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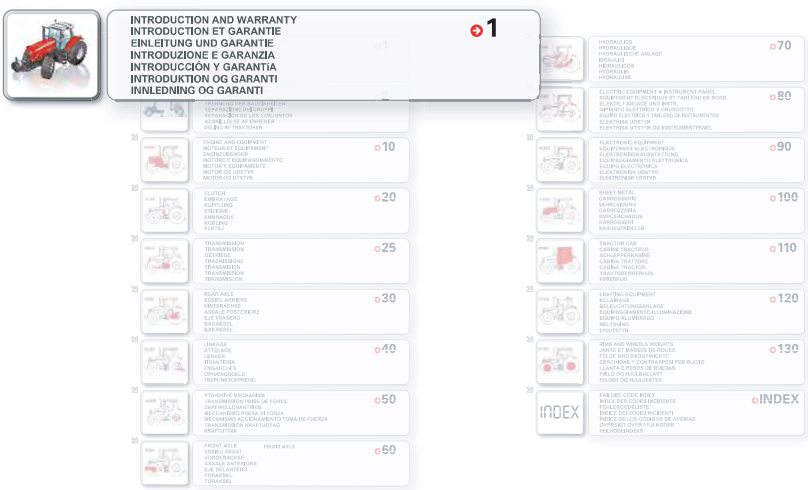

1 - Introduction and warranty

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A . Allocation of time

The times indicated in this document result from a careful study of the operation concerned; they represent the average time taken to carry out the operation by ONE mechanic with standard skills, having undergone the necessary training, using standard workshop tools and equipment located to allow reasonable access and working conditions. They DO NOT INCLUDE travelling time to or from the farm or site.

The times indicated take account of difficulties encountered when working on used rather than new machines, and are based on the special tools and procedures recommended by the manufacturer and specified in the workshop manual. No power tools are used and no shortcuts are taken.

The times are based on a used machine, in a reasonable condition and well maintained using approved parts. Additional time may be required to remove seized, rusted or damaged parts; a separate request must be submitted when work is carried out under warranty.

A factor has been allowed in the operation times cited to prepare the tractor in the workshop, gather all the tools and parts required, and clean and test the machine after repair.

The time needed to remove and reinstall the implements fitted, such as loaders, hedge cutters etc. which hamper the execution of specific tasks IS NOT INCLUDED in the allocated time.

B . Special tools

Consult the workshop manual to determine which operations require the use of special tools.

C . Time

All operation times are given in hours and decimal fractions of an hour. Decimal time must be used for all warranty requests. The table below shows how to convert these times.

Min	0	1	2	3	4	5	6	7	8	9
0	----	0.02	0.03	0.05	0.07	0.08	0.10	0.12	0.13	0.15
10	0.17	0.18	0.20	0.22	0.23	0.25	0.27	0.28	0.30	0.32
20	0.33	0.35	0.37	0.38	0.40	0.42	0.43	0.45	0.47	0.48
30	0.50	0.52	0.53	0.55	0.57	0.58	0.60	0.62	0.63	0.65
40	0.67	0.68	0.70	0.72	0.73	0.75	0.77	0.78	0.80	0.82
50	0.83	0.85	0.87	0.88	0.90	0.92	0.93	0.95	0.97	0.98

The times shown in this repair time schedule are for a complete job, from start to finish. Where access has been cleared for an adjacent repair, only the time necessary for the second repair will be accepted, not the total time for the two separate repairs.

The term "ADD" indicates that the time may be added to the principal repair time, e.g. time for fault finding, pressure testing.

D . Revision of times

For tractors in the 8400 series, if you discover a better method that reduces the time for a particular operation, or if you are unable to complete the operation in the specified time after more than three attempts using the recommended method, you must submit a "Time amendment request" form (see section I) stating all relevant details. Make a photocopy of the form and send it to the following address:

AGCO S.A.
Service Documentation Technique
Avenue Blaise Pascal
BP60307
60026 BEAUVAIS CEDEX
FRANCE

These requests will only be considered if all the required information is supplied on the special form (see section I). All amendments will be communicated by Service Bulletin.

E . Amendments

All the times stated in this schedule are based on the latest technical information available at the time of publication. We reserve the right to publish revisions at any time. All times cited are likely to be corrected where changes in design, procedure or technology result in a modification to the time necessary to effect the work.

F . Warranty requests

The repair time schedule plays a very important role in submitting warranty requests to the manufacturer. It contains all the allocated repair times and all the fault codes required to fill in the warranty request form.

This section is intended to show After Sales Service Managers what the manufacturer requires when submitting requests for work carried out under warranty.

The manufacturer has defined warranty procedures. It is important to understand these procedures by reading the corresponding Warranty Manual and Service Bulletins. These contain all the necessary instructions for submitting warranty requests. However, the following points will help you to complete the request form:

1. Have the Repair Time Schedule to hand when completing your request. USE IT. The manufacturer will reimburse you on the basis of this schedule.
2. Ensure that only competent staff complete your warranty requests. It is a very important and highly technical job.
3. Keep data sheets or files on computer for each tractor, containing all the serial numbers and the date of sale. Use them to fill in the top part of the warranty request form.
4. The submission dates are important. Each request must be received by the manufacturer within 60 days of the date of the fault, otherwise it may be refused.
5. The date of the fault MUST be the date on which the fault occurred and not that of the repair. Give the reason for any delay, e.g. waiting for parts. The fact that the farmer does not wish to hand over the tractor to you IS NOT a good reason, as any delay prior to carrying out repairs could lead to further damage, which would not be admissible under warranty.
6. A copy of the invoice for all repair work carried out externally MUST accompany the warranty request, e.g. grinding a crankshaft. Work such as grinding valves, removing and refitting cylinder liners, may not be carried out externally — the equipment required should be available on your premises.
7. Items such as fuel system components and electrical equipment which are covered by the manufacturer's warranty and are repaired by the manufacturer's agents. When you send these parts out for repair under warranty, make sure you clearly state that this is a repair under "Warranty".

   The manufacturer will not accept warranty requests for this equipment unless the fault has been caused by parts produced by the manufacturer.

8. When preparing a warranty request, identify the part that has caused the fault, for example:

a. Leak at seal leading to clutch slippage. It is the seal which is at fault, not the clutch.

b. Gearbox damaged by a broken gear tooth. The gear is at fault.

c. Damage to a hydraulic valve seat leading to loss of pressure in the independent PTO clutch and resulting in replacement of the complete assembly. It is the valve which is at fault.

9. Having identified the part which is at fault, the type of fault must then be identified. Use one of the fault code descriptions opposite and note down the number.

10. List all the parts used in the repair on the warranty request form. The part at fault must be shown as item number 1 and the description must be written in CAPITAL LETTERS (see example). Indicate the number of parts used.

11. In the section "Nature of the fault and repair" on the form, give a very brief description, using the name of the fault chosen in paragraph 9.

Under this description, indicate the location of the faulty parts on the tractor:

e.g. Main clutch assembly.
Hydraulic linkage.
Steering.

This allows the manufacturer to find the part quickly in the parts catalogue and verify that the warranty request is correct.

12. Refer to the relevant page in the Repair Time Schedule and look up the part which is at fault. Then note down the six-figure failure code in the "Failure code" box on the form. Add the two fault code figures to this number. For example:

Leak at input shaft seal.

Failure code - 43 04 03

Fault code - 14.

Note down - 43 04 03 14.

13. In the box "Labour hours allowed", insert the time authorised in relation to the failure code in the Repair Time Schedule.

14. If the repair has taken longer due to unforeseen difficulties, e.g. broken or seized part, briefly explain why you are submitting a longer time than that stated in the Repair Time Schedule. Indicate the additional time that you are requesting (see example). Otherwise you will be reimbursed in accordance with the Repair Time Schedule.

Indicate the time shown in the schedule and add it to the extra time that you are requesting. Enter this in the "Labour hours claimed" column.

15. If you are requesting additional time (ADD) or fault finding time (FAULT FINDING), you MUST state the failure code for the extra time in addition to the repair time. You will not be reimbursed for the extra time if you do not comply with this requirement.

16. DO NOT WRITE in the hatched areas of the form.

17. If you cannot find a code number, leave the box blank on the form.

18. Retain all faulty parts in accordance with the manufacturer's instructions.

G . Fault codes

1. Alphabetical order:

Blocked 03
Broken 04
Burst 46
Circuit error 72
Contamination 49
Correction of load rating 74
Corrosion 06
Cracked 04
Dimensional error 08
Excessive consumption of lubricating oil 27
Excessive fuel consumption 28
Incorrect assembly 11
Incorrect display (e.g. instruments) 30
Incorrect machining 51
Incorrect pressure 33
Incorrect setting 12
Incorrect shimming 25
Jamming 34
Lack of power 57
Leaks - oil/water/fuel/air/gas/acid etc. 14
Loose 16
Misshapen 24
Noisy 56
Not defined 99
Part missing 66
Pitted 06
Poor paintwork 76
Porous 19
Scratched 21
Seized 23
Slipping 54
Split 46
Stretched 47
Threads, splines stripped 44
Tight 34
Unexpected engagement/disengagement 61
Vibration 56
Wear 10

2. Numerical order:

03 ..... Blocked
04 ..... Broken
04 ..... Cracked
06 ..... Corrosion
06 ..... Pitted
08 ..... Dimensional error
10 ..... Wear
11 ..... Incorrect assembly
12 ..... Incorrect setting
14 ..... Leaks - oil/water/fuel/air/gas/acid etc.
16 ..... Loose
19 ..... Porous
21 ..... Scratched
23 ..... Seized
24 ..... Misshapen
25 ..... Incorrect shimming
27 ..... Excessive consumption of lubricating oil
28 ..... Excessive fuel consumption
30 ..... Incorrect display (e.g. instruments)
33 ..... Incorrect pressure
34 ..... Jamming
34 ..... Tight
44 ..... Threads, splines stripped
46 ..... Burst
46 ..... Split
47 ..... Stretched
49 ..... Contamination
51 ..... Incorrect machining
54 ..... Slipping
56 ..... Noisy
56 ..... Vibration
57 ..... Lack of power
61 ..... Unexpected engagement/disengagement
66 ..... Part missing
72 ..... Circuit error

74 .....Correction of load rating
76 .....Poor paintwork
99 ..... Not defined

H . Research tool

The Repair Time Schedule uses the same plates and references as the spare parts catalogue.

To make it easier to find a failure code for a part, the references of plates common to the parts catalogues and repair time manual are shown at the bottom left of the page.

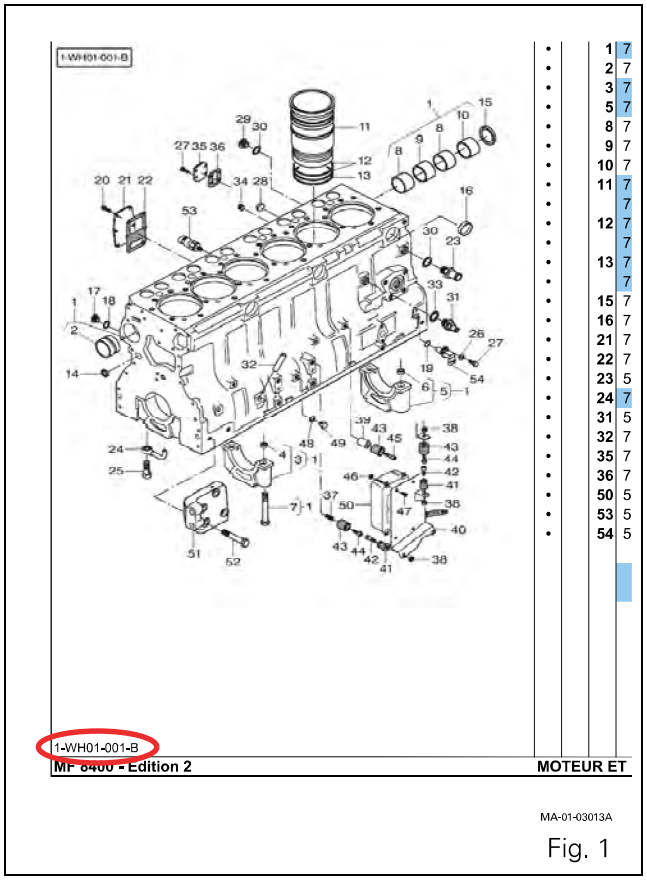

Fig. 1

To search by reference to a plate in Acrobat Reader, call up the Find dialog box by pressing CTRL and F simultaneously or by selecting the Edit tab and clicking Find. When the dialog box is open, enter the reference of the plate you used to order the spare parts then confirm.

Acrobat Reader will find the plate. Open the plate and note down the code and repair time corresponding to the reference of the part replaced.

I . Time amendment request

See next page

Time amendment request

Name of distributor ..... Date.....

Address .....

.....

RTS publication no. ..... Failure code no.....

Machine model ..... Serial no.....

We wish to dispute the time allocated for the failure code no. above and confirm that we have closely monitored and timed the operation, which has been carried out by a qualified technician, using the special tools and procedures recommended; our comments are detailed below:

Analysis of repair time			
Work carried out	Time		Comments
Removal of component			
Disassembly			
Cleaning and inspection			
Obtaining parts and tools			
Reassembly			
Refitting			
Adjusting and testing			
TOTAL TIME			
Number of mechanics used for this work			

Signature ..... Name.....

Send to:

AGCO S.A.
Service Documentation Technique
Avenue Blaise Pascal
BP60307
60026 BEAUVAIS CEDEX
FRANCE

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