NONE	REDUCED DIAMETER OF CABLE TO ALLOW SLIDING COLLAR TO MOVE.

FRU NAME CABLE ASSEMBLY, MW, CAP 1, EXTRUSION  
 PRODUCT NUMBER 4410/9310  
 FAMID CODE 004  
 FRUID NAME CABLE ASSEMBLY, MW, CAP 1, EXTRUSION  
 DESCRIPTION CABLE ASSEMBLY, MW, CAP 1, EXTRUSION

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*404632901	1	41539	00	00	NONE	INITIAL RELEASE.
*404632902	1	41607	00	00	NONE	ADDS HEAT SHRINK TO CAP CABLES TO IMPROVE AXIAL SPRING ASSEMBLY GRIP. CHANGES TO NEW TIE WRAP.
404632903	1	41625	00	00	NONE	REDUCED DIAMETER OF CABLE TO ALLOW SLIDING COLLAR TO MOVE.

FRU NAME CAMERA ASSEMBLY  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME CAMERA ASSEMBLY  
 DESCRIPTION CAMERA ASSEMBLY, TEST FRU

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410311701	1	16501	00	00	NONE	INITIAL RELEASE.
*410311702	1	19307	00	00	*92569	ADDED CALIBRATION PROCEDURE. FB RELEASED MANDATORY.
*404648401	1	29933	00	00	*44393	RELEASE NEW TOP LEVEL CAMERA ASSEMBLY TO INCLUDE ESS TESTING, SERIALIZATION, AND FOCUSING. FB RELEASED EXCEPTIONAL.
*404648401	1	30519	00	00	*52030	QUANTITY CORRECTION OF CAMERA ASSEMBLY ON FB. FB RELEASED EXCEPTIONAL.
*404648401	1	30710		00	52106	RELEASE FB FOR INSPECTION REQUIREMENT OF SONY CAMERA WITHOUT LENS CLAMP QUANTITY. FB RELEASED FIELD EXCEPTIONAL.
*404648401	1	30710		00	52103 52104	RELEASE FB FOR SONY CAMERA WITHOUT LENS CLAMP REPLACE. FB RELEASED EXCEPTIONAL.
*404648402	1	30744	00	00	NONE	MODIFIES MINIMUM ILLUMINATION PROCEDURE AND ADDS ELECTRICAL FOCUS PROCEDURES ON CAMERAS.
404648403	1	35957	00	00	NONE	MODIFIES GAIN, WHITE CLIP, AND GAMMA ADJUSTMENTS FOR OPTIMUM READABILITY ON THE CAMERAS.

FRU NAME 9310 LSM CAMERA ASSEMBLY  
 PRODUCT NUMBER 9310  
 FAMID CODE 004  
 FRUID NAME  
 DESCRIPTION CAMERA ASSEMBLY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308475901	1	43769	00	00	NONE	INITIAL RELEASE.
*411225901	1	43978	00	00	NONE	INITIAL RELEASE.
*411225902	2	41775	00	00	NONE	CHANGE TO MANUAL GAIN CAMERAS. ADD TI VENDOR TO SYSTEM.
411225903	2	113107	00	00	NONE	TIGHTEN GAIN AND FOCUS SPECIFICATION FOR CAMERA.

FRU NAME           CAP CAM FOLLOWER  
PRODUCT NUMBER   4410  
FAMID CODE         004  
FRUID NAME         CAP CAM FOLLOWER  
DESCRIPTION         CAP CAM FOLLOWER

PART	COMP	SOFT	HEX	FIELD		
NUMBER	NO	EC NO	REF	FEAT	BILL	DESCRIPTION OF EC

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*410638501	1	25035	00	00	NONE	INITIAL RELEASE.
410638502	1	16991A	00	00	NONE	CHANGE TO SHIELDED BEARING.
410638502	1	19820	00	00	NONE	SPARE STATUS.

FRU NAME            COUNTERWEIGHT BEARING KIT  
 PRODUCT NUMBER    4410  
 FAMID CODE         004  
 FRUID NAME         COUNTER WEIGHT BEARING KIT  
 DESCRIPTION        COUNTER WEIGHT PLATE BEARING KIT

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
410638601	1	25035	00	00	NONE	INITIAL RELEASE.

FRU NAME COUNTERWEIGHT CABLE  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME  
 DESCRIPTION COUNTERWEIGHT CABLE

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410647401	1	25035	00	00	NONE	INITIAL RELEASE.
410647402	1	35852	00	00	NONE	PART NUMBER ROLLED FOR TRACKABILITY OF COUNTERWEIGHT CABLE. FB 52237 IS FOR REPLACEMENT OF COUNTERWEIGHT CABLE ONLY. KIT IS BEING REWORKED TO INCLUDE NEW CABLE PN 410121805. SPARE STATUS.
410647402	1	113028	00	00	NONE	COMPAT PAGE UPDATED TO REFLECT ORIGINAL INTENT.

FRU NAME COUNTERWEIGHT PULLEY ASSEMBLY  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME COUNTER WEIGHT PULLEY ASSEMBLY  
 DESCRIPTION COUNTER WEIGHT PULLEY ASSEMBLY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410222602	1	25122	00	00	NONE	INITIAL RELEASE.
*410222603	1	25206	00	00	NONE	ADD BEARING PRELOAD WASHER.
410222604	1	19741	00	00	NONE	CHANGE METHOD OF ATTACHMENT OF PULLEY TO SHAFT.
410222604	1	19820	00	00	NONE	SPARE STATUS.



FRU NAME            DETECTOR SMOKE  
 PRODUCT NUMBER    4410/9310  
 FAMID CODE         004  
 FRUID NAME         DETECTOR SMOKE  
 DESCRIPTION        DETECTOR SMOKE IONIZATION

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410273402	1	16519A	00	00	NONE	INITIAL RELEASE.
*410273403	1	29193	00	00	NONE	REPLACES THE IONIZATION SMOKE DETECTOR WITH A NEW MODEL.
*410273403	1	57958	00	00	NONE	STOP USAGE OF IONIZATION SMOKE DETECTOR.

FRU NAME            DETECTOR SMOKE  
 PRODUCT NUMBER    4410  
 FAMID CODE         004  
 FRUID NAME         DETECTOR SMOKE  
 DESCRIPTION         DETECTOR SMOKE PHOTO ELECTRIC

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410273302	1	16519A	00	00	NONE	INITIAL RELEASE.
410273303	1	28384	00	00	NONE	DESIGN CHANGE TO MEET SUPPLIER NEEDS.

FRU NAME            DISPLAY, CC80  
 PRODUCT NUMBER   4410/9310  
 FAMID CODE        004  
 FRUID NAME        DISPLAY, CC80, 640 X 200  
 DESCRIPTION       DISPLAY, CC80, 640 X 200

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
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10069122	1	25687	00	00	NONE	INITIAL RELEASE.
10069182	1	38615	00	00	NONE	INITIAL RELEASE. PN 10069122 DISCONTINUED BY MANUFACTURER. PN 10069182 IS REPLACEMENT.
10069182	1	41614	00	00	NONE	INITIAL RELEASE OF PARTS KIT REQUIRED FOR FIELD REPLACEMENT OF PN 10069122, DISPLAY PANEL. USE DISPLAY REPLACE KIT FUO, PN 4110759-00, THE FIRST TIME THE DISPLAY PANEL IS REPLACED WITH PN 10069182.
10069182	1	57636	00	00	NONE	CORRECTED PART NUMBER CALLOUT IN PREVIOUS PARAGRAPH TO READ 4110759-00 TO AVOID OVER LOOKING WHEN PART NUMBER ROLLS.
10069182	1	57957	00	00	52598	RELEASE EXCEPTIONAL FIELD BILL FOR DISPLAY REPLACEMENT.

FRU NAME EPO CONTACT BLOCK  
PRODUCT NUMBER 4410/9310  
FAMID CODE 004  
FRUID NAME EPO CONTACT BLOCK  
DESCRIPTION EPO CONTACT BLOCK

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
410296801	1	16504	00	00	NONE	INITIAL RELEASE.

FRU NAME PLS LSM FAN ASSY  
 PRODUCT NUMBER 9310  
 FAMID CODE 004  
 FRUID NAME FAN  
 DESCRIPTION PLS FAN ASSY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308408401	1	43599	00	00	NONE	INITIAL RELEASE.
*308408402	1	43794	00	00	NONE	IMPROVED RELIABILITY OF FAN.
*308408402	1	43794A	00	00	NONE	COMPATIBILITY NUMBER ADDED TO EC 43794.
*308408402	1	43794B	00	00	NONE	CLARIFICATION OF EC 43794A.
308408403	1	92058	00	00	NONE	CHANGE FAN VENDORS.

FRU NAME FLEX ASSY, TRANSPORT  
 PRODUCT NUMBER 9310  
 FAMID CODE 004  
 FRUID NAME  
 DESCRIPTION FLEX, TRANSPORT ASSY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308416505	1	43636A	00	00	NONE	REFINED ADHESIVE APPLICATION.
*308416506	1	43716	00	00	NONE	ADD SLOTS IN FLEX FOR IMPROVED GROUND CONDUCTIVITY.
*308416507	1	43722	00	00	NONE	ADDED 1K RESISTORS.
*308416508	1	43803	00	00	NONE	CHANGED ADHESIVE ON STRAIN RELIEF BOARD.
*308416509	1	43835	00	00	NONE	CHANGE CONNECTOR TO GOLD PLATED CONTACTS.
*308416510	1	43858	00	00	NONE	REDESIGN FLEX CONNECTION SYSTEM. REDESIGNED & REPLACED BY PN 308457501. SEE PAGE 4-33.2.1 FOR REFERENCE.

FRU NAME FLEX/PWA  
 PRODUCT NUMBER 9310  
 FAMID CODE 004  
 FRUID NAME FLEX  
 DESCRIPTION FLEX, TRANSPORT ASSY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308457501	1	43849	00	00	NONE	INITIAL RELEASE.
*308457502	1	41857	00	00	NONE	RELEASED A SCHEMATIC, MODIFIED FOAM RESTRAINT AND REMOVED SHARP CORNER FROM BRACKET.
*308457502	1	92166	00	00	NONE	NEW FAMILY PN RELEASED TO REFLECT STD DIN CONNECTOR CHANGE. SEE PN 308497401 ON PAGE 4-33.4.

FRU NAME FLEX  
 PRODUCT NUMBER 9310  
 FAMID CODE 004  
 FRUID NAME FLEX  
 DESCRIPTION FLEX, TRANSPORT ASSY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
<b>*308497401</b>	1	92166	00	00	NONE	INITIAL RELEASE.
<b>*308497401</b>	1	92166A	00	00	NONE	MISCELLANEOUS DRAWING CHANGES AND COMPAT CLARIFICATION. 1. ORDER P/N 411295900, TURNTABLE/TRANSPORT ASSY, IF PRESENT TRANSPORT FLEX IS P/N 308416500. 2. ORDER TRANSPORT FLEX AND P/N 308469200, TURNTABLE ASSY, IF PRESENT TRANSPORT FLEX IS P/N 308457500.
<b>*308497401</b>	1	92166C	00	00	NONE	F/B WAS ON COMPAT PAGE IN ERROR
<b>308497402</b>	<b>1</b>	<b>35235</b>	<b>00</b>	<b>00</b>	<b>NONE</b>	<b>CHANGE FOR EASE OF MANUFACTURABILITY.</b>



FRU NAME FLEX ASSY, Z  
 PRODUCT NUMBER 9310  
 FAMID CODE 004  
 FRUID NAME  
 DESCRIPTION Z FLEX ASSY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308416201	1	43513	00	00	NONE	INITIAL RELEASE.
*308416202	1	43577	00	00	NONE	MISC DRAWING CLEANUP.
*308416203	2	43671	00	00	NONE	COPPER DENSITY CHANGE.
*308416204	2	43722	00	00	NONE	ADD ADHESIVE AROUND CONNECTORS.
308416205	2	41857	00	00	NONE	RELEASED SCHEMATIC & INCREASE CORNER RADIUS OF Z-FLEX.

FRU NAME FLEX ASSY, Z MOTOR  
 PRODUCT NUMBER 9310  
 FAMID CODE 004  
 FRUID NAME  
 DESCRIPTION Z MOTOR FLEX

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308416601	1	43552	00	00	NONE	INITIAL RELEASE.
*308416602	1	43616	00	00	NONE	ADD ADHESIVE TO CONNECTORS TO PREVENT BREAKAGE.
*308416603	1	43642	00	00	NONE	CORRECT REWORK ACTIONS FROM EC 43616.
*308416604	1	43636A	00	00	NONE	REDESIGN & CORRECT DIMENSIONS.
*308416605	1	43835	00	00	NONE	CHANGE CONNECTOR TO GOLD PLATED CONTACTS. REDESIGNED & REPLACED BY PN 308464401. SEE PAGE 4-33.7 FOR REFERENCE.

FRU NAME FLEX ASSY, Z MOTOR  
PRODUCT NUMBER 9310  
FAMID CODE 004  
FRUID NAME  
DESCRIPTION Z MOTOR FLEX

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
308464401	1	43849	00	00	NONE	INITIAL RELEASE.

FRU NAME           GAS SPRING CAP  
PRODUCT NUMBER   4410/9310  
FAMID CODE        004  
FRUID NAME        GAS SPRING CAP  
DESCRIPTION        GAS SPRING CAP

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
410312301	1	16504U	00	00	NONE	INITIAL RELEASE.

FRU NAME GRIPPER ASSEMBLY  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME GRIPPER ASSEMBLY  
 DESCRIPTION GRIPPER ASSEMBLY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410298101	1	16500	00	00	NONE	INITIAL RELEASE.
*410298102	1	17533	00	00	*92579	ADD URETHANE COATING TO GRIPPER HANDS. FB RELEASED MANDATORY.
*410298103	1	19435	00	00	43562	RELEASE OF HARDENED STEEL FINGERS. FB RELEASED MANDATORY.
*410298104	2	19589	00	00	NONE	RELEASE OF STRAIGHT FINGERS. OLD FINGERS BECOME SPARES. FB UPDATE ONLY.
*410298104	2	27179	00	00	69653	FB RELEASED MANDATORY TO ELIMINATE RESISTOR LEADS ON THE MA CARD THAT CAN TOUCH THE FINGER MECHANISM.
404342101	2	27529A	00	00	43714	NEW FAMILY PN RELEASED TO REPLACE MOUNTING SCREW ON PN 410298104 LEVEL (STRAIGHT FINGERS IN THE ASSEMBLIES) IN THE FIELD. FB 43714 RELEASED FIELD EXCEPTIONAL SPARE
*410298105	2	27529	00	00	NONE	ADDS GUIDES TO PREVENT THE FLAG FROM CONTACTING THE SENSORS. FB RELEASED EXCEPTIONAL.
*410298106	2	29003	00	00	NONE	REMOVES NUT, SHOULDER SCREWS, AND ANTI-BACKLASH SPRING SO THE NUT AND LEADSCREW CAN BE COMBINED AS AN ASSEMBLY.
*410298107	2	29280	00	00	NONE	INCREASES FINGER SETTING TO .890-.900 UNDER 10 POUND PRELOAD TO PREVENT HAND FROM FAILING ON THE CALIBRATION BAR.

FRU NAME GRIPPER ASSEMBLY (CONT)  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME GRIPPER ASSEMBLY  
 DESCRIPTION GRIPPER ASSEMBLY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410298108	2	29487	00	00	NONE	REPLACES PANHEAD SCREW WITH A FLAT HEAD SCREW AND RECESSES DEEP ENOUGH TO PROVIDE CLEARANCE FOR THE FUTURE DOOR MAGAZINE.
*410298108	2	29822	00	00	44363 44361	FBS 44363 AND 44361 RELEASED EXCEPTIONAL.
*410298109	2	29891	00	00	NONE	REPLACES WASHER (LK) AND NUT (HEX) WITH A SCREW (MACH, TXPH) TO HELP SECURE GRIPPER MOTOR TO MOUNTING PLATE. NEW COIL CORD ROUTING.
*410298110	2	29720	00	00	NONE	REPLACES BEARING SELF-ALIGNING WITH BEARING SINGULAR.
410298111	2	35567	00	00	NONE	REDUCES THE FINGER SETTING TO ENHANCE THE EFFECTIVENESS WHILE ACCESSING THE CC80.

FRU NAME GRIPPER ASSEMBLY  
PRODUCT NUMBER 4410, CC80  
FAMID CODE 004  
FRUID NAME GRIPPER ASSEMBLY, CC80, FUO  
DESCRIPTION GRIPPER ASSEMBLY, CC80, FUO

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
411026201	1	35616	00	00	NONE	INITIAL RELEASE TO SPARE STATUS. FOR CLIPPER USE ONLY.

FRU NAME GRIPPER ASSEMBLY  
 PRODUCT NUMBER 9310  
 FAMID CODE 004  
 FRUID NAME  
 DESCRIPTION GRIPPER ASSEMBLY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308436401	1	43559	00	00	NONE	INITIAL RELEASE.
*308436402	1	43585	00	00	NONE	REDESIGN HINGE SPRING.
*308436403	1	43693	00	00	NONE	SHORTEN SPRING.
*308436404	1	43708	00	00	NONE	BLACKEN REFLECTIVE AREAS WITH PERMANENT MARKER.
*308436405	1	43702	00	00	NONE	MOVE CALIBRATION TARGETS ONTO CARTRIDGE STOP.
*308436406	2	43716	00	00	NONE	CHANGE ARMATURE FOR LAP LEVEL DESIGN. CONCURRENT EC 43712. PREREQ EC 38588, 38685.
*308436407	2	43757	00	00	NONE	PROCESS CHANGE TO STEEL PARTS.
*308436408		43721	00	00	NONE	07 LEVELS WERE MISLABELED TO 08.
*308436409	2	43721	00	00	NONE	ADDED BEAD BLAST AND LUBE FOR INCREASED GRIPPING MARGIN.
*308436409	2	43721A	00	00	*53076	F/B RELEASED EXCEPTIONAL TO SUPPLY FIELD WITH GRIPPER ASSEMBLY.
*308436410	2	41805	00	00	NONE	CHANGE MATERIAL FOR SPRINGS TO MUSIC WIRE AND OPEN SLOT IN SUPPORT TO PROVIDE MORE CLEARANCE FOR BUSHINGS. FIELD BILL
*308436411	2	41948	00	00	*60259	ADDED STOPS TO PREVENT EXCESSIVE OPEN-TRAVEL AND CARTRIDGE JAMMING. FB RELEASED MANDATORY.
*308436411	2	113028	00	00	*60259	COMPAT PAGE UPDATED TO REFLECT ORIGINAL INTENT.



FRU NAME GRIPPER ASSEMBLY  
 PRODUCT NUMBER 9310  
 FAMID CODE 004  
 FRUID NAME  
 DESCRIPTION GRIPPER ASSEMBLY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308436412	2	35149	00	00	*61428	REDUCE CLOSED WIDTH OF GRIPPER BY REDUCING FRONT LINK DIMENSION. FB RELEASED EXCEPTIONAL.
*308436413	2	121034	00	00	NONE	ADD MACHINING OPERATION TO CONTROL FINGER SIZE AT TOP.
*308436414	2	121052	00	00	NONE	CHANGED BUILD PROCESS FOR BETTER THROU GH PUT FOR THE OPEN/CLOSE WIDTH OF GRIPPER.
*308436415	2	111505	00	00	NONE	CHANGE GRIPPER SUPPORT DIMENSION.
*308436416	2	140392	00	00	NONE	CORRECT COMPROMISING GET MARGINS.
<b>308436417</b>	<b>2</b>	<b>140806</b>	<b>00</b>	<b>00</b>	<b>NONE</b>	<b>CHANGES TO FINGER AND FRONT LINK TO IMPROVE GRIPPER LIFE.</b>

FRU NAME           HAND ASSEMBLY  
 PRODUCT NUMBER   4410  
 FAMID CODE        004  
 FRUID NAME        HAND ASSEMBLY  
 DESCRIPTION       HAND ASSEMBLY WITHOUT CAMERA

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410622601	1	25035	00	00	NONE	INITIAL RELEASE.
*410622602	1	19589	00	00	NONE	RELEASE OF STRAIGHT FINGERS.
*410622602	1	19763	00	00	NONE	NEVER IMPLEMENTED. THESE CHANGES ARE DONE ON LEVEL PN 410622604.
*410622603	1	19763	00	00	*69504 *69503	REPLACE BELT TENSION SPRING WITH ONE THAT HAS A LOWER SPRING CONSTANT TO EASE STIFFNESS CAUSING MOTOR SHAFTS TO FAIL. FB RELEASED MANDATORY. FB 69504 - WITH NEW MOTOR PLATE FB 69503. THIS LEVEL IS REWORKED FROM PN 410622601.
*410622604	1	19763	00	00	NONE	REPLACE BELT TENSION SPRING WITH ONE THAT HAS A LOWER SPRING CONSTANT TO EASE STIFFNESS CAUSING MOTOR SHAFTS TO FAIL. THIS LEVEL ALSO IMPLEMENTS PN 410622602. FBS 69504 AND 69503 ARE UPDATES ONLY.
*410622604	1	19820	00	00	NONE	SPARE STATUS.
*410622604	1	27384	00	00	NONE	RELEASE OF MK CARD IMBED.

FRU NAME           HAND ASSEMBLY (CONT)  
 PRODUCT NUMBER   4410  
 FAMID CODE        004  
 FRUID NAME        HAND ASSEMBLY  
 DESCRIPTION       HAND ASSEMBLY WITHOUT CAMERA

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410622605	1	29003	00	00	NONE	INCREASES HAND RELIABILITY BY REDUCING ROLL BELT TENSION, LOWER SPRING RATE, PUTS SLOT AT PIVOT RADIUS, MINIMIZES FRICTION BY USING SHOULDER SCREWS AND WASHERS, REDUCES TOLERANCES. USE VELCRO AND HOOK. ADD CLAMPS FOR SENSOR CABLE. FBS 69504 AND 69503 UPDATE ONLY.
*410622605	1	28945	00	00	NONE	FB 44107 & 44124 RELEASED MANDATORY (INTERNATIONAL) TO UPGRADE 410622604 LEVEL HAND ASSEMBLY TO 410622605.
*410622605	1	29405	00	00	*44225	FB RELEASED EXCEPTIONAL (DOMESTIC) TO UPGRADE 410622605 TO 410622608.
*410622606	1	29145	00	00	NONE	ADDS LABEL TO TRACK EC AND PART NUMBER. SPECIFIES SHAFT MATERIAL AND MAXIMUM RADIAL LOAD ON THE ROLL/PTP MOTOR/ENCODER.
*410622607	1	29280	00	00	44209	ADDS VELCRO HOOK TO THE CABLE ASSEMBLY TO SECURE COAX CABLE UNDER THE FLAT CABLE TO PREVENT COAX CABLE CATCHING ON ARRAYS. INCREASES FINGER SETTING ON GRIPPER ASSEMBLY TO PREVENT HAND FROM FAILING ON CALIBRATION BAR. ADD LOCK WASHERS TO SHOULDER SCREWS ON ROLL MOTOR PLATE. FB RELEASED EXCEPTIONAL.

FRU NAME           HAND ASSEMBLY (CONT)  
 PRODUCT NUMBER   4410  
 FAMID CODE        004  
 FRUID NAME        HAND ASSEMBLY  
 DESCRIPTION       HAND ASSEMBLY WITHOUT CAMERA

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410622608	1	29374	00	00	NONE	RECESSES CLAMP AND ADDS VELCRO HOOK WHERE CLAMP CONTACTS THE CABLE TO ELIMINATE CABLE STRESS AND BENDING OF BASEPLATE.
*410622609	1	29487	00	00	NONE	REPLACES PANHEAD SCREW WITH A FLAT HEAD SCREW AND RECESSES DEEP ENOUGH TO PROVIDE CLEARANCE FOR THE FUTURE DOOR MAGAZINE ON THE GRIPPER ASSEMBLY. FB 44225 FOR UPDATE ONLY.
*410622610	1	29720	00	00	NONE	REDUCES TOLERANCES. COMBINES MOTOR MOUNT AND BEARING BLOCK INTO ONE PART (MOTOR MOUNT, REACH). REMOVES TEFLON COATING FROM LEAD SCREW. REPLACE THREAD ROLLED SCREW WITH MACHINE SCREW FOR ATTACHING BASEPLATE TO OUTER TUBE.
*410622611	1	30674	00	00	NONE	REMOVES FLANGES FROM ROLL MOTOR PULLEY AND WIDENS PULLEY SURFACE TO PREVENT THE BELT FROM RIDING UP ON THE PULLEY FLANGES.
*410622611	1	30972	00	00	NONE	NOT IMPLEMENTED. SEE 410622614 EC 30972 BELOW.
*410622612	1	30963	00	00	52164 52165	ADDS WASHER TO HAND ASSEMBLY TO REDUCE COUNTER BORE DEPTH AND ENSURE FIT OF PRESS BEARINGS.
*410622613	1	30971	00	00	NONE	REDUCES THE COUNTER BORE DEPTH ON THE MOTOR MOUNT TO PREVENT BEARING SLIPPAGE.

FRU NAME           HAND ASSEMBLY (CONT)  
 PRODUCT NUMBER   4410  
 FAMID CODE        004  
 FRUID NAME        HAND ASSEMBLY  
 DESCRIPTION       HAND ASSEMBLY WITHOUT CAMERA

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410622614	1	30972	00	00	NONE	INCORPORATES EC 30674. PART NUMBER ROLL TO FACILITATE IMPLEMENTATION OF ECS 30963 AND 30971.
410622615	1	35564	00	00	NONE	ADDS GROMMET TO CABLE BRACKET TO PROTECT CABLES.

FRU NAME           HAND ASSEMBLY  
 PRODUCT NUMBER   4410  
 FAMID CODE        004  
 FRUID NAME        HAND ASSY  
 DESCRIPTION       HAND ASSEMBLY, FUO,CC80

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*411025001	1	35616	00	00	NONE	INITIAL RELEASE TO SPARE STATUS. FOR CLIPPER USE ONLY.
411025002	1	35564	00	00	NONE	ADDS GROMMET TO CABLE BRACKET TO PROTECT CABLES. SPARE STATUS.
411025002	1	113028	00	00	NONE	COMPAT PAGE UPDATED TO REFLECT ORIGINAL INTENT.

FRU NAME HARNESS  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME HARNESS  
 DESCRIPTION HARNESS THETA FLEX COIL

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410305302	1	16551	00	00	NONE	INITIAL RELEASE.
*410305303	1	27524	00	00	NONE	LENGTHEN THETA COIL CORD BREAKOUTS TO MAKE MANUFACTURING AND FIELD ASSEMBLY EASIER AND TO PREVENT CUT WIRES.
*410305304	1	30841	00	00	NONE	CHANGES TO A NEW CRIMP PIN TO AVOID WIRES BEING BROKEN.
410305305	1	35856	00	00	NONE	ADD OVERMOLD STRAIN RELIEF TO PREVENT WIRE FROM BEING PULLED FREE.

FRU NAME            HARNESS, THETA FLEX COIL  
 PRODUCT NUMBER    9310  
 FAMID CODE         004  
 FRUID NAME  
 DESCRIPTION        THETA COIL CABLE FLEX

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308430701	1	43581	00	00	NONE	INITIAL RELEASE.
*308430702	1	43657	00	00	NONE	APL CHANGE ONLY.
*308430703	1	43958	00	00	NONE	ADD OVERMOLD STRAIN RELIEF.
308430704	1	41713	00	00	NONE	INCREASE VIDEO-LEAD LENGTH.



FRU NAME            HARNESS, LSM ACCESS DOOR/MZ, ME8  
PRODUCT NUMBER    4410/9310  
FAMID CODE         004  
FRUID NAME         HARNESS, LSM ACCESS DOOR/MZ, ME8  
DESCRIPTION        HARNESS, LSM ACCESS DOOR/MZ, ME8

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
404560202	1	41504	00	00	NONE	CABLE CHANGE.

FRU NAME HARNESS, PCAP  
PRODUCT NUMBER 4410/9310  
FAMID CODE 004  
FRUID NAME HARNESS, PCAP  
DESCRIPTION HARNESS, PCAP

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
404559204	1	41532A	00	00	NONE	CHANGES CONNECTOR.

FRU NAME HBO SENSOR  
 PRODUCT NUMBER 4410/9310  
 FAMID CODE FAMID004  
 FRUID NAME HBO SWITCH ASSY  
 DESCRIPTION HBO SWITCH ASSEMBLY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410270703	1	25073	00	00	NONE	INITIAL RELEASE.
*410270704	1	19903	00	00	NONE	RELEASE HBO STOP. ROLL HBO SENSOR ASSEMBLY FOR TRACKABILITY.
*411085701	2	30626	00	00	NONE	MECHANICAL HBO REPLACED BY ELECTRONIC HBO INCORPORATED ON MG CARD. NEW HBO ASSEMBLY REQUIRES UPGRADE TO NEW MG CARD 411048301. NONE BUILT.
*411085701	2	30626A	00	00	52543	FOR FIRST TIME UPGRADE TO ELECTRONIC HBO (CONTAINS MG CARD AND SWITCH ASSEMBLY). FB 52543 RELEASED OPTIONAL.
*411085701	2	92076	00	00	NONE	INITIAL RELEASE OF IMBED ON MG CARD 411048401. FB UPDATE ONLY.
411085702	2	41975	00	00	NONE	REMOVE PRELOAD FROM SWITCH.

FRU NAME            KEY BLANK  
PRODUCT NUMBER    4410  
FAMID CODE        004  
FRUID NAME        KEY BLANK  
DESCRIPTION        KEY BLANK

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
410914001	1	27597	00	00	NONE	INITIAL RELEASE.

FRU NAME LATCH ASSEMBLY, CAP DOOR  
 PRODUCT NUMBER 4410/9310  
 FAMID CODE 004  
 FRUID NAME LATCH ASSEMBLY, CAP DOOR  
 DESCRIPTION LATCH ASSEMBLY, CAP DOOR

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*404538801	1	29400A	00	00	NONE	INITIAL RELEASE.
*404538802	1	41502	00	00	NONE	MODIFIED LATCHES.
*404538803	1	41516	00	00	NONE	ADDED HARNESS TO IMPROVE MANUFACTUREABILITY.
*404538804	1	41524	00	00	NONE	CHANGES DESIGNATOR ON THE CAP SWITCH CABLE.
*404538805	1	41532	00	00	NONE	REMOVES CONNECTORS.
*404538806	1	35726	00	00	NONE	MODIFIED LATCHES BY CHANGING SWITCHES TO GOLD CONTACT VERSION TO PREVENT CONTACT EROSION.
411069401	1	41578	00	00	NONE	REDUCES WEIGHT OF WELDED APPENDAGE ON SOLENOID SHAFT. REDESIGNS MANUAL RELEASE.

FRU NAME LATCH ASSEMBLY, PCAP DOOR  
 PRODUCT NUMBER 4410/9310  
 FAMID CODE 004  
 FRUID NAME LATCH ASSEMBLY, PCAP DOOR  
 DESCRIPTION LATCH ASSEMBLY, PCAP DOOR

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*404545001	1	29400A	00	00	NONE	INITIAL RELEASE.
*404545002	1	41502	00	00	NONE	MODIFIED LATCHES.
*404545003	1	41516	00	00	NONE	ADDED HARNESS TO IMPROVE MANUFACTUREABILITY.
*404545004	1	41524	00	00	NONE	CHANGES DESIGNATOR ON THE CAP SWITCH CABLE.
*404545005	1	35726	00	00	NONE	MODIFY LATCHES BY CHANGING SWITCHES TO GOLD CONTACT VERSION TO PREVENT CONTACT EROSION.
411069501	1	41578	00	00	NONE	REDUCES WEIGHT OF WELDED APPENDAGE ON SOLENOID SHAFT. REDESIGNS MANUAL RELEASE.

FRU NAME LATCH CAP  
 PRODUCT NUMBER 4410/9310  
 FAMID CODE 004  
 FRUID NAME  
 DESCRIPTION LATCH CAP

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410193404	1	25259	00	00	NONE	INITIAL RELEASE.
410193405	1	29433	00	00	*44247	REDESIGNS MOUNTING AND OPERATION OF LATCH AND PROXIMITY SENSORS TO REDUCE OR ELIMINATE CAP ERRORS. FB RELEASED EXCEPTIONAL.
410193405	1	29584	00	00	44308	F/B RELEASED EXCEPTIONAL.
410193405	1	35886	00	00	NONE	REQUIRES COMPANION PART 404573703 OR HIGHER ONLY ON INITIAL UPGRADE TO THIS FRU.
410193405	1	113028	00	00	NONE	COMPAT PAGE UPDATED TO REFLECT ORIGINAL INTENT.

FRU NAME            Z LEADSCREW/ MOUNT ASSEMBLY  
 PRODUCT NUMBER    4410  
 FAMID CODE         004  
 FRUID NAME         Z/ LEADSCREW/ MOUNT ASSEMBLY  
 DESCRIPTION        Z/ LEADSCREW/ MOUNT ASSEMBLY FUO

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
410106903	1	16655	00	00	NONE	INITIAL RELEASE.
410106903	1	19820	00	00	NONE	SPARE STATUS.
410707001	1	19322	00	00	NONE	CHANGED FRU TO A LEADSCREW, Z MOUNT ASSEMBLY.
410707001	1	19820	00	00	NONE	SPARE STATUS.



FRU NAME            Z LEADSCREW ASSEMBLY  
PRODUCT NUMBER    4410  
FAMID CODE         004  
FRUID NAME         Z/LEADSCREW ASSEMBLY  
DESCRIPTION         Z/LEADSCREW ASSEMBLY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
410784701	1	19595	00	00	NONE	INITIAL RELEASE.

FRU NAME LOCK, SOLENOID, CAP ASSY WITH NV CARD  
 PRODUCT NUMBER 4410/9310  
 FAMID CODE 004  
 FRUID NAME LOCK, SOLENOID, CAP ASSY WITH NV CARD  
 DESCRIPTION LOCK, SOLENOID, CAP ASSY WITH NV CARD

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
411026101	1	35517	00	00	52202	INITIAL RELEASE. FB RELEASED EXCEPTIONAL. REQUIRES COMPANION PART 411025901, TO REPLACE 410170200 ONLY ON INITIAL UPGRADE TO THIS FRU.

FRU NAME MAGAZINE ASSEMBLY  
 PRODUCT NUMBER 4410/9310  
 FAMID CODE 004  
 FRUID NAME MAGAZINE ASSEMBLY  
 DESCRIPTION MAGAZINE ASSEMBLY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*411013101	1	41557	00	00	NONE	RESURFACES MAGAZINE TARGET AREA TO ANGLE AWAY FROM CAMERA AREA.
*404543204	1	41571	00	00	NONE	WIDENS OPENING ON BACK OF MAGAZINE. REMOVES CARTRIDGE KEYING. RECONTOURS THE TARGE
<b>*404543205</b>	1	41596	00	00	NONE	ADDS FILLER TAB TO SIDES OF CARTRIDGE CELLS IN MAGAZINE.
<b>*404543205</b>	1	41596A	00	00	NONE	CLARIFY DESCRIPTION OF PREVIOUS EC.
<b>404543206</b>	<b>1</b>	<b>140597</b>	<b>00</b>	<b>00</b>	<b>NONE</b>	<b>CHANGE MAGAZINE TO SUPPORT LTO CARTRIDGE.</b>

FRU NAME            MOTOR/ ENCODER  
 PRODUCT NUMBER    4410  
 FAMID CODE         004  
 FRUID NAME         MOTOR/ ENCODER ASSEMBLY  
 DESCRIPTION        MOTOR/ ENCODER ASSEMBLY TURNTABLE

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410317802	1	16765	00	00	NONE	INITIAL RELEASE.
410924401	1	27679	00	00	NONE	REDESIGN FOR IMPROVED MANUFACTURE.

FRU NAME            PLATE Z BEARING ASSEMBLY  
PRODUCT NUMBER    4410  
FAMID CODE         004  
FRUID NAME         PLATE ASSEMBLY  
DESCRIPTION         Z/PLATE ASSEMBLY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
410638701	1	25035	00	00	NONE	INITIAL RELEASE.

FRU NAME            PLATE BEARING  
PRODUCT NUMBER    4410  
FAMID CODE         004  
FRUID NAME         PLATE BEARING HAND FRONT  
DESCRIPTION         PLATE BEARING HAND FRONT

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
410639301	1	25035	00	00	NONE	INITIAL RELEASE.

FRU NAME            PULLEY  
 PRODUCT NUMBER    4410  
 FAMID CODE        004  
 FRUID NAME        PULLEY ASSEMBLY  
 DESCRIPTION        DRIVE Z/PULLEY ASSEMBLY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410816801	1	27461	00	00	NONE	INITIAL RELEASE.
*410816802	1	29540	00	00	NONE	ADDS FLANGE TO DECREASE THE PROBABILITY OF PULLEY BELT SLIPPAGE.
410816803	1	30568	00	00	NONE	ADDS BOSS TO ELIMINATE NEED FOR SPACER.

FRU NAME REACH MOTOR  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME REACH MOTOR AND MOUNT  
 DESCRIPTION REACH MOTOR AND MOUNT

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410639101	1	25035	00	00	NONE	INITIAL RELEASE.
*410639101	1	29720	00	00	NONE	INACTIVE. REMOVED FROM FRU LIST.



FRU NAME           ROLL MOTOR  
 PRODUCT NUMBER    4410  
 FAMID CODE         004  
 FRUID NAME         ROLL MOTOR AND CABLE  
 DESCRIPTION         MOTOR ROLL

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410639201	1	25035	00	00	NONE	INITIAL RELEASE.
*410639201	1	29720	00	00	NONE	INACTIVE. REMOVED FROM FRU LIST.

FRU NAME	ROLLER PLATE
PRODUCT NUMBER	4410
FAMID CODE	004
FRUID NAME	ROLLER PLATE
DESCRIPTION	ROLLER PLATE

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410812401	1	19820	00	00	NONE	INITIAL RELEASE.
410812402	1	27845	00	00	NONE	CHANGE MATERIAL ON Z ROLLER PLATE FROM STAINLESS STEEL TO COLD ROLLED STEEL.

FRU NAME ROLLER Z ASSEMBLY  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME ROLLER Z/ASSEMBLY  
 DESCRIPTION ROLLER Z/ASSEMBLY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410817001	1	27461	00	00	NONE	INITIAL RELEASE.
410817002	1	27620	00	00	NONE	CHANGES THE "Z" ROLLER FROM STAINLESS STEEL TO URETHANE TO PREVENT THE Z ROLLER PLATE FROM WEARING.

FRU NAME            SENSOR  
 PRODUCT NUMBER    4410/9310  
 FAMID CODE         004  
 FRUID NAME         SENSOR ASSY MAGAZINE  
 DESCRIPTION        SENSOR ASSY MAGAZINE

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*404557502	1	41540	00	00	NONE	SENSOR IS RE-POSITIONED TO GUARANTEE IT WILL ALWAYS CHANGE STATE.
*404557503	1	41575	00	00	NONE	REDESIGNS FLAG SENSOR ARM AND PIVOT PIN TO PREVENT DAMAGE TO PARTS WHEN ASSEMBLYING.
*404557504	1	41602	00	00	NONE	CORRECTS DIMENSION AND GEOMETRY ON THE FLAG SENSOR ARM.
404557505	1	41646	00	00	NONE	CORRECTS LENGTH OF SENSOR SPRINGS. DRAWINGS CONVERTED TO PROLE.

FRU NAME BRACKET ASSY  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME  
 DESCRIPTION LSM SENSOR BRACKET ASSEMBLY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*404573701	1	35517	00	00	NONE	REQUIRES COMPANION PART 4101934-05 TO REPLACE 410193404 ONLY ON INITIAL UPGRADE TO THIS FRU.
*404573702	1	29584	00	00	NONE	REDESIGNS SENSOR BRACKET TO INCREASE DESIGN MARGIN. FIELD BILL RELEASED EXCEPTIONAL.
<b>*404573703</b>	1	29716	00	00	NONE	DRAWING CORRECTION.
<b>*404573703</b>	1	35886	00	00	NONE	ADDS -02 AND -03 LEVELS TO COMPAT.
<b>*404573703</b>	1	113028	00	00	NONE	COMPAT PAGE UPDATED TO REFLECT ORIGINAL INTENT.
<b>404573704</b>	<b>1</b>	<b>41984</b>	<b>00</b>	<b>00</b>	<b>NONE</b>	<b>REPLACE TORSION SPRING WITH EXTENSION SPRING.</b>

FRU NAME            SHEAR PIN ASSY  
 PRODUCT NUMBER    9310  
 FAMID CODE        004  
 FRUID NAME  
 DESCRIPTION        EPO ENABLE PIN

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308419801	1	43638	00	00	NONE	INITIAL RELEASE.
*308419802	1	43654	00	00	NONE	STRENGTHEN PIN TO PREVENT PREMATURE BREAKAGE.
308419803	1	43767	00	00	52475	CHANGE PIN MATERIAL TO PREVENT PREMATURE WEAR. FB RELEASED MANDATORY.

FRU NAME SLAM LATCH RH MODIFICATION  
PRODUCT NUMBER 4410/9310  
FAMID CODE 004  
FRUID NAME SLAM LATCH RH MODIFICATION  
DESCRIPTION SLAM LATCH RH MODIFICATION

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*404585401	1	29400	00	00	NONE	INITIAL RELEASE.
404585402	1	41567	00	00	NONE	ADD LUBRICANT TO LATCH.

FRU NAME SLAM LATCH LH MODIFICATION  
PRODUCT NUMBER 4410/9310  
FAMID CODE 004  
FRUID NAME SLAM LATCH LH MODIFICATION  
DESCRIPTION SLAM LATCH LH MODIFICATION

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*404585301	1	29400	00	00	NONE	INITIAL RELEASE.
404585302	1	41567	00	00	NONE	ADD LUBRICANT TO LATCH.



FRU NAME LSM SOLENOID LOCK ASSY, CAP/PCAP  
 PRODUCT NUMBER 4410/9310  
 FAMID CODE 004  
 FRUID NAME SOLENOID LOCK ASSY, CAP/PCAP  
 DESCRIPTION SOLENOID LOCK ASSY, CAP/PCAP

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*411023801	1	41578	00	00	NONE	INITIAL RELEASE.
411023802	1	57709	00	00	NONE	REPLACES SOLENOID WITH MORE ROBUST VERSION.
411023802	1	41578A	00	00	NONE	UPDATES COMPATIBILITY BOOK FOR SOLENOID ASSY. THIS ASSY DOES NOT REPLACE 404544901 OR 404544902 SOLENOID ASSY, CAP LATCH. ENTIRE CAP LATCH ASSY 404538800 MUST BE REPLACED BY 411069401 OR ENTIRE PCAP LATCH ASSY 404545000 MUST BE REPLACED BY 411069501 THE FIRST TIME A SOLENOID NEEDS REPLACEMENT.

FRU NAME SPRING  
PRODUCT NUMBER 4410  
FAMID CODE 004  
FRUID NAME SPRING SAFETY DOOR  
DESCRIPTION SPRING SAFETY DOOR

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
410395501	1	16723	00	00	NONE	ADDED TO LSM FRU SELECT.

FRU NAME SWITCH ASSEMBLY  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME SWITCH ASSEMBLY DOOR LATCH  
 DESCRIPTION SWITCH ASSEMBLY DOOR LATCH

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410324401	1	16504W	00	00	NONE	INITIAL RELEASE.
*410324402	1	29547	00	00	NONE	UPGRADE TO VDE SWITCH.
410324403	1	29655	00	00	NONE	RELEASE GOLD CONTACT SWITCHES TO AVOID INTERMITTENT FAILURES.

FRU NAME SWITCH ASSEMBLY LAD,DOOR  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME  
 DESCRIPTION SWITCH ASSEMBLY, LAD, DOOR

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
<b>*410618902</b>	1	19340	00	00	NONE	INITIAL RELEASE.
<b>*410618902</b>	1	41583	00	00	NONE	INACTIVE - NOT REPLACED.
<b>*410618902</b>	1	113028	00	00	NONE	COMPAT PAGE UPDATED TO REFLECT ORIGINAL INTENT.

FRU NAME            THERMAL SWITCH  
 PRODUCT NUMBER    4410/9310  
 FAMID CODE         004  
 FRUID NAME         THERMAL SWITCH ASSEMBLY  
 DESCRIPTION        THERMAL SWITCH ASSEMBLY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410299203	1	25130	00	00	NONE	INITIAL RELEASE.
410299204	1	19846	00	00	NONE	THERMAL SWITCH ASSEMBLY CONNECTOR HAS WRONG REFERENCE DESIGNATOR. CORRECT TO J858.

FRU NAME THETA ARM ASSY  
PRODUCT NUMBER 9310  
FAMID CODE 004  
FRUID NAME  
DESCRIPTION THETA ARM

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308409001	1	43646	00	00	NONE	INITIAL RELEASE.
308409002	1	43731	00	00	NONE	REMOVE CALIBRATION TARGET.

FRU NAME            COUNTER ASSY, THETA TURNS  
 PRODUCT NUMBER    9310  
 FAMID CODE        004  
 FRUID NAME  
 DESCRIPTION        THETA TURNS COUNTER

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308424001	1	43654	00	00	NONE	INITIAL RELEASE. PMC P/N 308423302.
*308424002	1	43750	00	00	NONE	ADD CHAMFER TO DRUM CAM. PMC P/N 308423302.
*308424003	1	43827	00	00	NONE	5V ZENER BIAS FIX. PMC P/N 308423303.
308424004	1	41727	00	00	NONE	CHANGE SHEET METAL TO ALLOW INSERTION OF PMC CARD IN ALL CONNECTOR CONFIGURATIONS.

FRU NAME THETA ARM ASSEMBLY  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME  
 DESCRIPTION THETA ARM ASSEMBLY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410262703	1	25044	00	00	NONE	INITIAL RELEASE.
*410262704	1	19827	00	00	NONE	REDESIGN THETA STOP TO IMPROVE MANUFACTURING PROCESS.
*410262705	1	27808	00	00	NONE	CHANGE CAM PIN TO CAM FOLLOWER AND CHANGE RING TO IMPROVE OPERATION.
410262706	1	57636	00	00	NONE	CHANGE DRIVE PLATE FOR BETTER DRAINAGE.
410262706	1	113028	00	00	NONE	COMPAT PAGE UPDATED TO REFLECT ORIGINAL INTENT.



FRU NAME THETA DRIVE ASSEMBLY  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME  
 DESCRIPTION THETA DRIVE ASSEMBLY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410262601	1	16508A	00	00	NONE	INITIAL RELEASE.
*410262602	1	25074	00	00	NONE	CHANGED PARTS OF DRIVE TO ACCOMMODATE NEW FEEX SPLINE.
*410262603	1	19971	00	00	NONE	MODIFIED THE THETA MOTOR ASSEMBLY TO PREVENT THETA ENCODER DISCS FROM COMING LOOSE.
*410262604	1	29721	00	00	NONE	MODIFIED THE THETA DRIVE ASSEMBLY TO SECURE THE CABLES INSIDE THE DRIVE DURING SHIPMENT TO PREVENT THEM FROM BEING CUT BY THE WEIGHT OF THE DRIVE.
*410262605	1	35546	00	00	NONE	REPLACE ENCODER COVER PLATE STANDOFF AND ADD TAPE TO CABLE TO PREVENT DAMAGE.
410262606	2	57636	00	00	NONE	CHANGED COVER DESIGN TO ALLOW FLUID TO DRAIN AWAY FROM SEAL AREA. FOR INITIAL UPGRADE TO -06 LEVEL THETA DRIVE ASSY USE FRU 4110994-00 INSTEAD OF THIS FRU.
410262606	2	113028	00	00	NONE	COMPAT PAGE UPDATED TO REFLECT ORIGINAL INTENT.

FRU NAME THETA MOTOR ASSEMBLY  
 PRODUCT NUMBER 9310  
 FAMID CODE 004  
 FRUID NAME  
 DESCRIPTION THETA MOTOR ASSEMBLY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308404101	1	43638	00	00	NONE	INITIAL RELEASE.
*308404102	1	43816	00	00	NONE	ADD LOCK WASHERS TO THETA ENCODER COUPLER.
*308404103	1	43998	00	00	NONE	SECURE HOUSING AND SLEEVE TOGETHER WITH SCREWS TO PREVENT MOVEMENT.
<b>*308404104</b>	1	45964	00	00	NONE	ELIMINATE THE SLEEVE AND SCREWS IN EC 43998 BY CASTING SLEEVE FEATURE IN HOUSING.
<b>*308404104</b>	1	113028	00	00	NONE	COMPAT PAGE UPDATED TO REFLECT ORIGINAL INTENT.
<b>*308404105</b>	1	115447	00	00	NONE	CHANGE TO BEARING MATERIAL.
<b>308404106</b>	<b>1</b>	<b>140760</b>	<b>00</b>	<b>00</b>	<b>NONE</b>	<b>STRUCTURE CHANGES.</b>

FRU NAME THETA DRIVE ASSEMBLY WITH DRIVE PLATE, FUO  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME THETA DRIVE ASSEMBLY WITH DRIVE PLATE  
 DESCRIPTION THETA DRIVE ASSEMBLY WITH DRIVE PLATE, FUO

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
411099401	1	57636	00	00	NONE	INITIAL RELEASE TO BE USED FOR INITIAL UPGRADE TO THETA DRIVE ASSY 410262606 WHICH REQUIRES NEW DRIVE PLATE.

FRU NAME THETA ENCODER  
PRODUCT NUMBER 9310  
FAMID CODE 004  
FRUID NAME THETA ENCODER  
DESCRIPTION THETA ENCODER FRU

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
308489501	1	43817	00	00	NONE	INITIAL RELEASE

FRU NAME THETA STOP  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME THETA STOP ASSEMBLY  
 DESCRIPTION THETA STOP ASSEMBLY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410158702	1	16558	00	00	NONE	INITIAL RELEASE.
*410158703	1	16718	00	00	NONE	ADD CABLE CLAMPS.
*410158704	1	25118	00	00	NONE	THETA STOP CHANGE.
*410158705	1	25191	00	00	NONE	THETA STOP CHANGE.
*410158706	1	25224	00	00	NONE	THETA DBR MC CARD CHANGES.
*410158707	2	25261	00	00	92487	THETA DBR CHANGES. FB RELEASED MANDATORY.
*410158708	2	19369	00	00	NONE	ADDS THREAD SPEC TO DWG. TO ASSURE PROPER FIT WITH LEADSCREW. FB 92487 UPDATE ONLY.
*410158709	2	19563	00	00	NONE	MATERIAL CHANGE OF ACME-NUT TO REDUCE NOISE IN THE THETA STOP. FB 92487 UPDATE ONLY.
410158710	2	19788	00	00	NONE	INCREASE LEADSCREW NUT LENGTH TO STABILIZE NUT AND PREVENT EXCESSIVE VIBRATION. FB 92487 UPDATE ONLY.
410158710	2	19827A	00	00	NONE	SPARE STATUS.
*410809101	3	19827	01	00	NONE	REDESIGN THETA STOP TO IMPROVE RELIABILITY AND MANUFACTURING PROCESS. PREREQUISITE IS 2.1 LEVEL MICROCODE PER EC 27157. CONCURRENT WITH MC1 CARD PN 404239201 PER EC 27153.
*410809102	3	27449	01	00	NONE	ADD DETENT TO LIMIT OVER TRAVEL OF THE THETA STOP. CHANGE CAM STAR TO STEEL.

FRU NAME THETA STOP (CONT)  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME THETA STOP ASSEMBLY  
 DESCRIPTION THETA STOP ASSEMBLY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410809102	3	27680	01	00	NONE	DESCRIPTION OF PREVIOUS ECS 25224, 25261 & 19827 CLARIFIED. COMPATIBILITY NO. CORRECTED FOR PREVIOUS ECS 25261 & 19827.
*410809103	3	27808	01	00	NONE	REMOVE SHARP EDGES FROM STAR IN CAM ASSEMBLY AND REPLACE CAM PIN WITH CAM FOLLOWER TO IMPROVE OPERATION.
*410809104	3	28061	01	00	NONE	IMPROVES DETENT ROLLER LOCATION AND INCREASES TORQUE ON TORSION SPRING TO PREVENT DETENT ROLLER FROM OCCASIONALLY GOING PAST THE DETENT NOTCH.
*410809105	3	28795	01	00	*44073	MODIFIES HARDWARE TO PREVENT THETA STOP CAM FROM TRAVELING PAST THE DETENT. FB 44073 RELEASED EXCEPTIONAL.
*410809106	3	28828	01	00	44079	MODIFIES HARDWARE TO PREVENT STAR CAM FROM HITTING THETA ARM RING. FB 44079 RELEASED EXCEPTIONAL.
410809107	3	30819	01	00	NONE	ADDS CONNECTOR KEY TO PREVENT CONNECTOR PIN DAMAGE. ADDS ME CARD COVER TO PREVENT DAMAGE.

FRU NAME            TRANSPORT Z  
PRODUCT NUMBER    9310  
FAMID CODE         004  
FRUID NAME         Z TRNSP  
DESCRIPTION         TRANSPORT Z ASSY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308410001	1	43652	00	00	NONE	INITIAL RELEASE.
*308410002	1	43710	00	00	NONE	ADD ADHESIVE AROUND WRIST STOP.
*308469301	2	43716	00	00	NONE	NEW FAMILY PN RELEASED TO REFLECT LAP LEVEL DESIGN. CONCURRENT EC 43712. PREREQ EC 38588, 38685.
*308469302	2	43803	00	00	NONE	CHANGED ADHESIVE ON TRANSPORT FLEX ASSEMBLY.
*308469302	2	43803A	00	00	52644 52645	FB 52644 RELEASED EXCEPTIONAL FOR REPLACEMENT OF ONE TRANSPORT ASSEMBLY IN A 9310 LSM. FB 52645 RELEASED EXCEPTIONAL FOR REPLACEMENT OF BOTH TRANSPORT ASSEMBLIES IN A 9310 LSM.
*308469303	2	57994	00	00	NONE	CHANGED SPRING TO IMPROVE FINE POSITIONING. FB 52644 & 52645 UPDATES ONLY.
*308469304	2	43858	00	00	NONE	REDESIGN FLEX CONNECTION SYSTEM. FIELD BILL UPDATE ONLY.
*308469305	2	43849	00	00	NONE	REMOVED TRANSPORT FLEX ASSY. FIELD BILL UPDATE ONLY.
*308469306	2	43949	00	00	NONE	CHANGED TO MACHINED WRIST/ROLL HUB.
*308469307	3	92166	00	00	NONE	REPLACED INVISICON SYSTEM WITH STD DIN CONNECTOR SYSTEM.

FRU NAME            TRANSPORT Z (CONT)  
 PRODUCT NUMBER    9310  
 FAMID CODE         004  
 FRUID NAME         Z TRNSP  
 DESCRIPTION         TRANSPORT Z ASSY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308469307	3	92166A	00	00	NONE	MISCELLANEOUS DRAWING CHANGES AND COMPAT CLARIFICATION. IF PRESENT TRANSPORT Z ASSY IS P/N 308469306 OR LOWER, ORDER P/N 411295900, TURNTABLE/TRANSPORT ASSY.
*308469307	3	92166C	00	00	NONE	F/B WAS ON COMPAT PAGE IN ERROR.
*308469308	3	110213	00	00	NONE	RELEASE COMPATIBLE NEODIMIUN IRON BORON MOTORS.
<b>*308469309</b>	3	35264	00	00	NONE	COMPONENT DESIGN ENHANCEMENTS.
<b>308469310</b>	<b>3</b>	<b>53790</b>	<b>00</b>	<b>00</b>	<b>NONE</b>	<b>MANUFACTURING CHANGE.</b>



FRU NAME TURNTABLE  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME TURNTABLE ASSEMBLY  
 DESCRIPTION TURNTABLE ASSEMBLY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410635401	1	25035	00	00	NONE	INITIAL RELEASE.
*410635402	2	19585	00	00	69564	ADDS TRANSORB AND ADDITIONAL +5 VOLT DC PINS ONTO MS CARD. CONCURRENT WITH EC 19783 REI MOTHERBOARD LEVEL 410331103 (OR HIGHER). COMPANION EC 19871, FB 69569 LS CARD. FB REPLACED MANDATORY.
*410252703	2	28027	00	00	NONE	CORRECT COMPAT PAGE TO IDENTIFY THE CORRECT FRU LEVEL.
*410252704	2	29974	00	00	NONE	ADDS CABLE CLAMP TO RETAIN CABLE. ADDS HEAT SHRINK TUBING TO COVER SHARP EDGES ON BRACKET.
*410252705	2	35518	00	00	52185	ADDS NYLON WASHER TO PREVENT SHORT OF MS CARD TO CASTING. FB 52185 RELEASED EXCEPTIONAL. FB 69564 UPDATE ONLY.
410252706	2	35911	00	00	NONE	INCREASED LENGTH OF SCREW FROM 3/8 TO 1/2. FB 69564 UPDATE ONLY.

FRU NAME TURNTABLE ASSY  
 PRODUCT NUMBER 9310  
 FAMID CODE 004  
 FRUID NAME TURNTABLE ASSY  
 DESCRIPTION TURNTABLE ASSY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308413201	1	43508	00	00	NONE	INITIAL RELEASE.
*308413202	1	43670	00	00	NONE	REWORK REACH CARRIAGE.
*308413203	1	43661	00	00	NONE	ADD SENSOR SPRING AND CHANGE LOWER BUMPER.
*308413204	1	43678	00	00	NONE	MODIFY CARTRIDGE STOP. BASE AND HAND FLEX ASSEMBLY.
*308413205	1	43689	00	00	NONE	ADD SPRING TO MAINTAIN REACH BELT TENSION.
*308413206	1	43710	00	00	NONE	MODIFY CARTRIDGE CENTERING SPRING AND HAND FLEX SENSOR.
*308469201	2	43716	00	00	NONE	CHANGE HAND & ROLL ASSEMBLIES FOR LAP LEVEL RELEASE. CONCURRENT EC 43712. PREREQ EC 38588, 38685.
*308469202	2	43748	00	00	NONE	STIFFENED HAND COVER.
*308469203	2	43722	00	00	NONE	CHANGE TO HAND FLEX ASSEMBLY.
*308469204	2	43769	00	00	NONE	STIFFENED SHELL AND ADDED LATCH MOUNT.
*308469205	2	43787	00	00	NONE	REMOVE COVER LAYER OPENINGS IN FLEX, HAND AND FLEX, ROLL MOTOR ASSEMBLIES TO ELIMINATE ELECTRICAL SHORT.
*308469205	2	43825	00	00	*52701	RELEASE EXCEPTIONAL FB 52701.
*308469205	2	43825A	00	00	NONE	ADD EC 43825 TO COMPATIBILITY PAGE.

FRU NAME TURNTABLE ASSY (CONT)  
 PRODUCT NUMBER 9310  
 FAMID CODE 004  
 FRUID NAME  
 DESCRIPTION TURNTABLE ASSY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308469205	2	57852	00	00	*52698	RELEASE EXCEPTIONAL F/B.
*308469205	2	57852A	00	00	NONE	ADD EC 57852 TO COMPATIBILITY PAGE.
*308469206	2	43835	00	00	NONE	CHANGE FLEX CONN. TO GOLD PLATED CONTACTS. FB 52698/52701 UPDATE
*308469207	2	43858	00	00	NONE	REDESIGN FLEX CONNECTION SYSTEM. FIELD BILL UPDATE.
*308469208	2	41948	00	00	NONE	GRIPPER ASSY MODIFICATIONS, ADDED STOPS.
*308469209	3	92166	00	00	NONE	REPLACED INVISICON SYSTEM WITH STD DIN CONNECTOR SYSTEM.
*308469209	3	92166A	00	00	NONE	MISCELLANEOUS DRAWING CHANGES AND COMPAT CLARIFICATION. IF PRESENT TURNTABLE ASSY IS P/N 3084692-08 OR LOWER, MUST ORDER: 1. P/N 411295900, TURNTABLE/TRANSPORT ASSY, IF PRESENT TRANSPORT FLEX IS P/N 308416500. 2. P/N 308469200, TURNTABLE ASSY, AND P/N 308497400, Z TRANSPORT FLEX, IF PRESENT TRANSPORT FLEX IS P/N 308457500.
*308469209	3	92166C	00	00	NONE	F/B WAS ON COMPAT PAGE IN ERROR.
*308469210	3	92203	00	00	NONE	MISCELLANEOUS DRAWING CHANGES.
*308469210	3	92407	00	00	NONE	REPLACED BY 308747801. F/B UPDATE.

FRU NAME TURNTABLE ASSY (CONT)  
 PRODUCT NUMBER 9310  
 FAMID CODE 004  
 FRUID NAME  
 DESCRIPTION TURNTABLE ASSY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308469211		113086	00	00	NONE	CHANGED REACH BELT PIVOT BLOCK.
		113129	00	00	NONE	INACTIVATE F/BS 52701 AND 52698. PROBLEMS ASSOCIATED WITH THE F/BS HAVE BEEN FIXED SO THEY ARE NO LONGER NEEDED.
*308469212		113107	00	00	NONE	REPLACED BY 308747803.
*308469213		110213	00	00	NONE	RELEASE COMPATIBLE NEODIMIUN IRON BORON MOTORS.

FRU NAME TURNTABLE/TRANSPORT ASSEMBLY  
 PRODUCT NUMBER 9310  
 FAMID CODE 004  
 FRUID NAME  
 DESCRIPTION TURNTABLE/TRANSPORT ASSEMBLY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*411295901	1	92166	00	00	NONE	INITIAL RELEASE.
*411295901	1	92166A	00	00	*60641	F/B RELEASED EXCEPTIONAL.
*411295901	1	92407	00	00	NONE	REPLACED BY 308754001. F/B UPDATE.
*411295901	1	92166B	00	00	60942	INACTIVATE F/B 60641. RELEASE 60942 FIELD EXCEPTIONAL.
*411295902	1	113086	00	00	NONE	CHANGED REACH BELT PIVOT BLOCK.

FRU NAME TURNTABLE/TRANSPORT ASSEMBLY  
 PRODUCT NUMBER 9310  
 FAMID CODE 004  
 FRUID NAME  
 DESCRIPTION TURNTABLE/TRANSPORT ASSEMBLY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308754001	1	92407	00	00	NONE	INITIAL RELEASE. REPLACES 411295901.
*308754001	1	92166C	00	00	60942	F/B CALLED OUT INCORRECT P/N. F/B WAS RELEASED EXCEPTIONAL.
<b>*308754002</b>	1	113086	00	00	NONE	CHANGED REACH BELT PIVOT BLOCK.
<b>308754003</b>	<b>1</b>	<b>140392</b>	<b>00</b>	<b>00</b>	<b>NONE</b>	<b>REFINE GRIPPER ASSEMBLY.</b>
<b>308754003</b>	<b>1</b>	<b>140788</b>	<b>00</b>	<b>00</b>	<b>NONE</b>	<b>BENT SENSOR SPRING IMPROVEMENT.</b>

FRU NAME TURNTABLE ASSY  
 PRODUCT NUMBER 9310  
 FAMID CODE 004  
 FRUID NAME  
 DESCRIPTION TURNTABLE ASSY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308747801	1	92407	00	00	NONE	INITIAL RELEASE. REPLACES 308469210.
*308747802	1	113086	00	00	NONE	CHANGED REACH BELT PIVOT BLOCK.
*308747803	1	113107	00	00	NONE	CAMERA P/N ROLL.
*308747804	1	110213	00	00	NONE	RELEASE COMPATIBLE NEODIMIUN IRON BORON MOTORS.
*308747805	1	35284	00	00	NONE	ADD PROTRUSION TO THE NOSE OF THE BUMPER TO INCREASE SPRING DEFLECTION.
*308747805	1	121034	00	00	NONE	GRIPPER MODIFICATION
*308747805	1	121052	00	00	NONE	GRIPPER SUPPORT TOLERANCE CHANGE.
*308747805	1	111505	00	00	NONE	CHANGE GRIPPER ASSEMBLY PROCESS.
*308747806	1	140392	00	00	NONE	GRIPPER ASSEMBLY MODIFICATION.
*308747806	1	140450	00	00	NONE	PLE CARD MODIFICATION.
*308747806	1	140335	00	00	NONE	PACKAGING MODIFICATION.
*308747806	1	140634	00	00	NONE	PLE CARD REDISPOSITION.
*308747806	1	140686	00	00	NONE	IMPROVE POWDERHORN BUMPER BAR.
<b>*308747807</b>	1	140788	00	00	NONE	ADD SENSOR SPRING GUIDE TO HAND ASSY TO REDUCE OCCURRENCE OF BENT SENSOR SPRINGS. FB 101589 RELEASED FOR SPRING FIX.
<b>308747808</b>	<b>1</b>	<b>142099</b>	<b>00</b>	<b>00</b>	<b>NONE</b>	<b>CHANGE LUBRICATION ON TURNTABLE ASSEMBLIES.</b>

FRU NAME           TURNTABLE BEARING  
 PRODUCT NUMBER   4410  
 FAMID CODE        004  
 FRUID NAME        TURNTABLE BEARING ASSEMBLY  
 DESCRIPTION       TURNTABLE BEARING ASSEMBLY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410252601	1	16512	00	00	NONE	INITIAL RELEASE.
410252602	1	30594	00	00	52144	INCREASE MOUNTING SCREW SIZE TO FACILITATE HIGHER TORQUE TO ENSURE CLAMPING FORCE. FB 52144 RELEASED OPTIONAL.



FRU NAME            Z BELT DRIVE  
 PRODUCT NUMBER    4410  
 FAMID CODE         004  
 FRUID NAME         Z/BELT DRIVE  
 DESCRIPTION        Z/BELT DRIVE

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410814301	1	19820	00	00	NONE	INITIAL RELEASE.
*410814302	1	28913	00	00	NONE	MATERIAL CHANGE. CAN NOT USE.
*410814303	2	28913	00	00	NONE	REPLACES THE NEW Z BELT WITH A STIFFER Z BELT TO ENSURE STABILITY IN THE Z SERVO.
410814304	2	57682	00	00	NONE	TOLERANCE CHANGE TO PREVENT CRACKING.

FRU NAME Z COLUMN ASSY  
 PRODUCT NUMBER 9310  
 FAMID CODE 004  
 FRUID NAME LSM Z COLUMN ASSY  
 DESCRIPTION Z COLUMN ASSY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308404901	1	43646	00	00	NONE	INITIAL RELEASE.
*308404902	1	43686	00	00	NONE	ADD NEW CAP ASSY.
*308404903	2	43716	00	00	NONE	CHANGE Z TRANSPORT ASSEMBLY FOR LAP LEVEL RELEASE. CONCURRENT EC 43712. PREREQ EC 38588, 38685. ADD STK LOGO.
*308404904	2	43831	00	00	NONE	CHANGE TO THE Z COLUMN CAP TO FIX Z MOTOR FLEX TO Z MOTOR CONNECTION.
*308404905	2	41956	00	00	NONE	COUNTERWEIGHT ENHANCEMENT.
*308404905	3	92166A	00	00	NONE	MISCELLANEOUS DRAWING CHANGES AND COMPAT CLARIFICATION. IF PRESENT TURNTABLE ASSY IS AT P/N 308469208 OR LOWER, MUST ORDER THIS FRU AND TURNTABLE ASSY AT P/N 3084692-09 OR HIGHER.
*308404905	2	92166C	00	00	NONE	F/B WAS ON COMPAT PAGE IN ERROR.
*308404906	3	113240	00	00	NONE	INCREASE COUNTERWEIGHT.
308404907	3	35264	00	00	NONE	TWO TRANSPORT ASSEMBLIES AND COUNTERWEIGHT ROLLERS WILL BE SCREWED IN INSTEAD OF PRESSED INTO PLACE.

FRU NAME            Z FLEX GUIDE  
 PRODUCT NUMBER    9310  
 FAMID CODE         004  
 FRUID NAME  
 DESCRIPTION        Z FLEX GUIDE

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*308407701	1	43612	00	00	NONE	INITIAL RELEASE.
*308407702	1	43705	00	00	NONE	CHANGE MATERIAL, REMOVE COATING, CHANGE THICKNESS.
*308407703	1	43821	00	00	NONE	REDESIGN GUIDE FLEX FOR COMPOSITE MATERIAL.
*308407704	1	41741	00	00	NONE	CHANGE FLEX GUIDE TO STAINLESS STEEL AND ADD PROTECTIVE SHEET OF ULTEM BETWEEN GUIDE AND CABLE TO PREVENT CRACKING OR DELAMINATING.
*308407704	1	41948	00	00	60298	RELEASED FB MANDATORY TO REPLACE WITH HARDENED FLIX GUIDE AND PROTECTIVE SHIELD.
308407705	1	113099	00	00	29246	ADD POLYESTER SLEEVE. EXCEPTIONAL FIELD BILL.

FRU NAME Z MOTOR/ ENCODER ASSEMBLY  
 PRODUCT NUMBER 4410  
 FAMID CODE 004  
 FRUID NAME Z/MOTOR Z/ENCODER ASSEMBLY  
 DESCRIPTION Z/MOTOR/ ENCODER ASSEMBLY

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
*410325001	1	16511B	00	00	NONE	INITIAL RELEASE.
*410325001	1	19820	00	00	NONE	SPARE STATUS.
410325002	1	35597	00	00	NONE	ENCODER SUPPLIER CHANGE. SPARE STATUS.
410687801	2	19820	00	00	NONE	REDESIGN Z-BELT MECHANISM. MUST BE USED WITH THE TOP PLATE ASSEMBLY, PN 410816701.

FRU NAME            Z MOTOR ASSY  
 PRODUCT NUMBER    9310  
 FAMID CODE         004  
 FRUID NAME  
 DESCRIPTION        Z MOTOR

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
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*308424801	1	43571	00	00	NONE	INITIAL RELEASE.
<b>*308424802</b>	1	43655	00	00	NONE	TIGHTEN TOLERANCE.
*156500901	1	43790	00	00	NONE	ENCODER VENDOR CHANGE, NO CHANGE TO FORM, FIT, OR FUNCTION. EQUIVALENT TO 308424802.
156500902	1	110213	00	00	NONE	RELEASE COMPATIBLE NEODIMIUN IRON BORON MOTORS.

FRU NAME            Z SENSOR FLAG  
PRODUCT NUMBER    4410  
FAMID CODE         004  
FRUID NAME         SENSOR FLAG/Z  
DESCRIPTION        Z/SENSOR FLAG

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
410812701	1	27461	00	00	NONE	INITIAL RELEASE.

FRU NAME           TIMING BELT LEADSCREW  
 PRODUCT NUMBER   4410  
 FAMID CODE        004  
 FRUID NAME        TIMING BELT LEADSCREW  
 DESCRIPTION       TIMING BELT LEADSCREW

PART NUMBER	COMP NO	EC NO	SOFT REF	HEX FEAT	FIELD BILL	DESCRIPTION OF EC
410962801	1	28232	00	00	NONE	INITIAL RELEASE.

FRU NAME  
PRODUCT NUMBER  
FAMID CODE        004  
FRUID NAME  
DESCRIPTION

PART	COMP	SOFT	HEX	FIELD		
NUMBER	NO	EC NO	REF	FEAT	BILL	DESCRIPTION OF EC

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