



Lexmark MX81x & MX71x MFP

**Machine Type 7463-03x, -23x, -43x, -63x,
-83x, -x96**

Service Manual

- **Start diagnostics**
 - **Maintenance**
 - **Safety and notices**
 - **Trademarks**
 - **Index**
-

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Product information

Product name:

Lexmark MX71x and MX81x Series

Machine type:

7463

Model(s):

03x, 23x, 436, 636, 836

Edition notice

October 18, 2012

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Notices and safety information

Laser notices

Laser notice

The printer is certified in the U.S. to conform to the requirements of DHHS 21 CFR, Chapter I, Subchapter J for Class I (1) laser products, and elsewhere is certified as a Class I laser product conforming to the requirements of IEC 60825-1.

Class I laser products are not considered to be hazardous. The printer contains internally a Class IIIb (3b) laser that is nominally a 10 milliwatt gallium arsenide laser operating in the wavelength of 787-800 nanometers. The laser system and printer are designed so there is never any human access to laser radiation above a Class I level during normal operation, user maintenance, or prescribed service condition.

Laser-Hinweis

Der Drucker wurde in den USA zertifiziert und entspricht den DHHS-Vorschriften 21 CFR, Kapitel I, Unterkapitel J für Laserprodukte der Klasse I (1); andernorts ist er als Laserprodukt der Klasse I zertifiziert, das den IEC 60825-1-Anforderungen entspricht.

Laserprodukte der Klasse I werden nicht als gefährlich eingestuft. Der Drucker enthält im Inneren einen Laser der Klasse IIIb (3b), und zwar einen 10-Milliwatt-Gallium-Arsenid-Laser, der im Wellenlängenbereich von 787 bis 800 Nanometern arbeitet. Das Lasersystem und der Drucker sind so konstruiert, dass unter normalen Betriebsbedingungen, bei der Wartung durch den Benutzer oder bei den vorgeschriebenen Wartungsbedingungen Menschen keiner Laserstrahlung ausgesetzt sind, die die Werte für Klasse I überschreitet.

Avis relatif à l'utilisation du laser

L'imprimante est certifiée conforme aux exigences de la réglementation des Etats-Unis relative aux produits laser (DHHS 21 CFR, Chapter I, Subchapter J for Class I (1)). Pour les autres pays, elle est certifiée conforme aux exigences des normes IEC 60825-1 relatives aux produits laser de classe I.

Les produits laser de Classe I ne sont pas considérés comme dangereux. L'imprimante contient un laser de classe IIIb (3b), laser arséniure de gallium 10 milliwatts opérant sur une longueur d'onde de l'ordre de 787 à 800 nanomètres. Le système laser ainsi que l'imprimante ont été conçus de manière à ce que personne ne soit exposé à des rayonnements laser dépassant le niveau de classe I dans le cadre d'un fonctionnement normal, de l'entretien par l'utilisateur ou de la maintenance.

Avvertenze sui prodotti laser

La stampante è certificata negli Stati Uniti come stampante conforme ai requisiti DHHS 21 CFR, Capitolo I, Sottocapitolo J per i prodotti laser di Classe I (1), mentre in altri paesi è certificata come prodotto laser di Classe I conforme ai requisiti IEC 60825-1.

I prodotti laser di Classe I non sono considerati pericolosi. La stampante contiene un laser di Classe IIIb (3b), che è nominalmente un laser ad arseniuro di gallio a 10milliwatt funzionante a una lunghezza d'onda di 787-800 nanometri. Il sistema laser e la stampante sono stati progettati in modo da impedire l'esposizione a radiazioni laser superiori al livello previsto dalla Classe I durante le normali operazioni di stampa, manutenzione o assistenza.

Aviso de láser

Esta impresora se ha certificado en EE. UU. de conformidad con los requisitos de DHHS 21 CFR, capítulo I, subcapítulo J, para los productos láser de Clase I (1), y en otros países está certificada como un producto láser de Clase I de acuerdo con los requisitos de IEC 60825-1.

Los productos láser de Clase I no se consideran peligrosos. La impresora contiene un láser interno de Clase IIIb (3b) que nominalmente es un láser de arseniuro de galio de 10 milivatios que funciona en una longitud de onda de 787-800 nanómetros. El sistema láser y la impresora se han diseñado para que ningún individuo acceda nunca a las radiaciones láser por encima del nivel de Clase I durante su uso normal, ni en tareas de mantenimiento o intervenciones de servicio técnico prescritas.

Aviso sobre laser

A impressora foi certificada nos EUA por estar em conformidade com os requisitos do DHHS 21 CFR, capítulo I, subcapítulo J, para produtos a laser de Classe I (1) e, nos demais países, foi certificada como produto a laser de Classe I em conformidade com os requisitos da IEC 60825-1.

Os produtos a laser de Classe I não são considerados perigosos. A impressora contém, internamente, um laser de Classe IIIb (3b) que é um laser de arsenieto de gálio de 10 miliwatts operando no comprimento de onda de 787-800 nanômetros. O sistema do laser e a impressora foram projetados para que jamais haja acesso humano à radiação do laser acima do nível da Classe I durante a operação normal ou a manutenção pelo usuário ou sob as condições de manutenção prescritas.

Laserinformatie

Deze printer is in de Verenigde Staten gecertificeerd als een product dat voldoet aan de vereisten van DHHS 21 CFR, hoofdstuk 1, paragraaf J voor laserproducten van klasse I (1). Elders is de printer gecertificeerd als een laserproduct van klasse I dat voldoet aan de vereisten van IEC 60825-1.

Laserproducten van klasse I worden geacht geen gevaar op te leveren. De printer bevat intern een laser van klasse IIIb (3b), een galliumarsenide laser met een nominaal vermogen van 10 milliwatt en een golflengtebereik van 787-800 nanometer. Het lasersysteem en de printer zijn zodanig ontworpen dat gebruikers nooit blootstaan aan laserstraling die hoger is dan het toegestane niveau voor klasse I-apparaten, tijdens normaal gebruik, onderhoudswerkzaamheden door de gebruiker of voorgeschreven servicewerkzaamheden.

Lasererklæring

Denne printer er certificeret i USA i henhold til kravene i DHHS 21 CFR, afsnit I, underafsnit J, for Klasse I-laserprodukter (1) og certificeret andetsteds som et Klasse I-laserprodukt i henhold til kravene i IEC 60825-1.

Klasse I-laserprodukter anses ikke for at være farlige. Printerens indeholder internt en klasse IIIb (3b)-laser, der nominelt er en 10 milliwatt galliumarsenid-laser, som fungerer i bølglængdeområdet 787-800 nanometer. Lasersystemet og printerens er udviklet på en sådan måde, at der ikke er en direkte laserstråling, der overskrider Klasse I-niveauet under normal brug, brugers vedligeholdelse eller de foreskrevne servicebetingelser.

Laserilmoitus

Tämä tulostin on sertifioitu Yhdysvalloissa DHHS 21 CFR, Chapter I, Subchapter J -standardin mukaiseksi luokan I (1) -lasertuotteeksi ja muualla IEC 60825-1 -standardin mukaiseksi luokan I lasertuotteeksi.

Luokan I lasertuotteita ei pidetä haitallisina. Tulostimen sisällä on luokan IIIb (3b) laser, joka on nimellistehoaltaan 10 mW:n galliumarsenidilaser ja toimii 787–800 nanometrin aallonpituuksilla. Laserjärjestelmä ja tulostin ovat rakenteeltaan sellaisia, että käyttäjä ei joudu alttiiksi luokkaa 1 suuremmalle säteilylle normaalin käytön, ylläpidon tai huollon aikana.

Lasermeddelande

Skrivaren är certifierad i USA enligt kraven i DHHS 21 CFR, avsnitt I, underavsnitt J för laserprodukter av klass I (1) och i andra länder är den certifierad som en laserprodukt av klass I som uppfyller kraven i IEC 60825-1.

Laserprodukter av klass I anses inte vara skadliga. Skrivaren innehåller en klass IIIb (3b)-laser, vilket är en 10 mW galliumarseniklaser som arbetar inom en våglängd på 787–800 nm. Lasersystemet och skrivaren är utformade så att människor aldrig utsätts för laserstrålning över klass I-nivå under normala förhållanden vid användning, underhåll eller service.

Lasermerknad

Skrivaren er sertifisert i USA for samsvar med kravene i DHHS 21 CFR, kapittel I, underkapittel J for laserprodukter av klasse I (1), og er andre steder sertifisert som et laserprodukt av klasse I som samsvarer med kravene i IEC 60825-1.

Laserprodukter av klasse I anses ikke som helseskadelige. Skriveren inneholder en intern laser av klasse IIIb (3b) som nominelt er en 10 milliwatt galliumarsenid-laser, og som opererer i bølgelengder på 787-800 nanometer. Lasersystemet og skriveren er utformet slik at mennesker ikke utsettes for laserstråling utover nivået i klasse I under normal drift, vedlikehold eller foreskrevet service.

Avís sobre el làser

Als EUA, la impressora està certificada de conformitat amb els requisits del capítol I, apartat J del CFR 21 del Departament de Salut i Serveis Humans per a productes làser de classe I (1) i a la resta de països està certificada com a producte làser de classe I d'acord amb els requisits de la norma IEC 60825-1.

Els productes làser de classe I no es consideren perillosos. A l'interior de la impressora hi ha un làser de classe IIIb (3b) que nominalment es un arsenur de galió de 10 mil·liwatts que funciona a una longitud d'ona de 787-800 nanòmetres. El sistema làser y la impressora s'han dissenyat amb l'objectiu d'impedir l'accés humà de la radiació làser superior al nivell de classe I durant un funcionament normal, el manteniment per part de l'usuari o les condicions de servei prescrites.

レーザーに関する通知

本機は、米国においてクラス I (1) レーザー製品に対する DHHS 21 CFR、Chapter I、Subchapter J の要件に準拠し、その他の国では IEC 60825-1 の要件に準拠するクラス I レーザー製品として認可されています。

クラス I レーザー製品は、危険性がないとみなされています。本機には、クラス IIIb (3b) レーザーが内蔵されています。これは、787 ~ 800 ナノメートルの波長で動作する定格 7 ミリワットのガリウムヒ素レーザーです。レーザーシステムとプリンタは、通常の操作、ユーザーによるメンテナンス、または所定のサービス条件の下で、ユーザーがクラス I レベルを超えるレーザー放射に絶対にさらされないように設計されています。

레이저 관련 공지

이 프린터는 미국에서 DHHS 21 CFR, Chapter I, Subchapter J 의 요구 사항을 준수하는 클래스 I(1) 레이저 제품으로 승인되었으며 이외 지역에서 IEC 60825-1 의 요구 사항을 준수하는 클래스 I 레이저 제품으로 승인되었습니다.

Class I 레이저 제품은 위험한 제품으로 간주되지 않습니다. 프린터에는 655-675 나노미터의 파장 영역에서 작동하는 공칭 7 밀리와트 갈륨 비소 레이저인 클래스 IIIb(3b) 레이저가 내부에 포함되어 있습니다. 레이저 시스템과 프린터는 정상적인 작동, 사용자 유지 관리 또는 사전 설명된 서비스 조건에는 사람에게 클래스 I 수준 이상의 레이저 방사가 노출되지 않도록 설계되었습니다.

激光注意事项

本打印机在美国认证合乎 DHHS 21 CFR Chapter I, Subchapter J 对分类 I (1) 激光产品的标准, 而在其他地区则被认证是合乎 IEC 60825-1 的分类 I 激光产品。

一般认为分类 I 激光产品不具有危险性。本打印机内部含有分类 IIIb (3b) 的激光, 在操作过程中会产生额定 7 毫瓦的砷化镓激光, 其波长范围在 787-800nm 之间。本激光系统及打印机的设计, 在一般操作、使用者维护或规定内的维修情况下, 不会使人体接触分类 I 以上等级的辐射。

雷射聲明

本印表機係經過美國核可, 符合 DHHS 21 CFR, Chapter I, Subchapter J 規定的 I (1) 級雷射產品激光注意事項; 在美國以外的地區, 為符合 IEC 60825-1 規定的 I 級雷射產品。

根據 I 級雷射產品的規定, 這類產品不會對人體造成傷害。本機所採用之 IIIb (3b) 級雷射只會產生 7 百萬分之一瓦特 (milliwatt)、波長 787 至 800 億分之一米 (nanometer) 的鎵砷放射線 (gallium arsenide laser)。使用者只要以正確的方法操作及維護保養, 並依照先前所述之維修方式進行修護, 此印表機與其雷射系統絕不會產生 I 級以上的放射線, 而對人體造成傷害。

Safety

Lithium warning



CAUTION—POTENTIAL INJURY: This product contains a lithium battery. THERE IS A RISK OF EXPLOSION IF THE BATTERY IS REPLACED BY AN INCORRECT TYPE. Discard used batteries according to the battery manufacturer's instructions and local regulations.

Safety information

- The safety of this product is based on testing and approvals of the original design and specific components. The manufacturer is not responsible for safety in the event of use of unauthorized replacement parts.
- The maintenance information for this product has been prepared for use by a professional service person and is not intended to be used by others.
- There may be an increased risk of electric shock and personal injury during disassembly and servicing of this product. Professional service personnel should understand this and take necessary precautions.

Consignes de sécurité

- La sécurité de ce produit repose sur des tests et des agréments portant sur sa conception d'origine et sur des composants particuliers. Le fabricant n'assume aucune responsabilité concernant la sécurité en cas d'utilisation de pièces de rechange non agréées.
- Les consignes d'entretien et de réparation de ce produit s'adressent uniquement à un personnel de maintenance qualifié.
- Le démontage et l'entretien de ce produit pouvant présenter certains risques électriques, le personnel d'entretien qualifié devra prendre toutes les précautions nécessaires.

ATTENTION : Ce symbole indique la présence d'une tension dangereuse dans la partie du produit sur laquelle vous travaillez. Débranchez le produit avant de commencer ou faites preuve de vigilance si l'exécution de la tâche exige que le produit reste sous tension.

Norme di sicurezza

- La sicurezza del prodotto si basa sui test e sull'approvazione del progetto originale e dei componenti specifici. Il produttore non è responsabile per la sicurezza in caso di sostituzione non autorizzata delle parti.
- Le informazioni riguardanti la manutenzione di questo prodotto sono indirizzate soltanto al personale di assistenza autorizzato.
- Durante lo smontaggio e la manutenzione di questo prodotto, il rischio di subire scosse elettriche e danni alla persona è più elevato. Il personale di assistenza autorizzato deve, quindi, adottare le precauzioni necessarie.

ATTENZIONE: Questo simbolo indica la presenza di tensione pericolosa nell'area del prodotto. Scollegare il prodotto prima di iniziare o usare cautela se il prodotto deve essere alimentato per eseguire l'intervento.

Sicherheitshinweise

- Die Sicherheit dieses Produkts basiert auf Tests und Zulassungen des ursprünglichen Modells und bestimmter Bauteile. Bei Verwendung nicht genehmigter Ersatzteile wird vom Hersteller keine Verantwortung oder Haftung für die Sicherheit übernommen.
- Die Wartungsinformationen für dieses Produkt sind ausschließlich für die Verwendung durch einen Wartungsfachmann bestimmt.
- Während des Auseinandernehmens und der Wartung des Geräts besteht ein zusätzliches Risiko eines elektrischen Schlags und körperlicher Verletzung. Das zuständige Fachpersonal sollte entsprechende Vorsichtsmaßnahmen treffen.

ACHTUNG: Dieses Symbol weist auf eine gefährliche elektrische Spannung hin, die in diesem Bereich des Produkts auftreten kann. Ziehen Sie vor den Arbeiten am Gerät den Netzstecker des Geräts, bzw. arbeiten Sie mit großer Vorsicht, wenn das Produkt für die Ausführung der Arbeiten an den Strom angeschlossen sein muß.

Pautas de Seguridad

- La seguridad de este producto se basa en pruebas y aprobaciones del diseño original y componentes específicos. El fabricante no es responsable de la seguridad en caso de uso de piezas de repuesto no autorizadas.
- La información sobre el mantenimiento de este producto está dirigida exclusivamente al personal cualificado de mantenimiento.
- Existe mayor riesgo de descarga eléctrica y de daños personales durante el desmontaje y la reparación de la máquina. El personal cualificado debe ser consciente de este peligro y tomar las precauciones necesarias.

PRECAUCIÓN: este símbolo indica que el voltaje de la parte del equipo con la que está t

Informações de Segurança

- A segurança deste produto baseia-se em testes e aprovações do modelo original e de componentes específicos. O fabricante não é responsável pela segurança, no caso de uso de peças de substituição não autorizadas.
- As informações de segurança relativas a este produto destinam-se a profissionais destes serviços e não devem ser utilizadas por outras pessoas.
- Risco de choques eléctricos e ferimentos graves durante a desmontagem e manutenção deste produto. Os profissionais destes serviços devem estar avisados deste facto e tomar os cuidados necessários.

CUIDADO: Quando vir este símbolo, existe a possível presença de uma potencial tensão perigosa na zona do produto em que está a trabalhar. Antes de começar, desligue o produto da tomada eléctrica ou seja cuidadoso caso o produto tenha de estar ligado à corrente eléctrica para realizar a tarefa necessária.

Informació de Seguretat

- La seguretat d'aquest producte es basa en l'avaluació i aprovació del disseny original i els components específics. El fabricant no es fa responsable de les qüestions de seguretat si s'utilitzen peces de recanvi no autoritzades.
- La informació pel manteniment d'aquest producte està orientada exclusivament a professionals i no està destinada a ningú que no ho sigui.
- El risc de xoc elèctric i de danys personals pot augmentar durant el procés de desmuntatge i de servei d'aquest producte. El personal professional ha d'estar-ne assabentat i prendre les mesures convenients.

PRECAUCIÓ: aquest símbol indica que el voltatge de la part de l'equip amb la qual esteu t

Preface

This manual contains maintenance procedures for service personnel.

It is divided into the following chapters:

- **General information** contains a general description of the printer and the maintenance approach used to repair it. Special tools and test equipment, as well as general environmental and safety instructions, are discussed.
- **Diagnostic information** contains diagnostic aids you can use to isolate failing field replaceable units. These diagnostic aids include error code tables, symptom tables, and service checks.
- **Diagnostic aids** contains descriptions of the printer interface, the user and service menus, and the basic theory of printer operation.
- **Repair** information provides instructions for making printer adjustments and removing and installing FRUs.
- **Connector locations** uses illustrations to identify the connector locations.
- **Preventive maintenance** contains the lubrication specifications and recommendations to prevent problems.
- **Parts catalog** contains illustrations and part numbers for individual FRUs.
- Appendix A—Contains service tips and detailed information about the product, including the basic theory of printer operation.
- Appendix B—Contains representative print samples.

Service manual conventions

Note: A *note* provides additional information.

Warning—Potential Damage: A *warning* identifies something that might damage the product hardware or software.

This service manual uses several different types of caution statements:



CAUTION—POTENTIAL INJURY: A *caution* identifies something that might cause the service technician harm.



CAUTION—SHOCK HAZARD: This type of caution indicates a danger from hazardous voltage in the area of the product where you are working. Unplug the product before you start working, or use caution if the product must receive power to perform the task.



CAUTION—HOT SURFACE: This type of caution indicates a hot surface.



CAUTION—TIPPING HAZARD: This type of caution indicates a tipping hazard.

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General information

- **“Paper guidelines” on page 29**
- **“Data security notice” on page 33**
- **“Tools required for service” on page 33**

The Lexmark™ MX71x and MX81x are network-capable, multi-function laser printers that print monochrome print jobs. The operator panel is touch-sensitive and lets the user adjust the viewing angle. All information in this service manual pertains to all models unless explicitly noted.

The printers are available in the following models:

Model	Configurations	Machine type / model
MX710de 3	Laser Mono MFP Duplex, Network, Touch panel	7463-032
MX710de 4	Laser Mono MFP Duplex, Network, Modem, Touch panel	7463-036
MX710dhe 4	Laser Mono MFP Duplex, Network, Modem, Touch panel, HD	7463-037
MX711de 3	Laser Mono MFP Duplex, Network, Touch panel	7463-232
MX711de 4	Laser Mono MFP Duplex, Network, Modem, Touch panel	7463-236
MX711dhe 4	Laser Mono MFP Duplex, Network, Modem, Touch panel, HD	7463-237
MX810de	Laser Mono MFP Duplex, Network, Modem, Touch panel, HD	7463-436
MX811de	Laser Mono MFP Duplex, Network, Modem, Touch panel, HD	7463-636
MX812de	Laser Mono MFP Duplex, Network, Modem, Touch panel, HD	7463-836

The diagnostic information in this manual leads you to the correct field replaceable unit (FRU) or part. Use the error code charts, symptom index, and service checks to determine the symptom and then repair the failure. After you complete the repair, perform tests as needed to verify the repair.

To begin diagnosing a problem, go to **“Diagnostic information” on page 35**. See **“Repair information” on page 263** for information about removing and reinstalling parts. See **“Parts catalog” on page 650** to help identify parts.

Paper guidelines

Paper characteristics

The following paper characteristics affect print quality and reliability. Consider these factors before printing on them:

Weight

The printer trays and multipurpose feeder can automatically feed paper weights between 60–176 g/m² (16–47-lb) grain long paper. The 2100-sheet tray can automatically feed paper weights up to 60–135 g/m² (16–36-lb) grain long paper. Paper lighter than 60 g/m² (16 lb) might not be stiff enough to feed properly, and may cause jams.

Note: Two-sided printing is supported for 60–176 g/m² (16–47-lb) paper.

Curl

Curl is the tendency for paper to curl at its edges. Excessive curl can cause paper feeding problems. Curl can occur after the paper passes through the printer, where it is exposed to high temperatures. Storing paper unwrapped in hot, humid, cold, or dry conditions, even in the trays, can contribute to paper curling prior to printing and can cause feeding problems.

Smoothness

Paper smoothness directly affects print quality. If paper is too rough, toner cannot fuse to it properly. If paper is too smooth, it can cause paper feeding or print quality issues. Always use paper between 100 and 300 Sheffield points; smoothness between 150 and 250 Sheffield points produces the best print quality.

Moisture content

The amount of moisture in paper affects both print quality and the ability of the printer to feed the paper correctly. Leave paper in its original wrapper until it is time to use it. This limits the exposure of paper to moisture changes that can degrade its performance.

Store paper in its original wrapper in the same environment as the printer for 24 to 48 hours before printing. Extend the time several days if the storage or transportation environment is very different from the printer environment. Thick paper may also require a longer conditioning period.

Grain direction

Grain refers to the alignment of the paper fibers in a sheet of paper. Grain is either *grain long*, running the length of the paper, or *grain short*, running the width of the paper.

For 60–176 g/m² (16–47-lb) paper, grain long paper is recommended.

Fiber content

Most high-quality xerographic paper is made from 100% chemically treated pulped wood. This content provides the paper with a high degree of stability, resulting in fewer paper feeding problems and better print quality. Paper containing fibers such as cotton can negatively affect paper handling.

Selecting paper

Using the appropriate paper prevents jams and helps ensure trouble-free printing.

To help avoid paper jams and poor print quality:

- Always use new, undamaged paper.
- Before loading paper, know the recommended printable side of the paper. This information is usually indicated on the paper package.
- Do not use paper that has been cut or trimmed by hand.

- *Do not* mix paper sizes, types, or weights in the same tray; mixing results in jams.
- *Do not* use coated papers unless they are specifically designed for electrophotographic printing.

Selecting preprinted forms and letterhead

- Use grain long for 60–90-g/m² (16–24-lb) paper.
- Use only forms and letterhead printed using an offset lithographic or engraved printing process.
- Avoid paper with rough or heavily textured surfaces.
- Use inks that are not affected by the resin in toner. Inks that are oxidation-set or oil-based generally meet these requirements; latex inks might not.
- Print samples on preprinted forms and letterheads considered for use before buying large quantities. This determines whether or not the ink in the preprinted form or letterhead will affect print quality.
- When in doubt, contact your paper supplier.

Using recycled paper and other office papers

As an environmentally conscientious company, Lexmark supports the use of recycled paper produced specifically for use in laser (electrophotographic) printers.

While no blanket statement can be made that all recycled paper will feed well, Lexmark consistently tests papers that represent recycled cut size copier papers available on the global market. This scientific testing is conducted with rigor and discipline. Many factors are taken into consideration both separately and as a whole, including the following:

- Amount of post-consumer waste (Lexmark tests up to 100% post-consumer waste content.)
- Temperature and humidity conditions (Testing chambers simulate climates from all over the world.)
- Moisture content (Business papers should have low moisture: 4–5%.)
- Bending resistance and proper stiffness means optimum feeding through the printer.
- Thickness (impacts how much can be loaded into a tray)
- Surface roughness (measured in Sheffield units, impacts print clarity and how well toner fuses to the paper)
- Surface friction (determines how easily sheets can be separated)
- Grain and formation (impacts curling, which also influences the mechanics of how the paper behaves as it moves through the printer)
- Brightness and texture (look and feel)

Recycled papers are better than ever; however, the amount of recycled content in a paper affects the degree of control over foreign matter. And while recycled papers are one good path to printing in an environmentally responsible manner, they are not perfect. The energy required to de-ink and deal with additives such as colorants and “glue” often generates more carbon emissions than does normal paper production. However, using recycled papers enables better resource management overall.

Lexmark concerns itself with the responsible use of paper in general based on life cycle assessments of its products. To gain a better understanding of the impact of printers on the environment, the company commissioned a number of life cycle assessments and found that paper was identified as the primary contributor (up to 80%) of carbon emissions caused throughout the entire life of a device (from design to end-of-life). This is due to the energy-intensive manufacturing processes required to make paper.

Thus, Lexmark seeks to educate customers and partners on minimizing the impact of paper. Using recycled paper is one way. Eliminating excessive and unnecessary paper consumption is another. Lexmark is well-equipped to help

customers minimize printing and copying waste. In addition, the company encourages purchasing paper from suppliers who demonstrate their commitment to sustainable forestry practices.

Lexmark does not endorse specific suppliers, although a converter's product list for special applications is maintained. However, the following paper choice guidelines will help alleviate the environmental impact of printing:

- 1 Minimize paper consumption.
- 2 Be selective about the origin of wood fiber. Buy from suppliers who carry certifications such as the Forestry Stewardship Council (FSC) or The Program for the Endorsement of Forest Certification (PEFC). These certifications guarantee that the paper manufacturer uses wood pulp from forestry operators that employ environmentally and socially responsible forest management and restoration practices.
- 3 Choose the most appropriate paper for printing needs: normal 75 or 80 g/m² certified paper, lower weight paper, or recycled paper.

Unacceptable paper examples

Test results indicate that the following paper types are at risk for use with laser printers:

- Chemically treated papers used to make copies without carbon paper, also known as *carbonless papers*
- Preprinted papers with chemicals that may contaminate the printer
- Preprinted papers that can be affected by the temperature in the printer fuser
- Preprinted papers that require a registration (the precise location on the page) greater than ± 2.3 mm (± 0.9 in.), such as optical character recognition (OCR) forms. In some cases, registration can be adjusted with a software application to successfully print on these forms.)
- Coated papers (erasable bond), synthetic papers, thermal papers
- Rough-edged, rough or heavily textured surface papers or curled papers
- Recycled papers that fail EN12281:2002 (European testing)
- Paper weighing less than 60 g/m² (16 lb)
- Multiple part forms or documents

For more information about Lexmark, visit www.lexmark.com. General sustainability-related information can be found at the **Environmental Sustainability** link.

Storing paper

Use these paper storage guidelines to help avoid jams and uneven print quality:

- For best results, store paper where the temperature is 21°C (70°F) and the relative humidity is 40 percent. Most label manufacturers recommend printing in a temperature range of 18–24°C (65–75°F) with relative humidity between 40 and 60 percent.
- Store paper in cartons, on a pallet or shelf, rather than on the floor.
- Store individual packages on a flat surface.
- Do not store anything on top of individual paper packages.
- Take paper out of the carton or wrapper only when you are ready to load it in the printer. The carton and wrapper help keep the paper clean, dry, and flat.

Data security notice

This printer contains various types of memory that are capable of storing device and network settings, information from embedded solutions, and user data:

- **Volatile memory**—This device utilizes standard Random Access Memory (RAM) to temporarily buffer user data during simple print and copy jobs.
- **Non-volatile memory**—This device may utilize two forms of non-volatile memory: EEPROM and NAND (flash memory). Both types are used to store the operating system, device settings, network information, scanner and bookmark settings, and embedded solutions.
- **Hard disk memory**—Some devices have a hard disk drive installed. The printer hard disk is designed for device-specific functionality and cannot be used for long term storage for data that is not print-related. The hard disk does not provide the capability for users to extract information, create folders, create disk or network file shares, or FTP information directly from a client device. The hard disk can retain buffered user data from complex scan, print, copy, and fax jobs, as well as form data, and font data.

To erase volatile memory, turn off the printer.

To erase non-volatile memory, see **“Erase All Information on Disk” on page 256**.

To erase the printer hard disk, see **“Wipe All Settings” on page 257**.

The printer control panel and RIP/controller board contain NVRAM. The old part must be returned to your next level support.

Tools required for service

Flat-blade screwdrivers, various sizes
 #1 Phillips screwdriver, magnetic
 #2 Phillips screwdriver, magnetic
 #2 Phillips screwdriver, magnetic short-blade
 7/32 inch (5.5 mm) open-end wrench
 7.0 mm nut driver
 Needlenose pliers
 Diagonal side cutters
 Spring hook
 Feeler gauges
 Analog or digital multimeter
 Parallel wrap plug 1319128
 Twinax/serial debug cable 1381963
 Coax/serial debug cable 1381964
 Flash light (optional)
 3mm hex wrench

Diagnostic information

- **“Troubleshooting overview” on page 35**
- **“Power-on Reset (POR) sequence” on page 36**
- **“Using Safe Mode” on page 37**
- **“Fixing print quality issues” on page 37**
- **“Paper jams” on page 51**
- **“User attendance messages (0-99.99)” on page 97**
- **“Printer hardware errors (100-199.99)” on page 104**
- **“ADF and scanner errors” on page 117**
- **“Firmware and/or system electronics errors (900-999.99)” on page 138**
- **“Input/output option hardware errors” on page 147**
- **“Input/output option paper jam errors” on page 162**
- **“Symptoms” on page 199**

 **CAUTION—SHOCK HAZARD:** Remove the power cord from the electrical outlet before you connect or disconnect any cable or electronic card or assembly for personal safety and to prevent damage to the printer. Disconnect any connections between the printer and PCs/peripherals.

 **CAUTION—POTENTIAL INJURY:** The printer weight is greater than 18 kg (40 lb) and requires two or more trained personnel to lift it safely.

 **CAUTION—HOT SURFACE:** The inside of the printer might be hot. To reduce the risk of injury from a hot component, allow the surface to cool before touching.

Troubleshooting overview

- **“Performing the initial troubleshooting check” on page 35**
- **“Error code number key” on page 36**

Performing the initial troubleshooting check

Before you start the troubleshooting procedures, perform the following checks:

- With the power cord unplugged from the wall outlet, check that the cord is free from breakage, short-circuits, disconnected wires, or incorrect connections.
- Make sure the printer is properly grounded. Check the power cord ground terminal.
- Make sure the power supply line voltage is within 10% of the rated line voltage.
- Make sure the machine is securely installed on a level surface in a well-ventilated area.
- Make sure the room temperature is between 16 and 32°C (60 and 90°F) and that the relative humidity is between 20 and 80%.
- Avoid sites generating ammonia gas, high temperature, high humidity (near water faucets, kettles, humidifiers), cold spaces, near open flames, and dusty areas.
- Avoid sites exposed to direct sunlight.

Parts catalog

- “Legend” on page 651
- “Assembly 1: Covers (MX71x)” on page 653
- “Assembly 2: Covers (MX81x)” on page 655
- “Assembly 3: Paper path” on page 659
- “Assembly 4: Fusers” on page 661
- “Assembly 5: Electronics” on page 663
- “Assembly 6: Drive motors” on page 667
- “Assembly 7: Frame” on page 669
- “Assembly 8: Control panel (MX71x)” on page 671
- “Assembly 9: Control panel 10-inch display (MX81x)” on page 675
- “Assembly 10: Paper tray” on page 677
- “Assembly 11: ADF assembly” on page 679
- “Assembly 12: ADF covers” on page 681
- “Assembly 13: ADF mechanical” on page 685
- “Assembly 14: ADF electronics” on page 687
- “Assembly 15: Flatbed scanner (MX710 and MX711)” on page 691
- “Assembly 16: Flatbed scanner (MX810, MX811 and MX812)” on page 695
- “Assembly 17: Input options (MX710 and MX711)” on page 697
- “Assembly 18: Input options (MX810, MX811 and MX812)” on page 699
- “Assembly 19: 250-sheet tray option (MX710 and MX711)” on page 701
- “Assembly 20: 550-sheet tray option (MX710 and MX711)” on page 703
- “Assembly 21: 550-sheet tray option (MX810, MX811, MX812)” on page 705
- “Assembly 22: High capacity input tray option 1 (MX710 and MX711)” on page 707
- “Assembly 23: High capacity input tray option 2 (MX710 and MX711)” on page 709
- “Assembly 24: High capacity input tray option 3 (MX810, MX811, MX812)” on page 711
- “Assembly 25: High capacity input tray option 4 (MX810, MX811, MX812)” on page 713
- “Assembly 26: Output options (MX810, MX811, and MX812)” on page 715
- “Assembly 27: Staple finisher option 1” on page 717
- “Assembly 28: Staple finisher option 2” on page 719
- “Assembly 29: Mailbox option 1” on page 721
- “Assembly 30: Mailbox option 2” on page 723
- “Assembly 31: Offset stacker option 1” on page 725
- “Assembly 32: Offset stacker option 2” on page 727
- “Assembly 33: Miscellaneous” on page 729
- “Assembly 34: Power cords” on page 731

Legend

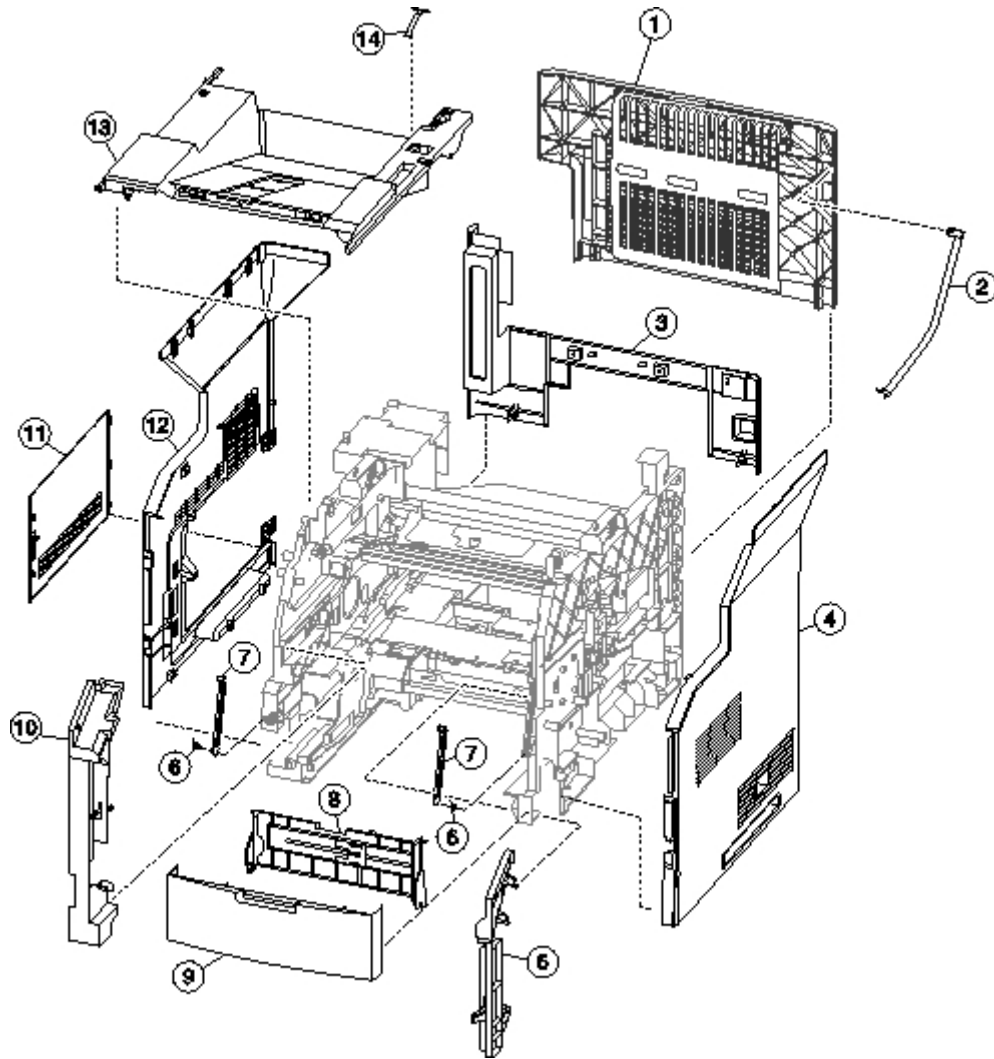
The following column headings are used in the parts catalog:

- **Asm-index**—Identifies the assembly and the item in the diagram. For example, 3-1 indicates Assembly 3 and item 1 in the table.
- **Part number**—Identifies the unique number that correlates with the part.
- **Units/mach**—Refers to the number of units actually used in the base machine or product.
- **Units/option**—Refers to the number of units in a particular option.
- **Units/FRU**—Refers to the number of units in a particular FRU.
- **Description**—A brief description of the part.

The following abbreviations are used in the parts catalog:

- **NS** (not shown) in the Asm-index column indicates that the part is procurable but is not pictured in the illustration.
- **PP** (parts packet) in the Description column indicates that the part is contained in a parts packet.

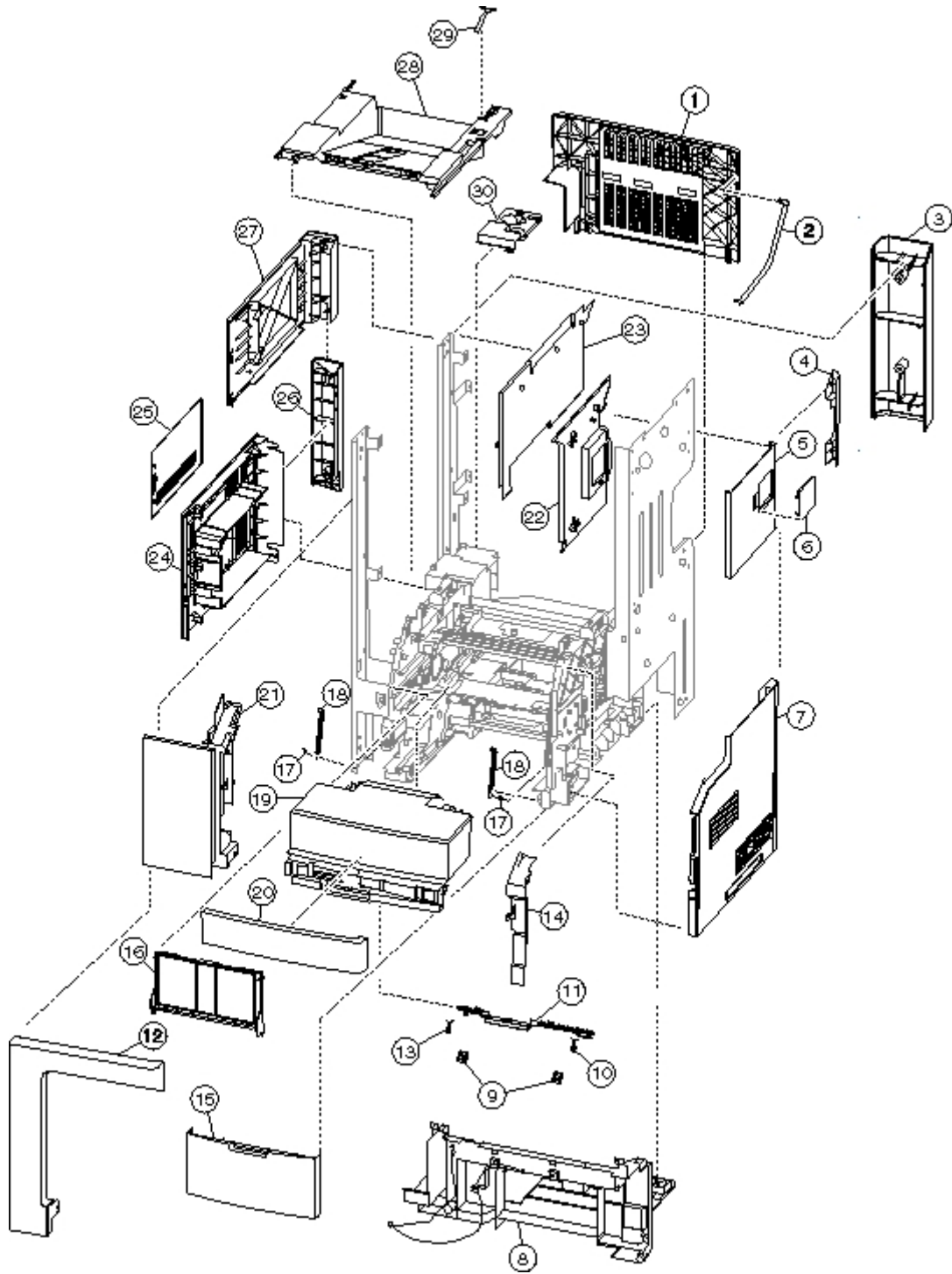
Assembly 1: Covers (MX71x)



Assembly 1: Covers (MX71x)

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X7678	1	1	Rear door	See “Rear door removal” on page 302.
2	40X7726	1	1	Rear door support	N/A
3	40X7904	1	1	Rear lower cover	See “Rear lower cover removal” on page 304.
4	40X7907	1	1	Right cover	See “Right cover removal (MX71x)” on page 306.
5	40X7897	1	1	Right inner cover	See “Right inner cover removal (MX71x)” on page 308.
6	40X7690	2	1	Torsion spring	N/A
7	40X7894	2	1	Front door support link	N/A
8	40X7895	1	1	MPF tray	See “MPF tray removal” on page 327.
9	40X7898	1	1	Front door	See “Front door removal” on page 311.
10	40X7896	1	1	Inner left cover	See “Left inner cover removal” on page 300.
11	40X7949	1	1	Controller board access cover	See “Controller board access cover removal” on page 373.
12	40X7906	1	1	Left cover	See “Left cover removal (MX71x)” on page 296.
13	40X7905	1	1	Standard bin cover	See “Standard bin cover removal (MX71x)” on page 350.
14	40X7604	2	1	Output bin guide	N/A

Assembly 2: Covers (MX81x)

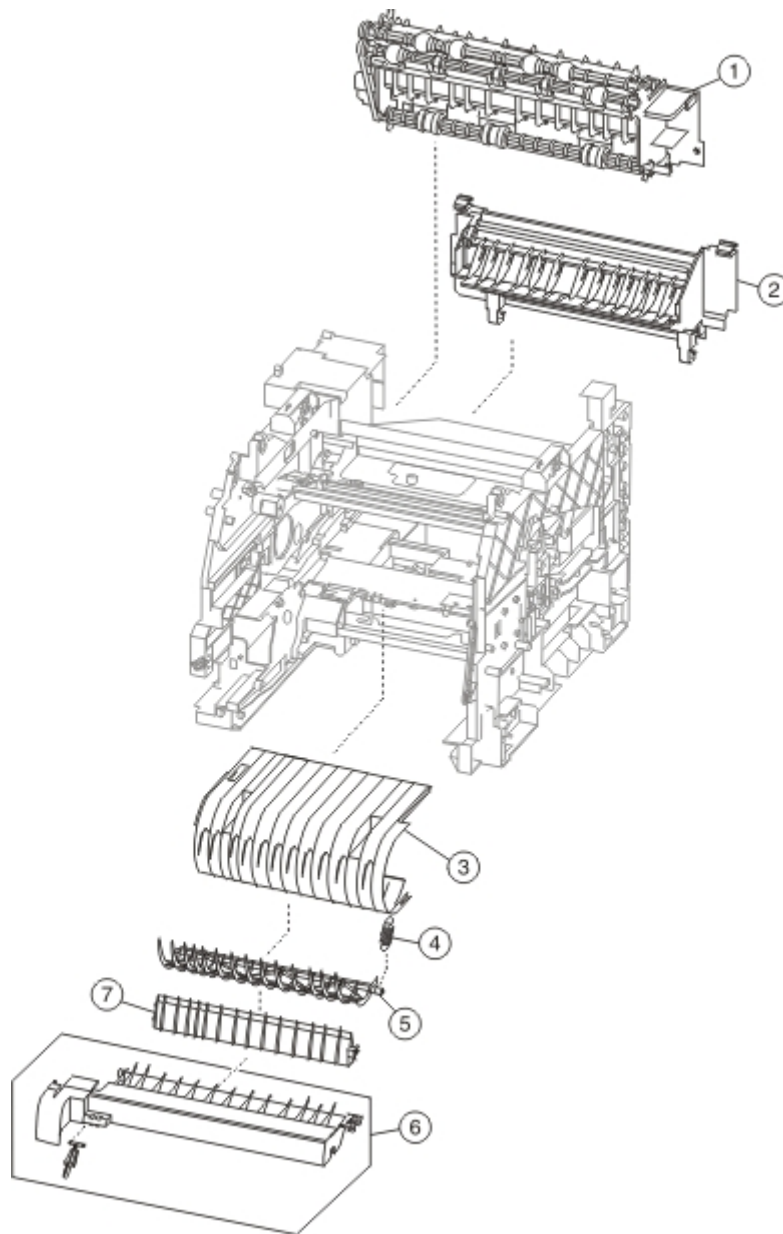


Assembly 2: Covers (MX81x)

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X7939	1	1	Rear door	See “Rear door removal” on page 302.
2	40X7726	1	1	Rear door support	N/A
3	40X7924	1	1	Column left rear cover	N/A
4	40X8368	1	1	Column right rear cover	N/A
5	40X7925	1	1	Column right outer cover	See “Column right outer cover removal” on page 295.
6	40X7946	1	1	Stapler door with beacon	N/A
7	40X7930	1	1	Right cover	See “Right cover removal (MX81x)” on page 307.
8	40X7934	1	1	Rear lower door with beacon	See “Rear lower door removal (MX81x)” on page 305.
9	40X7947	2	1	Cartridge door latch bracket	N/A
10	40X7731	1	1	Torsion spring	N/A
11	40X7937	1	1	Cartridge door latch	N/A
12	40X7928	1	1	Column left front cover	See “Column left front cover removal (MX81x)” on page 291.
13	40X7730	1	1	Torsion spring	N/A
14	40X7913	2	1	Right inner cover	N/A
15	40X8037	1	1	Front door	See “Front door removal” on page 311.
16	40X7725	1	1	MPF tray	See “MPF tray removal” on page 327.
17	40X7690	2	1	Torsion spring	N/A
18	40X7715	2	1	Front door support link	N/A
19	40X7938	2	1	Cartridge door with beacon	See “Cartridge door removal” on page 346.
20	40X7950	1	1	Cartridge door front cover	N/A
21	40X7914	1	1	Left inner cover	N/A
22	40X7926	1	1	Column right inner cover	See “Column right inner cover removal” on page 294.
23	40X7929	1	1	Column left inner cover	N/A
24	40X7931	1	1	Left cover	See “Left cover removal (MX81x)” on page 298.

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
25	40X7951	1	1	Controller board access cover	See “Controller board access cover removal” on page 373.
26	40X7933	1	1	Left rear cover	N/A
27	40X7927	2	1	Column left outer cover	See “Column left outer cover removal (MX81x)” on page 292.
28	40X7940	1	1	Standard bin cover	See “Standard bin cover removal (MX71x)” on page 350.
29	40X7604	1	1	Output bin guide	N/A
30	40X7945	1	1	Sensor bin cover	See “Output bin sensor cover removal” on page 349.
NS	40X7916	1	1	• Cartridge door beacon • MPF door beacon and cable	N/A
NS	40X7917	1	1	Rear lower door beacon and cable, interlock sensor cable	N/A
NS	40X7918	1	1	Rear door beacon with cable and contacts, interlock sensor cable	N/A
NS	40X7919	1	1	Stapler door beacon and cable	N/A
NS	40X7921	1	1	Rear door beacon	N/A
NS	40X7922	1	1	Front door interlock sensor cable	N/A
NS	40X7573	1	1	Standard tray beacon and cable	N/A
NS	40X7915	1	1	Pick arm beacon cable	N/A

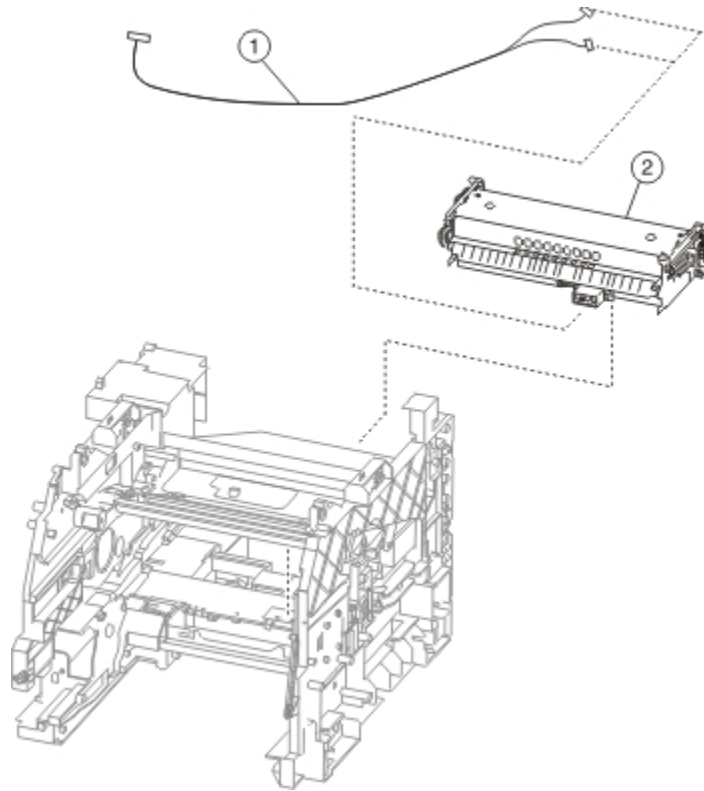
Assembly 3: Paper path



Assembly 3: Paper path

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X7602	1	1	Upper redrive	See “Upper redrive removal” on page 354.
2	40X7588	1	1	Fuser access door (MX81x)	See “Fuser access door removal” on page 342.
2	40X8399	1	1	Fuser access door (MX71x)	See “Fuser access door removal” on page 342.
3	40X7587	1	1	Inner guide deflector	See “Inner guide deflector removal” on page 312.
4	40X7585	1	1	Recoil spring	N/A
5	40X7584	1	1	Duplex exit diverter	See “Duplex exit diverter removal” on page 309.
6	40X7583	1	1	Media turn guide	See “Media turn guide removal” on page 320.
7	40X7586	1	1	Media vertical guide	See “Media vertical guide removal” on page 321.

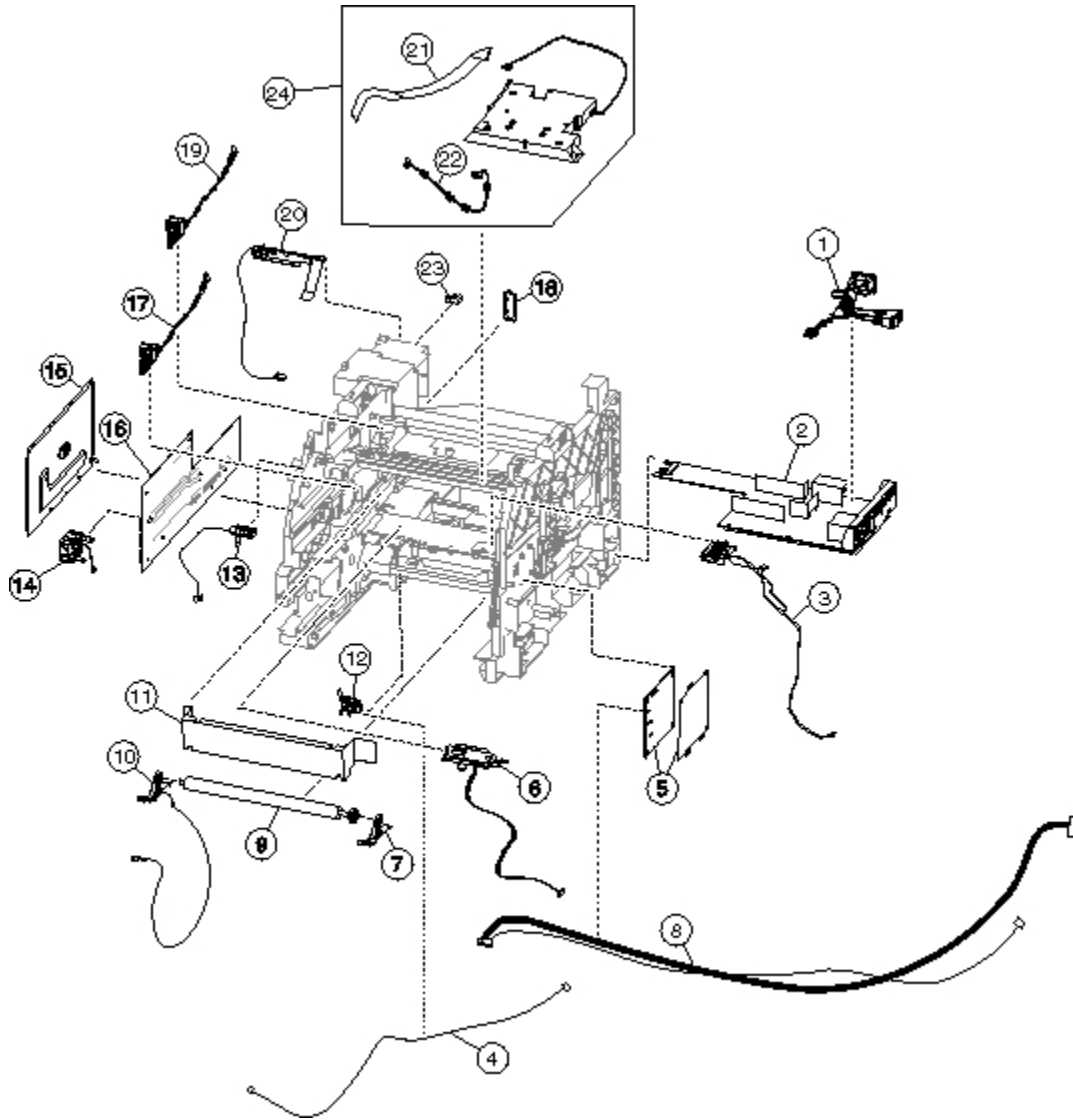
Assembly 4: Fusers



Assembly 4: Fusers

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X7577		Fuser data cable	N/A	
2	40X7743	1	1	MX81x Return Program Fuser Type 00, 110-120V Letter	See “Fuser removal” on page 340.
2	40X7744	1	1	MX81x Return Program Fuser Type 01, 220-240V A4	See “Fuser removal” on page 340.
2	40X7745	1	1	MX81x Return Program Fuser Type 02, 100V A4	See “Fuser removal” on page 340.
2	40X7581	1	1	MX81x Return Program Fuser Type 03, 110-120V A4	See “Fuser removal” on page 340.
2	40X7734	1	1	MX81x Return Program Fuser Type 04, 220-240V Letter	See “Fuser removal” on page 340.
2	40X8016	1	1	MX81x Fuser Type 05, 110-120V Letter	See “Fuser removal” on page 340.
2	40X8017	1	1	MX81x Fuser Type 06, 220-240V A4	See “Fuser removal” on page 340.
2	40X8018	1	1	MX81x Fuser Type 07, 100V A4	See “Fuser removal” on page 340.
2	40X8019	1	1	MX81x Fuser Type 08, 110-120V A4	See “Fuser removal” on page 340.
2	40X8020	1	1	MX81x Fuser Type 09, 220-240V Letter	See “Fuser removal” on page 340.

Assembly 5: Electronics

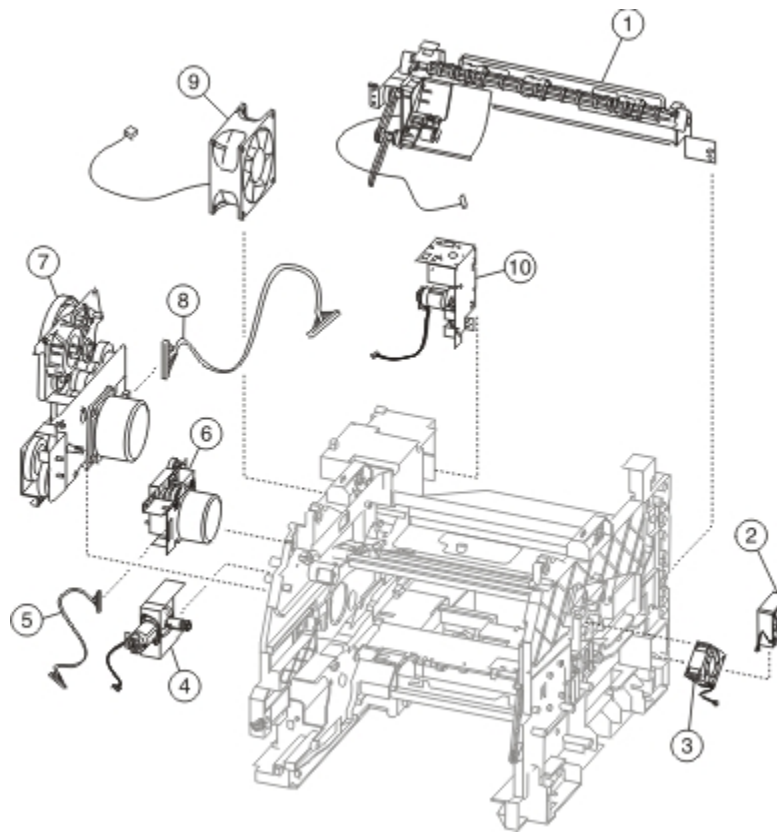


Assembly 5: Electronics

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X8101	1	1	Power switch	See “Power switch removal” on page 392.
2	40X7676	1	1	LVPS	See “LVPS removal” on page 389.
3	40X7685	1	1	Toner level / imaging unit high voltage contact	See “HVPS removal” on page 388.
4	40X7688	1	1	Input sensor cable	N/A
5	40X7578	1	1	HVPS	See “HVPS removal” on page 388.
6	40X7686	1	1	Sensor (toner density) Includes shutter and cable	See “Transfer roller right arm removal” on page 333.
7	40X7606	1	1	Transfer roller right arm	See “Transfer roller right arm removal” on page 333.
8	40X7699	1	1	HVPS/toner cartridge fan cable	N/A
9	40X7582	1	1	Transfer roller	See “Transfer roller removal” on page 336.
10	40X7605	1	1	Transfer roller left arm with cable	See “Transfer roller left arm with cable removal” on page 332.
11	40X8365	1	1	Printhead access cover	See “Sensor (input) removal” on page 329.
12	40X7607	1	1	Sensor (input)	See “Sensor (input) removal” on page 329.
13	40X7693	1	1	Sensor (control panel interlock) Includes bracket and cable	See “Sensor (control panel interlock) removal” on page 382.
14	40X7874	1	1	Controller board cooling fan	N/A
15	40X8100	1	1	Controller board access shield (MX71x)	See “Controller board access shield removal” on page 374.
15	40X7722	1	1	Controller board access shield (MX81x)	See “Controller board access shield removal” on page 374.
16	40X7893	1	1	Controller board (MX710)	See “Controller board removal” on page 372.
16	40X7936	1	1	Controller board (MX711, MX81x)	See “Controller board removal” on page 372.

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
17	40X7692	1	1	Toner cartridge smart chip contact with cable	See “Laser printhead removal” on page 314.
18	40X8034	1	1	Option card cover plate	N/A
19	40X7689	1	1	Imaging unit smart chip contact with cable	See “Laser printhead removal” on page 314.
20	40X7691	1	1	Sensor (standard bin full) with output bin guide	See “Laser printhead removal” on page 314.
21	40X7708	1	1	Printhead video cable	See “Laser printhead removal” on page 314.
22	40X7707	1	1	Printhead power cable	See “Laser printhead removal” on page 314.
23	40X7592	1	1	Interrupt sensor (MX71x) • sensor (rear door interlock)	See “Sensor (rear door interlock) removal” on page 345.
23	40X8036	1	1	Interrupt sensor (MX81x) • sensor (rear door interlock)	See “Sensor (rear door interlock) removal” on page 345.
24	40X7597	1	3	Laser printhead (quad diode) Includes data and power cables	See “Laser printhead removal” on page 314.

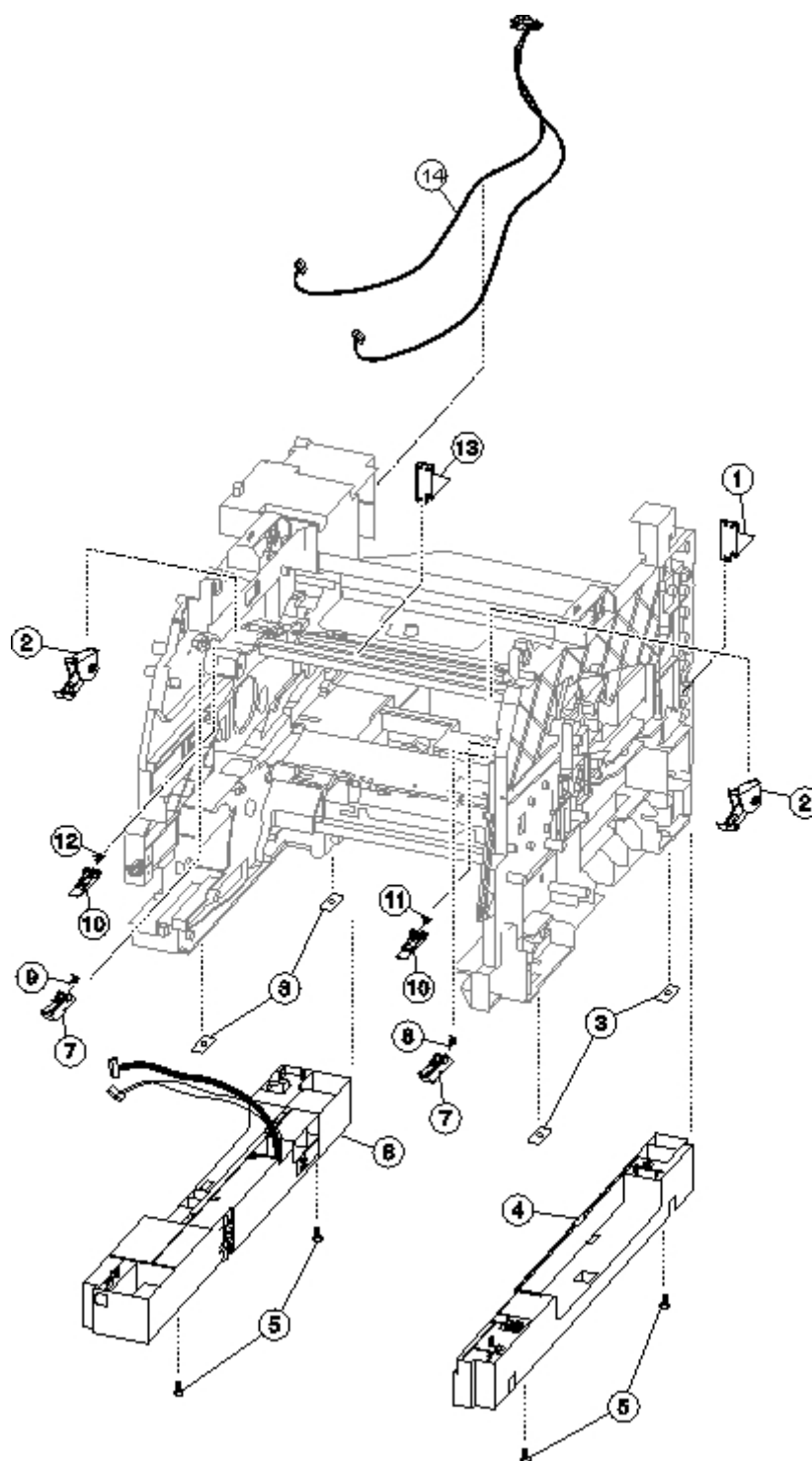
Assembly 6: Drive motors



Assembly 6: Drive motors

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X7684	1	1	Duplex motor with cable	See “Duplex motor removal” on page 338.
2	40X7695	1	1	Duplex cooling fan	See “Duplex cooling fan removal” on page 387.
3	40X7580	1	1	Cartridge cooling fan	See “Cartridge cooling fan removal” on page 386.
4	40X7596	1	1	Toner add motor with cable	See “Toner add motor removal” on page 384.
5	40X7576	1	1	Fuser drive motor cable	See “Fuser drive motor removal” on page 374.
6	40X7595	1	1	Fuser drive motor	See “Fuser drive motor removal” on page 374.
6	40X8401	1	1	Fuser drive motor	See “Fuser drive motor removal” on page 374.
7	40X7594	1	1	Main drive motor	See “Main drive motor removal” on page 377.
8	40X7574	1	1	Main motor cable	See “Main cooling fan removal” on page 376.
9	40X7579	1	1	Main cooling fan with cable	See “Main cooling fan removal” on page 376.
10	40X7682	1	1	Upper redrive motor with cable	See “Upper redrive removal” on page 354.

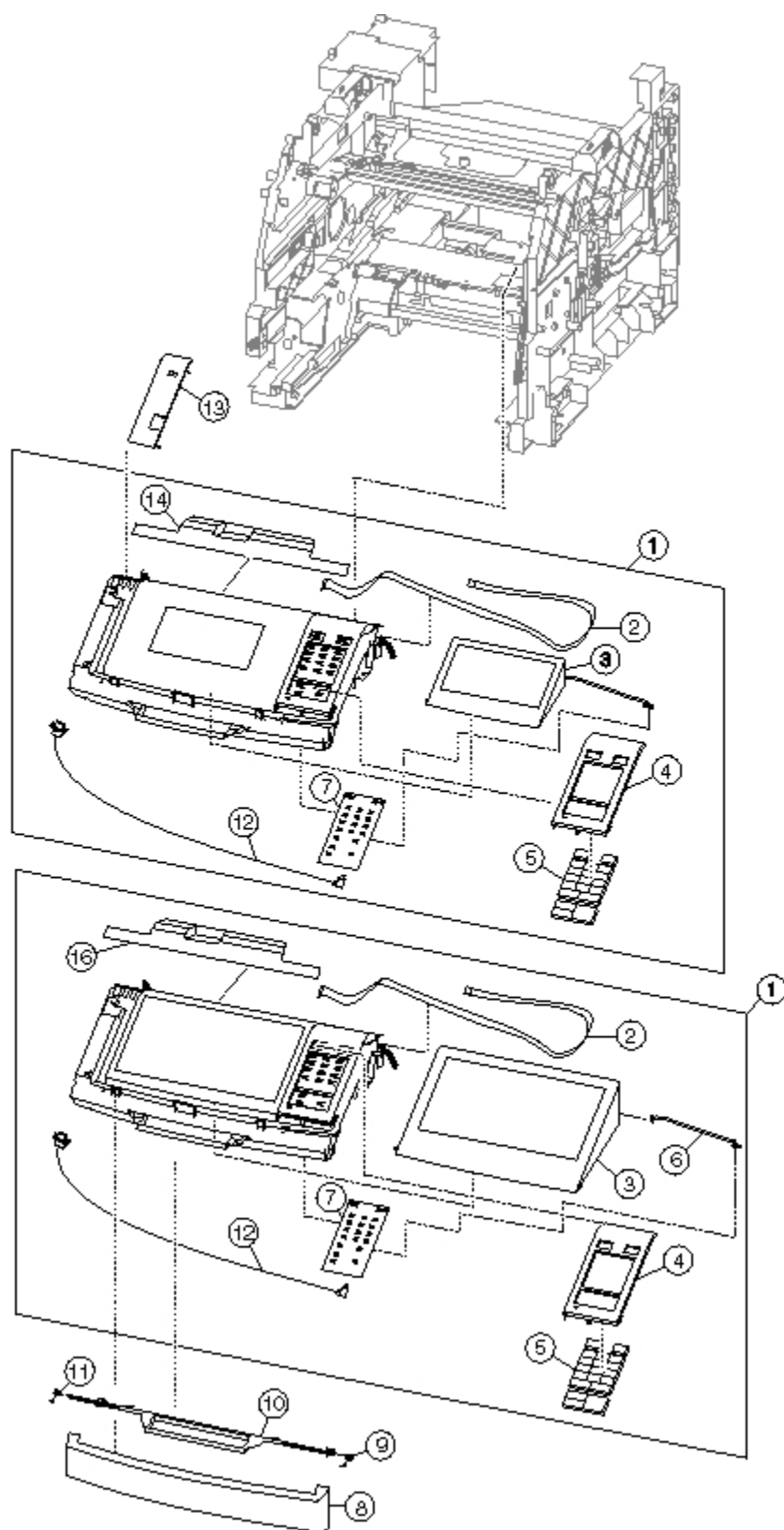
Assembly 7: Frame



Assembly 7: Frame

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X7733	1	1	Right frame pivot	See “Right frame pivot removal” on page 344.
2	40X7717	1	1	Toner cartridge clamp	N/A
3	40X7589	1	1	Fastener plate	N/A
4	40X8414	1	1	Right frame extension (MX81x)	See “Right frame extension removal (MX81x)” on page 369.
4	40X8408	1	1	Right frame extension (MX71x)	See “Right frame extension (MX71x)” on page 367.
5	40X7590	1	1	M5x12 screw	N/A
6	40X8413	1	1	Left frame extension (MX81x) • with media size sensor with cable • with input option interface cable • with sensor (media tray position) with cable	See “Left frame extension removal (MX81x)” on page 360.
6	40X8407	1	1	Left frame extension (MX71x) • with media size sensor with cable • with input option interface cable • with sensor (media tray position) with cable	See “Left frame extension removal (MX71x)” on page 358.
7	40X7716	1	1	Toner cartridge lock	N/A
8	40X7719	1	1	Torsion spring	N/A
9	40X7721	1	1	Torsion spring	N/A
10	40X7714	1	1	Imaging unit clamp	N/A
11	40X7720	1	1	Torsion spring	N/A
12	40X7718	1	1	Torsion spring	N/A
13	40X7732	1	1	Left frame pivot	See “Left frame pivot removal” on page 343.
14	40X7575	1	1	Top option interface cable	N/A

Assembly 8: Control panel (MX71x)

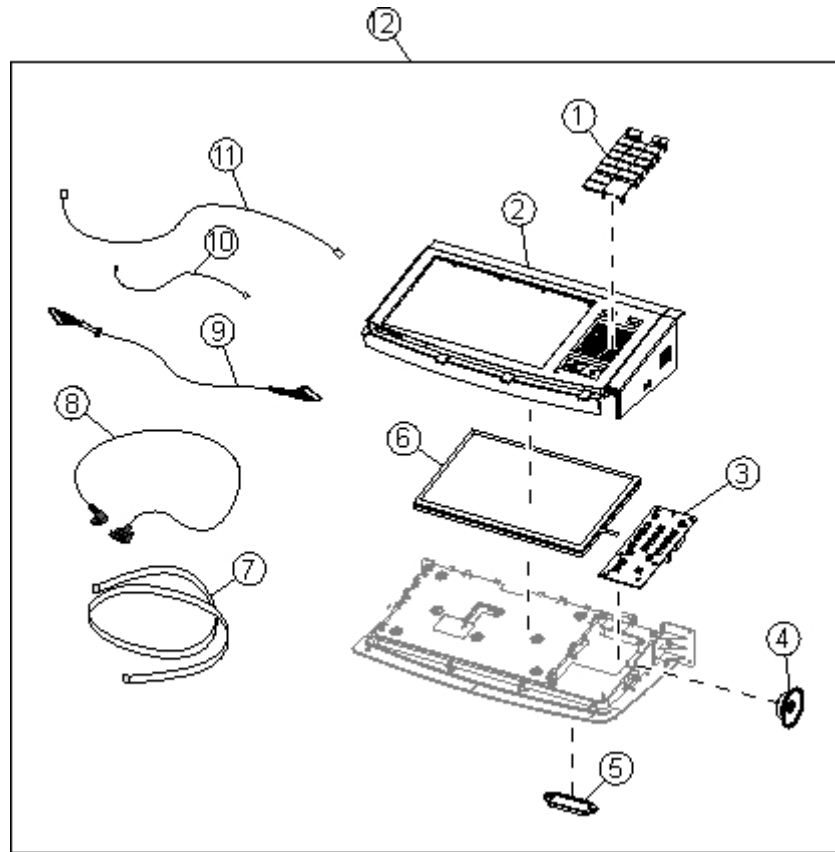


Assembly 8: Control panel (MX71x)

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X7860	1	1	Control panel (MX710)	See “Control panel removal (MX71x)” on page 399.
1	40X7877	1	1	Control panel (MX711)	See “Control panel removal (MX71x)” on page 399.
2	40X7873	1	1	Controller board to control panel board cable	N/A
3	40X8485	1	1	Tilting 7-inch display	See “Tilting display removal (7-inch and 10-inch)” on page 423.
4	40X7865	1	1	Control panel right bezel	See “Control panel right bezel removal (MX71x)” on page 416.
5	40X7863	1	1	Control panel buttons	N/A
6	40X7881	1	1	Display to control panel board cable (MX711, MX81x)	N/A
7	40X8486	1	1	Tilting 10-inch display	See “10-inch display removal” on page 394.
8	40X7879	1	1	Control panel board (MX711)	See “Control panel board removal (MX71x)” on page 406.
9	40X7864	1	1	Control panel front cover	See “Control panel front cover removal” on page 411.
10	40X7731	1	1	Torsion spring	N/A
11	40X7868	1	1	Control panel latch	See “Control panel latch removal” on page 413.
12	40X7730	1	1	Torsion spring	N/A
13	40X7871	1	1	USB cable (MX71x)	N/A
14	40X7862	1	1	Control panel board (MX710)	See “Control panel board removal (MX71x)” on page 406.
15	40X8366	1	1	Control panel left bezel (MX710)	See “Control panel left bezel removal (MX71x)” on page 414.
15	40X8586	1	1	Control panel left bezel (XM5163)	See “Control panel left bezel removal (MX71x)” on page 414.
15	40X8387	1	1	Control panel left bezel (XM5170)	See “Control panel left bezel removal (MX71x)” on page 414.
15	40X8388	1	1	Control panel left bezel (XM5155)	See “Control panel left bezel removal (MX71x)” on page 414.
15	40X8389	1	1	Control panel left bezel (XM5163)	See “Control panel left bezel removal (MX71x)” on page 414.
15	40X8390	1	1	Control panel left bezel (XM7170)	See “Control panel left bezel removal (MX71x)” on page 414.

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
16	40X7867	1	1	Control panel upper cover	N/A

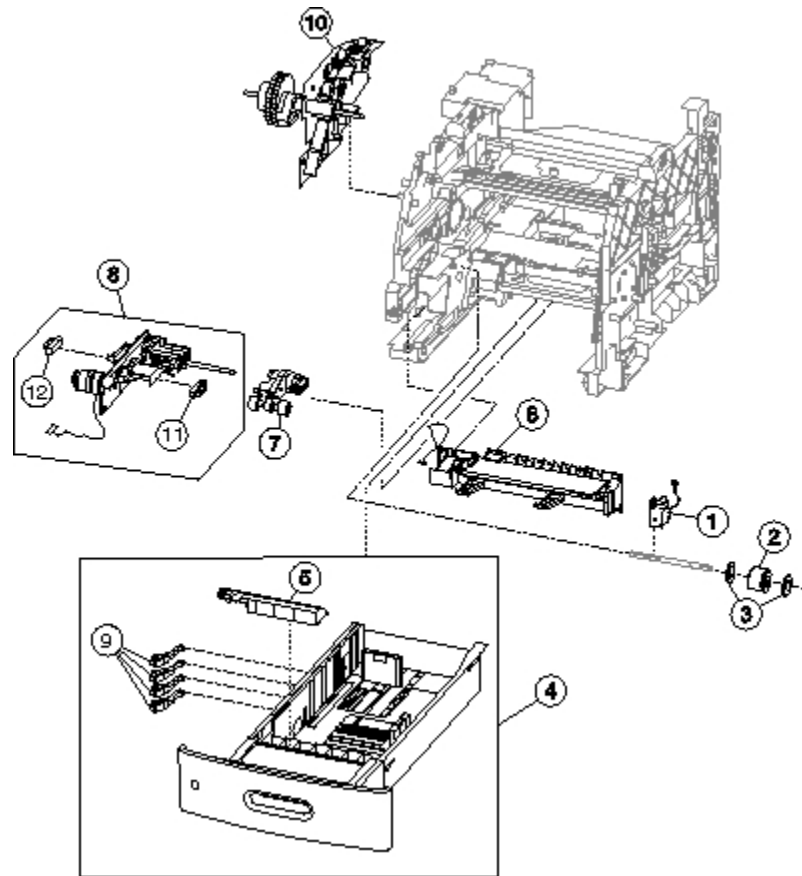
Assembly 9: Control panel 10-inch display (MX81x)



Assembly 9: Control panel 10-inch display (MX81x)

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X7887	1	1	Control panel buttons parts pack	N/A
2	40X7892	1	1	Control panel cover	N/A
3	40X7884	1	1	Control panel board	N/A
4	40X7703	1	1	Control panel speaker	N/A
5	40X7886	1	1	Standard bin LED board	N/A
6	40X7883	1	1	Display, 10-inch touch-screen	N/A
7	40X7891	1	1	Cable, controller board to control panel board	N/A
8	40X7888	1	1	USB cable	N/A
9	40X7881	1	1	Cable, display to control panel	N/A
10	40X7889	1	1	Cable, standard bin LED	N/A
11	40X7890	1	1	Speaker cable	N/A
12	40X7882	1	1	Control panel assembly	N/A

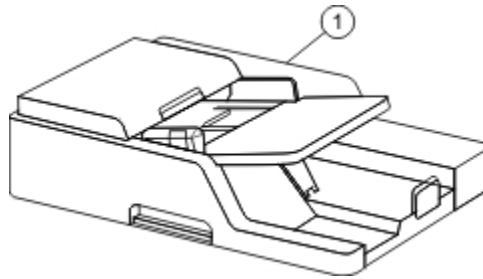
Assembly 10: Paper tray



Assembly 10: Paper tray

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X7712	1	1	MPF feeder solenoid	N/A
2	40X7600	1	1	MPF pick roller	See “MPF pick roller removal” on page 326.
3	40X7601	2	1	MPF feed roller flange	N/A
4	40X7742	1	1	550-sheet tray insert (MX71x)	N/A
4	40X7948	1	1	550-sheet tray insert (MX81x)	N/A
5	40X7713	1	1	Separator roller assembly	See “Separator roller assembly removal” on page 367.
6	40X7598	1	1	MPF feeder lift plate with cable	See “MPF feeder lift plate removal” on page 322.
7	40X7593	1	1	Pick roller assembly	See “Pick roller assembly removal” on page 363.
8	40X7591	1	1	Media feeder	See “Media feeder removal” on page 379.
9	40X7599	1	1	Media aligner roller with MPF pick roller	See “Media aligner roller removal” on page 317.

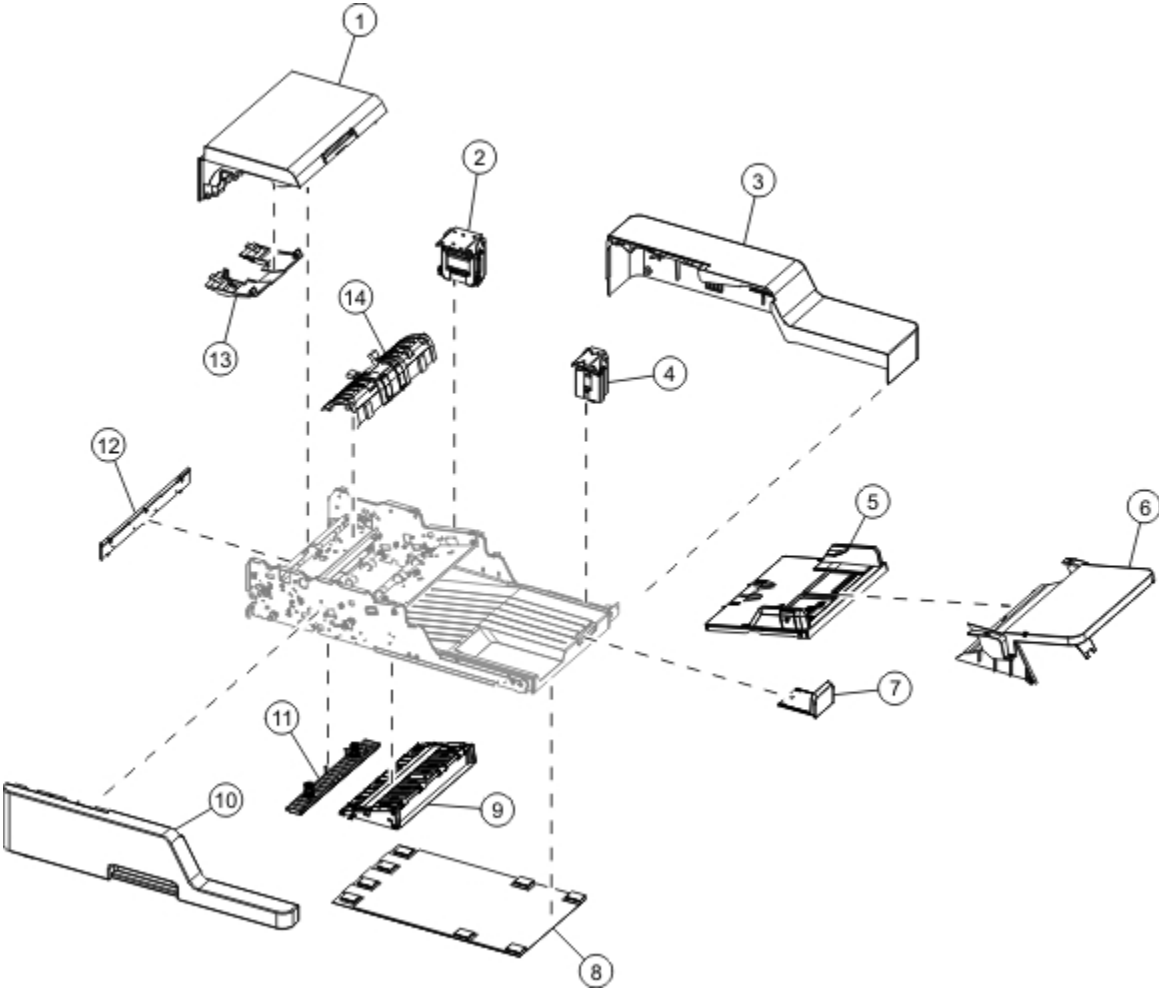
Assembly 11: ADF assembly



Assembly 11: ADF assembly

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X7765	1	1	ADF assembly (MX710)	"ADF assembly removal" on page 432
1	40x7799	1	1	ADF assembly (MX711)	"ADF assembly removal" on page 432
1	40x7748	1	1	ADF assembly (MX81x)	"ADF assembly removal" on page 432

Assembly 12: ADF covers

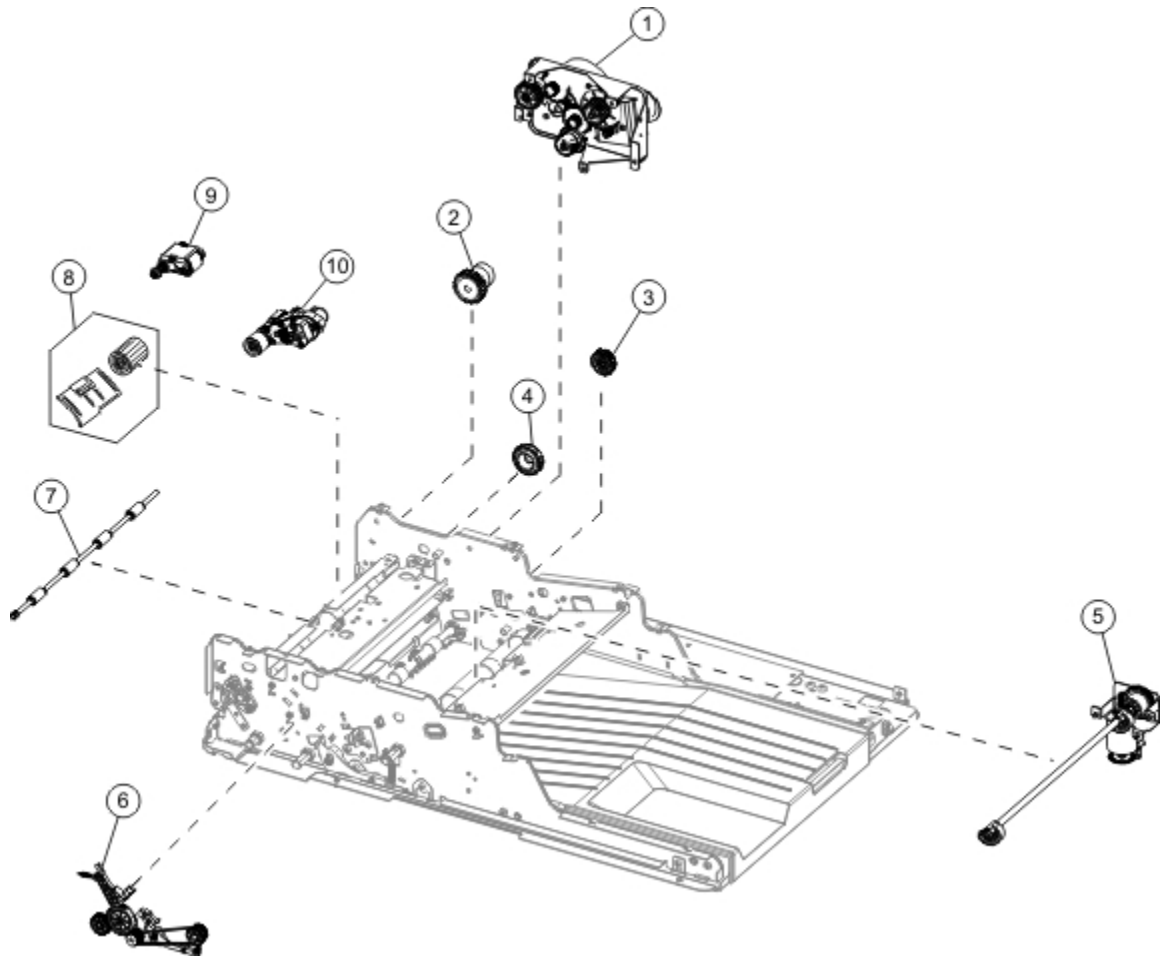


Assembly 12: ADF covers

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X7755	1	1	ADF top door w/o beacon and MF sensor (MX71x)	"ADF door removal" on page 439
1	40X7794	1	1	ADF top door w/ beacon and MF sensor (MX81x)	"ADF door removal" on page 439
2	40X7763	1	1	ADF left hinge	"ADF left hinge removal" on page 446
3	40X7753	1	1	ADF rear cover	"ADF rear cover removal" on page 454
4	40X7762	1	1	ADF right hinge	"ADF right hinge removal" on page 456
5	40X7781	1	1	ADF lift tray	"ADF lift tray removal" on page 450
6	40X7780	1	1	ADF input tray	"ADF input tray removal" on page 445
7	40X7756	1	1	Bin extension	"Bin extension removal" on page 466
8	40X7766	1	1	Flatbed glass cushion	"Flatbed glass cushion removal" on page 483
9	40X8371	1	1	ADF bottom door (MX71x)	"ADF bottom door removal" on page 433
9	40X7761	1	1	ADF bottom door (MX81x)	"ADF bottom door removal" on page 433
10	40X7793	1	1	ADF front cover w/o lightpipe (MX71x)	"ADF front cover removal" on page 443
10	40X7752	1	1	ADF front cover w/ lightpipe (MX81x)	"ADF front cover removal" on page 443
11	40X7772	1	1	ADF float plate w/ springs	"ADF float plate with springs removal" on page 441

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
12	40X7754	1	1	ADF left lower cover	“ADF left lower cover removal” on page 448
13	40X7759	1	1	ADF pick roller cover	“ADF pick roller cover removal” on page 451
14	40X7760	1	1	ADF separation guide	“ADF separation guide removal” on page 458

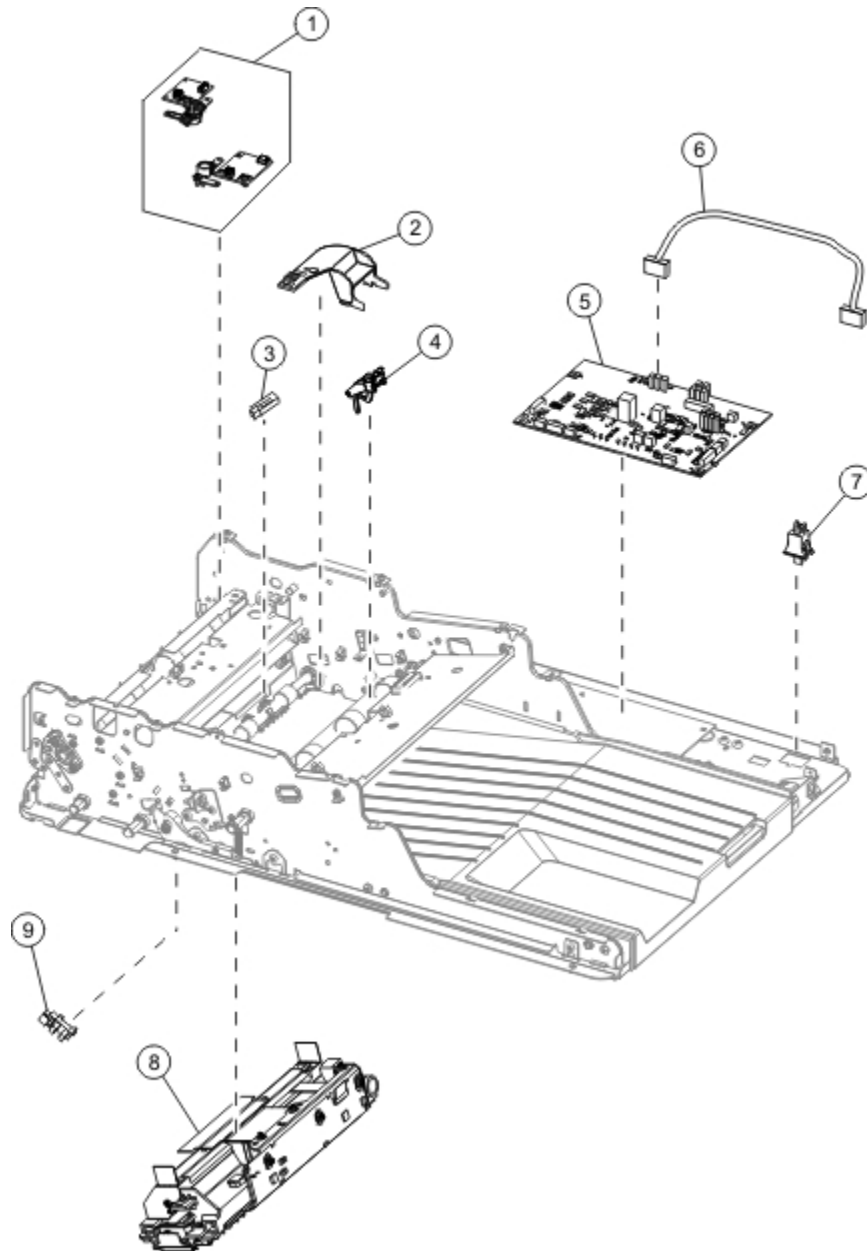
Assembly 13: ADF mechanical



Assembly 13: ADF mechanical

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X7769	1	1	ADF rear side drive parts pack	"ADF rear side drive parts pack removal" on page 456
2	40X7751	1	1	Magnetic clutch	"Magnetic clutch removal" on page 470
3	40X7757	1	1	Gear (29t), separation roll drive	"Separation roll drive gear (29t) removal" on page 475
4	40X7758	1	1	Gear (40t), 1st scan roll drive	"First scan roll drive gear (40t) removal" on page 467
5	40X7768	1	1	ADF tray lift drive	"ADF tray lift drive removal" on page 462
6	40X7767	1	1	ADF front side drive parts pack	"ADF front side drive parts pack removal" on page 444
7	40X7935	1	1	Deskew idler shaft	"Deskew idler shaft removal" on page 466
8	40X7775	1	1	ADF separator roller	"ADF separator roller removal" on page 459
9	40X7749	1	1	ADF feed belt	"ADF feed belt removal" on page 440
10	40X7774	1	1	ADF pick roller	"ADF pick roller removal" on page 452

Assembly 14: ADF electronics

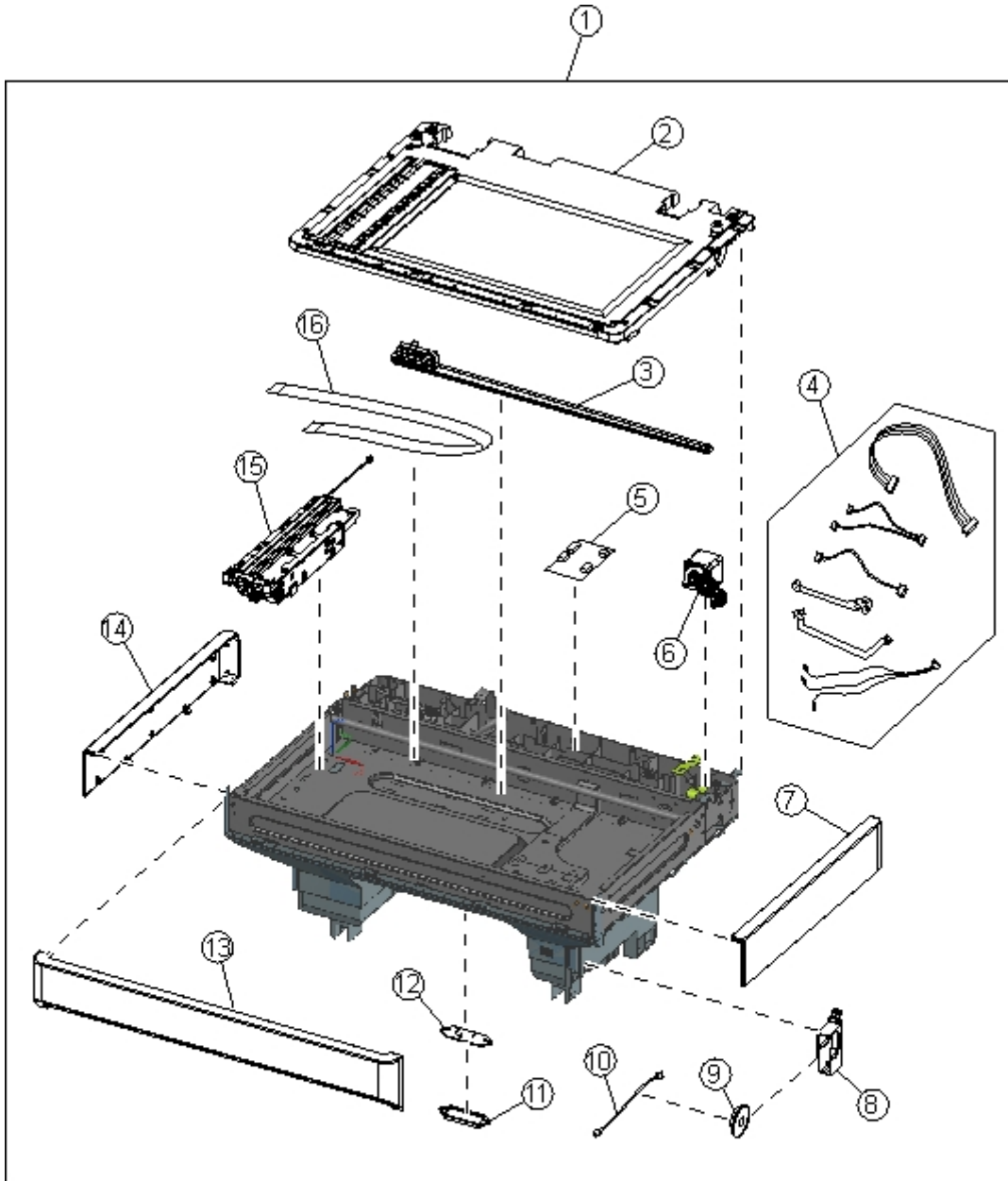


Assembly 14: ADF electronics

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X7853	1	1	Sensor (ADF multifeed detect)	"Multifeed sensor parts kit removal" on page 471
2	40X8536	1	1	Sensor (ADF media present)	"Sensor (ADF media present) removal" on page 473
3	40X7779	1	1	Sensor (ADF gap detect)	N/A
3	40X7779	1	1	Sensor (ADF pick)	"Sensor (ADF pick) removal" on page 474
3	40X7779	1	1	Sensor (ADF skew detect)	"Sensor (ADF skew detect) removal" on page 475
3	40X7779	1	1	Sensor (ADF 1st scan)	N/A
4	40X7777	1	1	Interrupt w/flag sensor (ADF media exit)	"Interrupt with flag sensor (ADF media exit) removal" on page 469
5	40X7771	1	1	ADF controller card	"ADF controller card removal" on page 438
6	40X8501	1	1	ADF to printer cable (MX71x)	N/A
6	40X8502	1	1	ADF to printer cable (MX81x)	N/A
7	40X7778	1	1	Push button switch sensor (ADF closed interlock)	"ADF push button switch sensor removal" on page 453
8	40X7792	1	1	ADF CCD scanner	"ADF scanner CCD removal" on page 435
9	40X7776	1	1	Interrupt w/ flag sensor (ADF 2nd scan)	"Interrupt with flag sensor (ADF 2nd scan) removal" on page 468

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
NS	40X7770	1	1	Cable parts pack, which includes the following: • ADF electrical cables parts pack • Tray lift motor cable • ADF pick motor cable • ADF transport motor cable • MDC to back jam bcn 1& 2 • MDC to FB len rcv • MDC to TCC • Exit, ADF top cover, lift handle bcn, & bd sw • ADF sensor cable • ADF closed sensor cable • ADF CCD ribbon cable • TCC to elevator sensor • ADF hinge ground cable • ADF lower guide ground cable • ADF tray LED cable • ADF multifeed sensor receive cable • ADF tray lift position HP cable	N/A
NS	40X7608	1	1	ADF front indicator	N/A

Assembly 15: Flatbed scanner (MX710 and MX711)

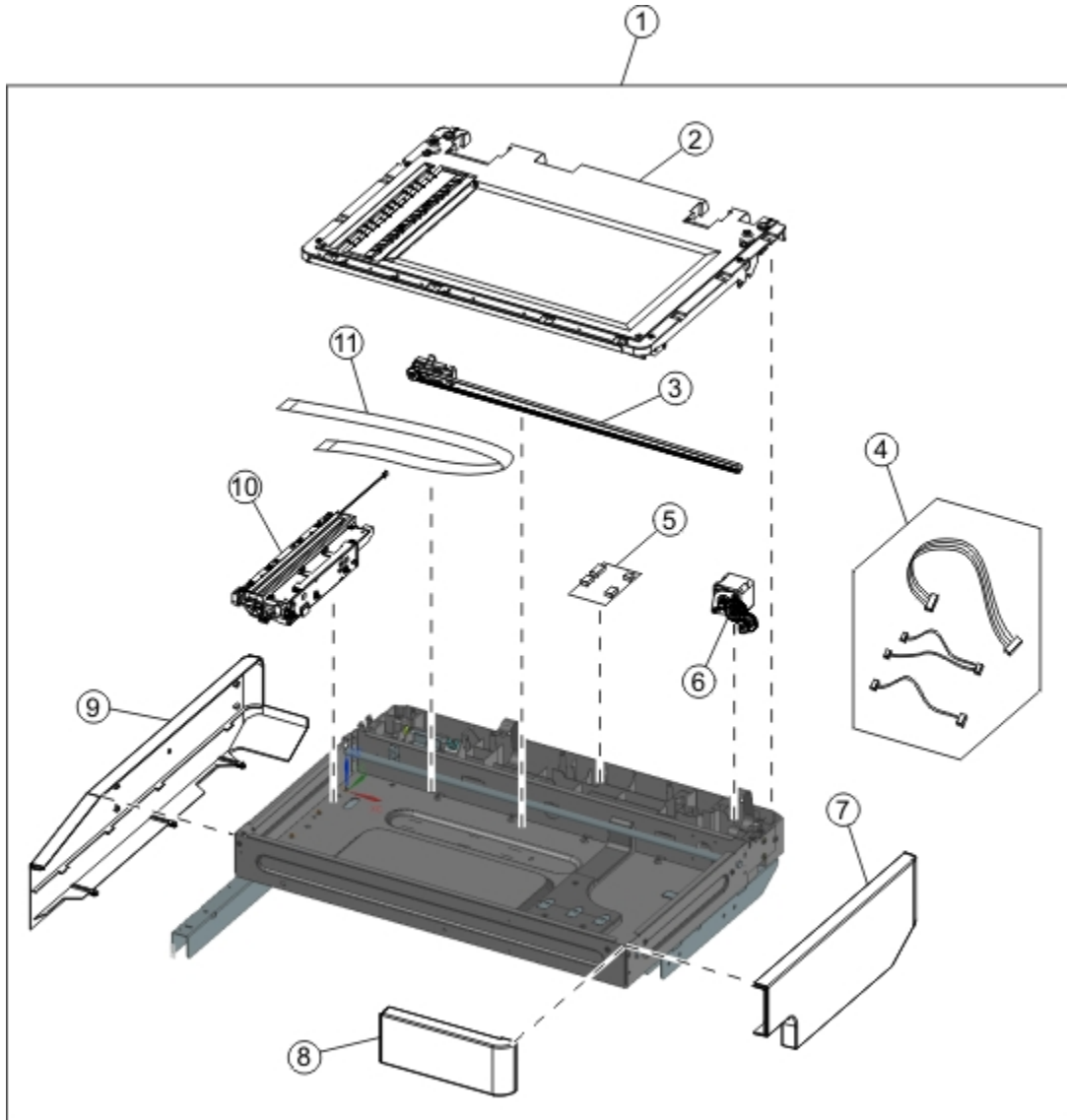


Assembly 15: Flatbed scanner (MX710 and MX711)

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X7912	1	1	Flatbed scanner (MX71x)	“Flatbed scanner assembly removal” on page 478
2	40X7783	1	1	Flatbed scanner glass	“Flatbed scanner glass removal” on page 492
3	40X7788	1	1	Flatbed scanner tension pulley w/ belt	“Flatbed tension pulley with belt removal” on page 495
4	40X7785	1	1	Flatbed scanner cables part kit, which includes the following: • FB motor • FB ICC to ADF PCBA • FB length sensor • FB HP sensor & LED • Ground strap • Ground strap	N/A
5	40X7784	1	1	Flatbed scanner PCBA	“Flatbed scanner PCBA removal” on page 494
6	40X7787	1	1	Flatbed scanner drive parts kit	“Flatbed scanner drive parts kit removal” on page 489
7	40X7901	1	1	Flatbed right cover	“Flatbed scanner right cover removal” on page 485
8	40X7903	1	1	Speaker bracket	“Flatbed scanner right cover removal” on page 485
9	40X7703	1	1	Speaker, control panel	“Flatbed scanner right cover removal” on page 485
10	40X7908	1	1	Cable, speaker	N/A
11	40X7885	1	1	Standard output bin LED lens	N/A
12	40X8098	1	1	Standard output bin LED PCBA	N/A
13	40X7899	1	1	Flatbed front cover	“Flatbed scanner front cover removal” on page 481

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
14	40X7902	1	1	Flatbed left cover	“Flatbed scanner left cover removal topic” on page 484
15	40X7786	1	1	Flatbed scanner CCD	“Flatbed scanner CCD removal” on page 485
16	40X8375	1	1	Ribbon cable, flatbed scanner CCD (MX71x)	N/A
NS	40X8099	1	1	Cable, standard output bin LED	N/A

Assembly 16: Flatbed scanner (MX810, MX811 and MX812)



Assembly 16: Flatbed scanner (MX810, MX811 and MX812)

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X7782	1	1	Flatbed scanner (MX81x)	“Flatbed scanner assembly removal” on page 478
2	40X7783	1	1	Flatbed scanner glass	“Flatbed scanner glass removal” on page 492
3	40X7788	1	1	Flatbed scanner tension pulley w/ belt	“Flatbed tension pulley with belt removal” on page 495
4	40X7785	1	1	Flatbed scanner cables part kit, which includes the following: • FB motor • FB ICC to ADF PCBA • FB length sensor • FB HP sensor & LED • Ground strap • Ground strap	N/A
5	40X7784	1	1	Flatbed scanner PCBA	“Flatbed scanner PCBA removal” on page 494
6	40X7787	1	1	Flatbed scanner drive parts kit	“Flatbed scanner drive parts kit removal” on page 489
7	40X7941	1	1	Flatbed right cover (MX81x)	“Flatbed scanner right cover removal” on page 485
8	40X7942	1	1	Flatbed front cover (MX81x)	“Flatbed scanner front cover removal” on page 481
9	40X7943	1	1	Flatbed left cover (MX81x)	“Flatbed scanner left cover removal topic” on page 484
10	40X7786	1	1	Flatbed scanner CCD	“Flatbed scanner CCD removal” on page 485
11	40X8374	1	1	Flatbed scanner CCD ribbon cable (MX81x)	N/A
NS	40X7944	1	1	Scanner rear cover	N/A

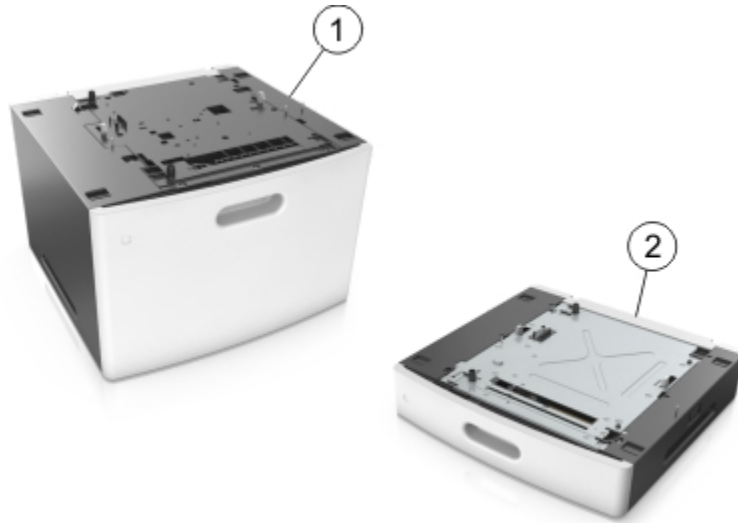
Assembly 17: Input options (MX710 and MX711)



Assembly 17: Input options (MX710 and MX711)

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X8106	1	1	550-sheet tray option	"250/550-sheet media tray option removal" on page 499
1	40X8411	1	1	550-sheet tray option, lockable	"250/550-sheet media tray option removal" on page 499
2	40X8152	1	1	250-sheet tray option	"250/550-sheet media tray option removal" on page 499
2	40X8410	1	1	250-sheet tray option, lockable	"250/550-sheet media tray option removal" on page 499
3	40X8161	1	1	HCIT option	"HCIT and drawer assembly removal" on page 515
NS	40X8409	1	1	Spacer	N/A

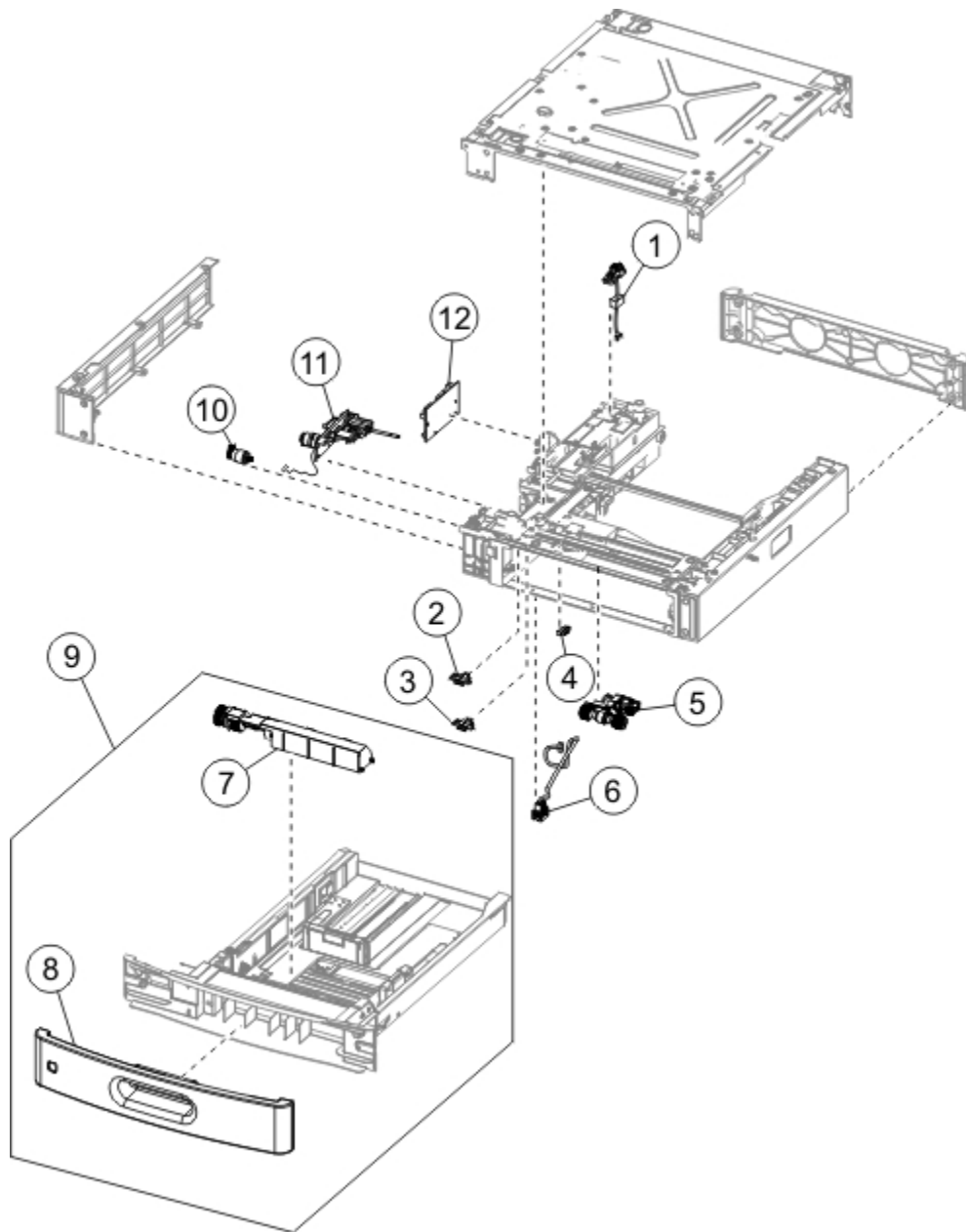
Assembly 18: Input options (MX810, MX811 and MX812)



Assembly 18: Input options (MX810, MX811 and MX812)

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X8162	1	1	HCIT and drawer assembly	"HCIT and drawer assembly removal" on page 515
2	40X8108	1	1	550-sheet tray and drawer assembly	"250/550-sheet media tray option removal" on page 499

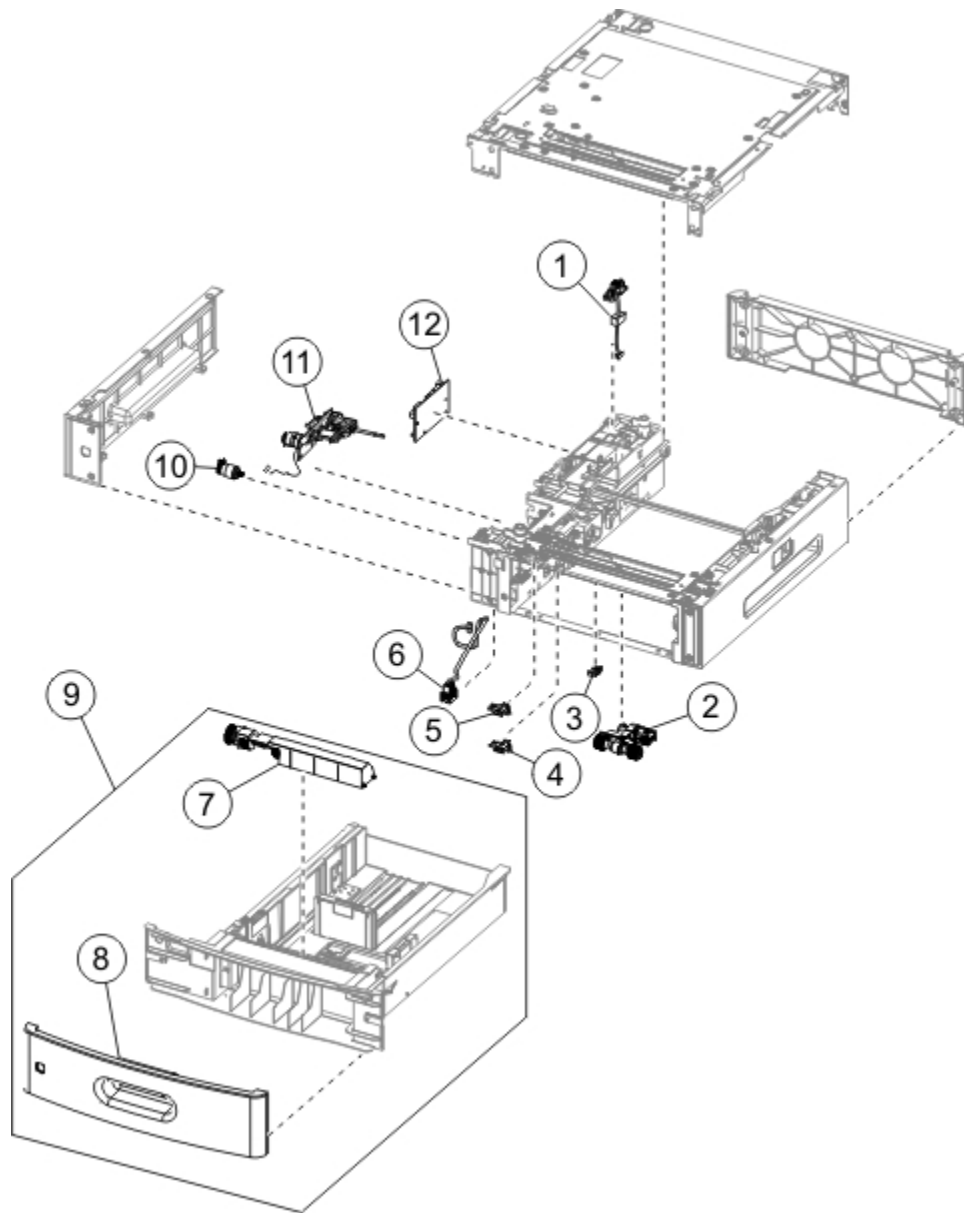
Assembly 19: 250-sheet tray option (MX710 and MX711)



Assembly 19: 250-sheet tray option (MX710 and MX711)

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X8160	1	1	250-sheet tray option upper interface cable	See “Drawer upper interface cable removal” on page 505
2	40X8156	1	1	Sensor (pass through)	See “Sensor (drawer pass through) removal ” on page 510
3	40X8158	1	1	Sensor (pick)	See “Sensor (pick) removal” on page 512
4	40X7592	1	1	Sensor (pick roller position)	See “Sensor (pick roll position) removal ” on page 501
5	40X7593	1	1	Pick roller	See “Drawer pick roller removal ” on page 501
6	40X8159	1	1	250-sheet tray option lower interface cable	See “Drawer lower interface cable removal” on page 506
7	40X7713	1	1	Separator roller assembly	See “Media tray separation roller removal” on page 500
8	40X8154	1	1	250-sheet tray front cover	See “Media tray front cover removal” on page 500
9	40X8153	1	1	250-sheet tray	See “Media tray assembly removal” on page 500
10	40X8157	1	1	250-sheet tray option transport motor	See “Drawer transport motor removal” on page 509
11	40X7591	1	1	Media feeder	See “Drawer media feeder removal ” on page 507
12	40X8672	1	1	250-sheet tray option controller PCBA	See “Drawer controller PCBA removal” on page 504

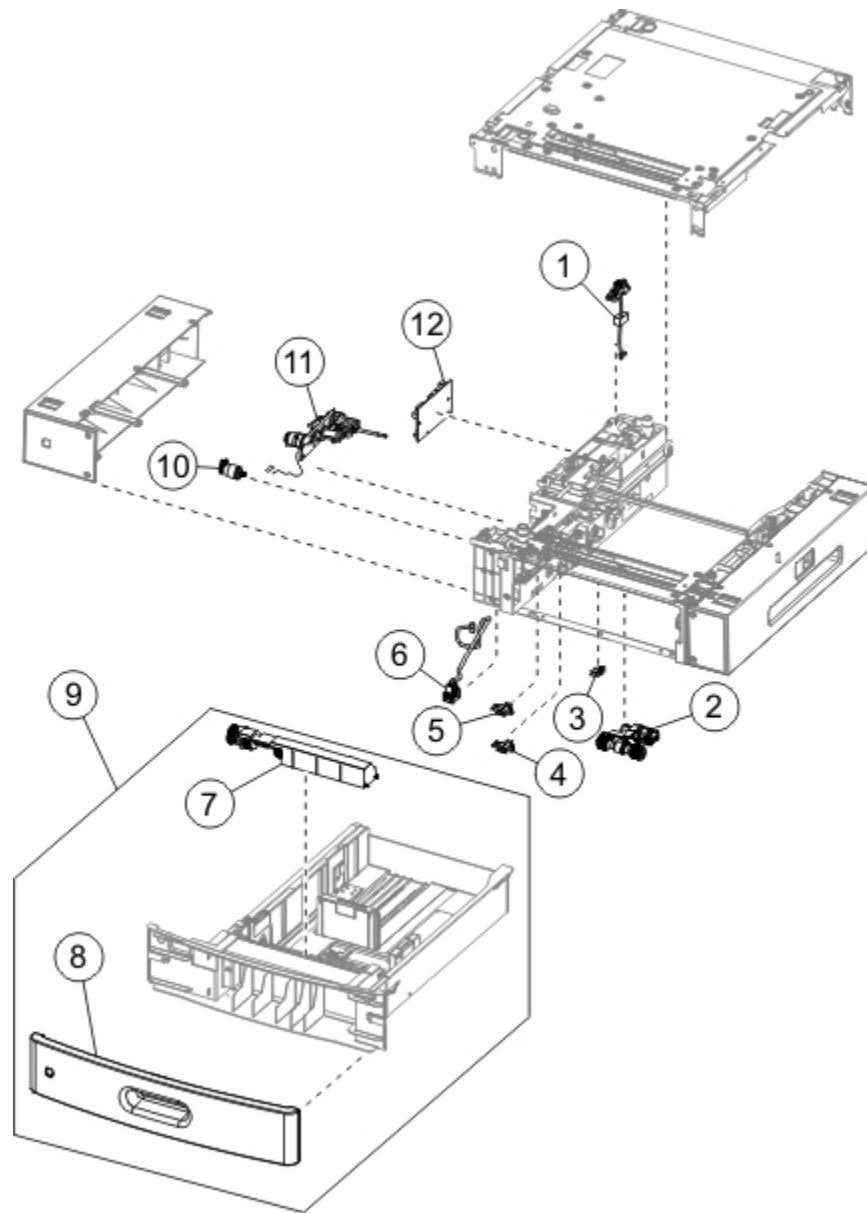
Assembly 20: 550-sheet tray option (MX710 and MX711)



Assembly 20: 550-sheet tray option (MX710 and MX711)

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X8160	1	1	550-sheet tray option upper interface cable	See “Drawer upper interface cable removal” on page 505
2	40X7593	1	1	Pick roller	See “Drawer pick roller removal ” on page 501
3	40X7592	1	1	Sensor (pick roller position)	See “Sensor (pick roll position) removal ” on page 501
4	40X8158	1	1	Sensor (pick)	See “Sensor (pick) removal” on page 512
5	40X8156	1	1	Sensor (pass through)	See “Sensor (drawer pass through) removal ” on page 510
6	40X8159	1	1	550-sheet tray option lower interface cable	See “Drawer lower interface cable removal” on page 506
7	40X7713	1	1	Separator roller assembly	See “Media tray separation roller removal” on page 500
8	40X8109	1	1	550-sheet tray front cover	See “Media tray front cover removal” on page 500
9	40X7742	1	1	550-sheet tray	See “Media tray assembly removal” on page 500
10	40X8157	1	1	550-sheet tray option transport motor	See “Drawer transport motor removal” on page 509
11	40X7591	1	1	Media feeder	See “Drawer media feeder removal ” on page 507
12	40X8155	1	1	550-sheet tray option controller PCBA	See “Drawer controller PCBA removal” on page 504

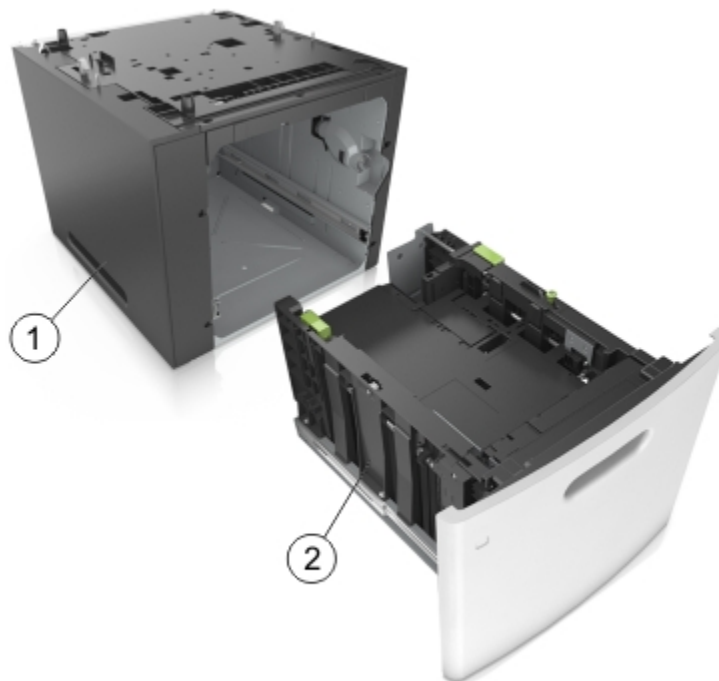
Assembly 21: 550-sheet tray option (MX810, MX811, MX812)



Assembly 21: 550-sheet tray option (MX810, MX811, MX812)

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X8160	1	1	550-sheet tray option upper interface cable	"Drawer upper interface cable removal" on page 505
2	40X7593	1	1	pick roller	"Drawer pick roller removal " on page 501
3	40X7592	1	1	Sensor (pick roller position)	"Sensor (pick roll position) removal " on page 501
4	40X8158	1	1	Sensor (pick)	"Sensor (pick) removal" on page 512
5	40X8156	1	1	Sensor (pass through)	"Sensor (drawer pass through) removal " on page 510
6	40X8159	1	1	550-sheet tray option lower interface cable	"Drawer lower interface cable removal" on page 506
7	40X7713	1	1	Separator roller assembly	"Media tray separation roller removal" on page 500
8	40X8113	1	1	550-sheet tray front cover	"Media tray front cover removal" on page 500
9	40X7948	1	1	550-sheet tray	"Media tray assembly removal" on page 500
10	40X8157	1	1	550-sheet tray option transport motor	"Drawer transport motor removal" on page 509
11	40X7591	1	1	Media feeder	"Drawer media feeder removal " on page 507
12	40X8155	1	1	550-sheet option tray controller PCBA	"Drawer controller PCBA removal" on page 504

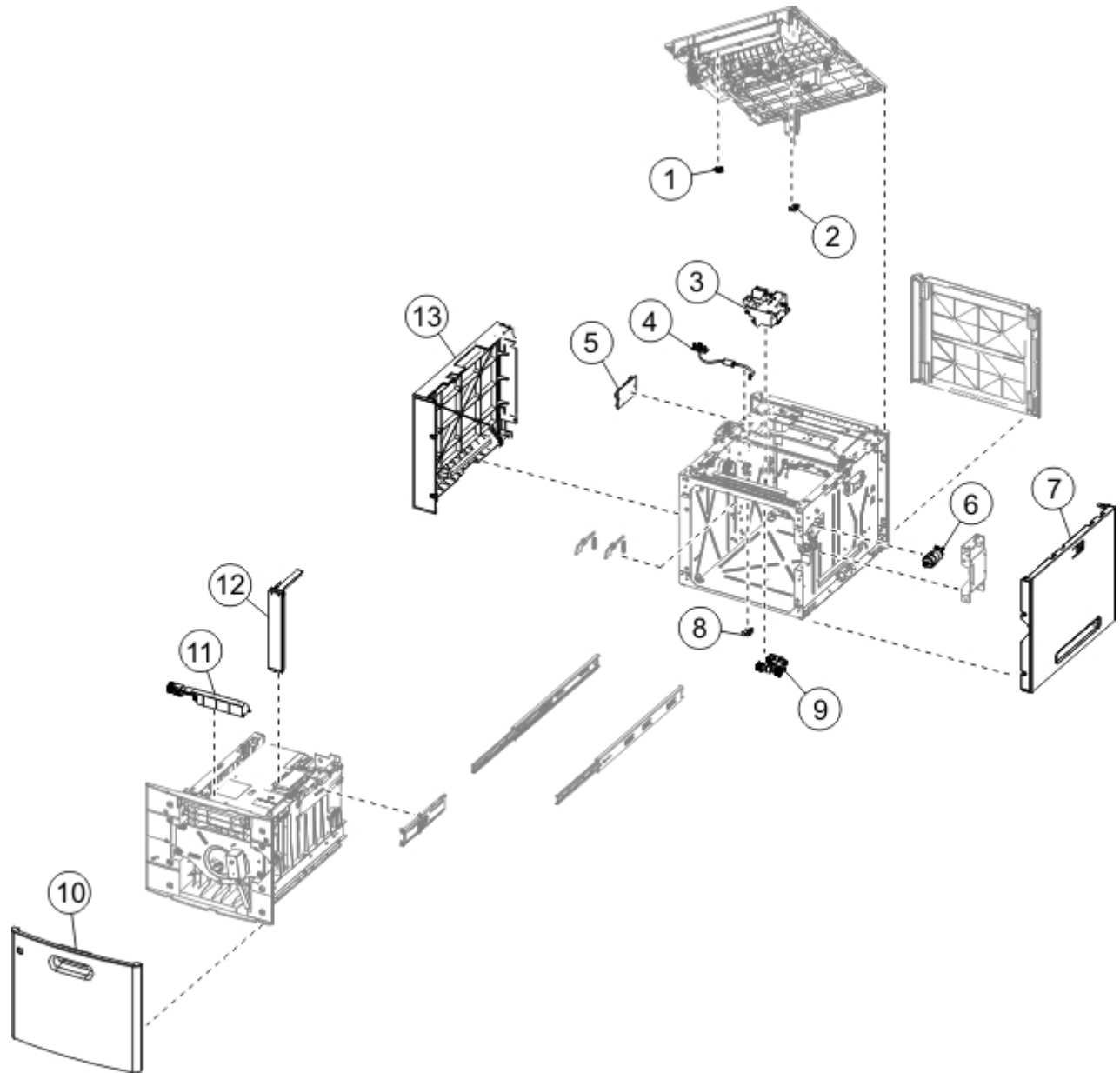
Assembly 22: High capacity input tray option 1 (MX710 and MX711)



Assembly 22: High capacity input tray option 1 (MX710 and MX711)

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X8163	1	1	HCIT drawer assembly	See "HCIT drawer assembly removal" on page 516
2	40X8165	1	1	HCIT	See "HCIT removal" on page 516

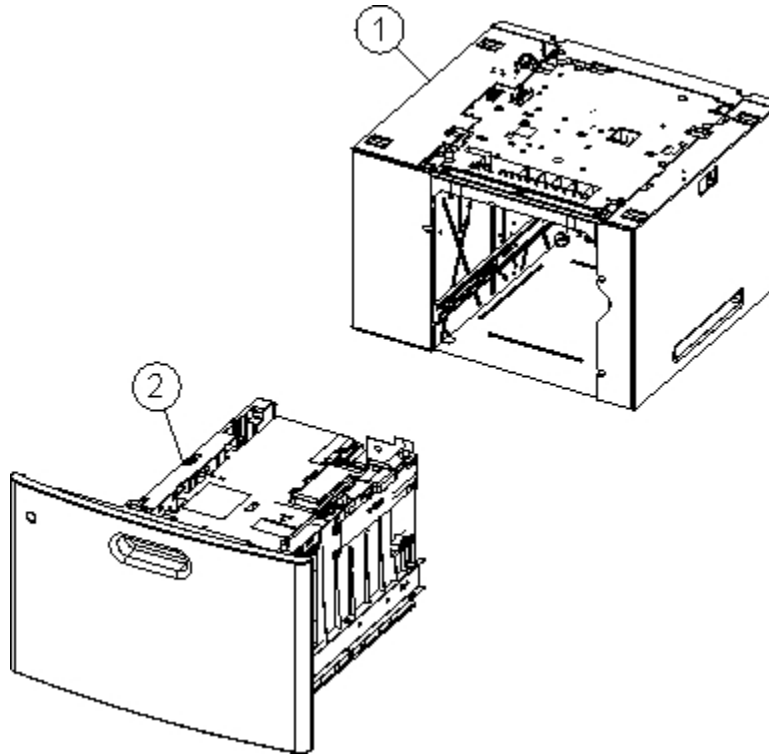
Assembly 23: High capacity input tray option 2 (MX710 and MX711)



Assembly 23: High capacity input tray option 2 (MX710 and MX711)

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X8178	1	1	Sensor (HCIT pick) with cable	See “Sensor (HCIT pick) removal” on page 535
2	40X8177	1	1	Sensor (HCIT media low) with flag	See “Sensor (HCIT media low) with flag removal” on page 532
3	40X8174	1	1	HCIT option media feeder	See “HCIT media feeder removal” on page 536
4	40X8180	1	1	HCIT option interface cable	See “HCIT drawer assembly interface cable removal” on page 531
5	40X8173	1	1	HCIT option controller PCBA	See “HCIT controller PCBA removal” on page 526
6	40X8179	1	1	HCIT option lift drive motor	See “HCIT lift drive motor removal” on page 529
7	40X8169	1	1	HCIT option right cover	See “HCIT drawer assembly right cover removal” on page 524
8	40X7592	1	1	Sensor (HCIT pick roller position)	See “Sensor (pick roll position) removal” on page 533
9	40X7593	1	1	Pick roller	See “HCIT pick arm assembly removal” on page 520
10	40X8171	1	1	HCIT front cover	See “HCIT front cover removal” on page 518
11	40X7713	1	1	Separation roller	See “HCIT separator roll assembly removal” on page 517
12	40X8176	1	1	HCIT media guide	See “HCIT media guide removal” on page 517
13	40X8167	1	1	HCIT option left cover	See “HCIT drawer assembly left cover removal” on page 522

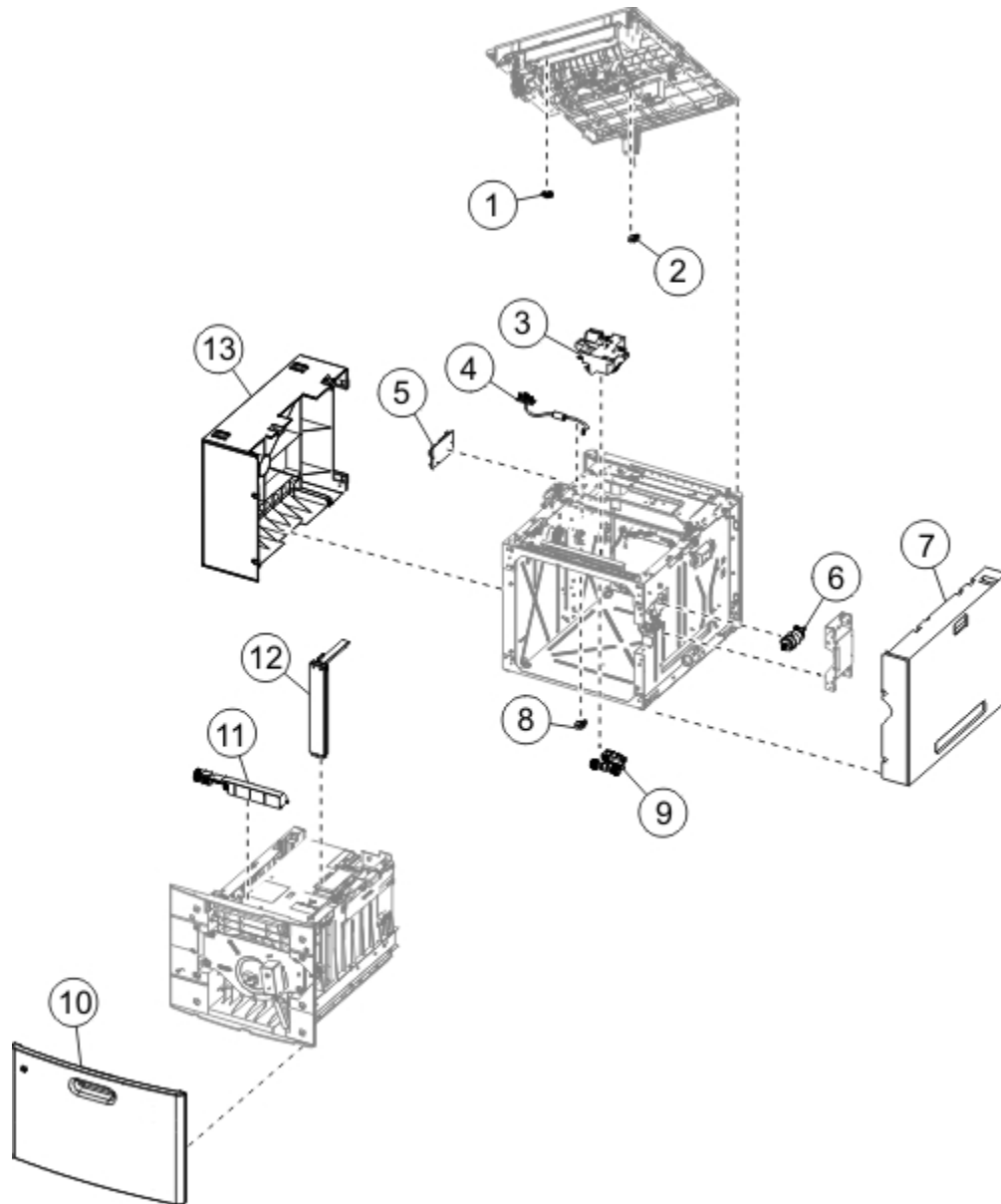
Assembly 24: High capacity input tray option 3 (MX810, MX811, MX812)



Assembly 24: High capacity input tray option 3 (MX810, MX811, MX812)

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X8163	1	1	HCIT drawer assembly	See "HCIT drawer assembly removal" on page 516
2	40X8165	1	1	HCIT	See "HCIT removal" on page 516

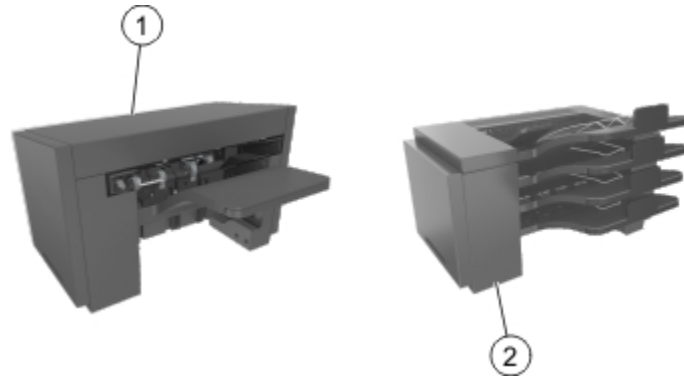
Assembly 25: High capacity input tray option 4 (MX810, MX811, MX812)



Assembly 25: High capacity input tray option 4 (MX810, MX811, MX812)

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X8178	1	1	Sensor (HCIT pass through) with cable	See “Sensor (HCIT pick) removal” on page 570
2	40X8177	1	1	Sensor (HCIT closed) with flag	See “Sensor (HCIT closed) with flag removal” on page 567
3	40X8174	1	1	HCIT media feeder	See “HCIT media feeder removal” on page 571
4	40X8180	1	1	HCIT interface cable	See “HCIT drawer assembly interface cable removal” on page 566
5	40X8173	1	1	HCIT controller PCBA	See “HCIT controller PCBA removal” on page 561
6	40X8179	1	1	HCIT lift drive motor	See “HCIT lift drive motor removal” on page 564
7	40X8170	1	1	HCIT right cover	See “HCIT drawer assembly right cover removal” on page 560
8	40X7592	1	1	Sensor (HCIT roller position)	See “Sensor (pick roll position) removal” on page 568
9	40X7593	1	1	HCIT pick roller	See “HCIT pick arm assembly removal” on page 558
10	40X8172	1	1	HCIT front cover	See “HCIT front cover removal” on page 557
11	40X7713	1	1	HCIT separation roller	See “HCIT separator roll assembly removal” on page 556
12	40X8176	1	1	HCIT media guide	See “HCIT media guide removal” on page 556
13	40X8168	1	1	HCIT left cover	See “HCIT drawer assembly rear cover removal” on page 559

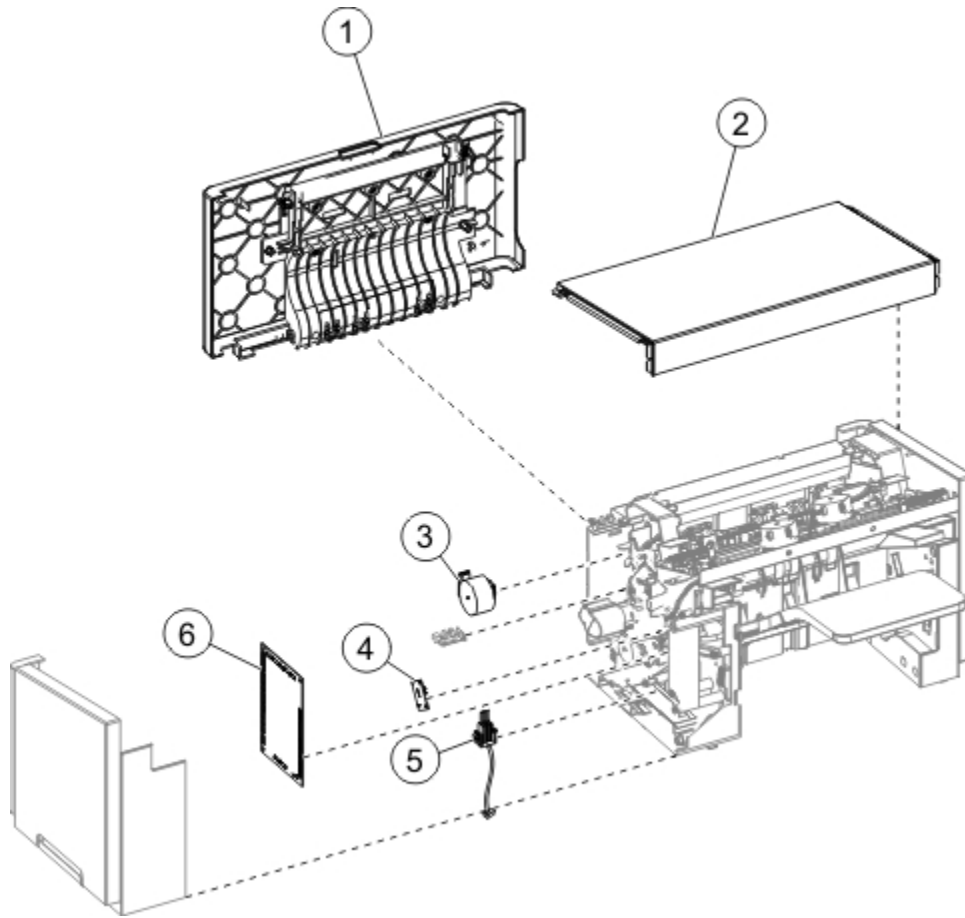
Assembly 26: Output options (MX810, MX811, and MX812)



Assembly 26: Output options (MX810, MX811, and MX812)

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X8207	1	1	Staple finisher option	"Staple finisher/offset stacker option removal" on page 573
1	40X8522	1	1	Offset stacker option	"Staple finisher/offset stacker option removal" on page 573
2	40X8241	1	1	Mailbox option	"Mailbox assembly removal" on page 601

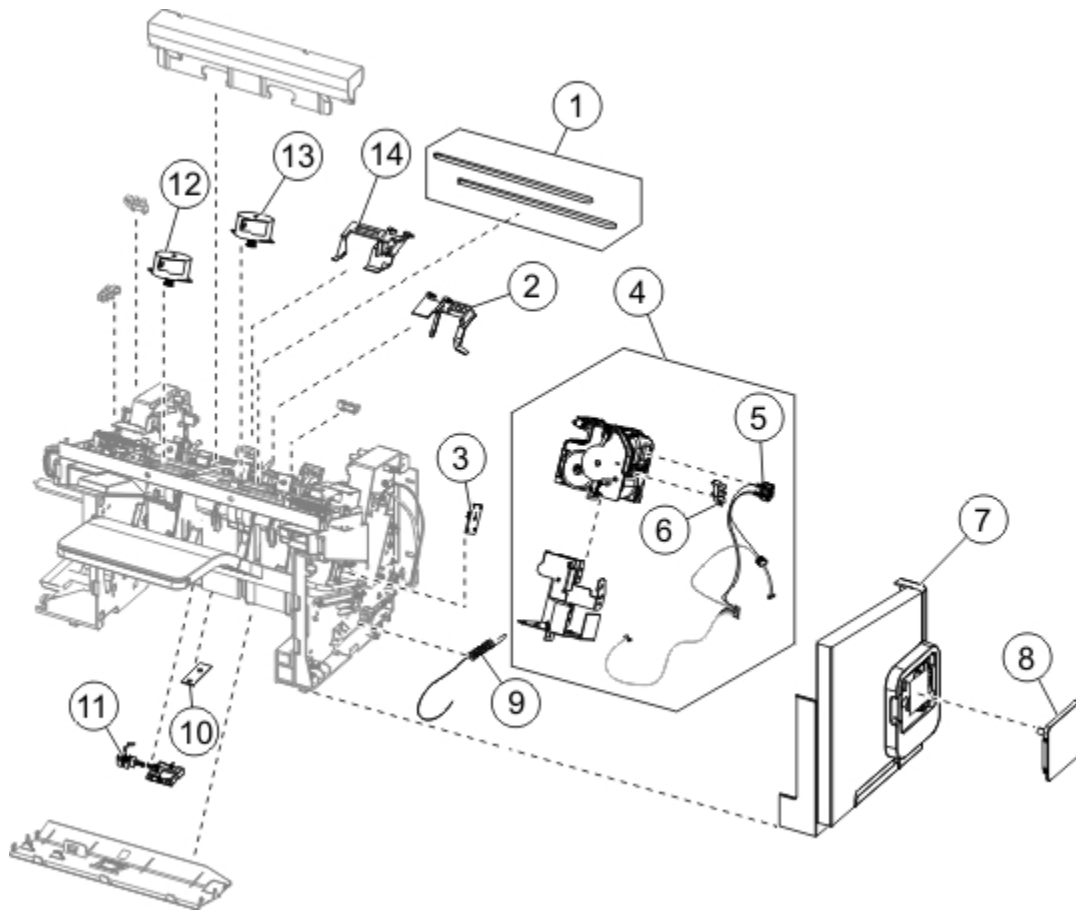
Assembly 27: Staple finisher option 1



Assembly 27: Staple finisher option 1

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X8214	1	1	Stapler rear door	See “Stapler/offset stacker rear door removal” on page 574
2	40X8222	1	1	Stapler top cover	See “Stapler/offset stacker top cover removal” on page 578
3	40X8213	1	1	Stapler paddle drive motor	See “Paddle drive motor removal” on page 588
4	40X8220	1	1	Sensor (bin full receive)	See “Sensor (bin full receive) removal” on page 593
5	40X8224	1	1	Stapler lower interface cable	See “Stapler/offset stacker lower interface cable removal” on page 589
6	40X8221	1	1	Stapler controller PCBA	See “Stapler/offset stacker controller PCBA removal” on page 591

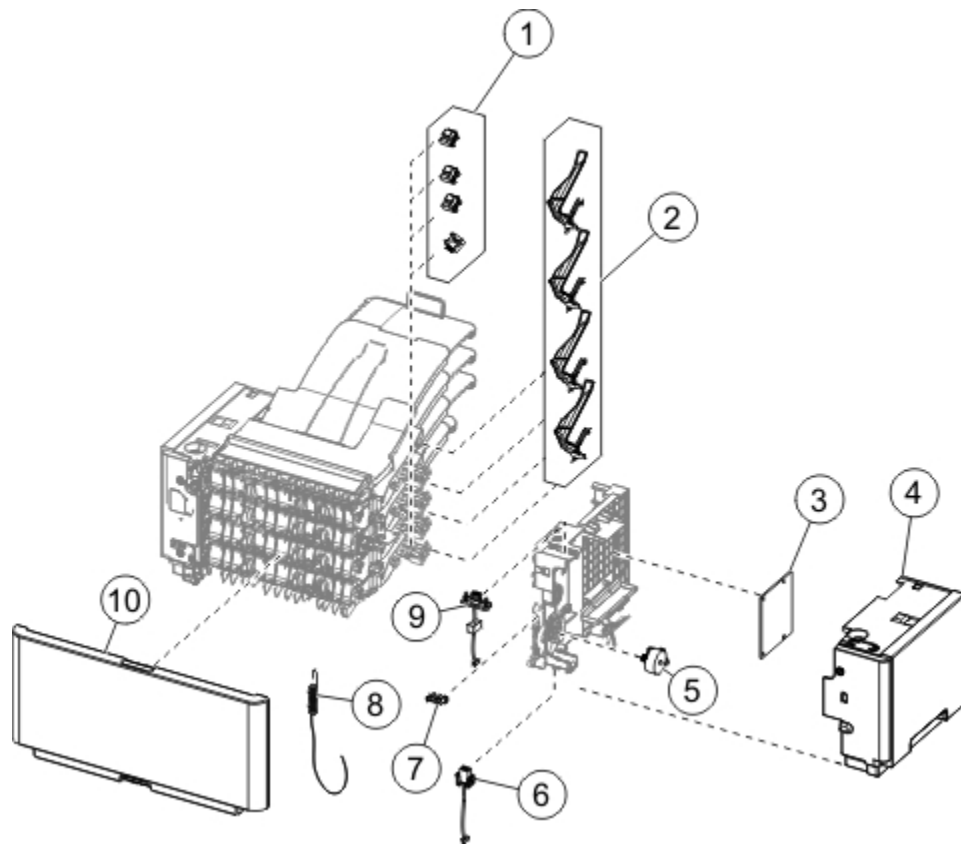
Assembly 28: Staple finisher option 2



Assembly 28: Staple finisher option 2

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X8212	1	1	Tamper drive belt	"Tamper drive belt removal" on page 587
2	40X8209	1	1	Media stack flap (right)	"Media stack flap (right) removal" on page 580
3	40X8217	1	1	Sensor (bin full send)	"Sensor (bin full send) removal" on page 592
4	40X8223	1	1	Stapler carriage assembly	"Stapler carriage assembly removal" on page 598
5	40X8225	1	1	Stapler door close limit switch	"Stapler door close limit switch removal" on page 599
6	40X7592	1	1	Sensor (cartridge door interlock)	"Sensor (cartridge door interlock) removal" on page 599
7	40X8216	1	1	Stapler right cover	"Stapler right cover removal" on page 595
8	40X8215	1	1	Stapler cartridge access door	"Stapler cartridge access door removal" on page 597
9	40X8226	1	1	Stapler spring with string	"Stapler/offset stacker spring with string removal" on page 579
10	40X8218	1	1	Standard output bin LED	"Standard output bin LED removal" on page 584
11	40X8219	1	1	Sensor (finisher bin media present)	"Sensor (finisher/stacker bin media present) removal" on page 585
12	40X8211	1	1	Tamper motor (left)	"Tamper motor (left) removal" on page 586
13	40X8211	1	1	Tamper motor (right)	"Tamper motor (right) removal" on page 586
14	40X8210	1	1	Media stack flap (left)	"Media stack flap (left) removal" on page 581

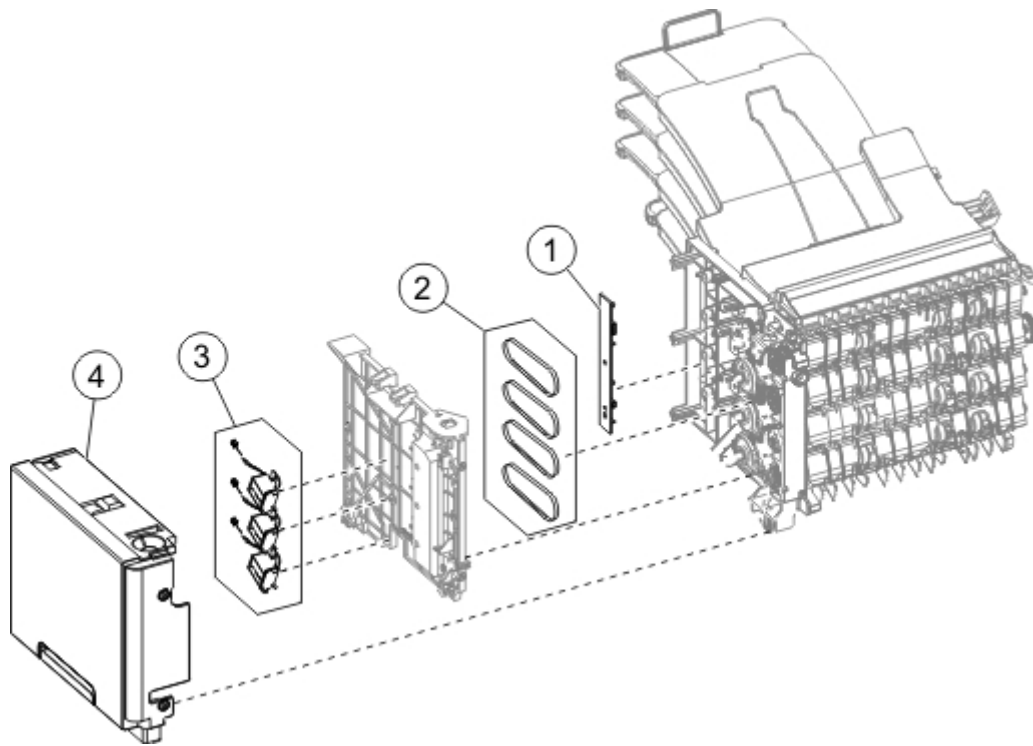
Assembly 29: Mailbox option 1



Assembly 29: Mailbox option 1

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X8248	4	4	Sensor (bin full receive)	"Sensor (mailbox bin full receive) removal" on page 617
2	40X8247	4	4	Mailbox media bin full flag	"Mailbox media bin full flag removal" on page 616
3	40X8244	1	1	Mailbox controller PCBA	"Mailbox controller PCBA removal" on page 609
4	40X8246	1	1	Mailbox left cover	"Mailbox left cover removal" on page 608
5	40X8256	1	1	Mailbox divert motor	"Mailbox divert motor removal" on page 614
6	40X8253	1	1	Mailbox lower interface cable	"Mailbox lower interface cable removal" on page 612
7	40X7592	1	1	Mailbox sensor (divert motor)	"Sensor (mailbox divert motor) removal" on page 611
8	40X8252	1	1	Mailbox spring with string	"Mailbox spring with string removal" on page 605
9	40X8254	1	1	Mailbox upper interface cable	"Mailbox upper interface cable removal" on page 614
10	40X8242	1	1	Mailbox rear door	"Mailbox rear door removal" on page 602
NS	40X8500	1	1	Actuator flag (media bin full)	N/A

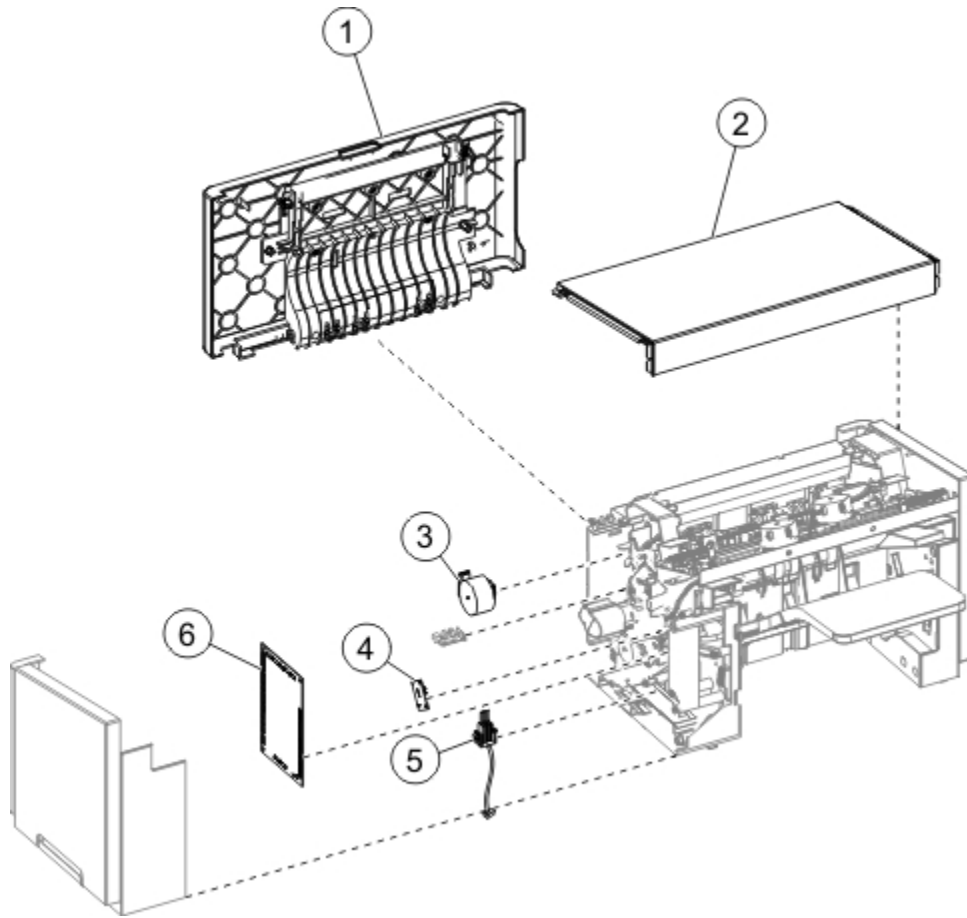
Assembly 30: Mailbox option 2



Assembly 30: Mailbox option 2

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X8250	1	1	Mailbox output bin LED assembly	See “Mailbox output bin LED assembly removal” on page 622
2	40X8249	4	1	Mailbox belt	See “Mailbox belt removal” on page 620
3	40X8251	3	1	Mailbox solenoid	See “Mailbox solenoid removal” on page 606
4	40X8243	1	1	Mailbox right cover	See “Mailbox right cover removal” on page 604

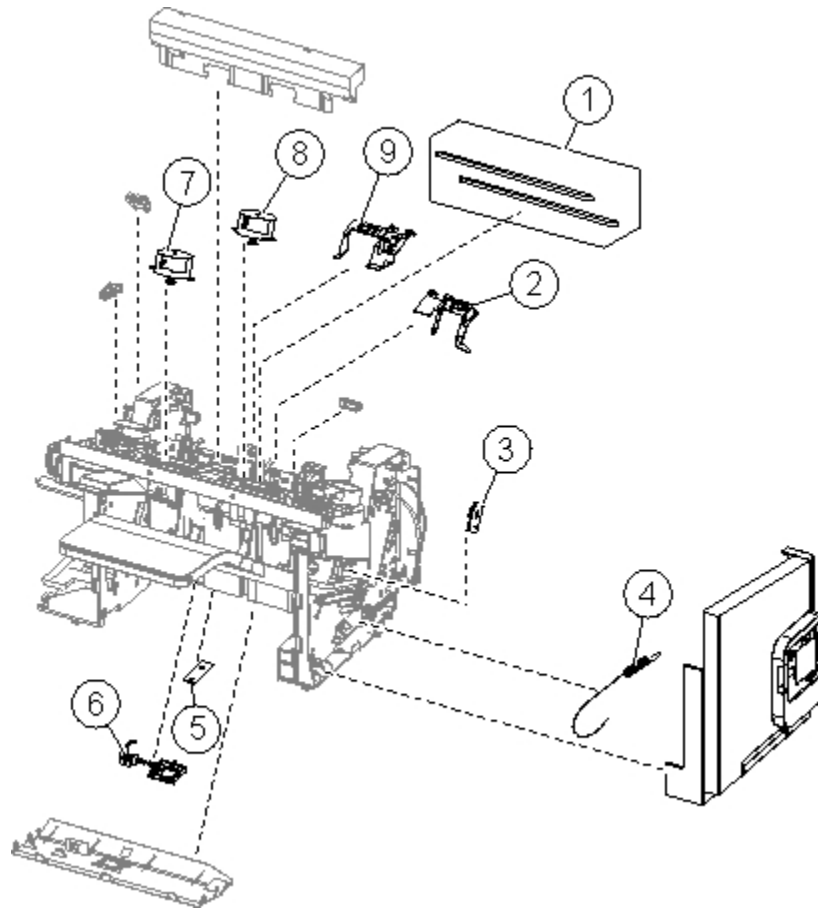
Assembly 31: Offset stacker option 1



Assembly 31: Offset stacker option 1

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X8214	1	1	Stacker rear door	See “Stapler/offset stacker rear door removal” on page 574
2	40X8222	1	1	Stacker top cover	See “Stapler/offset stacker top cover removal” on page 578
3	40X8213	1	1	Stacker paddle drive motor	See “Paddle drive motor removal” on page 588
4	40X8220	1	1	Sensor (bin full receive)	See “Sensor (bin full receive) removal” on page 593
5	40X8224	1	1	Stacker lower interface cable	See “Stapler/offset stacker lower interface cable removal” on page 589
6	40X8221	1	1	Stacker controller PCBA	See “Stapler/offset stacker controller PCBA removal” on page 591

Assembly 32: Offset stacker option 2



Assembly 32: Offset stacker option 2

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
1	40X8212	2	2	Tamper drive belt	"Tamper drive belt removal" on page 587
2	40X8209	1	1	Media stack flap (right)	"Media stack flap (right) removal" on page 580
3	40X8217	1	1	Sensor (bin full send)	"Sensor (bin full send) removal" on page 592
4	40X8226	1	1	Stacker spring with string	"Stapler/offset stacker spring with string removal" on page 579
5	40X8218	1	1	Standard output bin LED	"Standard output bin LED removal" on page 584
6	40X8219	1	1	Sensor (stacker bin media present)	"Sensor (finisher/stacker bin media present) removal" on page 585
7	40X8211	1	1	Tamper motor (left)	"Tamper motor (left) removal" on page 586
8	40X8211	1	1	Tamper motor (right)	"Tamper motor (right) removal" on page 586
9	40X8210	1	1	Media stack flap (left)	"Media stack flap (left) removal" on page 581

Assembly 33: Miscellaneous

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
NS	40X4819	1	1	RS232C serial adapter	N/A
NS	40X4826	1	1	N8120 GIGABIT INA adapter	N/A
NS	40X4823	1	1	PARALLEL 1284-B THCK adapter	N/A
NS	40X4827	1	1	N8130 10/100 fiber adapter	N/A
NS	40X5315	1	1	SHIP-WITH ISP (2PER) screw	N/A
NS	40X5316	1	1	14 PIN JST-FOR ISP cable	N/A
NS	40X5317	1	1	Tee with thumbscrew standoff	N/A
NS	40X7445	1	1	DDR3-512Mx32 2GB RAM card	N/A
NS	40X7567	1	1	DDR3-256Mx32 1GB-400MHZ RAM card	N/A
NS	40X8555	1	1	256MB USER flash card	N/A
NS	40X8556	1	1	Traditional Chinese font card	N/A
NS	40X8557	1	1	Simplified Chinese font card	N/A
NS	40X8568	1	1	Korean font card	N/A
NS	40X8569	1	1	Japanese font card	N/A
NS	40X8612	1	1	MX71x/MX81x forms and barcode	N/A
NS	40X8614	1	1	MX71x/MX81x prescribe card	N/A
NS	40X8613	1	1	MX71x/MX81x IPDS card	N/A
NS	40X0387	1	1	USB-A interface device	N/A
NS	40X8311	1	1	Card reader - small stick on case	N/A
NS	40X8312	1	1	Card reader - large stick on case	N/A
NS	40X8313	1	1	Card reader - small snap on case	N/A
NS	40X8314	1	1	Card reader - large snap on case	N/A
NS	40X1593	1	1	Lexmark MarkNet N7000e (1 port USB) Ethernet 10Base/100BaseTX	N/A
NS	40X1594	1	1	Lexmark MarkNet N7002e (1 port Parallel) Ethernet 10BaseT/100BaseTX	N/A
NS	40X1592	1	1	Lexmark MarkNet N7020e (4 port USB) Ethernet 10BaseT/100BaseTX/1000BaseT	N/A
NS	40X7706	1	1	MS71x & MS81x Roller Kit	N/A
NS	40X8420	1	1	MS81x Return Program Fuser Maint. Kit Type 00, 110-120V Letter	N/A
NS	40X8421	1	1	MS81x Return Program Fuser Maint. Kit Type 01, 220-240V A5	N/A
NS	40X8422	1	1	MS81x Return Program Fuser Maint. Kit Type 02, 100V A5	N/A

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
NS	40X8423	1	1	MS81x Return Program Fuser Maint. Kit Type 03, 110-120V A5	N/A
NS	40X8424	1	1	MS81x Return Program Fuser Maint. Kit Type 04, 220-240V Letter	N/A
NS	40X8425	1	1	MS81x Fuser Maint. Kit Type 05, 110-120V Letter	N/A
NS	40X8426	1	1	MS81x Fuser Maint. Kit Type 06, 220-240V A4	N/A
NS	40X8427	1	1	MS81x Fuser Maint. Kit Type 07, 100V A4	N/A
NS	40X8428	1	1	MS81x Fuser Maint. Kit Type 08, 110-120V A4	N/A
NS	40X8429	1	1	MS81x Fuser Maint. Kit Type 09, 220-240V Letter	N/A
NS	40X8431	1	1	MX71x & MX81x ADF Maintenance Kit	N/A
NS	40X8102	1	1	MX81x caster base cover	N/A
NS	40X8103	1	1	MX81x caster base frame	N/A
NS	40X8359	1	1	Locking caster	N/A
NS	40X7857	1	1	ATA pass through hard drive	N/A
NS	40X7858	1	1	802.11B/G/N - US network adapter	N/A
NS	40X7854	1	1	Fax board	N/A
NS	40X8570	1	1	Arabic font card	N/A
NS	40X8571	1	1	Hebrew font card	N/A
NS	40X8591	1	1	USB delete plug	N/A

Assembly 34: Power cords

Asm-index	P/N	Units/mach	Units/FRU	Description	Removal procedure
NS	40X0269	1	1	Power cord LV, USA & Canada, Latin America	N/A
NS	40X0288	1	1	Power cord HV, Argentina	N/A
NS	40X1766	1	1	Power cord HV, Bolivia & Peru	N/A
NS	40X0273	1	1	Power cord HV, Chile, Uruguay	N/A
NS	40X3141	1	1	Power cord HV, Paraguay, Austria, Belgium, France, Germany, Italy, Netherlands, Bluemark, Czech & Solvic countries, Greece, Hungary, Medmark 1, Medmark 2, Arabic, Poland, Russia, CIS, Spain, Portugal, & Ireland	N/A
NS	40X4596	1	1	Power cord LV, Brazil PPB kits	N/A
NS	40X0271	1	1	Power cord HV, United Kingdom, Asian, Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar, Philippines, Singapore, Thailand, Vietnam, Afghanistan, Bangladesh, Bhutan, India, Nepal, Pakistan, Sri Lanka, Tibet, & Hong Kong	N/A
NS	40X0301	1	1	Power cord HV, Australia & New Zealand	N/A
NS	40X3609	1	1	Power cord 100 V, Japan	N/A
NS	40X1792	1	1	Power cord, HV, Korea	N/A
NS	40X0303	1	1	Power cord, HV PRC	N/A
NS	40X1791	1	1	Power cord LV, Taiwan	N/A
NS	40X1774	1	1	Power cord HV, Denmark, Finland, Norway, Sweden	N/A
NS	40X0275	1	1	Power cord, HV, Israel	N/A
NS	40X1773	1	1	Power cord HV, South Africa, Namibia, Lesotho, Botswana & Pakistan	N/A
NS	40X1772	1	1	Power cord HV, Switzerland	N/A

Appendix A: Printer specifications

Power specifications

The average nominal power requirements for the base printer configuration are shown in the following table (power levels are shown in watts):

Printing States	MX710	MX711	MX810	MX811	MX812
Off	0 W	0 W	0 W	0 W	0 W
Hibernate	0.7 W	0.7 W	0.7 W	0.7 W	0.7 W
Sleep State	14 W	15 W	16 W	16 W	16 W
Ready Low Power State	55 W	55 W	70 W	70 W	70 W
Ready State	110 W	110 W	120 W	120 W	120 W
Simplex Printing	825 W	925 W	760 W	860 W	960 W
Duplex Printing	625 W	725 W	575 W	675 W	775 W
Copying	860 W	960W	820 W	920 W	1020 W
ADF scanning	130 W	130 W	140 W	140 W	140 W
Typical Electricity Consumption (Default)	6.8 kwh/wk	7.5 kwh/wk	7.1 kwh/wk	7.7 kwh/wk	8.1 kwh/wk
Typical Electricity Consumption (Eco Mode enabled)	5.0 kwh/wk	5.6 kwh/wk	4.9 kwh/wk	5.6 kwh/wk	6.0 kwh/wk
Max. (Avg) current while printing:	12.4 A				
100 - 110 Volts	10.7A				
115 - 127 Volts	5.4 A				
220 - 240 Volts					

Maximum current shown in amps.

Notes:

- Using a power converter or inverter is not recommended.
- All MX71x and MX81x models conform to the ENERGY STAR standard.
- All models ship with Sleep Mode set to On.

Operating clearances

The following clearances must be maintained for proper ventilation and operation of the MX710/ MX810 Series MFPs (including removing jobs from the exit tray, fully extending the paper input tray, and using the ADF):

1	Top	152.4 mm (6 in.)
2	Right	152.4 mm (6 in.)

3	Front	381 mm (15 in.)
4	Left	152.4 mm (6 in.)
5	Rear	152.4 mm (6 in.)
Additional clearance (especially from the front) will usually be needed to utilize the multi-purpose feeder, clear misfeeds, lift the scanner lid, and to change toner and imaging units.		

Acoustics

All measurements are made in accordance with ISO 7779 and conform with ISO 9296.

Acoustic measurements

Status	1 Meter average sound pressure (dBA)	Declared sound power level (Bels)
MS810		
Idle (Standby mode)	32	4.8
Quiet mode	53	6.8
Simplex printing	53	6.8
Duplex printing	57	7.2
MS811		
Idle (Standby mode)	32	4.7
Quiet mode	53	6.8
Simplex printing	58	7.3
Duplex printing	57	7.2
MS812		
Idle (Standby mode)	32	4.7
Quiet mode	53	6.8
Simplex printing	58	7.3
Duplex printing	58	7.3
Measurements apply to 300 dpi, 600 dpi, and 1200 dpi printing.		

Environment

Printer Temperature and Humidity

- Operating
 - Temperature: 60 to 90° F (15.6 to 32.2° C)
 - Relative humidity: 8 to 80%
 - Maximum wet bulb temperature: 73° F (22.8° C)

- Altitude: 9,500 ft. (0 to 2896 meters)
- Atmospheric pressure: 74.6 kPa
- Power off
 - Temperature: 50 to 110° F (10 to 43.3° C)
 - Relative humidity: 8 to 80%
 - Maximum wet bulb temperature: 80.1° F (26.7° C)
 - Altitude: 9,500 ft. (0 to 2896 meters)
 - Atmospheric pressure: 74.6 kPa
- Ambient operating environment*
 - Temperature: 60 to 90° F (15.6 to 32.2° C)
 - Relative humidity: 8 to 80%
- Storage and shipping (packaged printer) with or without print cartridge
 - Temperature: -40 to 110° F (-40 to 43.3° C)

*In some cases, performance specifications (such as paper OCF, EP cartridge usage) are measured at an ambient condition.

Processor

800 MHz, dual core

Security reset jumper

The Security Reset Jumper is available on all high-end printer and MFP models.

Each device contains a hardware jumper with which an administrator can:

- Erase all security templates, building blocks, and access controls that a user has defined (i.e. the factory default configuration); or
- Force the value of each function access control to “No Security” (all security templates and building blocks are preserved but not applied to any function).

Note: If the “Enable Audit ” setting in the Security Audit Log section of the “Security Menu ” is activated, the device logs a message each time that the jumper is used.

A small lock icon identifies the jumper’s position on the RIP card. Also, to make it easier to separate the small yellow plastic jumper from the 3-pin connector, a looped handle is attached to the top of the small yellow jumper that covers the 3-pin connector.

An administrator controls how a jumper reset affects a device by configuring the jumper-related setting on the Security Web page.

Note: Administrators can discourage tampering with the jumper by securing the entire RIP card cage (of which the jumper is a part) with a Kensington lock. Alternatively, to completely negate the effects of a jumper reset, an administrator can select the **No Effect** value for the jumper-related setting on the Security Web page or in the **Security Reset Jumper** setting in the **Security Menu**.

To perform a jumper reset operation:

- 1 Power the device off.
- 2 Remove the Kensington lock from the card cage (if installed).
- 3 Remove the small yellow jumper that covers a pair of the jumper's pins.
- 4 Replace the small yellow jumper so that it covers the pins adjacent to its original position.
- 5 Replace and secure the Kensington lock on the card cage (if installed).
- 6 Power the device on.

Note: The movement of the small yellow jumper from position A to position B triggers the reset, not the specific positions. When the device is powered on, it labels the current position of the small yellow jumper (for example, position A) as the "home" position. If, at the next POR, the device detects that the small yellow jumper has moved from its previous home position (position A) to the other position (position B), then it performs a jumper reset. After performing the reset, the device also relabels the other position (position B) as the home position (position A is now the other location).

Note: The admin's security settings are lost when the RIP card is replaced. Secure settings are those that are configured under the **Settings >Security >Edit Security Setups** menu. These are all the PINs, Passwords, and other Building Blocks and Security Templates that define the protection of the functions and menus. In other words, if the customer is using LDAP to authenticate users to use the Copy function, then after the RIP card is replaced, the LDAP configuration and the Copy function will no longer be protected.

Printer skew specifications

Abnormal skew printer correction

STEP ONE: The repair operator should evaluate the left edge of the paper to determine if the aligner is properly set. If the left vertical line is within the defined limit, parallel to the edge of the paper, the aligner is correct and properly set. If the left edge vertical line is not within the defined limit spec the repair operator can adjust the aligner at the repair station.

STEP TWO: The repair operator should evaluate the horizontal line at the top edge of the page for potential LSU induced skew. If the horizontal line does not fall within the defined limit or spec, then it is considered skewed and the printhead must be adjusted. See **"Polygon printhead mechanical registration adjustment" on page 281.**

Duplex skew specifications

	Side 1	Side 2
Print sequence through printer	2nd	1st
16 lb-to-24 lb	+/-0.007 mm/mm	+/-0.005 mm/mm
All Other Papers	+/-0.010 mm/mm	+/-0.005 mm/mm
Card Stock	+/-0.007 mm/mm	+/-0.007 mm/mm
Paper, dual-Web paper labels	+/-0.010 mm/mm	+/-0.010 mm/mm
Vinyl, Polyester labels (less than or equal 92# liner)	+/-0.010 mm/mm	+/-0.010 mm/mm

Print registration

Initial adjustment (adjustable in increments of T=0.3mm, B=0.5mm, R and L=0.2mm):

- Left print position accuracy (scanning direction): +/-0.5mm - start on scan
- Top print position accuracy (feeding direction): +/-0.5 mm - start on scan
- Horizontal page width accuracy: +/-0.5mm - mirror motor
- Vertical page length accuracy: +/-0.5mm - drive motor

Print position error

The print position error can be measured at any point in the printable area using core media papers:

- Vertical (process): +/-0.7mm
- Horizontal (magnification): +/-0.7mm

Appendix B: Options and features

Available internal options

- Memory cards
 - Printer memory
 - Flash memory
 - Fonts
- Firmware cards
 - Bar Code
 - PrintCryption™
- Printer hard disk
- Lexmark™ Internal Solutions Ports (ISP)
 - RS-232-C Serial ISP
 - Parallel 1284-B ISP
 - MarkNet™ N8250 802.11 b/g/n Wireless ISP
 - MarkNet N8130 10/100 Fiber ISP
 - MarkNet N8120 10/100/1000 Ethernet ISP

Input options supported

- 550-sheet tray
- 550-sheet lockable tray
- 250-sheet tray (for MX71x machines only)
- 250-sheet lockable tray (for MX71x machines only)
- HCIT tray

Output options supported

- Mailbox
- Staple finisher
- Offset stacker

Physical specifications (options)

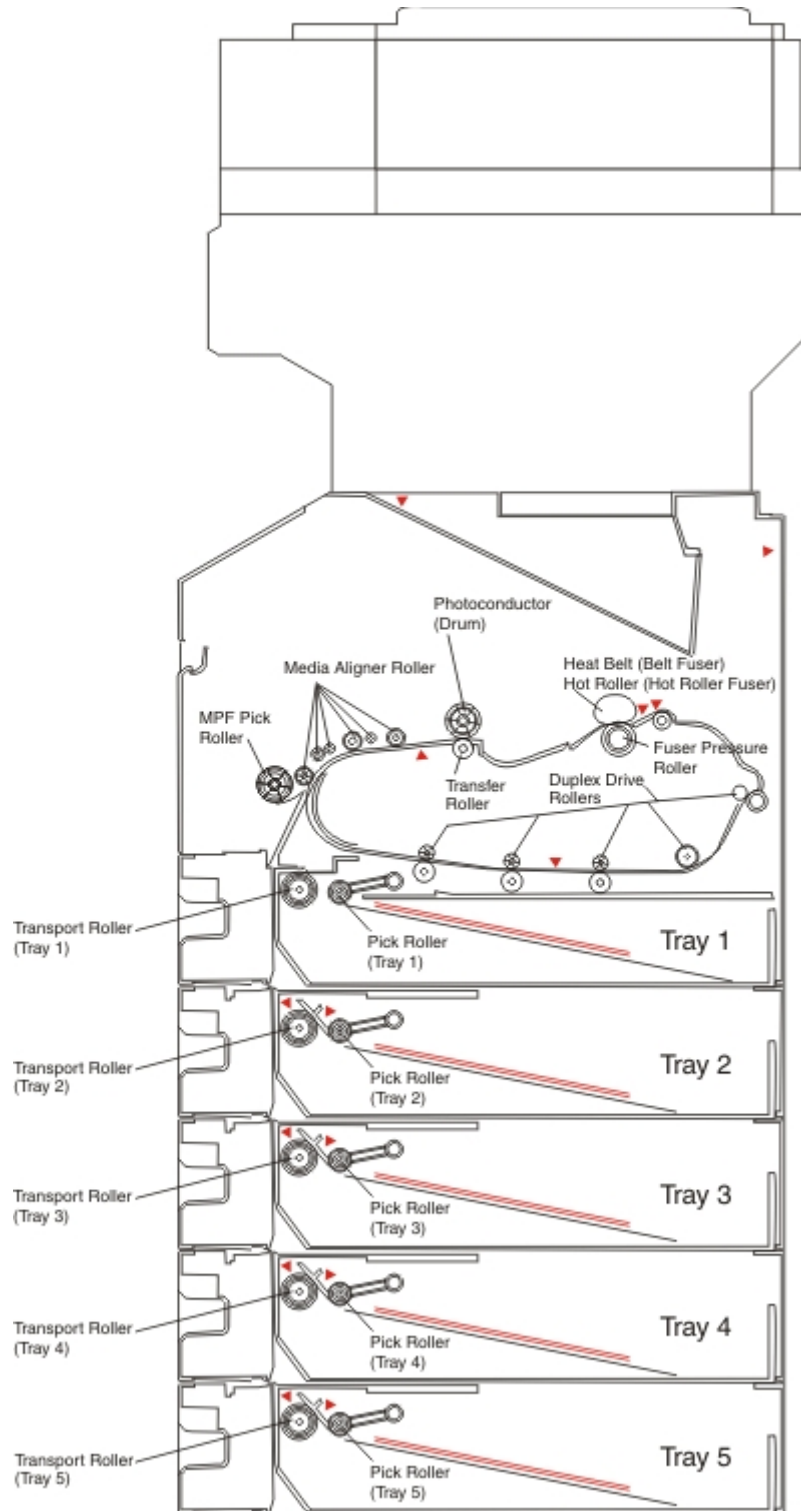
Item	Height	Width	Depth	Weight
250-sheet tray	85 mm (3.3 in.)	421 mm (16.6 in.)	510 mm (20.1 in.)	5 kg (11.0 lb)
550-sheet tray (MX71x)	110 mm (4.3 in.)	421 mm (16.6 in.)	510 mm (20.1 in.)	5.8 kg (12.8 lb)

Item	Height	Width	Depth	Weight
550-sheet tray (MX81x)	110 mm (4.3 in.)	548 mm (21.6 in.)	535 mm (21.1 in.)	7.0 kg (15.4 lb)
2100-sheet tray (MX71x)	350 mm (13.8 in.)	421 mm (16.6 in.)	510 mm (20.1 in.)	17.7 kg (39 lb)
2100-sheet tray (MX81x)	351 mm (13.8 in.)	548 mm (21.6 in.)	535 mm (21.1 in.)	19.3 kg (42.6 lb)
Mailbox	271 mm (10.7 in.)	421 mm (16.6 in.)	384 mm (15.1 in.)	6.3 kg (13.9 lb)
Staple finisher	320 mm (12.6 in.)	433 mm (17.1 in.)	403 mm (15.9 in.)	7.0 kg (15.4 lb)
Offset stacker	320 mm (12.6 in.)	433 mm (17.1 in.)	403 mm (15.9 in.)	4.5 kg (9.9 lb)
Spacer	110 mm (4.3 in.)	421 mm (16.6 in.)	510 mm (20.1 in.)	3.4 kg (7.5 lb)

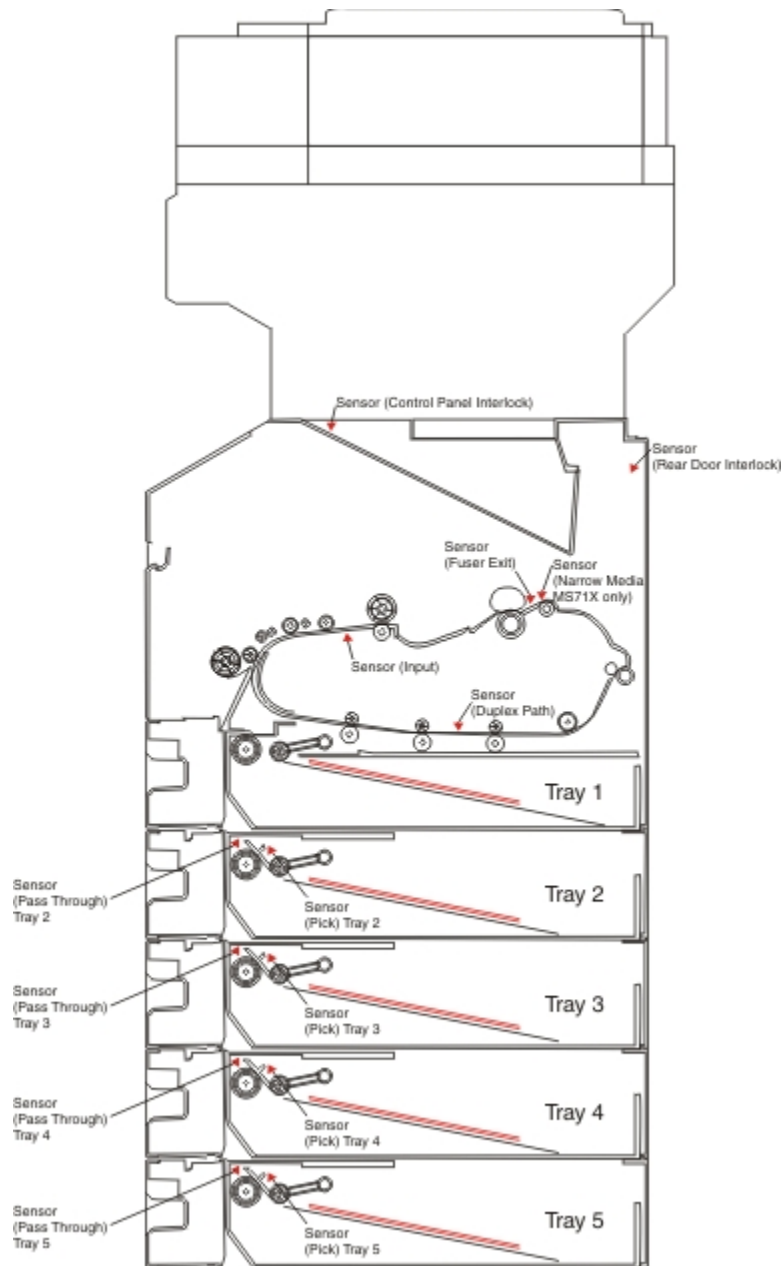
Appendix C: Theory of operation

- “Models MX81x and MX71x paper path rollers and sensors” on page 742
- “Models MX81x and MX71x sensors” on page 743
- “Functions of main components” on page 743
- “Media tray” on page 744
- “Multi-purpose feeder (MPF)” on page 745
- “Registration” on page 745
- “Duplex” on page 746
- “Transfer” on page 746
- “Printhead” on page 747
- “Fuser components” on page 748
- “Exit” on page 750
- “Drive” on page 750
- “Sensors” on page 752
- “Electrical components and controller” on page 753
- “Xerographic and print cartridge components” on page 754
- “Document scanning at ADF” on page 758
- “Document scanning at platen” on page 758
- “Names and functions of components” on page 759
- “Supported paper sizes, types, and weights” on page 763
- “Output options theory” on page 767

Models MX81x and MX71x paper path rollers and sensors



Models MX81x and MX71x sensors



Functions of main components

Media tray assembly

The media tray is used to contain the media that will be printed on by the printer.

Rear media guide

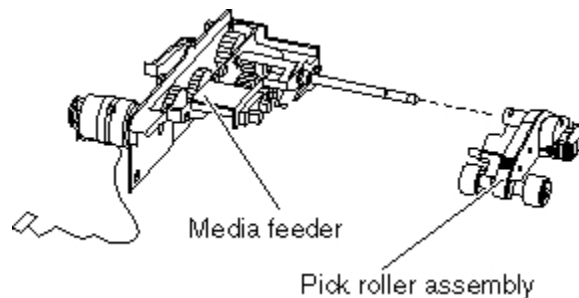
The rear media tray guide assembly can be adjusted to different media sizes by moving it to the front or rear and can be locked in position. The rear guide should come into contact with the media and hold it in position.

Side media guide

The media tray assembly is designed so that it can adjust to the media width in the media feed direction by moving the side guide to the left or right.

Media tray

Media feeder



The pick roller assembly which is part of the media feeder, is a mechanical unit supplying media from the media tray to the paper path. The driving force from the media feeder drive motor, is transmitted to the two pick rollers to feed media from the tray and is also used to lift the tray plate that is used to lift the media stack into contact with the pick rollers.

Sensor (media size)

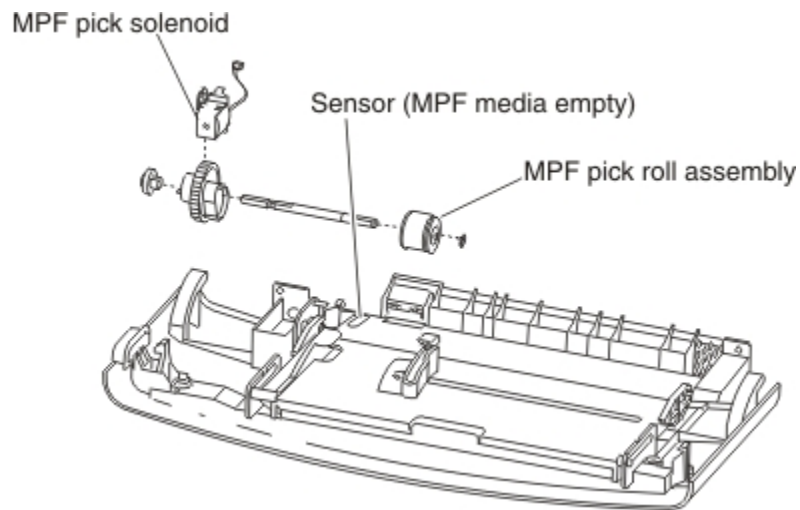
The sensor (media size) detects the size of media supplied from each media tray assembly. A system of four switches is used to decode the media size, which is then sent to the controller board.

Sensor (pick roller position)

This sensor is used to determine if the lift plate in the paper tray is at the optimum position for media to properly pick. As media is fed out, clearance will occur between the media and the pick rollers. When the specified amount of clearance is determined by the sensor, the lift plate will be raised to position the media in the optimum position to be properly picked.

Multi-purpose feeder (MPF)

The MPF is a mechanical unit supplying media to the printer. The driving force from the main drive motor drive motor is transmitted to the MPF pick roller to feed media.



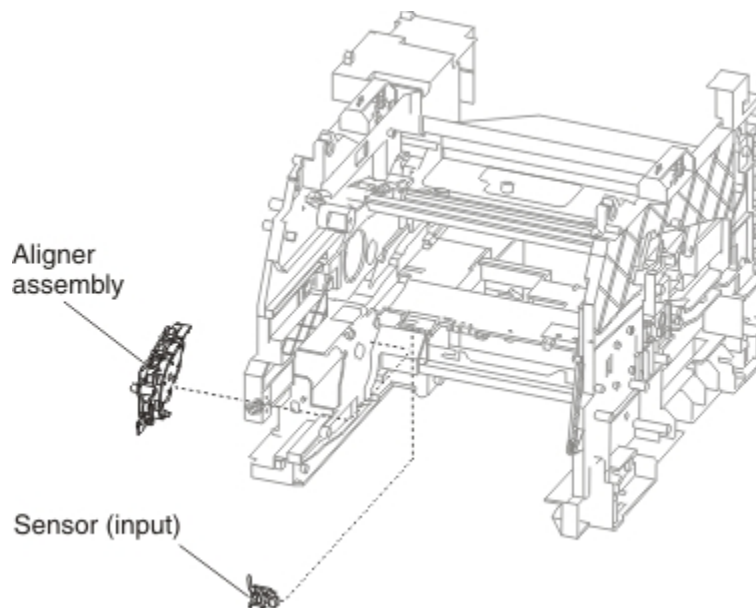
MPF pick roller

The MPF pick roller feeds the media placed in the MPF media tray into the printer.

MPF pick solenoid

The MPF pick solenoid transmits the driving force from the main drive motor assembly to the MPF pick roller.

Registration



Sensor (input)

The sensor (input) is located just before the print cartridge and can detect whether media exists in the input path. The sensor is used to detect jams and to set functional timing.

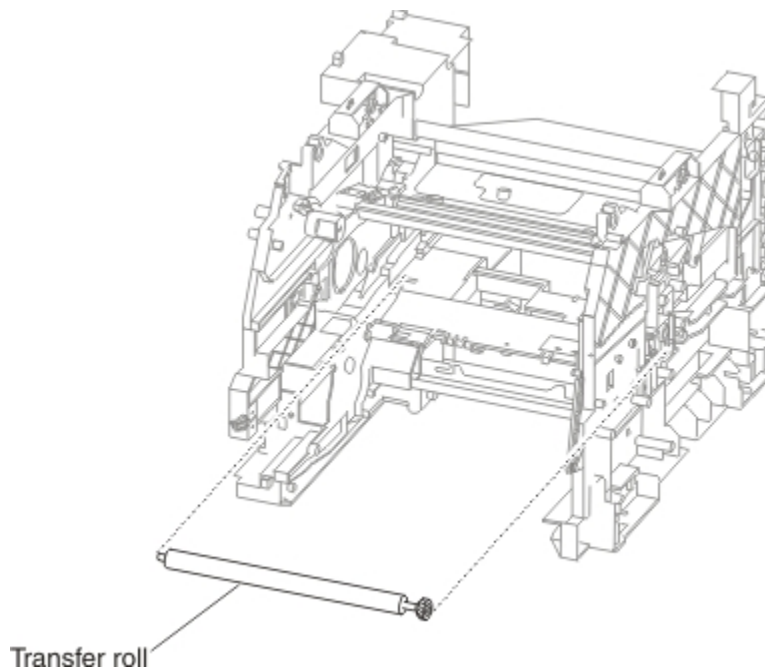
Duplex

The printer has an integrated duplex that is used to provide two-sided printing. After the first side of the page is printed, the page enters the duplex path and then re-enters the primary paper path just before the input sensor. The second image is then printed on the reverse side of the paper.

Sensor (duplex path)

The media aligner roller is used to feed the media through the input path and to ensure that media is fed straight (not skewed) through the machine. The media aligner roller can be adjusted to correct media skew issues and should always be adjusted when it is replaced or removed.

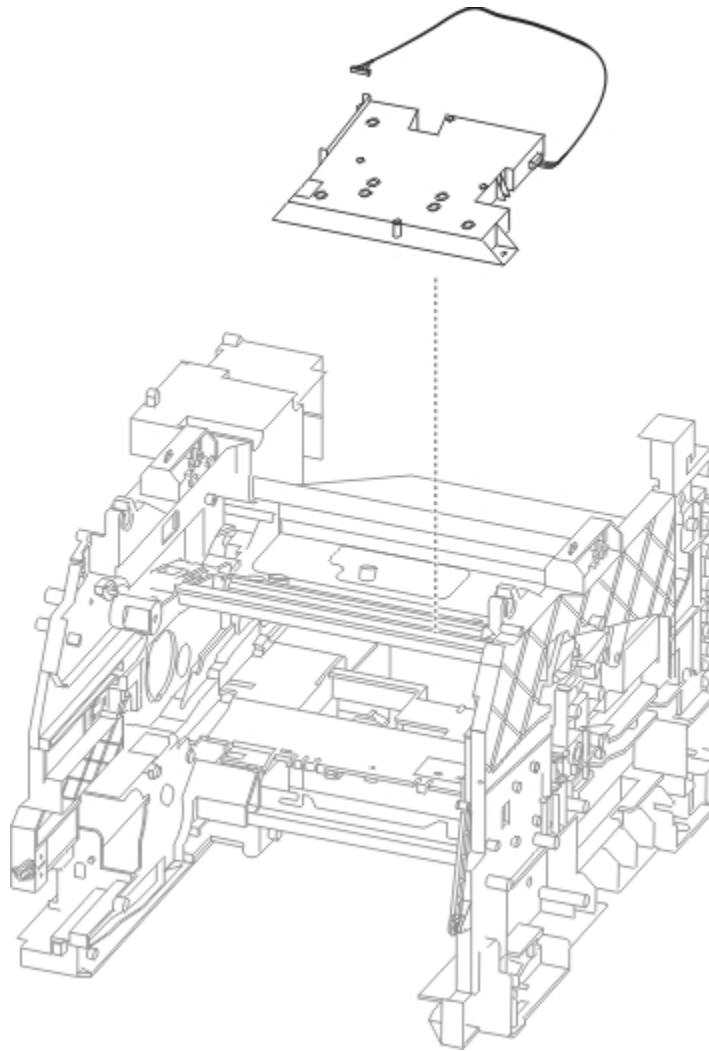
Transfer



Transfer roller

The transfer roller applies charge to the rear surface of the media when the media passes between the transfer roller and photo conductor (drum). The toner image is transferred from the photo conductor (drum) surface to the media surface.

Printhead

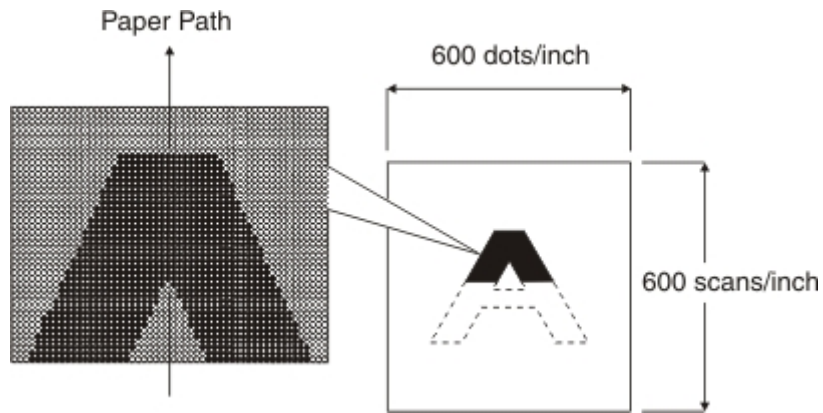


The printhead scans the photoconductor drum surface with a laser beam. It consists of four components: laser diode (LD) card assembly, printhead motor, polygon mirror, and the start of scan card assembly.

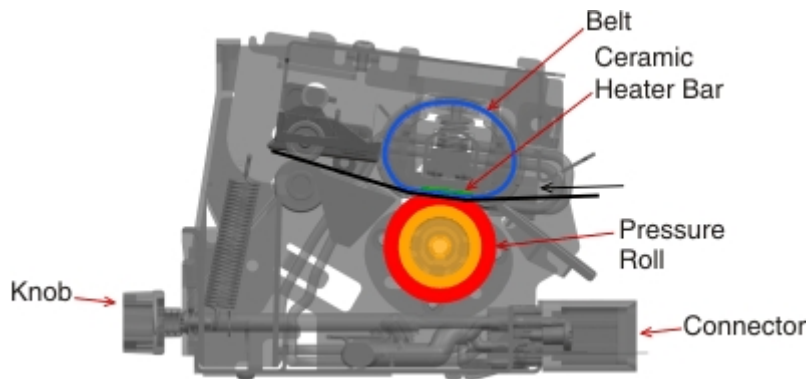
- 1 LD card assembly**—The LD card assembly generates the laser beam. The beam is turned on or off according to a print data signal coming from the controller board.
- 2 Printhead motor/polygon mirror**—The polygon mirror is mounted to the shaft of the printhead motor, and is rotated at a high speed by the printhead motor. The mirror rotation shifts the incidence and reflection angles of a laser beam to scan the photoconductor (drum) in a single direction. The laser beam reaches the polygon mirror as it passes through multiple lenses, mirrors, and windows. The laser beam then arrives at the photo conductor (drum) surface.
- 3 SOS card assembly**—When a laser beam hits the SOS sensor on the SOS card assembly, the beam is converted to an electrical signal (SOS signal), and detects the initial position where a scan starts on each line.

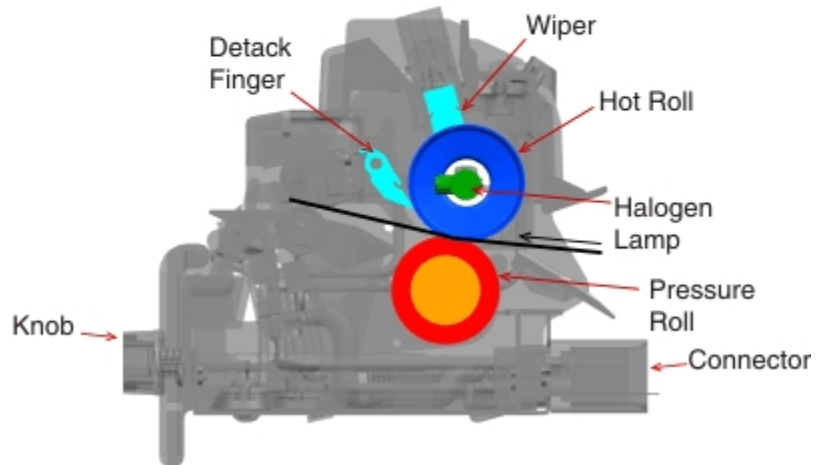
When a laser beam is scanned across the photoconductor (drum) surface from one end to the other while turning on and off the beam, one line of latent image is created. If the scanning by the laser beam is repeated while rotating the drum, a two-dimensional image is created. The resolution in the scanning direction (from right to left) is determined by the rotational speed of the printhead motor, depending on how quickly the laser is adjusted. The resolution in the process direction (from top to bottom) is determined by the rotational speed of the printhead motor. (The higher the scanning speed becomes, the sooner the scanning of the next row can be started.)

The following image is a conceptual diagram of an image created by scanning:



Fuser components





Heat belt (belt fuser)

The heat belt is a thin metal belt with a coated surface. This belt is heated by a ceramic heater bar. The heat is applied to the media passing between the heat belt and pressure roll, fusing the toner on the media.

Pressure roll

The pressure roll is used to apply pressure to the media surface for fusing. Pressure is applied to the media between the pressure roll and heat roll (or heat belt) to aid in the fusing process.

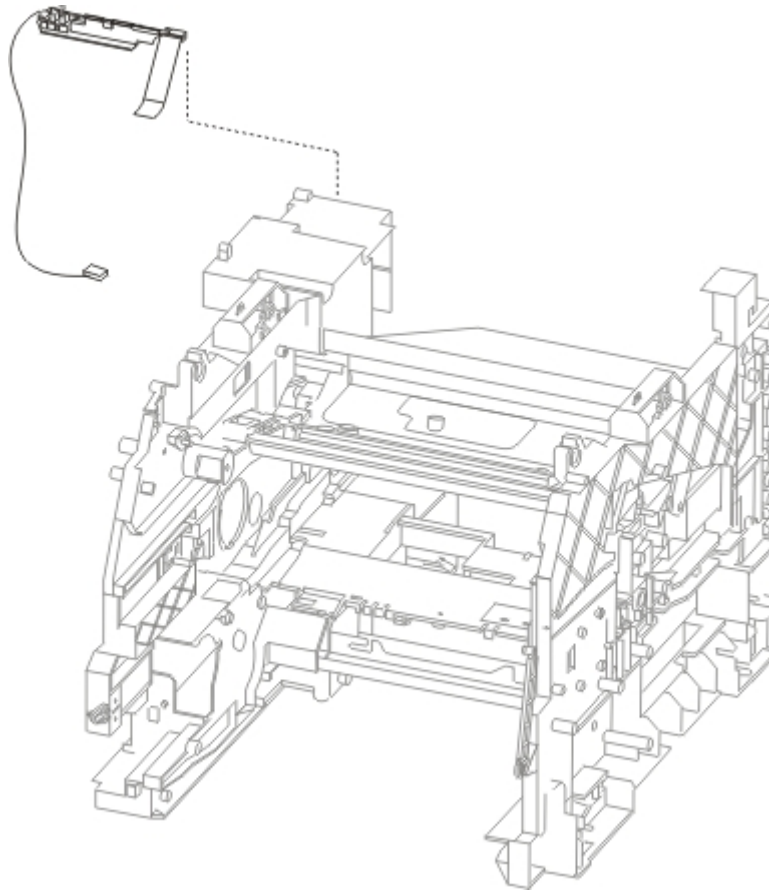
Thermistor

The thermistor monitors the surface temperature of the media-feed portion of the heat belt or heat roll to provide feedback to the controller board. This information is used to turn the ceramic heater or halogen lamp on and off to maintain the desired temperature.

Sensor (fuser exit)

The sensor (fuser exit) detects the arrival and departure of media as it passes through the fuser.

Exit



The standard media exit ejects printed media from the printer to the standard bin .

Sensor (standard bin full)

The sensor (standard bin full), along with the standard bin full flag, detects whether the standard bin is full and stops the printing process.

Drive

Main drive motor assembly

The main drive motor is a DC motor that drives the imaging unit, aligner, and MFP.

Fuser drive motor assembly

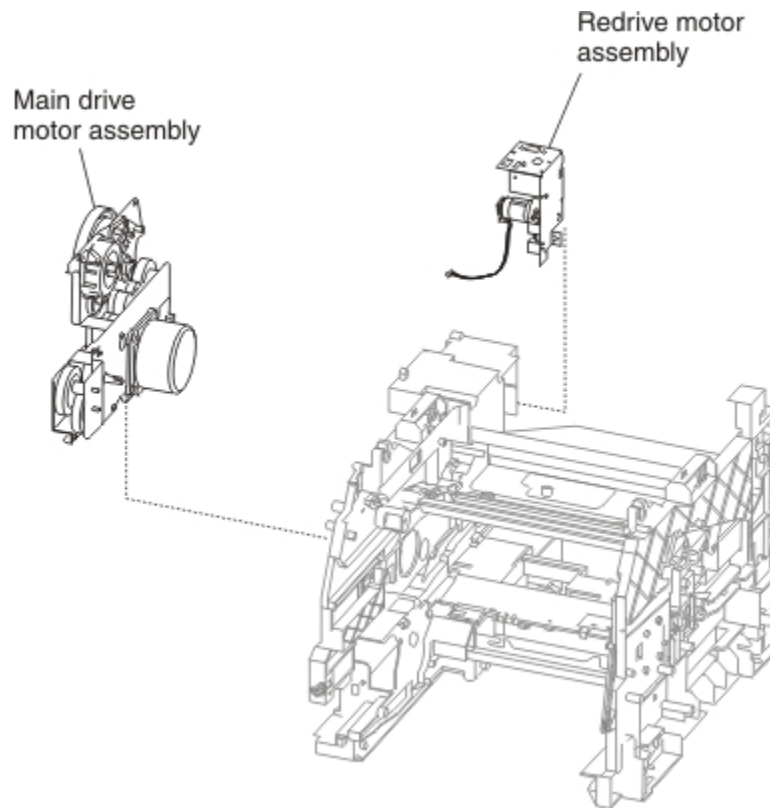
The fuser drive motor is a DC motor that drives the fuser.

Toner add motor assembly

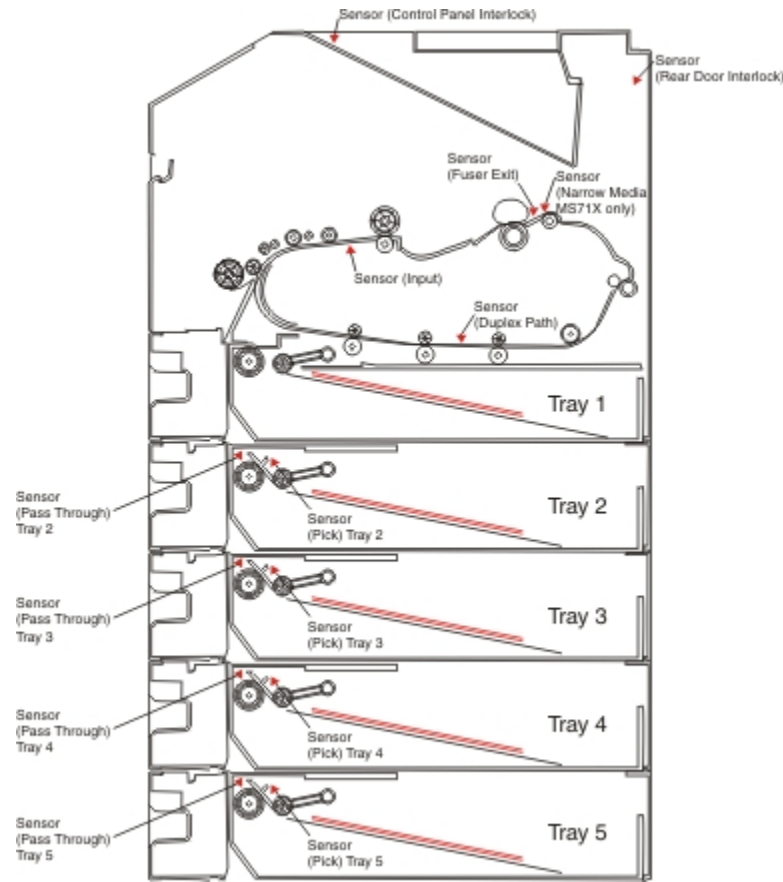
The toner add motor is a DC motor that drives the toner cartridge in order to provide new toner.

Redrive motor assembly

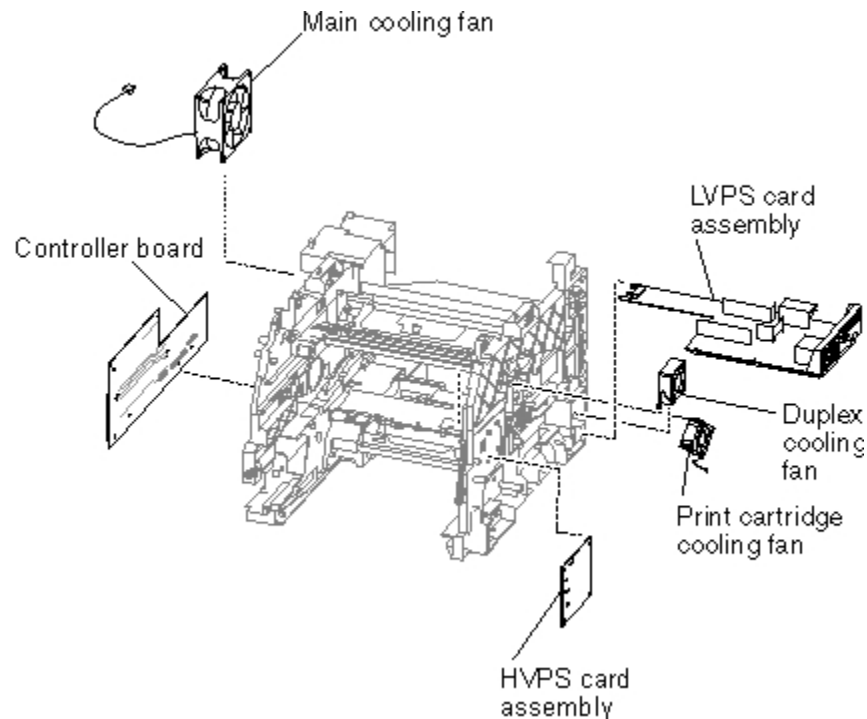
The redrive motor assembly is a DC motor that drives the redrive assembly that transports the media into the duplex path entrance, standard bin, or output option.



Sensors



Electrical components and controller



Sensor (control panel door interlock)

The sensor is a safety device to cut off a 24 VDC power supply from the LVPS to the high volt power supply (HVPS), controller board, and to the main drive motor assembly, while the control panel door is open.

Sensor (rear door interlock)

The sensor is a safety device to cut off a 24 VDC power supply from the LVPS to the HVPS, controller board, and to the main drive motor assembly, while the printer rear door is open.

Main cooling fan

The main cooling fan discharges air from the printer to provide cooling to this area of the printer.

Cartridge cooling fan

The imaging unit cooling fan discharges air from the print cartridge area to provide cooling to this area of the printer.

Duplex cooling fan

The Duplex cooling fan discharges air from the duplex drive motor area to provide cooling to this area of the printer.

LVPS board assembly

The LVPS board assembly generates 6.5V and 25V DC voltages. The LVPS can be switched to work with 100V, 110, and 220V machines.

HVPS board assembly

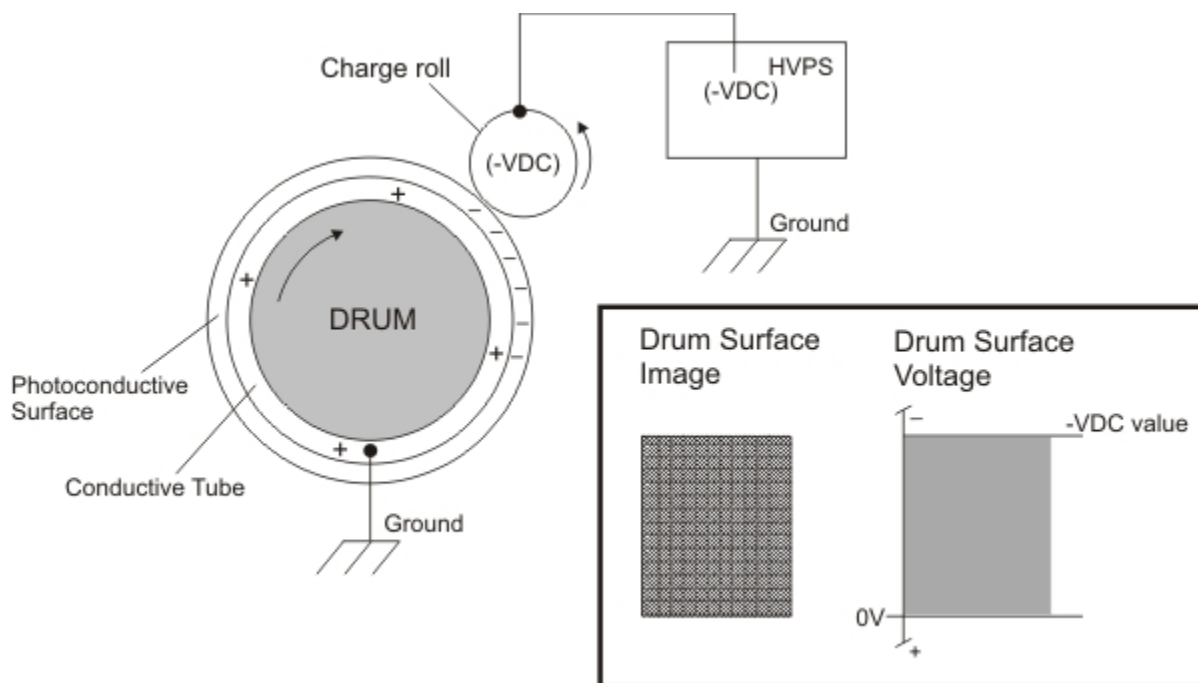
The HVPS board assembly generates and provides DC voltages to the developer roll, the transfer roller, and the charge roller (located in the imaging unit).

Controller board

The controller board controls printing operation based on the communication with the RIP controller and optional peripherals. It also controls toner dispense, fuser control, sensor switch feedback, drive motors, clutches, and solenoids.

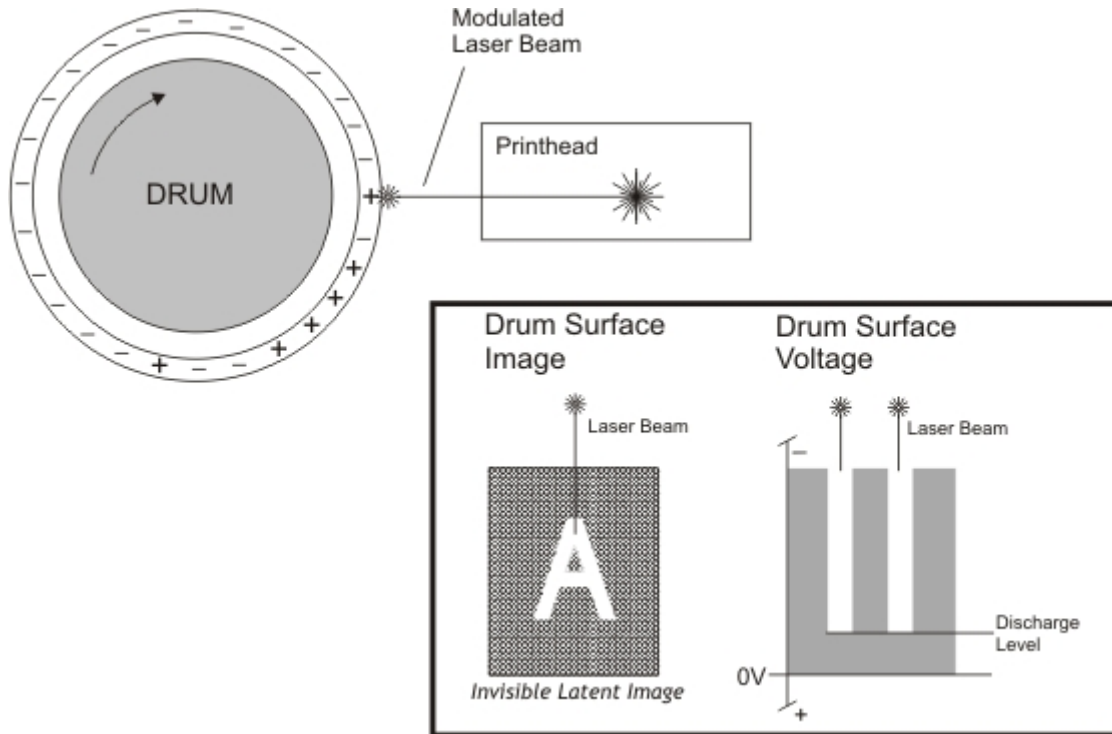
Xerographic and print cartridge components

Charge



The charge roller places a uniform negative electrostatic charge on the surface of the drum. The drum surface is made of a photoconductive material that holds an electrical charge as long as the drum remains in darkness. Light striking the drum discharges the surface charge.

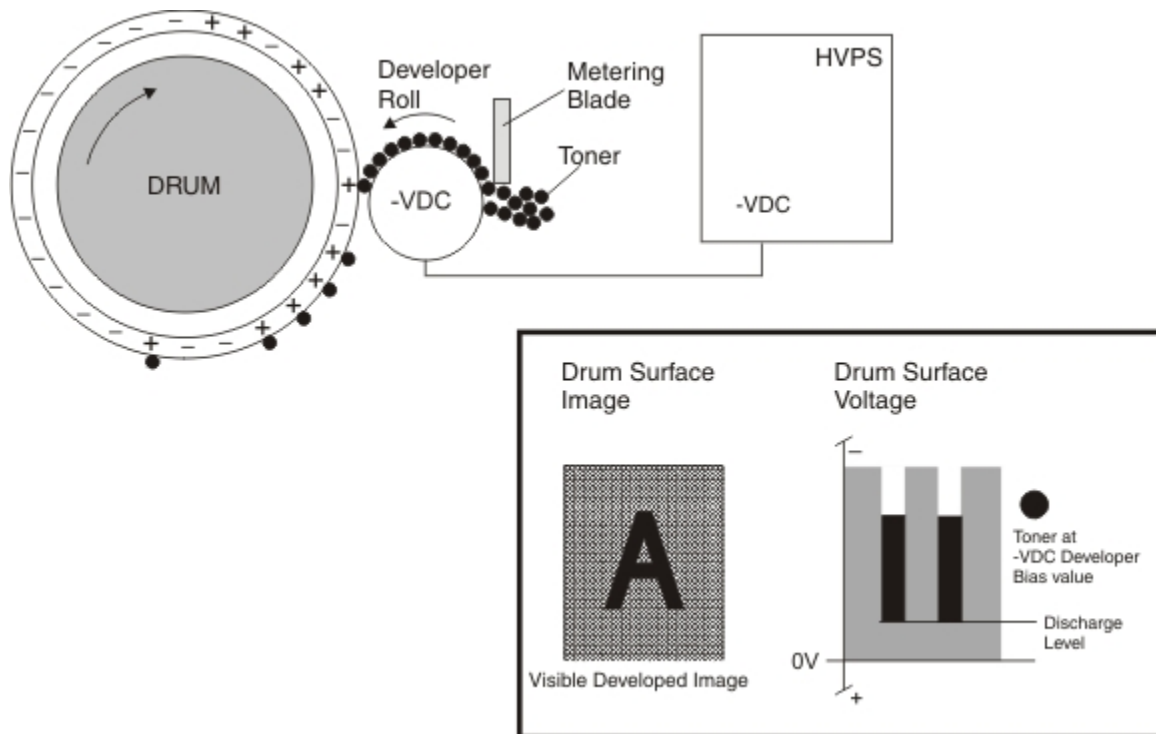
Exposure



The Printhead generates a beam of laser light. Image data received from the controller board assembly modulates this beam, turning it on and off according to image information that is received from the host computer and software.

Through the use of a series of rotating and stationary mirrors within the Printhead, the beam scans the negative charged drum surface. Whenever the print controller sends a command to print a black pixel, the laser switches on long enough to shine onto the drum at a single pixel point. That point is now discharged and slightly less negative than the surrounding negative charge. The less negative areas are considered positive. This discharge/no discharge process creates an invisible, electrostatic image on the surface of the drum. This image is called a latent image.

Development



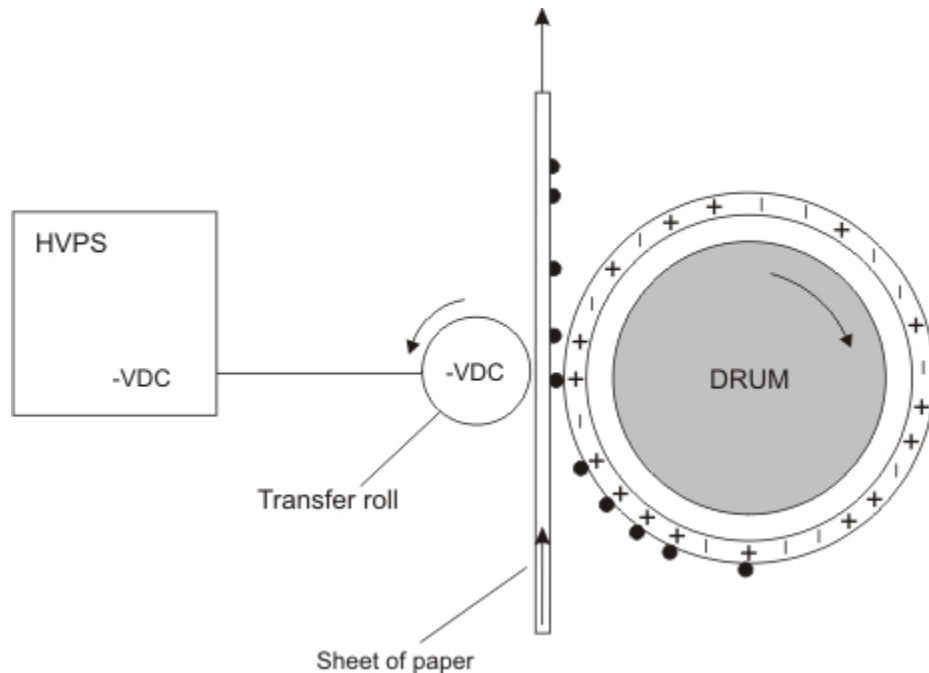
The toner contained within the PC cartridge has an electrical property that causes it to adhere to the development roller. The metering blade spreads the toner into a very thin layer on the development roller. Friction between the development roller and the CM blade development roller generates a small electrical charge that is transferred to the toner.

The surface of the developer roller is made up of a thin sheet of conductive material. The HVPS supplies the development roller with two voltages: a DC voltage and an AC voltage. The DC voltage is used to transfer toner from the development roller to the surface of the drum. The AC voltage agitates the toner on the development roller, making toner transfer easier.

The development roller maintains a negative DC electrical potential. Negative charged areas of the drum have a lower electrical potential, or higher relative negative value than the development roller. Discharged areas of the drum have a higher electrical potential, or lower relative negative value, than the development roller. A discharged point on the surface of the drum now appears less negative in relation to the negative charge on the development roller.

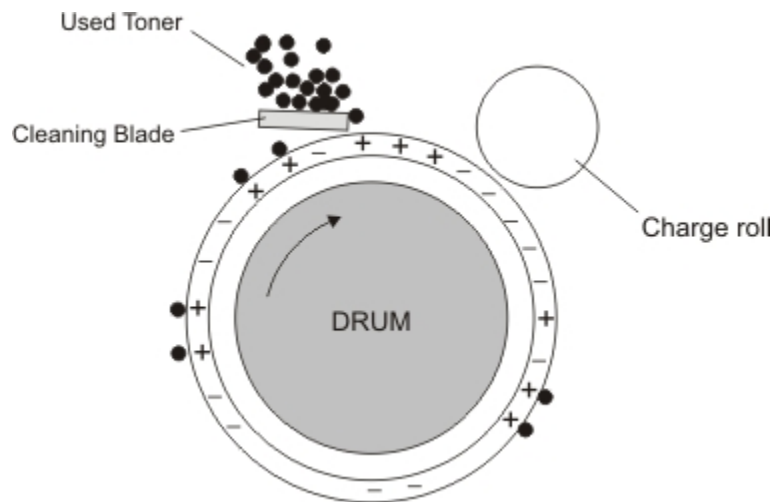
The toner adhering to the development roller is always in contact with the drum surface. When a less negative point on the drum (a discharged area) comes in contact with the more negative charged toner on the Magnet roller, toner transfers from the magnet roller to that point on the drum. There is now a visible toner image— developed image— on the drum surface.

Transfer



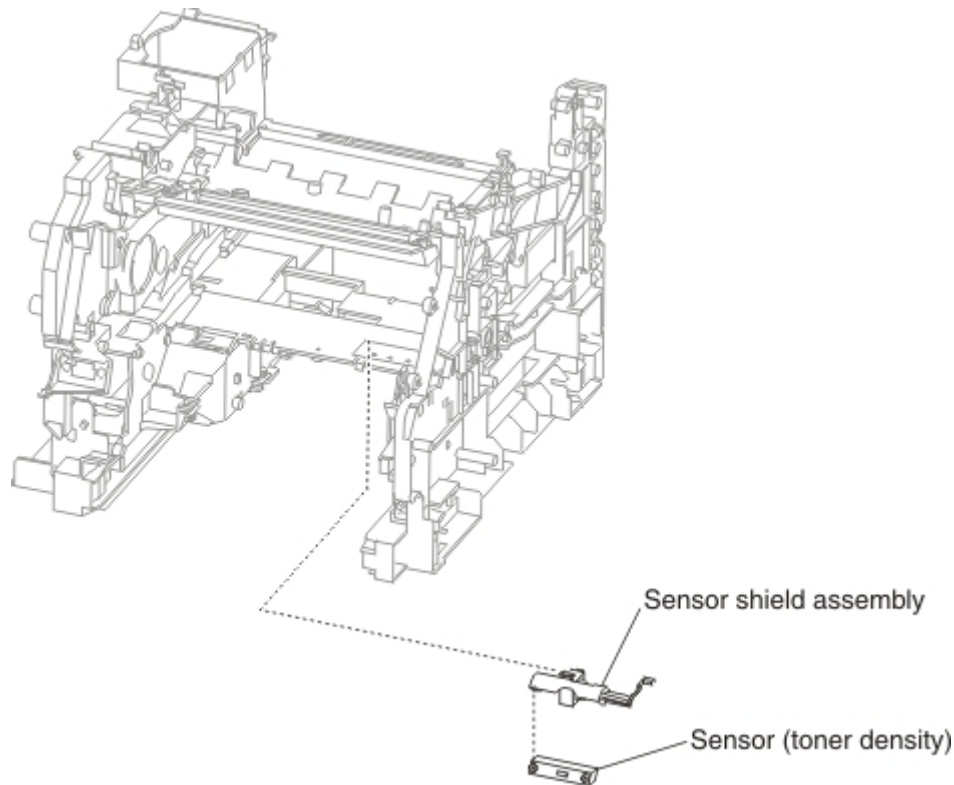
As the paper travels between the transfer roller and the photoconductor (drum), the Transfer roller applies a positive charge to the back of the printing paper. This positive charge transfers the negative charged toner image from the photoconductor (drum) to the top surface of the paper. The toner image is now on the paper and the paper is now stuck to the photoconductor (drum) due to the relative electrical differences between the negative electrical charge of the inner conductive layer of the drum and the positive electrical charge of the paper.

Cleaning



The cleaning blade removes any toner that remains on the drum after the transfer process. The toner that the cleaning blade removes is collected inside the sealed PC cartridge.

Auto density sensing

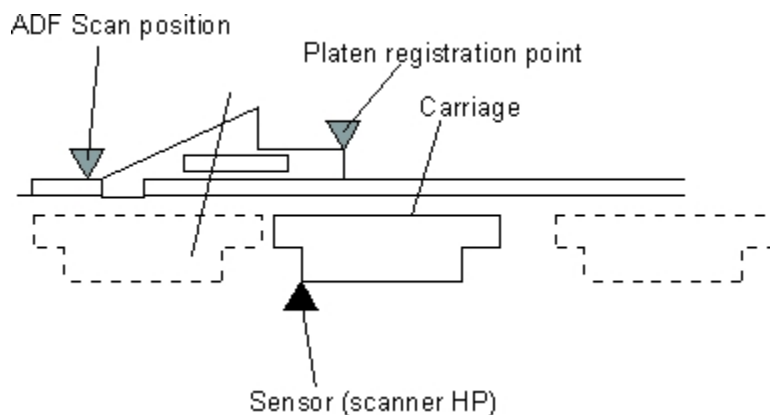


The image density sensor assembly uses a reflection type sensor that detects a pre-placed toner patch and image on the photoconductor (drum) and outputs pulses when the central line of the patch image aligns with the central line of the detector. The sensor outputs pulses at the timing the patch image passes the sensor. Therefore observing changes of intervals at which pulses are output leads to toner density detection.

Document scanning at ADF

The document scanning section of this machine consists of a scanner that reads a single-sheet document placed on the platen glass and a document feeder that can transport a multiple-sheet document for one or two-sided scanning.

Document scanning at platen

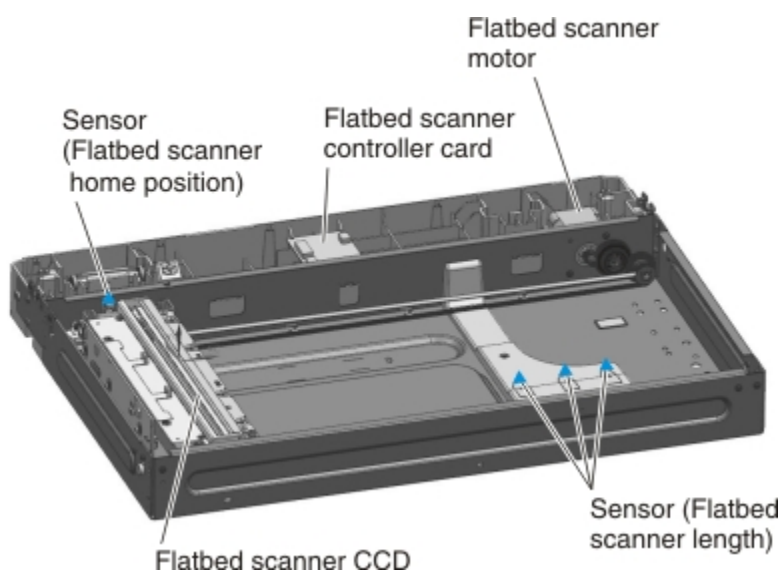


The operational overview of a document scanning at the platen:

- 1 The flatbed scanner CCD assembly travels to read the document.
- 2 The exposure lamp is installed on the flatbed scanner CCD assembly. As the flatbed scanner CCD assembly travels, the document on the platen glass is scanned and exposed with the exposure lamp.
- 3 The flatbed scanner CCD image sensor assembly reads the image data.
- 4 The ADF employs a constant velocity transport system that scans images by feeding the document at a constant speed over the specified position (scan position) where the carriage of the scanner unit assembly is fixed.

Names and functions of components

Flatbed scanner



- **Flatbed Scanner drive motor**—A stepping motor that drives the flatbed scanner CCD assembly.
- **Sensor (flatbed scanner home position)**—A sensor that detects the home position of the flatbed scanner CCD assembly.
- **Sensor (flatbed media length)**—A series of three sensors used to detect the length of the media placed on the platen.
- **Flatbed Scanner exposure lamp**—A LED lamp to which the document is exposed.
- **Flatbed CCD scanner**—The assembly that scans the original document.
- **Flatbed Scanner controller PCBA**—A card that controls the scanner section.

A document sheet set in the document tray assembly is fed through the ADF feed belt, ADF pick roll, and ADF separation roller assembly. The document image is scanned at the scan position, and the document sheet is ejected through the ADF feed-out roller assembly and the ADF exit roller assembly. For a duplex document sheet, the image on side 1 and the image on side 2 are scanned at the same time in the same pass.

Described below is the overview of the steps before document scanning and that of simplex and duplex document scanning modes.

Setting a document

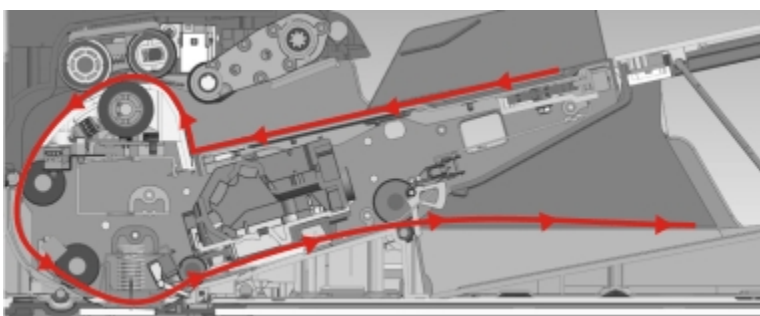
When a document is set on the document tray assembly and the lead edge is pushed into the tray until it stops, the sensor (ADF media present) becomes covered and the machine recognizes that the document has been set properly, turning on the media present LED.

Preparation for feed

Pressing the start button with the document set in the document tray will start feeding the document.

First, the pick roller moves down and presses the document on the document tray to enable document feed. The ADF tray lift motor then raises the ADF media tray to the correct position for media to be picked. The ADF pick roller, ADF feed belt and ADF separator roller are driven by the normal rotation of the ADF pick motor. The transport rollers are driven by the ADF transport motor.

Shown below is the document feed path from the ADF:



Simplex and duplex document feed

For two simplex document sheets, feed is performed in the following sequence:

- 1 The first document sheet is fed to the ADF transport roll assembly.
- 2 The document is fed to the ADF registration roll assembly, and then fed to the scan feed reference position.
- 3 The document sheet is fed at the feed speed corresponding to the selected magnification, and the image on it is scanned with the exposure lamp at the scan position.
- 4 As the image is scanned, the document sheet is fed and ejected by the ADF feed-out roll assembly and ADF exit roller assembly that are driven by the ADF transport motor.
- 5 When the trail edge of the first document sheet has passed through the sensor (ADF pick), the feed of the second document sheet starts.

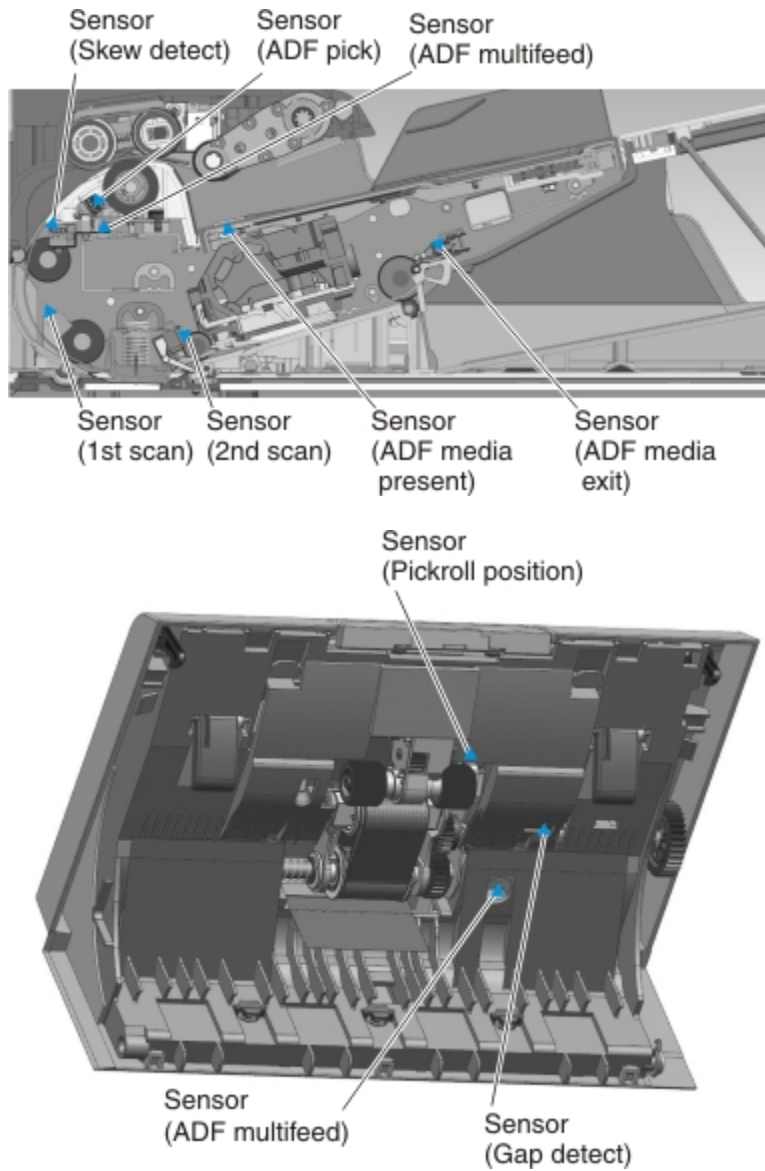
Duplex document

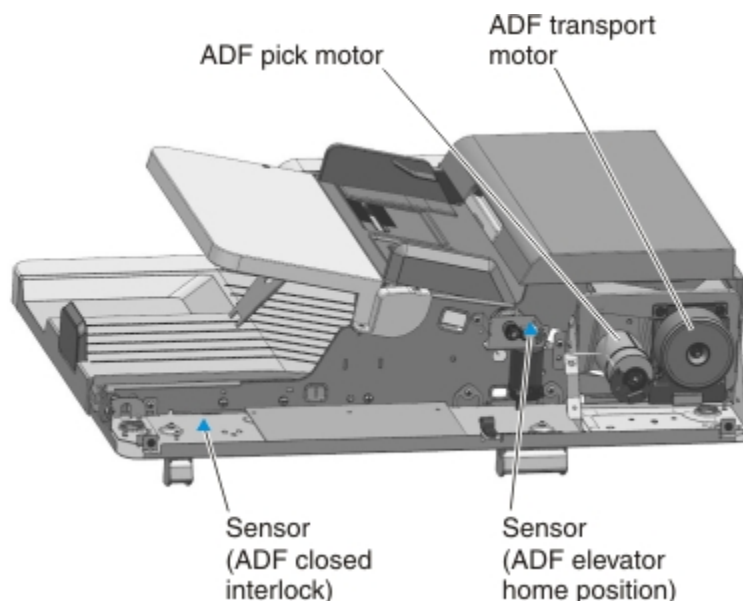
For duplex document sheets, feed is performed in the following sequence:

- 1 The first document sheet is fed to the ADF transport roller assembly.
- 2 The document is fed to the ADF registration roll assembly, and then fed to the scan feed reference position.
- 3 The document sheet is fed at the feed speed corresponding to the selected magnification, and the image on it is scanned with the exposure lamp at the scan position.
- 4 As the image is scanned on both sides, the document sheet is fed and ejected by the ADF feed-out roll assembly and ADF exit roll assembly that are driven by the ADF transport motor.

ADF components

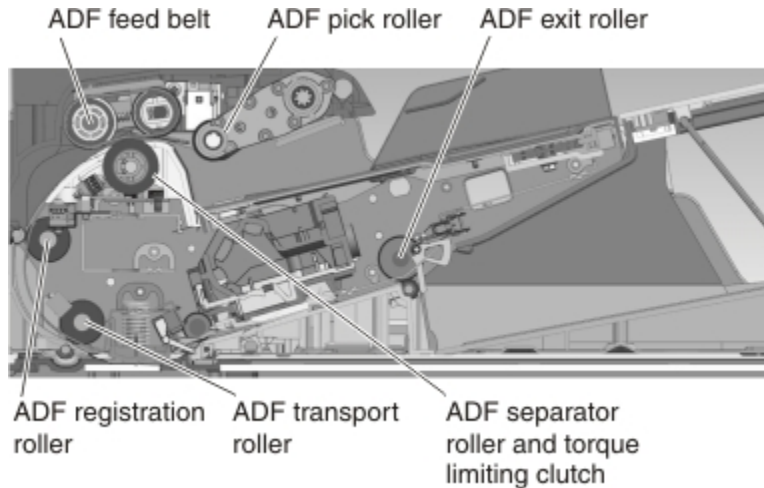
ADF electronic components





- **Sensor (ADF closed interlock)**—A sensor that detects whether the ADF is raised away from the flatbed scanner.
- **Switch (ADF top door interlock)**—A sensor that detects whether the ADF top door is open.
- **Switch (ADF lower door interlock)**—A sensor that detects whether the ADF lower door is open.
- **Sensor (ADF pick roller position)**—A sensor that detects the position of the pick roller relative to the position of the ADF lift tray.
- **Switch (ADF elevator tray home position)**—A sensor that detects the home position of the elevator tray.
- **Sensor (ADF media present)**—A sensor that detects the presence or absence of a document on the ADF document tray.
- **ADF media present LED**—An LED that illuminates when a document is set on the ADF Document Tray.
- **Sensor (ADF skew detect)**—A sensor that detects whether the original piece of media is skewed as it passes through the ADF media path.
- **Sensor (ADF gap detect)**—A sensor that detects the gaps between pieces of original media being fed to properly set timing sequences.
- **Switch (ADF hole detect)**—A sensor that detects whether the original piece of media contains punched holes.
- **Sensor (ADF pick)**—The ADF sensor (ADF pick) is installed immediately downstream from the pick roller to detect completion of document feed.
- **Sensor (ADF 1st scan)**—The ADF sensor (ADF 1st scan) is installed just upstream of the scanning surface and is used to for scanning timing operations.
- **Sensor (2nd scan)**—The ADF sensor (ADF 1st scan) is installed just down stream of the scanning surface and is used to for scanning timing operations.
- **Sensor (ADF media exit)**—The sensor (ADF media exit) is used to detect when scanned media has exited the ADF.
- **ADF feed motor assembly**—The feed motor assembly is a stepping motor that rotates the transport rollers.
- **ADF pick motor**—The ADF pick motor is a stepping motor that rotates the ADF pick roller, ADF feed belt and the ADF separator roller.
- **ADF CCD scanner**—The assembly that scans the back side of the original document.
- **ADF controller PCBA**—A card that controls the ADF unit assembly. The ADF controller card assembly is connected to and controlled by the Scanner controller card assembly.

ADF media feed and transport components



- **ADF pick roller**—This roller is used to begin the feed process into the ADF.
- **ADF feed belt**—This belt is used to feed the pick media into the ADF.
- **ADF separator roller and torque limiting clutch**—This roller and clutch are used to ensure that only a single sheet of media is fed into the ADF.
- **ADF registration roller**—This roller is used to set timings and remove skew from media that is being fed into the ADF.
- **ADF transport roller**—This roller is used to transport media through the ADF.
- **ADF exit roller**—This roller is used to feed media out of the ADF and into the ADF bin.

Supported paper sizes, types, and weights

The following tables provide information on standard and optional paper sources and the types of paper they support.

Note: For an unlisted paper size, select the closest *larger* listed size.

Paper types and weights supported by the printer

The printer engine supports 60–176-g/m² (16–47-lb) paper weights.

Paper type	250- or 550-sheet trays	2100-sheet tray	Multipurpose feeder	Duplex
Paper	✓	✓	✓	✓
Card stock	✓	x	✓	✓
Paper labels	✓	x	✓	x
Vinyl Labels	✓	x	✓	x
Pharmacy labels	✓	x	✓	✓
Transparencies	✓	x	✓	x

Paper sizes supported by the printer

Paper size	Dimensions	Standard or optional 250- or 550-sheet trays	Optional 2100-sheet tray	Multipurpose feeder	Duplex
A4	210 x 297 mm (8.3 x 11.7 in.)	✓	✓	✓	✓
A5	148 x 210 mm (5.8 x 8.3 in.)	✓	✓	✓	✓
A6	105 x 148 mm (4.1 x 5.8 in.)	✓	X	✓	✓
JIS B5	182 x 257 mm (7.2 x 10.1 in.)	✓	X	✓	✓
Letter	216 x 279 mm (8.5 x 11 in.)	✓	✓	✓	✓
Legal	216 x 356 mm (8.5 x 14 in.)	✓	✓	✓	✓
Executive	184 x 267 mm (7.3 x 10.5 in.)	✓	X	✓	✓
Oficio	216 x 340 mm (8.5 x 13.4 in.)	✓	✓	✓	✓
Folio	216 x 330 mm (8.5 x 13 in.)	✓	✓	✓	✓
Statement	140 x 216 mm (5.5 x 8.5 in.)	✓	X	✓	✓
Universal	105 x 148 mm to 216 x 356 mm (4.13 x 5.83 in. to 8.5 x 14 in.)	✓	X	✓	✓
	70 x 127 mm to 216 x 356 mm (2.76 x 5 to 8.5 x 14 in.)	X	X	✓	X

Paper sizes, types, and weights supported by the optional finishers

Supported paper sizes

Paper size	4-bin mailbox	Offset stacker	Staple finisher	Staple, hole punch finisher
A6	✓	X	X	X
A5	✓	✓	✓ ²	✓ ²
JIS B5	✓	✓	✓ ¹	✓ ¹
Executive	✓	✓	✓ ¹	✓ ¹
Letter	✓	✓	✓	✓
A4	✓	✓	✓	✓
Legal	✓	✓	✓	✓ ³
Folio	✓	✓	✓	✓ ³
Statement	✓	✓	✓ ¹	✓ ¹
Universal	✓	X	✓ ⁴	X

¹ The finisher stacks the paper but does not staple or punch holes in it.

² The finisher staples the paper if it is loaded long edge first.

³ The finisher stacks and staples the paper but does not punch holes in it.

⁴ The finisher staples the paper if its width is between 8.27 and 8.54 inches.

Supported paper types and weights

Paper type	Paper weight	4-bin mailbox	Offset stacker	Staple finisher	Staple, hole punch finisher
Plain paper	90–176 g/m ² (24–47 lb)	X	X	X	X
	60–90 g/m ² (16–24 lb)	✓	✓	✓	✓
Card stock	163 g/m ² (90 lb), grain long	X	✓	✓ [*]	✓ [*]
	199 g/m ² (110 lb), grain short	X	X	X	X
Transparency	146 g/m ² (39 lb)	X	✓	✓ [*]	✓ [*]

^{*} The finisher stacks the paper but does not staple or punch holes in it.

Paper type	Paper weight	4-bin mailbox	Offset stacker	Staple finisher	Staple, hole punch finisher
Recycled	90–176 g/m ² (24–47 lb)	X	X	X	X
	60–90 g/m ² (16–24 lb)	✓	✓	✓	✓
Paper labels	180 g/m ² (48 lb)	X	X	X	X
Vinyl labels	300 g/m ² (92 lb)	X	X	X	X
Dual web and Integrated	180 g/m ² (48 lb)	X	X	X	X
Polyester	220 g/m ² (59 lb)	X	X	X	X
Bond	90–176 g/m ² (24–47 lb)	X	X	X	X
	60–90 g/m ² (16–24 lb)	✓	✓	✓	✓
Envelope	105 g/m ² (28 lb)	X	X	X	X
Letterhead	90–176 g/m ² (24–47 lb)	X	X	X	X
	60–90 g/m ² (16–24 lb)	✓	✓	✓	✓
Preprinted	90–176 g/m ² (24–47 lb)	X	X	X	X
	60–90 g/m ² (16–24 lb)	✓	✓	✓	✓
Colored paper	90–176 g/m ² (24–47 lb)	X	X	X	X
	60–90 g/m ² (16–24 lb)	✓	✓	✓	✓
Light paper	60–90 g/m ² (16–24 lb)	✓	✓	✓	✓
Heavy paper	60–90 g/m ² (16–24 lb)	✓	✓	✓	✓
* The finisher stacks the paper but does not staple or punch holes in it.					

Paper type	Paper weight	4-bin mailbox	Offset stacker	Staple finisher	Staple, hole punch finisher
Rough/cotton	60–90 g/m ² (16–24 lb)	✓	✓	✓	✓
Custom type [x]	60–90 g/m ² (16–24 lb)	✓	✓	✓	✓
* The finisher stacks the paper but does not staple or punch holes in it.					

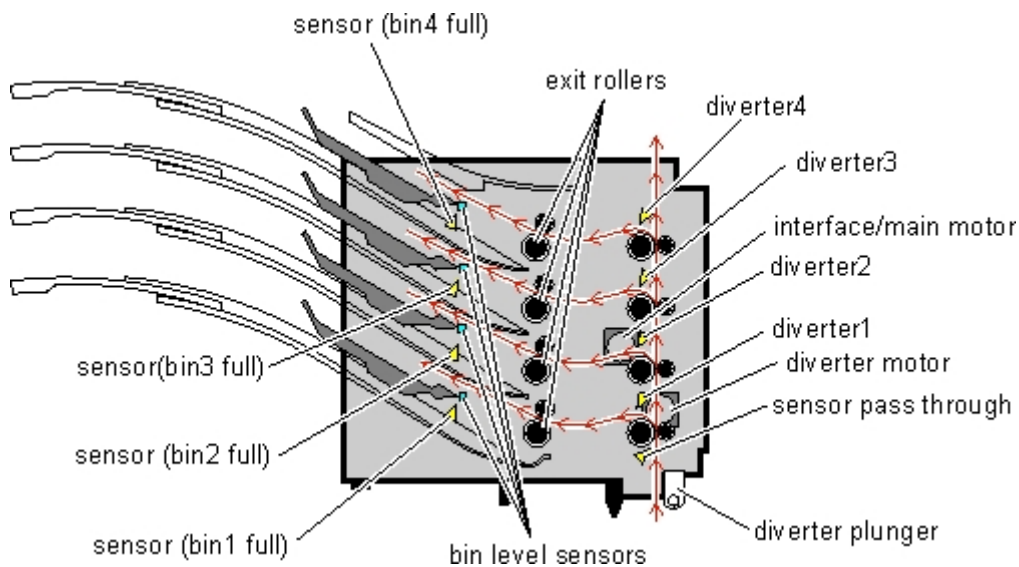
Output options theory

- “Mailbox theory” on page 767
- “Staple finisher theory” on page 768

Mailbox theory

The mailbox is capable of delivering printed media into multiple separate output destinations. This allows multiple users to automatically segregate the printed output. All of the user's printed outputs can be exited into the specific output bin assigned to him. The mechanism is controlled by a set of sensors that detect the media and drive motors that move the media along its paper path.

Mailbox paper path



When the mailbox is installed on top of the printer, the diverter plunger changes the position of the diverter below it. Since the diverter position of the printer below is opened, the printed paper will be re-routed. Instead of exiting the standard output bin, the media enters the mailbox. The movement of the diverter plunger can be controlled by its diverter motor, depending on the printer's commands.

Note: The diverter motor controls the diverter below it. Another way of saying it is that the diverter is controlled by the diverter motor of the output option above it.

The main motor drives the transport rollers which move the media along the paper path. The sensor (pass through) detects if the media has entered the mailbox. Four diverters control which way the media will go. If a diverter is opened, then media will pass through it and go to the next diverter above it. The media finally exits when it encounters a closed diverter.

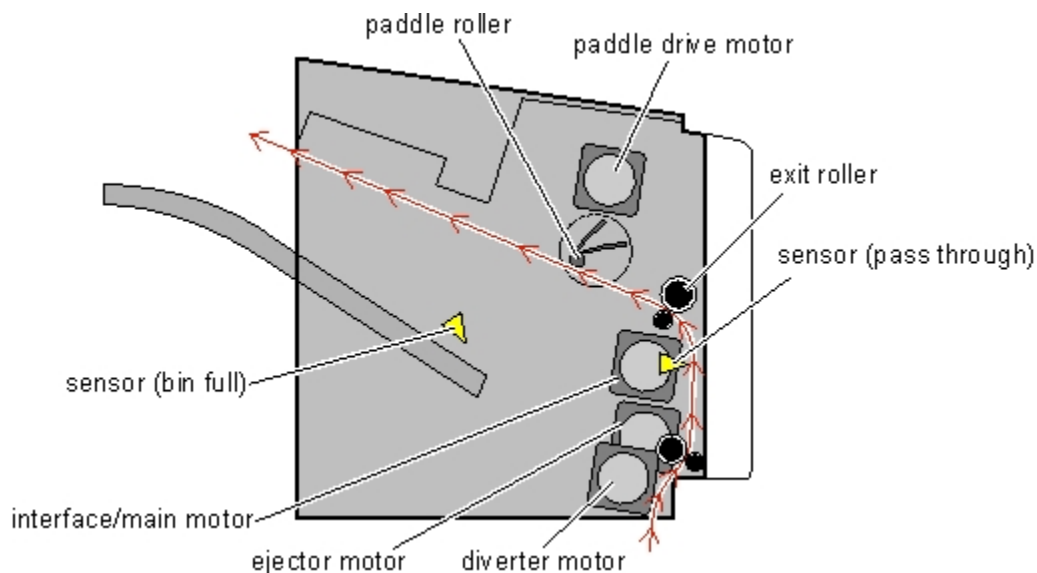
Upon exit, the media is fed out by the exit rollers towards the assigned output bin. The sensor (bin full) verifies if the media has exited. The media level on the output bin is detected by the actuator flag. When the output bin is full, the actuator flag triggers the sensor (bin full). A signal will be sent to the printer:

- to prompt the user to clear the output bin
- to change the direction of the paper path, re-routing it to another available output bin.

Staple finisher theory

The staple finisher is capable of compiling multiple pages and stapling them into one document. Motors drive the stapling process and sensors detect the media's position and location.

Staple finisher paper path



When the finisher is installed on top of the printer, the diverter plunger changes the position of the diverter below it. Since the diverter position of the printer below is opened, the printed paper will be re-routed. Instead of exiting the standard output bin, the media enters the staple finisher. The movement of the diverter plunger can be controlled by its diverter motor, depending on the printer's commands.

Note: The diverter motor controls the diverter below it. Another way of saying it is that the diverter is controlled by the diverter motor of the output option above it.

The main motor drives the rollers which move the media along the paper path. The sensor (pass through) detects if the media has entered the staple finisher.

Stapling process

Exit rollers move the media to the tamper where it will be prepared for stapling. Multiple pages can be stacked on the tamper before the document is stapled. The paddle drive motor rotates the paddle rollers for aligning the trailing edge of the pages. The paddle rollers align the trailing edges by pushing each page towards a wall. The left and right tampers compress to align the left and right edges of the document to be stapled. The document is then moved towards the stapler cartridge for stapling. A corner of the trailing edge is held by a paper clamping mechanism controlled by a solenoid. The other corner of the trailing edge is positioned on the stapler throat where it is stapled. When the staple job is done, the ejector motor drives the ejector belts which push the stapled document into the top of the output bin. Then the tampers move to release the document into the bin. The sensor (bin full) on the left and right side of the stapler detects if the media stacked on the bin is already full.

Appendix D: Acronyms

Acronyms

ASIC	Application-Specific Integrated Circuit
BLDC	Brushless DC Motor
BOR	Black Only Retract
C	Cyan
CCD	Charge Coupled Device
CCP	Carbonless Copy Paper
CRC	Cyclic Redundancy Check
CSU	Customer Setup
CTLS	Capacitance Toner Level Sensing
DIMM	Dual Inline Memory Module
DRAM	Dynamic Random Access Memory
EDO	Enhanced Data Out
EP	Electrophotographic Process
EPROM	Erasable Programmable Read-Only Memory
ESD	Electrostatic Discharge
FRU	Field Replaceable Unit
GB	Gigabyte
HCF	High-Capacity Feeder
HCIT	High-Capacity Input Tray
HCOF	High-Capacity Output Finisher
HVPS	High Voltage Power Supply
ITU	Image Transfer Unit
K	Black
LCD	Liquid Crystal Display
LDAP	Lightweight Directory Access Protocol
LED	Light-Emitting Diode
LVPS	Low Voltage Power Supply
M	Magenta
MB	Megabyte
MFP	Multi-Function Printer
MPF	Multipurpose Feeder
MROM	Masked Read Only Memory

MS	Microswitch
NVM	Nonvolatile Memory
NVRAM	Nonvolatile Random Access Memory
OEM	Original Equipment Manufacturer
OPT	Optical Sensor
PC	Photoconductor
pel, pixel	Picture element
POR	Power-On Reset
POST	Power-On Self Test
PSD	Position Sensing Device
PWM	Pulse Width Modulation
RIP	Raster Imaging Processor
ROM	Read Only Memory
SDRAM	Synchronous Dual Random Access Memory
SIMM	Single Inline Memory Module
SRAM	Static Random Access Memory
TPS	Toner Patch Sensing
UPR	Used Parts Return
V ac	Volts alternating current
V dc	Volts direct current
VTB	Vacuum Transport Belt
Y	Yellow

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