

[Manuals.plus](#) /

› [AgPubs](#) /

› AgPubs Service Shop Repair Manual for International Farmall Tractor Models 784, 884, 84 Hydro

AgPubs M-53884

AgPubs Service Shop Repair Manual

INTERNATIONAL FARMALL TRACTOR MODELS 784, 884, 84 HYDRO

1. INTRODUCTION

This manual is designed to provide comprehensive service, repair, overhaul, and troubleshooting information for International Farmall Tractor models 784, 884, and 84 Hydro. It is an essential resource for maintaining and repairing your equipment, offering detailed procedures and diagrams to guide you through various tasks.

Understanding the different types of manuals available is crucial for effective equipment maintenance:

- **Service Manual:** Focuses on repair, overhaul, and troubleshooting procedures. This document is a Service Manual.
- **Operators Manual:** Covers basic maintenance, operational instructions, fluid types, quantities, and adjustments.
- **Parts Catalog:** Provides exploded views, part names, and factory (OEM) part numbers for component identification.

Utilizing this factory-authored manual can help save time and reduce frustration by providing accurate, detailed information for your repair needs.

2. MANUAL SCOPE AND SECTIONS

This service manual covers a wide range of systems and components within the International Farmall Tractor models 784, 884, and 84 Hydro. Key sections include:

1. ROPS – Loader – Tractor Splits
2. Front End, Axle, and Wheels
3. Steering
4. Engine
5. Fuel System
6. Electrical System
7. Cooling System
8. Clutch and Flywheel
9. Transmission
10. Differential

11. Rear Axle, Housing, and Wheels
12. Brakes
13. Independent Power Take-Off
14. Hydraulic System

Each section provides detailed instructions and diagrams to facilitate proper service and repair.

Section	
1	ROPS – LOADER – TRACTOR SPLITS
2	FRONT END, AXLE, AND WHEELS
3	STEERING
4	ENGINE
5	FUEL SYSTEM
6	ELECTRICAL SYSTEM
7	COOLING SYSTEM
8	CLUTCH AND FLYWHEEL
9	TRANSMISSION
10	DIFFERENTIAL
11	REAR AXLE, HOUSING, AND WHEELS
12	BRAKES
13	INDEPENDENT POWER TAKE-OFF
14	HYDRAULIC SYSTEM

Image: A close-up of a manual page showing a list of sections, including ROPS – Loader – Tractor Splits, Front End, Axle, and Wheels, Steering, Engine, Fuel System, Electrical System, Cooling System, Clutch and Flywheel, Transmission, Differential, Rear Axle, Housing, and Wheels, Brakes, Independent Power Take-Off, and Hydraulic System.

3. REPAIR PROCEDURES

3.1. Loader Removal and Front Section Split

This section details the procedure for removing the loader and splitting the front section of the tractor. Proper execution of these steps is crucial for accessing internal components for service.

- **Loader Removal:** If the tractor is equipped with a protective frame, it must be removed first. Disconnect pressure and return lines at the bottom of the loader control valve. Support the loader using a hoist and two FES 138-1 slings. Remove the front and rear mounting bolts and remove the loader.
- **Front Section Split:** For 74 and 84 Series tractors equipped with a loader and/or ROPS, remove them first. Shut off the fuel supply at the fuel tank. Remove the muffler and disconnect at the exhaust manifold. Disconnect and remove the battery. Disconnect the tachometer cable from the tachometer and move it forward. For diesel models, disconnect the fuel inlet line at the fuel filter. For gas models, disconnect the fuel line at the fuel pump on the left side of the engine.

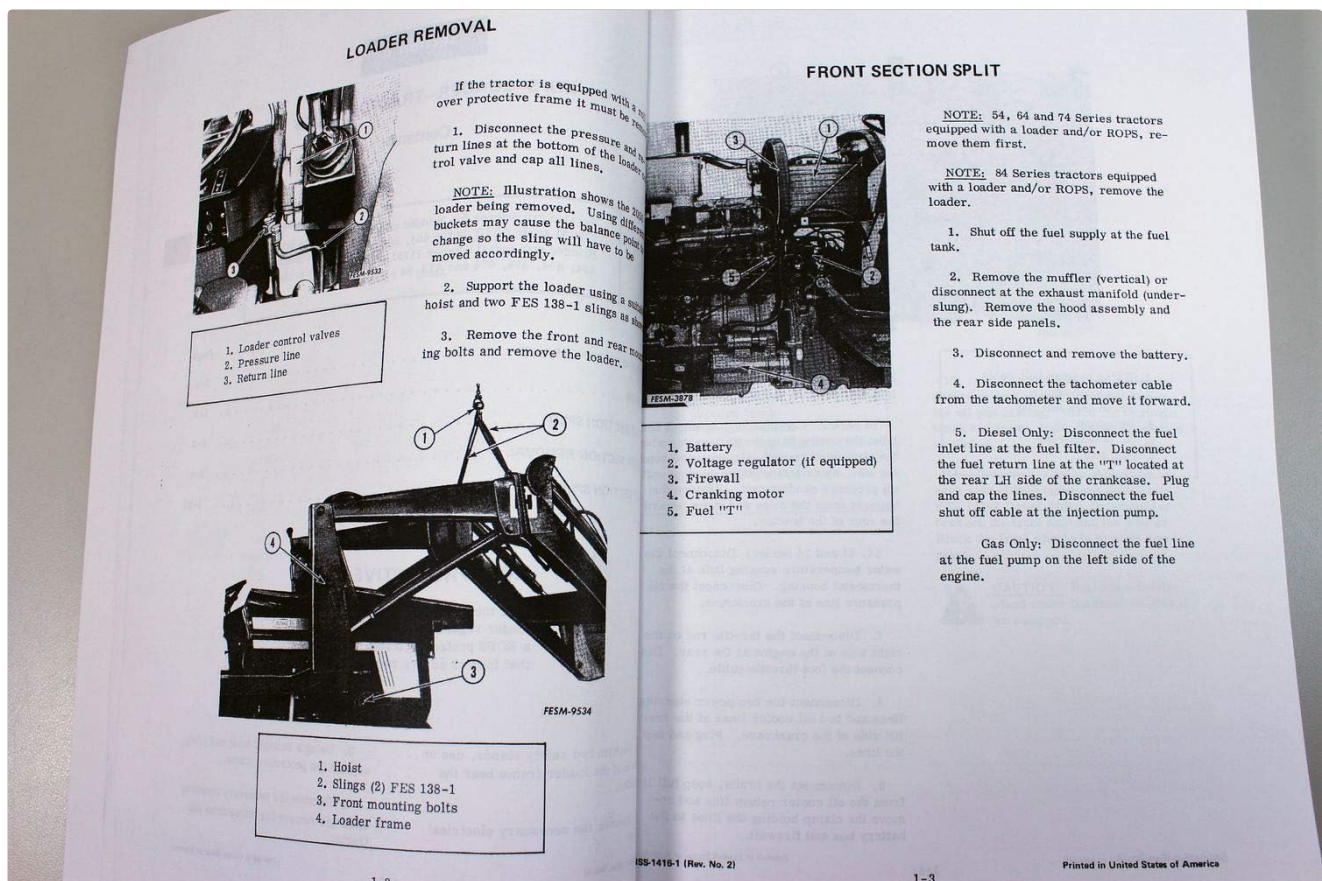


Image: A manual page illustrating the steps for loader removal and front section split. Diagrams show the loader components and the tractor's front section with numbered parts indicating control valves, pressure lines, return lines, hoist, slings, and mounting bolts. Text provides detailed instructions for both procedures.

3.2. Rear Section Split

This procedure outlines how to split the rear section of the tractor, often necessary for transmission or rear axle service.

- Position a hydraulic jack on the splitting frame to support the rear of the center section. Place a second hydraulic jack on the floor between the beams of the splitting frame to support the front of the rear frame.
- Remove all capscrews securing the center section to the rear section and roll the center section away from the rear section.
- Shut off fuel at the fuel tank and close over valves. Remove the lower cross over tube, overflow tube, and disconnect necessary fuel lines.
- Remove the left and right covers and housing cover.
- Disconnect necessary wiring harnesses from both fenders.
- Remove the parking brake assembly from the left fender.
- Remove the fender mounting bolts from each of the axle assemblies and the seat support mounting bolts.
- Remove the fenders and seat support as an assembly using a FES 138-1 sling and a suitable hoist.

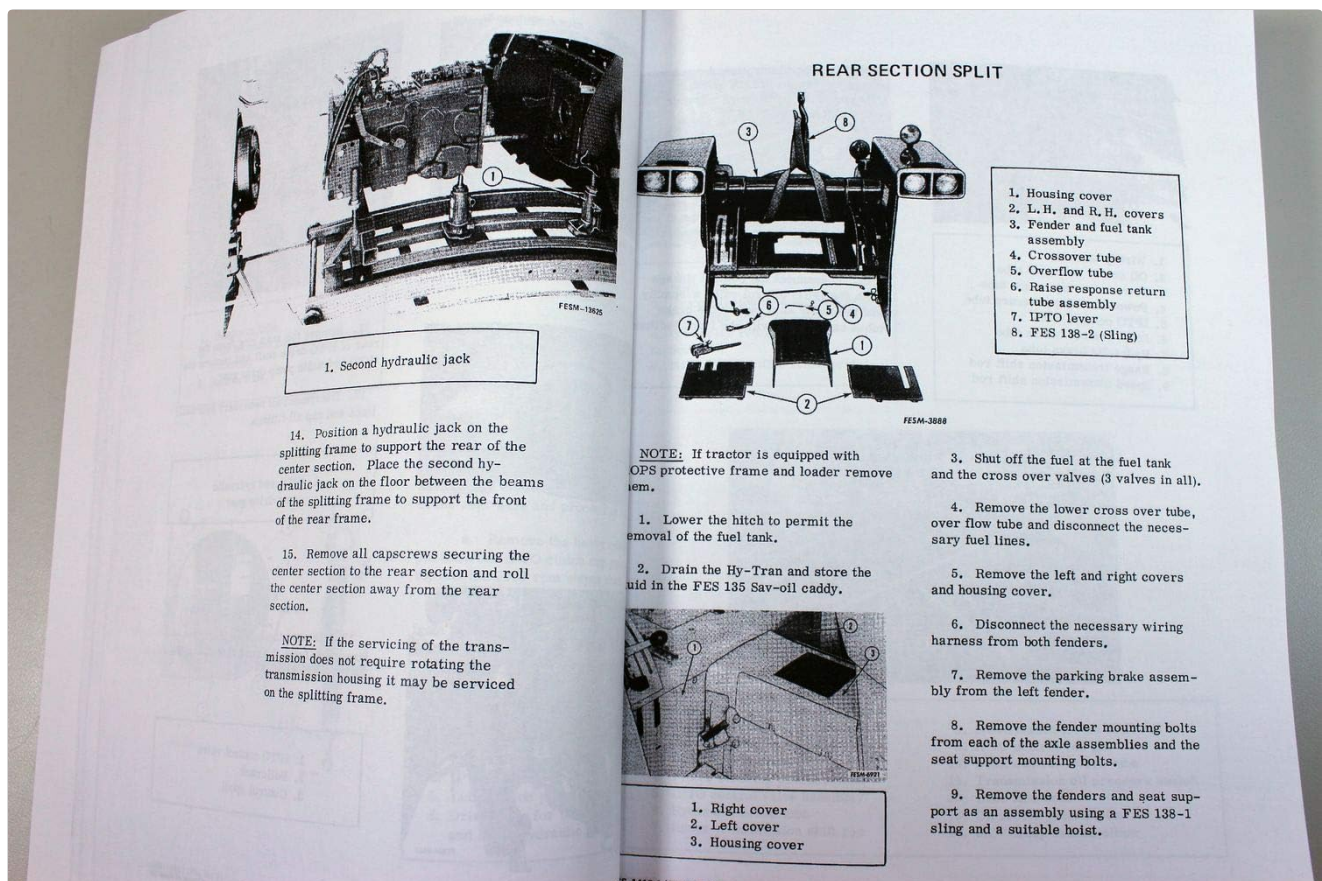


Image: A manual page detailing the rear section split procedure. Diagrams show the tractor's rear section with numbered components such as housing cover, fender, fuel tank assembly, crossover tube, overflow tube, raise response return tube assembly, PTO lever, and FES 138-1 sling. Text provides step-by-step instructions for disassembly.

3.3. Front Axle Removal

Instructions for safely removing the front axle assembly for service or replacement.

- Install the adapter plate 142-1 on each side of the clutch.
- Install the safety stand adapter 143-3 to the safety stand.
- Position a suitable hydraulic jack under the cylinder pivot assembly and raise the front end of the ground. Then adjust each safety stand accordingly.
- Remove the front wheels.
- Remove the axle extensions from the axle.
- Remove the steering lines.
- Remove the front axle pivot cover from the bolster.
- Remove the capscrews from the axle pivot shaft.
- With the floor jack positioned under the cylinder pivot bracket, remove the axle pivot shaft using a suitable slide hammer. Then lower the axle onto the bolster.

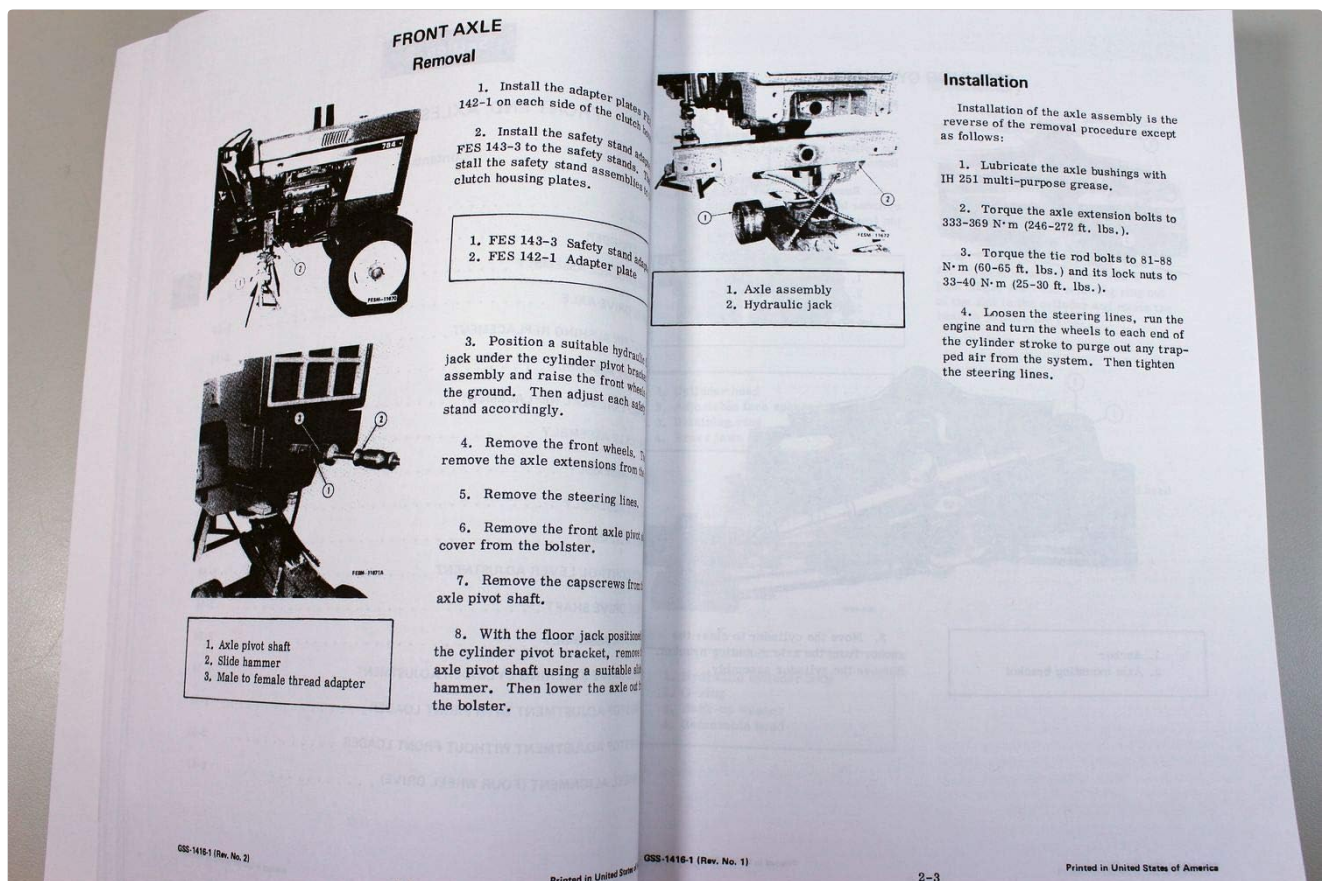


Image: A manual page illustrating the front axle removal process. Diagrams show the front axle assembly, hydraulic jack, axle pivot shaft, and slide hammer. Text provides detailed instructions for removal and installation, including torque specifications for bolts.

3.4. Transmission System

This section provides detailed diagrams and information regarding the tractor's transmission system, including components like synchronizers, range transmission, power take-off, speed transmission, and lubrication points. Understanding these diagrams is essential for proper diagnosis and repair of transmission issues.

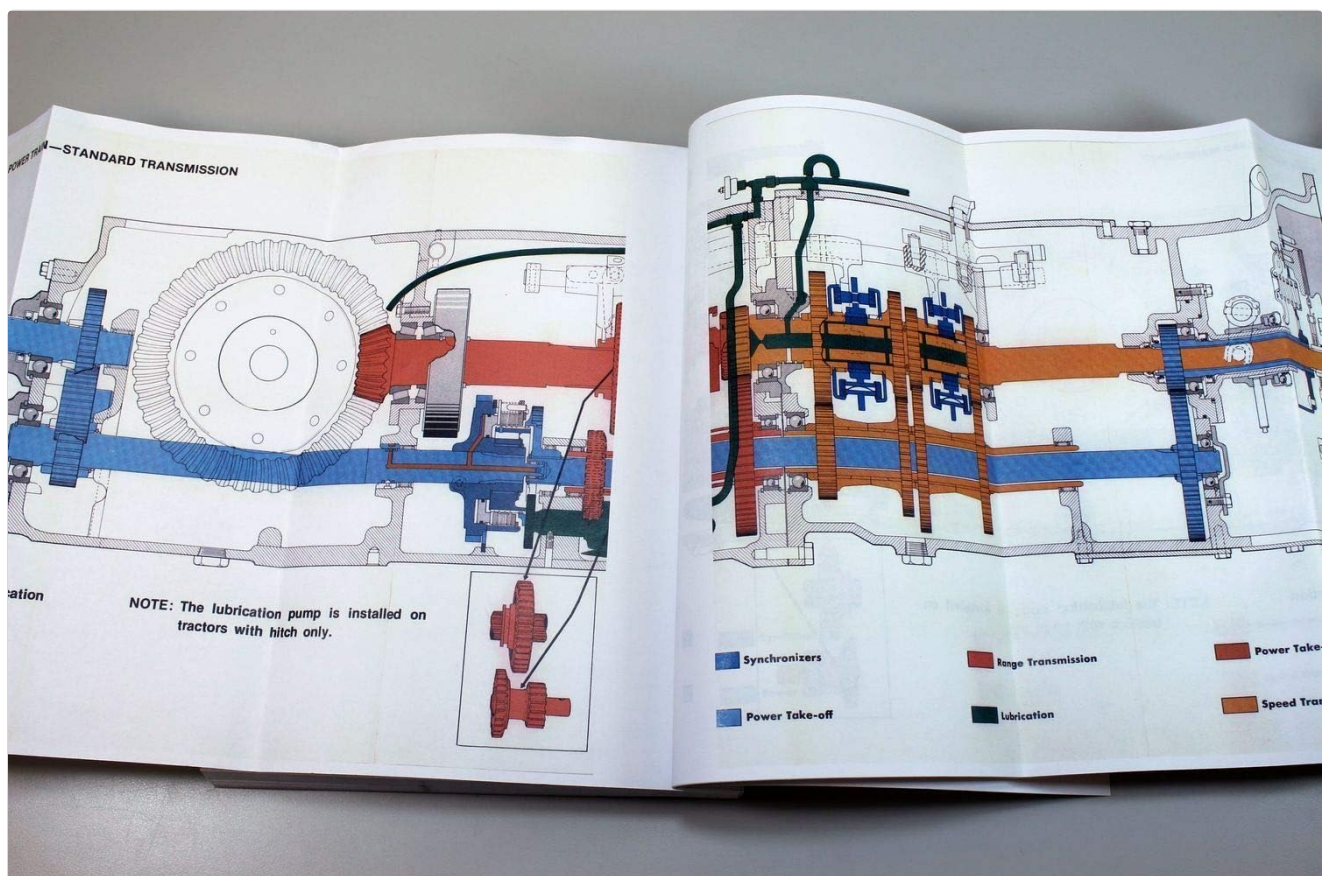


Image: An open manual showing a detailed exploded view diagram of a standard transmission system. Various components are color-coded and labeled, including synchronizers (blue), range transmission (red), power take-off (light blue), speed transmission (orange), and lubrication points (green). A note indicates the lubrication pump is installed on tractors with high only.

4. SPECIFICATIONS AND CONVERSION TABLES

This manual includes important technical specifications and conversion tables to assist with accurate measurements and component identification.

4.1. Unit Conversion Table

A comprehensive conversion table is provided for converting measurements between millimeters and inches. This ensures accuracy when working with specifications that may be presented in different units.

CONVERSION TABLE —inches to millimeters—									
Inches	Millimeters	Inches	Millimeters	Inches	Millimeters	Inches	Millimeters	Inches	Millimeters
1	25.4	26	660.4	51	1295.4	76	1930.4		
2	50.8	27	685.8	52	1320.8	77	1955.4		
3	76.2	28	711.2	53	1346.2	78	1980.4		
4	101.6	29	736.6	54	1371.6	79	1981.2		
5	127.0	30	762.0	55	1397.0	80	2032.0		
6	152.4	31	787.4	56	1422.4	81	2057.4		
7	177.8	32	812.8	57	1447.8	82	2082.4		
8	203.2	33	838.2	58	1473.2	83	2107.4		
9	228.6	34	863.6	59	1498.6	84	2132.4		
10	254.0	35	889.0	60	1524.0	85	2157.4		
11	279.4	36	914.4	61	1549.4	86	2182.4		
12	304.8	37	939.8	62	1574.8	87	2207.4		
13	330.2	38	965.2	63	1600.2	88	2232.4		
14	355.6	39	990.6	64	1625.6	89	2257.4		
15	381.0	40	1016.0	65	1651.0	90	2282.4		
16	406.4	41	1041.4	66	1676.4	91	2307.4		
17	431.8	42	1066.8	67	1701.8	92	2332.4		
18	457.2	43	1092.2	68	1727.2	93	2357.4		
19	482.6	44	1117.6	69	1752.6	94	2382.4		
20	508.0	45	1143.0	70	1778.0	95	2407.4		
21	533.4	46	1168.4	71	1803.4	96	2432.4		
22	558.8	47	1193.8	72	1828.8	97	2457.4		
23	584.2	48	1219.2	73	1854.2	98	2482.4		
24	609.6	49	1244.6	74	1879.6	99	2507.4		
25	635.0	50	1270.0	75	1905.0	100	2532.4		

1 inch = 25.4 millimeters

To convert inches to millimeters, the inch value to be converted should be written down, carried to as many decimal places as the desired accuracy requires. It should then be split into groups of not more than two figures each. The equivalent of each group should then be taken from the table, proper regard being given to the position of the decimal point in each case, and the equivalent of the inch value given.

For example, to convert 2.4635 inches to millimeters:

2.0000 inches = 50.80000 millimeters
.4600 inches = 11.68400
.0035 inches = .08890
2.4635 inches = 62.57290 millimeters
Correct to 3 decimal places.
2.4635 inches = 62.573 millimeters

VIII

CONVERSION TABLE —millimeters to inches—									
Millimeters	Inches	Millimeters	Inches	Millimeters	Inches	Millimeters	Inches	Millimeters	Inches
1	0.03937008	26	1.0236220	51	2.0078740	76	2.9921260		
2	0.07874016	27	1.0629921	52	2.0472441	77	3.0314961		
3	.11811024	28	1.1023622	53	2.0866142	78	3.0708661		
4	.15748031	29	1.1417323	54	2.1259842	79	3.1102362		
5	.19685039	30	1.1811024	55	2.1653543	80	3.1496063		
6	.23622047	31	1.2204724	56	2.2047244	81	3.1889764		
7	.27559055	32	1.2598425	57	2.2440945	82	3.2283465		
8	.31496063	33	1.2992126	58	2.2834646	83	3.2677165		
9	.35433071	34	1.3385827	59	2.3228346	84	3.3070866		
10	.3937008	35	1.3779528	60	2.3622047	85	3.3464567		
11	.4330709	36	1.4173228	61	2.4015748	86	3.3858268		
12	.4724409	37	1.4566929	62	2.4409449	87	3.4251968		
13	.5118110	38	1.4960630	63	2.4803150	88	3.4645669		
14	.5511811	39	1.5354331	64	2.5196850	89	3.5039370		
15	.5905512	40	1.5748031	65	2.5590551	90	3.5433071		
16	.6299213	41	1.6141732	66	2.5984252	91	3.5826772		
17	.6692913	42	1.6535433	67	2.6377953	92	3.6220472		
18	.7086614	43	1.6929134	68	2.6771654	93	3.6614173		
19	.7480315	44	1.7322835	69	2.7165354	94	3.7007874		
20	.7874016	45	1.7716535	70	2.7559055	95	3.7401575		
21	.8267717	46	1.8110236	71	2.7952756	96	3.7795276		
22	.8661417	47	1.8503937	72	2.8346457	97	3.8188976		
23	.9055118	48	1.8897638	73	2.8740157	98	3.8582677		
24	.9448819	49	1.9291339	74	2.9133858	99	3.8976378		
25	.9842520	50	1.9685039	75	2.9527559	100	3.9370080		

1 mm = .03937008 inches

To convert millimeters to inches the millimeter value to be converted should be written down, carried to as many decimal places as the desired accuracy requires. It should then be split up into groups of not more than two figures each. The equivalent of each group should then be taken from the table, proper regard being given to the position of the decimal point in each case, and the equivalent of the several groups found by addition. This sum will be the inch equivalent of the millimeter value given.

For example to convert 75.384 millimeters to inches:

75.000 millimeters = 2.9527559 inches
.380 millimeters = .0149606
.004 millimeters = .0001574
75.384 millimeters = 2.9678739 inches
Correct to 5 decimal places.
75.384 millimeters = 2.96787 inches

IX

Image: A manual page displaying a detailed conversion table from millimeters to inches and vice versa. The table lists values from 1 to 100 for both units, with corresponding converted values. Explanatory text describes how to use the table and provides examples for converting specific values, emphasizing the importance of rounding for practical application.

4.2. Product Specifications

- **Manufacturer:** AgPubs
- **Manufacturer Part Number:** M-53884
- **UPC:** 754472619337
- **ASIN:** B07K2G5NDK

5. WARRANTY AND SUPPORT

This manual is a reproduction of an original factory-authored document, designed for durability and longevity. For specific warranty information regarding the manual itself or for technical support related to the content, please refer to the contact information provided by the manual's publisher, AgPubs, or the vendor from whom it was purchased. Always ensure you are using the correct manual for your specific equipment model to avoid errors during service.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

<https://manuals.plus/asin/B07K2G5NDK>

More documents and user manuals: <https://manuals.plus/>