WORKSHOP SERVICE MANUAL

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1. INTRODUCTION

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1 A01 INTRODUCTION





Introduction

1 A01 Introduction

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Introduction

A. Reading the manual

General

The aim of this manual is to assist Distributors and Dealers in the efficient installation, maintenance and repair of MASSEY FERGUSON machinery. These operations can be carried out within the times specified in the repair times schedule by following the procedures specified and using appropriate specialised tools.

Page numbering

Example: 6 B03.2

This manual is divided into sections and parts. Each page is identified with the following information:

6 = Section B = Part

03 = Sequence number within the part

2 = Page number within the part

The issue number and the date are shown at the bottom of the page.

Using the manual

To make information easier to find, there is an index at the beginning of each section listing the various parts in that section.

At the beginning of each part there is a table of contents which should also be used as a guide to locate information.

Items are indicated by means of identifying symbols (circles, squares, triangles).

(...) : identifies component part only.

Meaning of identifying symbols

Square \square : identifies component part and indicates an adjustment.

Triangle Δ /...\: identifies component part and indicates an important point to be noted during assembly and disassembly.

Amendments

Amended pages are issued with the same page numbers as the previous pages: only the issue number and the date are changed.

The old pages must be destroyed.

Service tools

When a special service tool must be used in an operation, the tool number is specified along with the instruction requiring its use.

Repairs and replacements

When parts have to be replaced, it is essential that only genuine MASSEY FERGUSON parts should be used. Special attention should be paid to the following points concerning repairs and the fitting of replacement parts and accessories.

Safety features embodied in the tractor could be impaired if genuine parts are not fitted.

In certain countries, legislation prohibits the fitting of parts that fail to comply with tractor manufacturer's specifications. The torque wrench setting figures specified in the workshop manual must be strictly complied with. Locking devices must be installed where specified. If the efficiency of a locking device is impaired during removal, a new one must be fitted.

The tractor warranty is invalidated if parts other than genuine MASSEY FERGUSON parts are fitted. All MASSEY FERGUSON replacement parts benefit from the full backing of the manufacturer's warranty. MASSEY FERGUSON Distributors and Dealers are required to supply only genuine parts.

Repair time schedule

The sections on repair times are identical to those in the workshop manual. This repair time schedule is available under publication number 3378047M1.





Introduction

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B. General specifications

Engine

| Characteristic | 8110 | 8120 | 8130 | 8140 | 8150 | 8160 |
|--|---------------|-------------------|---|-------------------|--------------|---|
| MF manufactured by VALMET | - | - | - | 620 DS | 620 DS | 634 DS |
| PERKINS model | 1006.6THR2 | 1006.6THR3 | 1006.6THR4 | - | - | = |
| Number of cylinders | 6 | 6 | 6 | 6 | 6 | 6 |
| Turbocharger | yes | yes | yes | yes | yes | yes |
| Bore (mm) | 100 | 100 | 100 | 108 | 108 | 108 |
| Stroke (mm) | 127 | 127 | 127 | 120 | 120 | 134 |
| Cubic capacity (cm³) | 6000 | 6000 | 6000 | 6600 | 6600 | 7400 |
| Maximum power DIN (KW) | 99.3 | 106.6 | 114 | 117.7 | 132,4 | 147,1 |
| P.T.O. power (KW) | 88.3 | 97 | 103 | 106.6 | 117,6 | 132.3 |
| At engine speed of rev/min | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |
| Maximum torque (Nm) | 551 | 588 | 625 | 650 | 720 | 810 |
| Engine speed at maximum torque (rev/min) | 1400 | 1400 | 1400 | 1300 | 1400 | 1300 |
| Idling speed (rev/min) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| Torque at rated speed (Nm) | 430 | 462 | 495 | 555 | 555 | 620 |
| Maximum no load speed (rev/min) | 2310 | 2310 | 2310 | 2370 | 2370 | 2370 |
| Permissible front P.T.O. (KW) | | | 100000000000000000000000000000000000000 | 3000.00 | | M 1010 M |
| at 2200 rev/min | 75 | 75 | 75 | | 92,1 | |
| Maximum torque (Nm) | 328 | 328 | 328 | | 400 | |
| Lubrication | Gear type pun | np-strainer on su | iction and exterr | nal canister type | filters | |
| Valves | Overhead, pus | sh-rod operated | | | | |
| Valve clearances (cold) | | | | | | |
| - Inlet (mm-in) | 0,20 / 0,08 | 0,20 / 0,08 | 0,20 / 0,08 | 0,35 / 0,012 | 0,35 / 0,012 | 0,35 / 0,012 |
| - Exhaust (mm-in) | 0,45 / 0,018 | 0,45 / 0,018 | 0,45 / 0,018 | 0,35 / 0,012 | 0,35 / 0,012 | 0,35 / 0,012 |
| Engine oil cooler | yes | yes | yes | yes | yes | yes |

Fuel system and air cleaner

| AC DELCO | Bosch in line | | | | |
|-------------|---------------|--|--|--|--|
| Yes | | | | | |
| 2 | | | | | |
| Stanadyne | Bosch in line | | | | |
| , | Stanadyne | | | | |
| Thermostart | | | | | |
| | Stanadyne | | | | |

-

8100 SERIES TRACTORS



1A01.4

Introduction

Electrical system

Voltage: Batteries:

Safety start:

Bulbs:

headlights:

sidelights : rear/brake lights : direction indicators :

number plate light : work lamps :

instrument panel lighting and warning lights :

roof light:

12 volts negative earth.

2 maintenance free batteries operated by the clutch pedal.

European code 40 / 45 W

5 W

21/5 W 21 W 10 W

55 W - H3

3W - 2 W - 1.2 W

10 W

Cooling

Operation:

centrifigal pump pressurised radiator, regulated by pressure cap. Opening temperature : 83 $^{\circ}$ C (181,4 $^{\circ}$ F)

controlled by thermostat.

Fan:

Belt driven:

Viscostatic model. centrifugal water pump.

Belt deflection: - with belt tension gauge: 355 N

- without gauge : 10 mm (3/8") (on the longest span)

Transmission

Wet clutch 230 mm ø (9.05 in)

6 discs (8110/8120/8130) 7 discs (8140/8150) 8 discs (8160)

Gearbox:

Dynashift Gearbox:

- 32 front speeds- 32 rear speeds

- Four selectable ratios without declutching

- Reverse shuttle (synchronised)

Final reduction units

Reduction units: Reduction ratios: epicyclic, in the rear axle housings.

• 8110/8120/8130/8140 :

ND 5.571:1

• 8110/8120/8130/8140 :

HD 6.214:1

Sealed compartment 8140 - (8130 - option)

• 8150/8160 (8140 - option) composite final drive 7.141:1





Introduction

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Road speeds "DYNASHIFT" at 2200 rev/min Front

| B 14.894 9.25 14.681 9.12 14.852 9.23 14.759 9.17 C 17.580 10.92 17.329 10.77 17.532 10.89 17.421 10.82 D 20.577 12.78 20.282 12.60 20.520 12.75 20.390 12.67 3 A 18.179 11.29 17.919 11.13 18.128 11.26 18.014 11.19 B 21.277 13.22 20.972 13.03 21.218 13.18 21.084 13.10 C 25.115 15.60 24.755 15.38 25.045 15.56 24.087 14.97 D 29.395 18.26 28.975 18.00 29.314 18.21 29.129 18.10 4 A 24.743 15.37 24.389 15.15 24.675 15.33 24.519 15.23 B 28.960 17.99 28.546 17.74 23.880 14.84 28.697 17.83 C 34.184 21.24 33.695 20.94 34.089 21.18 33.874 21.05 | Ratio | | | With 20.8 | 8 - 3 8 tyres | 3 | v | With 20.8 - 42 tyres | | | | |
|---|-------|---|------|-----------|----------------------|--------|-------|----------------------|--------|--------|-------|--|
| RPh MPh RPh MPh RPh MPh RPh MPh RPh MPh MPh | | | 8110 |)/8120 | 8 | 130 | 814 | 0 | 8150/8 | 3160 | | |
| B 2.524 1.57 2.487 1.54 2.971 1.85 2.952 1.84 C 2.979 1.85 2.936 1.82 3.507 2.18 3.485 2.17 D 3.486 2.17 3.437 2.14 4.105 2.55 4.079 2.54 2 A 3.272 2.03 3.225 2.01 3.852 2.39 3.828 2.38 B 3.830 2.38 3.775 2.35 4.509 2.80 4.480 2.79 C 4.521 3.29 5.215 3.24 6.229 3.87 6.190 3.85 3 A 4.675 2.90 4.608 2.86 5.503 3.42 5.469 3.40 B 5.471 3.40 5.393 3.35 6.441 4.00 6.400 3.98 C 6.458 4.02 6.366 3.96 7.603 4.73 7.555 4.70 D 7.559 4.70 7.451 4.63 8.899 5.53 8.843 5.50 | | | | | | | | | | | | |
| C 2.979 1.85 2.936 1.82 3.507 2.18 3.485 2.17 D 3.486 2.17 3.437 2.14 4.105 2.55 4.079 2.54 2 A 3.272 2.03 3.225 2.01 3.852 2.39 3.828 2.38 B 3.830 2.38 3.775 2.35 4.509 2.80 4.480 2.79 C 4.521 2.81 4.466 2.80 5.382 3.35 5.288 3.29 D 5.291 3.29 5.215 3.24 6.229 3.87 6.190 3.85 3 A 4.675 2.90 4.608 2.86 5.503 3.42 5.469 3.40 B 5.471 3.40 5.393 3.35 6.441 4.00 6.400 3.98 C 6.458 4.02 6.366 3.96 7.603 4.73 7.555 4.70 D 7.5 | | 1 | Α | 2.156 | 1.34 | 2.125 | 1.32 | 2.538 | 1.58 | 2.522 | 1.57 | |
| D 3.486 2.17 3.437 2.14 4.105 2.55 4.079 2.54 2 A 3.272 2.03 3.225 2.01 3.852 2.39 3.828 2.38 B 3.830 2.38 3.775 2.35 4.509 2.80 4.480 2.79 C 4.521 2.81 4.466 2.80 5.382 3.35 5.288 3.29 D 5.291 3.29 5.215 3.24 6.229 3.87 6.190 3.85 3 A 4.675 2.90 4.608 2.86 5.503 3.42 5.469 3.40 B 5.471 3.40 5.393 3.35 6.441 4.00 6.400 3.98 C 6.458 4.02 6.366 3.96 7.603 4.73 7.555 4.70 D 7.559 4.70 7.451 4.63 8.899 5.53 8.843 5.50 4 A </th <th></th> | | | | | | | | | | | | |
| 2 A 3.272 2.03 3.225 2.01 3.852 2.39 3.828 2.38 B 3.830 2.38 3.775 2.35 4.509 2.80 4.480 2.79 C 4.521 2.81 4.456 2.80 5.382 3.35 5.288 3.29 D 5.291 3.29 5.215 3.24 6.229 3.87 6.190 3.85 3 A 4.675 2.90 4.608 2.86 5.503 3.42 5.469 3.40 B 5.471 3.40 5.393 3.35 6.441 4.00 6.400 3.98 C 6.458 4.02 6.366 3.96 7.603 4.73 7.555 4.70 D 7.559 4.70 7.451 4.63 8.899 5.53 8.843 5.50 4 A 6.363 3.95 6.272 4.00 7.491 4.66 7.443 4.63 B </th <th></th> <th></th> <th></th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | | | | | | |
| B 3.830 2.38 3.775 2.35 4.509 2.80 4.480 2.79 C 4.521 2.81 4.456 2.80 5.382 3.35 5.288 3.29 D 5.291 3.29 5.215 3.24 6.229 3.87 6.190 3.85 3.29 5.215 3.24 6.229 3.87 6.190 3.85 3.40 6.291 3.29 5.215 3.24 6.229 3.87 6.190 3.85 3.40 6.291 3.40 5.393 3.35 6.441 4.00 6.400 3.98 C 6.458 4.02 6.3666 3.96 7.603 4.73 7.555 4.70 7.451 4.63 8.899 5.53 8.843 5.50 4 A 6.363 3.95 6.272 4.00 7.491 4.66 7.443 4.63 8 7.340 4.56 8.767 5.45 8.712 5.42 C 8.790 5.46 8.664 5.40 10.348 6.43 10.283 6.40 D 10.208 6.40 10.141 6.30 12.112 7.5 12.036 7.49 10.208 6.40 10.141 6.30 12.112 7.5 12.036 7.49 10.208 6.40 10.141 6.30 12.112 7.5 12.036 7.49 11.552 7.17 11.479 7.13 D 13.558 8.42 13.364 8.30 13.521 8.40 13.435 8.34 12.610 7.83 8 14.894 9.25 14.681 9.12 14.852 9.23 14.759 9.17 C 17.580 10.92 17.329 10.77 17.532 10.89 17.421 10.82 D 20.577 12.78 20.282 12.60 20.520 12.75 20.390 12.67 D 29.395 18.26 28.975 18.00 29.314 18.21 29.129 18.10 C 25.115 15.60 24.755 15.38 25.045 15.56 24.087 14.89 D 29.395 18.26 28.975 18.00 29.314 18.21 29.129 18.10 C 34.184 21.24 33.695 20.94 34.089 21.18 33.874 21.05 C 34.184 21.24 33.695 20.94 34.089 21.18 33.874 21.05 C 34.184 21.24 33.695 20.94 34.089 21.18 33.874 21.05 C 34.184 21.24 33.695 20.94 34.089 21.18 33.874 21.05 C 34.184 21.24 33.695 20.94 | _ | | D | 3.486 | 2.17 | 3.437 | 2.14 | 4.105 | 2.55 | 4.079 | 2.54 | |
| C 4.521 2.81 4.456 2.80 5.382 3.35 5.288 3.29 D 5.291 3.29 5.215 3.24 6.229 3.87 6.190 3.85 3 A 4.675 2.90 4.608 2.86 5.503 3.42 5.469 3.40 B 5.471 3.40 5.393 3.35 6.441 4.00 6.400 3.98 C 6.458 4.02 6.366 3.96 7.603 4.73 7.555 4.70 D 7.559 4.70 7.451 4.63 8.899 5.53 8.843 5.50 4 A 6.363 3.95 6.272 4.00 7.491 4.66 7.443 4.63 B 7.447 4.63 7.340 4.56 8.767 5.45 8.712 5.42 C 8.790 5.46 8.664 5.40 10.348 6.43 10.283 6.40 D 10.200 6.40 10.141 6.30 12.112 7.5 12.036 7.49 1 A 8.385 5.21 8.265 5.13 8.362 5.19 8.309 5.16 B 9.814 6.09 9.673 5.76 9.787 6.08 9.725 5.76 C 11.584 7.19 11.418 7.09 11.552 7.17 11.479 7.13 D 13.558 8.42 13.364 8.30 13.521 8.40 13.435 8.34 2 A 12.725 7.90 12.543 7.79 12.690 7.88 12.610 7.83 B 14.894 9.25 14.681 9.12 14.852 9.23 14.759 9.17 C 17.580 10.92 17.329 10.77 17.532 10.89 17.421 10.82 D 20.577 12.78 20.282 12.60 20.520 12.75 20.390 12.67 3 A 18.179 11.29 17.919 11.13 18.128 11.26 18.014 11.19 B 21.277 13.22 20.972 13.03 21.218 13.18 21.084 13.10 C 25.115 15.60 24.755 15.38 25.045 15.56 24.087 14.97 D 29.395 18.26 28.975 18.00 29.314 18.21 29.129 18.10 C 34.184 21.24 33.695 20.94 34.089 21.18 33.874 21.05 C 34.184 21.24 33.695 20.94 34.089 21.18 33.874 21.05 | | 2 | | | | | | | | | | |
| D 5.291 3.29 5.215 3.24 6.229 3.87 6.190 3.85 3 A 4.675 2.90 4.608 2.86 5.503 3.42 5.469 3.40 B 5.471 3.40 5.393 3.35 6.441 4.00 6.400 3.98 C 6.458 4.02 6.366 3.96 7.603 4.73 7.555 4.70 D 7.559 4.70 7.451 4.63 8.899 5.53 8.843 5.50 4 A 6.363 3.95 6.272 4.00 7.491 4.66 7.443 4.63 B 7.447 4.63 7.340 4.56 8.767 5.45 8.712 5.42 C 8.790 5.46 8.664 5.40 10.348 6.43 10.283 6.40 D 10.288 6.40 10.141 6.30 12.112 7.5 12.036 7.49 4 A 8.385 | | | | | | | | | | | | |
| 3 A 4.675 2.90 4.608 2.86 5.503 3.42 5.469 3.40 B 5.471 3.40 5.393 3.35 6.441 4.00 6.400 3.98 C 6.458 4.02 6.366 3.96 7.603 4.73 7.555 4.70 D 7.559 4.70 7.451 4.63 8.899 5.53 8.843 5.50 4 A 6.363 3.95 6.272 4.00 7.491 4.66 7.443 4.63 B 7.447 4.63 7.340 4.56 8.767 5.45 8.712 5.42 6.40 10.141 6.30 12.112 7.5 12.036 7.49 L A 8.3885 5.21 8.265 5.13 8.362 5.19 8.309 5.16 B 9.814 6.09 9.673 5.76 9.787 6.08 9.725 5.76 C 11.584 7.19 | | | | | | | | | | | | |
| B 5.471 3.40 5.393 3.35 6.441 4.00 6.400 3.98 C 6.458 4.02 6.366 3.96 7.603 4.73 7.555 4.70 D 7.559 4.70 7.451 4.63 8.899 5.53 8.843 5.50 4 A 6.363 3.95 6.272 4.00 7.491 4.66 7.443 4.63 B 7.447 4.63 7.340 4.56 8.767 5.45 8.712 5.42 C 8.790 5.46 8.664 5.40 10.348 6.43 10.283 6.40 D 10.288 6.40 10.141 6.30 12.112 7.5 12.036 7.49 1 A 8.385 5.21 8.265 5.13 8.362 5.19 8.309 5.16 B 9.814 6.09 9.673 5.76 9.787 6.08 9.725 5.76 C 11.584 7.19 11.418 7.09 11.552 7.17 11.479 7.13 D 13.558 8.42 13.364 8.30 13.521 8.40 13.435 8.34 2 A 12.725 7.90 12.543 7.79 12.690 7.88 12.610 7.83 B 14.894 9.25 14.681 9.12 14.852 9.23 14.759 9.17 C 17.580 10.92 17.329 10.77 17.532 10.89 17.421 10.82 D 20.577 12.78 20.282 12.60 20.520 12.75 20.390 12.67 3 A 18.179 11.29 17.919 11.13 18.128 11.26 18.014 11.19 B 21.277 13.22 20.972 13.03 21.218 13.18 21.084 13.10 C 25.115 15.60 24.755 15.38 25.045 15.56 24.087 14.97 D 29.395 18.26 28.975 18.00 29.314 18.21 29.129 18.10 4 A 24.743 15.37 24.389 15.15 24.675 15.33 24.519 15.23 B 28.960 17.99 28.546 17.74 23.880 14.84 28.697 17.83 C 34.184 21.24 33.695 20.94 34.089 21.18 33.874 21.05 C 34.184 21.24 33.695 20.94 34.089 21.18 33.874 21.05 C 34.184 21.24 33.695 20.94 34.089 21.18 33.874 21.05 C 25.115 24.675 20.994 24.089 21.18 33.874 21.05 C 34.184 21.24 33.695 20.94 34.089 21.18 33.874 21.05 C 25.115 24.675 20.994 24.489 21.18 33.874 21.05 C 24.184 21.24 33.695 20.94 24.489 21.18 24.489 21.18 24.489 C 24.184 24.24 24.24 24.24 24.24 | • | | D | 5.291 | 3.29 | 5.215 | 3.24 | 6.229 | 3.87 | 6.190 | 3.85 | |
| C 6.458 4.02 6.366 3.96 7.603 4.73 7.555 4.70 D 7.559 4.70 7.451 4.63 8.899 5.53 8.843 5.50 4 A 6.363 3.95 6.272 4.00 7.491 4.66 7.443 4.63 B 7.447 4.63 7.340 4.56 8.767 5.45 8.712 5.42 C 8.790 5.46 8.664 5.40 10.348 6.43 10.283 6.40 D 10.298 6.40 10.141 6.30 12.112 7.5 12.036 7.49 1 A 8.385 5.21 8.265 5.13 8.362 5.19 8.309 5.16 B 9.814 6.09 9.673 5.76 9.787 6.08 9.725 5.76 C 11.584 7.19 11.418 7.09 11.552 7.17 11.479 7.13 D | | 3 | | | | | | 5.503 | | | | |
| D 7.559 4.70 7.451 4.63 8.899 5.53 8.843 5.50 4 A 6.363 3.95 6.272 4.00 7.491 4.66 7.443 4.63 B 7.447 4.63 7.340 4.56 8.767 5.45 8.712 5.42 C 8.790 5.46 8.664 5.40 10.348 6.43 10.283 6.40 D 10.288 6.40 10.141 6.30 12.112 7.5 12.036 7.49 A 8.385 5.21 8.265 5.13 8.362 5.19 8.309 5.16 B 9.814 6.09 9.673 5.76 9.787 6.08 9.725 5.76 C 11.584 7.19 11.418 7.09 11.552 7.17 11.479 7.13 D 13.558 8.42 13.364 8.30 13.521 8.40 13.435 8.34 2 A 12.725 7.90 12.543 7.79 12.690 7.88 12.610 7. | | | В | | | | | | | | | |
| 4 A 6.363 3.95 6.272 4.00 7.491 4.66 7.443 4.63 B 7.447 4.63 7.340 4.56 8.767 5.45 8.712 5.42 C 8.790 5.46 8.664 5.40 10.348 6.43 10.283 6.40 D 10.288 6.40 10.141 6.30 12.112 7.5 12.036 7.49 1 A 8.385 5.21 8.265 5.13 8.362 5.19 8.309 5.16 B 9.814 6.09 9.673 5.76 9.787 6.08 9.725 5.76 C 11.584 7.19 11.418 7.09 11.552 7.17 11.479 7.13 D 13.558 8.42 13.364 8.30 13.521 8.40 13.435 8.34 2 A 12.725 7.90 12.543 7.79 12.690 7.88 12.610 7.83 B 14.894 9.25 14.681 9.12 14.8852 9.23 14.759 9.17 | | | | 6.458 | | | 3.96 | 7.603 | 4.73 | 7.555 | 4.70 | |
| B 7.447 4.63 7.340 4.56 8.767 5.45 8.712 5.42 C 8.790 5.46 8.664 5.40 10.348 6.43 10.283 6.40 D 10.288 6.40 10.141 6.30 12.112 7.5 12.036 7.49 1 A 8.385 5.21 8.265 5.13 8.362 5.19 8.309 5.16 B 9.814 6.09 9.673 5.76 9.787 6.08 9.725 5.76 C 11.584 7.19 11.418 7.09 11.552 7.17 11.479 7.13 D 13.558 8.42 13.364 8.30 13.521 8.40 13.435 8.34 2 A 12.725 7.90 12.543 7.79 12.690 7.88 12.610 7.83 B 14.894 9.25 14.681 9.12 14.852 9.23 14.759 9.17 C 17.580 10.92 17.329 10.77 17.532 10.89 17.421 10.82 D 20.577 12.78 20.282 12.60 20.520 12.75 20.390 12.67 3 A 18.179 11.29 17.919 11.13 18.128 11.26 18.014 11.19 B 21.277 13.22 20.972 13.03 21.218 13.18 21.084 13.10 C 25.115 15.60 24.755 15.38 25.045 15.56 24.087 14.97 D 29.395 18.26 28.975 18.00 29.314 18.21 29.129 18.10 4 A 24.743 15.37 24.389 15.15 24.675 15.33 24.519 15.23 B 28.960 17.99 28.546 17.74 23.880 14.84 28.697 17.83 C 34.184 21.24 33.695 20.94 34.089 21.18 33.874 21.05 | | | D | 7.559 | 4.70 | 7.451 | 4.63 | 8.899 | 5.53 | 8.843 | 5.50 | |
| C 8.790 5.46 8.664 5.40 10.348 6.43 10.283 6.40 D 10.298 6.40 10.141 6.30 12.112 7.5 12.036 7.49 1 A 8.385 5.21 8.265 5.13 8.362 5.19 8.309 5.16 B 9.814 6.09 9.673 5.76 9.787 6.08 9.725 5.76 C 11.584 7.19 11.418 7.09 11.552 7.17 11.479 7.13 D 13.558 8.42 13.364 8.30 13.521 8.40 13.435 8.34 2 A 12.725 7.90 12.543 7.79 12.690 7.88 12.610 7.83 B 14.894 9.25 14.681 9.12 14.852 9.23 14.759 9.17 C 17.580 10.92 17.329 10.77 17.532 10.89 17.421 10.82 D 20.577 12.78 20.282 12.60 20.520 12.75 20.390 12.67 D 20.577 12.78 20.282 12.60 20.520 12.75 20.390 12.67 D 29.395 18.26 24.755 15.38 25.045 15.56 24.087 14.97 D 29.395 18.26 28.975 18.00 29.314 18.21 29.129 18.10 4 A 24.743 15.37 24.389 15.15 24.675 15.33 24.519 15.23 B 28.960 17.99 28.546 17.74 23.880 14.84 28.697 17.83 C 34.184 21.24 33.695 20.94 34.089 21.18 33.874 21.05 | _ | 4 | Α | 6.363 | | | 4.00 | 7.491 | 4.66 | | 4.63 | |
| D 10.288 6.40 10.141 6.30 12.112 7.5 12.036 7.49 1 A 8.385 5.21 8.265 5.13 8.362 5.19 8.309 5.16 B 9.814 6.09 9.673 5.76 9.787 6.08 9.725 5.76 C 11.584 7.19 11.418 7.09 11.552 7.17 11.479 7.13 D 13.558 8.42 13.364 8.30 13.521 8.40 13.435 8.34 2 A 12.725 7.90 12.543 7.79 12.690 7.88 12.610 7.83 B 14.894 9.25 14.681 9.12 14.852 9.23 14.759 9.17 C 17.580 10.92 17.329 10.77 17.532 10.89 17.421 10.82 D 20.577 12.78 20.282 12.60 20.520 12.75 20.390 12.67 3 A | | | | | | 7.340 | 4.56 | 8.767 | 5.45 | 8.712 | 5.42 | |
| 1 A 8.385 5.21 8.265 5.13 8.362 5.19 8.309 5.16 B 9.814 6.09 9.673 5.76 9.787 6.08 9.725 5.76 C 11.584 7.19 11.418 7.09 11.552 7.17 11.479 7.13 D 13.558 8.42 13.364 8.30 13.521 8.40 13.435 8.34 2 A 12.725 7.90 12.543 7.79 12.690 7.88 12.610 7.83 B 14.894 9.25 14.681 9.12 14.852 9.23 14.759 9.17 C 17.580 10.92 17.329 10.77 17.532 10.89 17.421 10.82 D 20.577 12.78 20.282 12.60 20.520 12.75 20.390 12.67 3 A 18.179 11.29 17.919 11.13 18.128 11.26 18.014 11.19 B 21.277 13.22 20.972 13.03 21.218 13.18 21.084 | | | | | | 8.664 | | | | | | |
| B 9.814 6.09 9.673 5.76 9.787 6.08 9.725 5.76 C 11.584 7.19 11.418 7.09 11.552 7.17 11.479 7.13 D 13.558 8.42 13.364 8.30 13.521 8.40 13.435 8.34 2 A 12.725 7.90 12.543 7.79 12.690 7.88 12.610 7.83 B 14.894 9.25 14.681 9.12 14.852 9.23 14.759 9.17 C 17.580 10.92 17.329 10.77 17.532 10.89 17.421 10.82 D 20.577 12.78 20.282 12.60 20.520 12.75 20.390 12.67 3 A 18.179 11.29 17.919 11.13 18.128 11.26 18.014 11.19 B 21.277 13.22 20.972 13.03 21.218 13.18 21.084 13.10 C 25.115 15.60 24.755 15.38 25.045 15.56 24.087 14.97 D 29.395 18.26 28.975 18.00 29.314 18.21 29.129 18.10 4 A 24.743 15.37 24.389 15.15 24.675 15.33 24.519 15.23 B 28.960 17.99 28.546 17.74 23.880 14.84 28.697 17.83 C 34.184 21.24 33.695 20.94 34.089 21.18 33.874 21.05 | | | D | 10.288 | 6.40 | 10.141 | 6.30 | 12.112 | 7.5 | 12.036 | 7.49 | |
| C 11.584 7.19 11.418 7.09 11.552 7.17 11.479 7.13 D 13.558 8.42 13.364 8.30 13.521 8.40 13.435 8.34 2 A 12.725 7.90 12.543 7.79 12.690 7.88 12.610 7.83 B 14.894 9.25 14.681 9.12 14.852 9.23 14.759 9.17 C 17.580 10.92 17.329 10.77 17.532 10.89 17.421 10.82 D 20.577 12.78 20.282 12.60 20.520 12.75 20.390 12.67 3 A 18.179 11.29 17.919 11.13 18.128 11.26 18.014 11.19 B 21.277 13.22 20.972 13.03 21.218 13.18 21.084 13.10 C 25.115 15.60 24.755 15.38 25.045 15.56 24.087 14.97 D 29.395 18.26 28.975 18.00 29.314 18.21 29.129 18.10 4 A 24.743 15.37 24.389 15.15 24.675 15.33 24.519 15.23 B 28.960 17.99 28.546 17.74 23.880 14.84 28.697 17.83 C 34.184 21.24 33.695 20.94 34.089 21.18 33.874 21.05 | | 1 | | | | | | | | | | |
| D 13.558 8.42 13.364 8.30 13.521 8.40 13.435 8.34 2 A 12.725 7.90 12.543 7.79 12.690 7.88 12.610 7.83 B 14.894 9.25 14.681 9.12 14.852 9.23 14.759 9.17 C 17.580 10.92 17.329 10.77 17.532 10.89 17.421 10.82 D 20.577 12.78 20.282 12.60 20.520 12.75 20.390 12.67 3 A 18.179 11.29 17.919 11.13 18.128 11.26 18.014 11.19 B 21.277 13.22 20.972 13.03 21.218 13.18 21.084 13.10 C 25.115 15.60 24.755 15.38 25.045 15.56 24.087 14.97 D 29.395 18.26 28.975 18.00 29.314 18.21 29.129 18.10 4 A 24.743 15.37 24.389 15.15 24.675 15.33 24.519 15.23 B 28.960 17.99 28.546 17.74 23.880 14.84 28.697 17.83 C 34.184 21.24 33.695 20.94 34.089 21.18 33.874 21.05 | | | | | | | | | | | | |
| 2 A 12.725 7.90 12.543 7.79 12.690 7.88 12.610 7.83 B 14.894 9.25 14.681 9.12 14.852 9.23 14.759 9.17 C 17.580 10.92 17.329 10.77 17.532 10.89 17.421 10.82 D 20.577 12.78 20.282 12.60 20.520 12.75 20.390 12.67 3 A 18.179 11.29 17.919 11.13 18.128 11.26 18.014 11.19 B 21.277 13.22 20.972 13.03 21.218 13.18 21.084 13.10 C 25.115 15.60 24.755 15.38 25.045 15.56 24.087 14.97 D 29.395 18.26 28.975 18.00 29.314 18.21 29.129 18.10 4 A 24.743 15.37 24.389 15.15 24.675 15.33 24.519 15.23 B 28.960 17.99 28.546 17.74 23.880 14.84 | | | | | | | | | | | | |
| B 14.894 9.25 14.681 9.12 14.852 9.23 14.759 9.17 C 17.580 10.92 17.329 10.77 17.532 10.89 17.421 10.82 D 20.577 12.78 20.282 12.60 20.520 12.75 20.390 12.67 3 A 18.179 11.29 17.919 11.13 18.128 11.26 18.014 11.19 B 21.277 13.22 20.972 13.03 21.218 13.18 21.084 13.10 C 25.115 15.60 24.755 15.38 25.045 15.56 24.087 14.97 D 29.395 18.26 28.975 18.00 29.314 18.21 29.129 18.10 4 A 24.743 15.37 24.389 15.15 24.675 15.33 24.519 15.23 B 28.960 17.99 28.546 17.74 23.880 14.84 28.697 17.83 C 34.184 21.24 33.695 20.94 34.089 21.18 33.874 21.05 | | | D | 13.558 | 8.42 | 13.364 | 8.30 | 13.521 | 8.40 | 13.435 | 8.34 | |
| C 17.580 10.92 17.329 10.77 17.532 10.89 17.421 10.82 D 20.577 12.78 20.282 12.60 20.520 12.75 20.390 12.67 3 A 18.179 11.29 17.919 11.13 18.128 11.26 18.014 11.19 B 21.277 13.22 20.972 13.03 21.218 13.18 21.084 13.10 C 25.115 15.60 24.755 15.38 25.045 15.56 24.087 14.97 D 29.395 18.26 28.975 18.00 29.314 18.21 29.129 18.10 4 A 24.743 15.37 24.389 15.15 24.675 15.33 24.519 15.23 B 28.960 17.99 28.546 17.74 23.880 14.84 28.697 17.83 C 34.184 21.24 33.695 20.94 34.089 21.18 33.874 21.05 | _ | 2 | Α | | | | | 12.690 | | 12.610 | 7.83 | |
| D 20.577 12.78 20.282 12.60 20.520 12.75 20.390 12.67 3 A 18.179 11.29 17.919 11.13 18.128 11.26 18.014 11.19 B 21.277 13.22 20.972 13.03 21.218 13.18 21.084 13.10 C 25.115 15.60 24.755 15.38 25.045 15.56 24.087 14.97 D 29.395 18.26 28.975 18.00 29.314 18.21 29.129 18.10 4 A 24.743 15.37 24.389 15.15 24.675 15.33 24.519 15.23 B 28.960 17.99 28.546 17.74 23.880 14.84 28.697 17.83 C 34.184 21.24 33.695 20.94 34.089 21.18 33.874 21.05 | | | | 14.894 | | 14.681 | | 14.852 | 9.23 | 14.759 | 9.17 | |
| 3 A 18.179 11.29 17.919 11.13 18.128 11.26 18.014 11.19 B 21.277 13.22 20.972 13.03 21.218 13.18 21.084 13.10 C 25.115 15.60 24.755 15.38 25.045 15.56 24.087 14.97 D 29.395 18.26 28.975 18.00 29.314 18.21 29.129 18.10 4 A 24.743 15.37 24.389 15.15 24.675 15.33 24.519 15.23 B 28.960 17.99 28.546 17.74 23.880 14.84 28.697 17.83 C 34.184 21.24 33.695 20.94 34.089 21.18 33.874 21.05 | L. | | | | | | | 17.532 | 10.89 | | 10.82 | |
| B 21.277 13.22 20.972 13.03 21.218 13.18 21.084 13.10 C 25.115 15.60 24.755 15.38 25.045 15.56 24.087 14.97 D 29.395 18.26 28.975 18.00 29.314 18.21 29.129 18.10 4 A 24.743 15.37 24.389 15.15 24.675 15.33 24.519 15.23 B 28.960 17.99 28.546 17.74 23.880 14.84 28.697 17.83 C 34.184 21.24 33.695 20.94 34.089 21.18 33.874 21.05 | 7 | | D | 20.577 | 12.78 | 20.282 | 12.60 | 20.520 | 12.75 | 20.390 | 12.67 | |
| C 25.115 15.60 24.755 15.38 25.045 15.56 24.087 14.97 D 29.395 18.26 28.975 18.00 29.314 18.21 29.129 18.10 4 A 24.743 15.37 24.389 15.15 24.675 15.33 24.519 15.23 B 28.960 17.99 28.546 17.74 23.880 14.84 28.697 17.83 C 34.184 21.24 33.695 20.94 34.089 21.18 33.874 21.05 | | 3 | | | | | | | | | 11.19 | |
| D 29.395 18.26 28.975 18.00 29.314 18.21 29.129 18.10 4 A 24.743 15.37 24.389 15.15 24.675 15.33 24.519 15.23 B 28.960 17.99 28.546 17.74 23.880 14.84 28.697 17.83 C 34.184 21.24 33.695 20.94 34.089 21.18 33.874 21.05 | | | | | | | | 21.218 | | | | |
| 4 A 24.743 15.37 24.389 15.15 24.675 15.33 24.519 15.23 B 28.960 17.99 28.546 17.74 23.880 14.84 28.697 17.83 C 34.184 21.24 33.695 20.94 34.089 21.18 33.874 21.05 | | | | | | | | | | | | |
| B 28.960 17.99 28.546 17.74 23.880 14.84 28.697 17.83 C 34.184 21.24 33.695 20.94 34.089 21.18 33.874 21.05 | _ | | D | 29.395 | 18.26 | 28.975 | 18.00 | 29.314 | 18.21 | 29.129 | 18.10 | |
| C 34.184 21.24 33.695 20.94 34.089 21.18 33.874 21.05 | | 4 | Α | | | 24.389 | 15.15 | 24.675 | 15.33 | 24.519 | 15.23 | |
| | | | | | | 28.546 | | 23.880 | 14.84 | | 17.83 | |
| | | | | 34.184 | 21.24 | 33.695 | 20.94 | 34.089 | 21.18 | 33.874 | 21.05 | |
| D 40.010 24.86 39.438 24.51 39.900 24.79 39.648 26.64 | | | D | 40.010 | 24.86 | 39.438 | 24.51 | 39.900 | 24.79 | 39.648 | 26.64 | |





1A01.6

Introduction

Road speeds "DYNASHIFT" at 2200 rev/min Rear

| Ratio | | | With 20.8 | 3 - 38 tyres | | With 20.8 - 42 tyres | | | | |
|-------|---------|-------|----------------|--------------|--------|----------------------|-----------|-------|--------|-------|
| | | 8110/ | 8110/8120 8130 | | 81 | 40 | 8150/8160 | | | |
| | | | KPh | MPh | KPh | MPh | KPh | MPh | KPh | MPh |
| | 1 | Α | 1.985 | 1.23 | 1.957 | 1,22 | 2.487 | 1.55 | 2.322 | 1.44 |
| | | В | 2.323 | 1.44 | 2.290 | 1,42 | 2.910 | 1.81 | 2.718 | 1.60 |
| | | С | 2.742 | 1.71 | 2.703 | 1,68 | 3.435 | 2.14 | 3.208 | 1.20 |
| | | D | 3.210 | 2.00 | 3.164 | 1,97 | 4.021 | 2.50 | 3.755 | 2.34 |
| | 2 | Α | 3.012 | 1.87 | 2.969 | 1,85 | 3.774 | 2.35 | 3.524 | 2.19 |
| | | В | 3.526 | 2.19 | 3.475 | 2,16 | 4.417 | 2.75 | 4.125 | 2.57 |
| | | С | 4.162 | 2.59 | 4.102 | 2,55 | 5.213 | 3.24 | 4.869 | 3.03 |
| - | • | D | 4.871 | 3.03 | 4.802 | 2,99 | 6.102 | 3.80 | 5.699 | 3.54 |
| 7 | 3 | Α | 4.304 | 2.68 | 4.242 | 2,64 | 5.391 | 3.35 | 5.035 | 3.13 |
| | | В | 5.037 | 3.13 | 4.965 | 3,09 | 6.310 | 3.92 | 5.892 | 3.66 |
| | | С | 5.945 | 3.70 | 5.860 | 3,64 | 7.448 | 4.63 | 6.955 | 4.33 |
| | | D | 6.959 | 4.33 | 6.859 | 4,27 | 8.717 | 5.42 | 8.141 | 5.06 |
| | 4 | Α | 5.858 | 3.64 | 5.774 | 3,59 | 7.338 | 4.56 | 6.853 | 4.26 |
| | | В | 6.856 | 4.26 | 6.758 | 4,20 | 8.588 | 5.34 | 8.020 | 4.99 |
| | | C | 8.092 | 5.03 | 7.977 | 4,96 | 10.137 | 6.30 | 9.467 | 5.88 |
| | | D | 9.472 | 5.89 | 9.336 | 5,81 | 11.865 | 7.38 | 11.081 | 6.89 |
| | 1 | Α | 7.719 | 4.79 | 7.609 | 4.72 | 8.191 | 5.09 | 7.649 | 4.75 |
| | | В | 9.035 | 5.61 | 8.906 | 5.53 | 9.587 | 5.95 | 8.953 | 5.56 |
| | | C | 10.664 | 6.62 | 10.512 | 6.53 | 11.316 | 7.03 | 10.568 | 6.56 |
| | 0. 9787 | D | 12.482 | 7.75 | 12.304 | 7.64 | 13.245 | 8.23 | 12.369 | 7.68 |
| | 2 | Α | 11.715 | 7.28 | 11.548 | 7.17 | 12.431 | 7.72 | 11.609 | 7.21 |
| | | В | 13.712 | 8.52 | 13.516 | 8.40 | 14.549 | 9.04 | 13.587 | 8.44 |
| ٠. | | С | 16.185 | 10.05 | 15.953 | 9.91 | 17.174 | 10.67 | 16.038 | 9.96 |
| | | D | 18.944 | 11.77 | 18.673 | 11.60 | 20.101 | 12.49 | 18.772 | 11.66 |
| 13 | 3 | Α | 16.736 | 10.40 | 16.497 | 10.25 | 17.758 | 11.03 | 16.584 | 10.30 |
| | | В | 19.588 | 12.17 | 19.308 | 12.00 | 20.785 | 12.91 | 19.410 | 12.06 |
| | | С | 23.121 | 14.36 | 22.791 | 14.16 | 24.534 | 15.24 | 22.912 | 14.23 |
| | - | D | 27.062 | 16.81 | 26.675 | 16.57 | 28.715 | 17.84 | 26.817 | 16.66 |
| | 4 | Α | 22.780 | 14.15 | 22.454 | 13.95 | 24.171 | 15.02 | 22.573 | 14.02 |
| | | В | 26.662 | 16.57 | 26.280 | 16.33 | 23.290 | 14.47 | 26.420 | 16.42 |
| | | C | 31.471 | 19.55 | 31.021 | 19.27 | 33.393 | 20.75 | 31.185 | 19.38 |
| | | D | 36.835 | 22.89 | 36.308 | 22.56 | 39.085 | 24.29 | 36.501 | 22.68 |





Introduction

1A01.7

Power take-off

P.T.O. ratio Proportional to the engine speed. Hydraulic clutch.

540 rev/min at 1990 engine rev/min 750 rev/min at 2000 engine rev/min 1000 rev/min at 2090 engine rev/min

Speed changing By changing shaft

- 540 rev/min shaft, 35 mm (1 3/8 in) diameter 6 splines - 1000 rev/min shaft, 35 mm (1 3/8 in) diameter 21 spline

For 8160 : One speed only 1000 rev/min at 2090 engine rev/min

Front power take-off (optional extra)

Control Hydraulic clutch mechanism controlled by a button in the cab.

Ratio 1000 rev/min at 2040 engine rev/min Shaft 35 mm (1 3/8 in) diameter - 21 splines.

our wheel drive front axle

Clutch mechanism Hydraulic, electrically actuated by push button in the cab.

Differential lock Electrically-controlled simultaneous front and rear differential

lock

Hydraulics

According to countries and option, two different hydraulic systems are proposed:

1. Closed centre system with flow and pressure control:

Charge circuit : Max. flow 160 l/mn(35.18 imp.gal - 42.27 US gal) supplies :

- constant boost pressure of 5 bar to the variable displacement pump - lubrication of the gearbox and the PTO clutch - cooling

system- top up of the master cylinders.

High-pressure system: Max. flow 110 l/mn (24.19 imp.gal - 29.05 US gal) at 2200 rev/

min and 180 bar, maxi pressure 200 bar supplies:

- steering - trailer brake - 17-bar valve - spool valves - ELC valve

Filtration: 1 strainer, 150 micron, on suction, located to the left of the

transmission housing.

External main high-pressure filter, 15 micron, to the right of

the housing.

2. Open centre

Two-stage gear pump, driven directly by the engine :

1st stage: This circuit supplies 21 l/mn (4.6 lmp. gal/mn) (5.5 US Gal/mn) at maximum engine speed. Maximum pressure 17 bar.

Hare/Tortoise range gear - Dynashift - Differential lock - P.T.O. -

Front P.T.O. (if fitted) - Four wheel drive (if fitted)

2nd stage: This circuit supplies 54 I/mn (11.2 lmp. gal/mn) (14.2 US gal/mn) at maximum engine speed. Maximum pressure 185 bar.

Hydrostatic steering - Trailer brake system - Auxiliary hydraulic

system - Hydraulic lift.

Filtration External 20 micron throwaway, canister type filter.



1A01.8

Introduction

Hydraulic lift

Type: 3 point, category 2 or 3 with ball, hinged or hook-type ends.

Rams: Twin externally mounted rams

MF 8110/8120/8130/8140/8150 - Rams Ø 80 mm (3.1 in) or 89 mm (3.5 in)

MF 8160 *

| Position of lift rods | | | Ran | Rams diameter 80 mm (3.1 in) | | | | Rams diameter 89 mm (3.5 in) | | | | |
|-----------------------|---------|----------------------|---------------------|------------------------------|------------------------------|------------------------------|----------------------------------|------------------------------|------------------------------|------------------------------|----------------------------------|--|
| on lower l | | Lenght of lif | Lenght of lift rods | | Lower links | | | | Lower links | | | |
| | | | | horiz | ontal | fully raised | | horiz | ontal | fully raised | | |
| mm | in | mm | in | kg | Lb | kg | Lb | kg | Lb | kg | Lb | |
| 530 | (20.86) | 675 * 865 * | (26.57) (34.05) | 5056 - 5203 5183 | 11158 - 11483 11439 | 6485 6917 5612 5904 | 14312 15266 12385 13030 | 6360 - 6545 6520 | 14036 - 14445 14389 | 8157 8701 7060 7426 | 18002 19203 15581 16389 | |
| 581 | (22.87) | 675 * 865 * | (26.57) | - 5621 5577 | - 12921 12308 | 6953 7374 5997 6287 | 15345 16947 13235 13875 | - - 7070 7015 | - - 15603 15482 | 8747 9275 7544 7908 | 18863 20470 16649 17453 | |

Brakes

Type

Oil-immersed single disc per wheel, 343 mm (13.5 in)

diameter.

Operation

Hydraulic from two master cylinders, automatic adjustment

servo assisted factory fitted

Handbrake

Operates on the rear axle pinion

Trailer brake

According to model.

Differential lock - Rear axle

Type

Coupler

Control

Hydraulic with electrical control

Steering

Type: hydrostatic, fixed or tiltable telescopic steering column, one double action central ram.

| Theoritical turning circle * | 8110/81 | 120/8130 | 81 | 40 | 8150/8160 |
|--|--------------|--------------------|--------------------|--------------------|--------------------|
| Tyres - 2 WD - 4 WD | 11.0-16 • | 16.9-28 | 11.0-16 • | 16.9-30 • | 16.9-30 |
| Track adjustment - m (in) Angle available Radius | 55° | 1,97 (77.6) 55° | 1,62 (63.8) 55° | 2,17 (85.4) 51° | 2,17 (85.4) 49° |
| without braking - m (in)with 4WD disengaged | 4,26 (167.7) | 4,95 (195)* | 4,45 (176) | 5,45 (215)* | 5,56 (219)* |





Introduction

1A01.9

Wheels

FRONT

2 wheel drive pressed steel

4 wheel drive pressed steel 6 or 8 clamps

REAR

pressed steel with manual adjustment

adjust variable track (6 or 8 rails) cast with manual adjustment.

Tyres

Compatibility of front/rear tyres of 4 wheel drive tractors same make and model

| Tyres Front | Rear | Front | Rear | Front | Rear |
|--------------------|-------------------------------|---------|--------------------|---------|--------------------|
| 11.2-24 12.4-24 | 16.9-34 18.4-30 | 13.6-28 | 18.4-34 18.4-38 | 16.9-30 | 26.5-34 18.4-42 |
| 13.6-24 | 13.6-38 18.4-30 | 14.9-28 | 18.4-32 24.5-32 | 12.4-32 | 20.8-42 18.4-38 |
| 11.2-28 | 15.5-38 18.4-30 | | 18.4-38 20.8-38 | 18.4-34 | 18.4-42 18.4-30 |
| 12.4-28 | 15.5-38 18.4-30 23.1-30 | 16.9-28 | 20.8-38 18.4-42 | | 15.5-38 |

Note: The data in this table is not binding. Ask your dealer for further information on other possible choices.

Water Ballasting (75° fill)

| Front tyres | Litre | lmp. gal | US gal | Front tyres | Litre | lmp. gal | US gal |
|-------------|-------|----------|--------|-------------|-------|----------|--------|
| 10.0-16 | 50 | 11 | 13 | 18.4-38 | 370 | 81.4 | 96.2 |
| 11.0-16 | 95 | 20.9 | 24.7 | 20.8-38 | 460 | 101.3 | 121.4 |
| 14L-16.1 | 105 | 23.1 | 27.3 | 20.8-42 | 510 | 112.3 | 134.6 |
| 13.6-28 | 160 | 35.2 | 41.6 | | | | |
| 14.9-28 | 190 | 71.8 | 49.4 | | | | |
| 16.9-28 | 250 | 55 | 65 | | | | |
| 16.9-30 | 260 | 57.2 | 68.6 | | | | |

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