NEW HOLLAND

MH4.6
MHPlusC

NEW HOLLAND KOBELCO

Workshop
Manual

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SECTION 1 HOW TO USE

INDEX

Sections index 1-1

Introduction 1-3
Introduction 1-3
Manual handling 1-3
Symbols and indications 1-4

Features of the manual 1-5
Manual composition 1-5
Brief information for manual consultation 1-7

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SECTIONS INDEX

PAGES



SECTION 1 - HOW TO USE

Sections index 1-1
Introduction 1-3
Features of the manual 1-5



SECTION 2 - SAFETY RULES

Safety rules 2-1
Safety signs 2-35



SECTION 3 - FEATURES

Foreword 3-1
Identification data 3-2
Noise levels (2000/14/EEC) 3-3
Summary plate for maintenance operations 3-5
Basic components of the wheeled excavator with monobloc 3-6
Basic components of the wheeled excavator with triple articulation 3-7
Reading key for the liftable load chart located in the cab 3-31
Filling chart model MH4.6 3-32
Filling chart model MHPlusC 3-33



SECTION 4 - SUPERSTRUCTURE

Superstructure 4-1
Main frame and counterweight 4-6
Power unit 4-11
Hydraulic pumps 4-18
Hydraulic oil reservoir 4-63
Fuel reservoir 4-65
Covers and protections 4-67
Cab 4-71
Main control valve 4-83
Swing device 4-116
Hand pilot valve 4-149
Travel pilot valve 4-154
Steering valve 4-156
Center joint 4-178
Specifications and data 4-180
Brake pedal valve 4-181
Accumulators 4-196
Pressure switches 4-199
Solenoid valves 4-202



SECTION 5 - UNDERCARRIAGE

Swing bearing 5-3
Lower frame 5-7
Travel unit 5-8
Wheels and tyres 5-349
Blade assembly 5-362
Lateral stabilizers 5-363

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SECTION 6 - FRONT-END ATTACHMENT

Monobloc front-end attachment 6-1
Triple articulation front-end attachment 6-8
Cylinder removal and installation 6-15
Cylinders 6-39
Cylinders 6-67
Antidrop valves 6-96
Pins and bushings 6-98
Pins and bushings 6-100
Nominal dimensions for the connection between the arm and the bucket 6-102



SECTION 7 - HYDRAULIC SYSTEM

Hoses and connections 7-1
Hydraulic system 7-8
Operation of circuits 7-48



SECTION 8 - ELECTRICAL SYSTEM

Safety rules 8-1
Specifications and data 8-2
Location and functions of components 8-4
Instruments and controls 8-9
APC50 electronic unit 8-30
Electric components 8-37
Control line and wiring harnesses 8-42



SECTION 9 - TROUBLESHOOTING

Introduction 9-1
Hydraulic system troubleshooting 9-3
Electrical system troubleshooting 9-33



SECTION 10 - PERFORMANCE TEST

Introduction 10-1
Standard performances 10-2
Preparation for performance test 10-10
Excavator peformance test 10-12
Lift/swing performance 10-20
Transmission 10-25
Component performance test 10-26

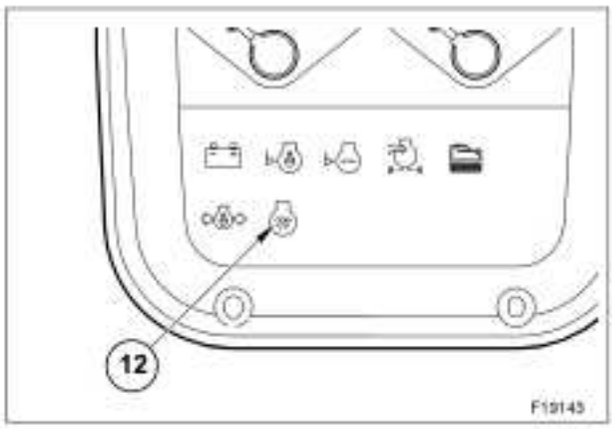
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MHPlusC
TECHNICAL SPECIFICATIONS

ENGINE	
Make	IVECO
Modell	NEF F4BE0684B*D401
Typ	Diesel, 4-stroke, direct injection, turbocharged with aftercooler (turbo)
Net power at flywheel at 2150 rpm^{-1} (80/1269/EC)	112 kW
Number of cylinders	6 in-line
Total displacement	5900 cm^3
Bore x Stroke	102 x 120 mm
ELECTRICAL SYSTEM	
Voltage of operation	24 V
Batteries (Capacity/Voltage)	2 x 100 Ah / 12 V
Alternator (Current/Voltage)	70 A / 24 V
Starter motor (Power)	4 kW
HYDRAULIC SYSTEM	
Equipment/travel control pump	
Maximum output	252 l/min
Maximum operating pressure	35 MPa
Upperstructure swing control circuit	
Maximum output	125 l/min
Maximum operating pressure	20 MPa
Hydraulic cylinders (bore x stroke)	
Lifting (triple articulation)	110 x 950 mm
Lifting (monobloc)	110 x 960 mm
Arm	115 x 1305 mm
Bucket	110 x 920 mm
Positioner (triple articulation version only)	145 x 775 mm
TRANSMISSION	
Type	with variable displacement hydraulic motor and two-speed synchronized gearbox
Travel speeds	
Working	
Slow	0 ÷ 3.6 km/h
Fast	0 ÷ 8.9 km/h
Transfer	
Slow	0 ÷ 13.9 km/h
Fast	0 ÷ 37.2 km/h
Maximum climbable gradient	
Working	65 %
Transfer	13 %
TURRET SWING	
Swing motor	axial pistons
Swing brake	automatic operation, disc-type
Final reduction	oil-immersed planet. reduction
Bullgear	in grease bath
Swing speed	9.0 rpm^{-1}

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GLOW PLUG HEATING WARNING LIGHT (OPTIONAL)



When fed (start-up key **ON**), the control panel runs its **CHECK**. Warning light (**12**) comes on to indicate that operation is correct. Then it comes off. It remain on only in case the preheating system is operating.

The system starts operating when temperature is included between +7.5 °C ± 2.5 °C and -33.5± 2.5 °C. Preheating times varies from 10 to 15 seconds. Start diesel engine when the light turns off (start-up key on **START**).

STARTER SWITCH



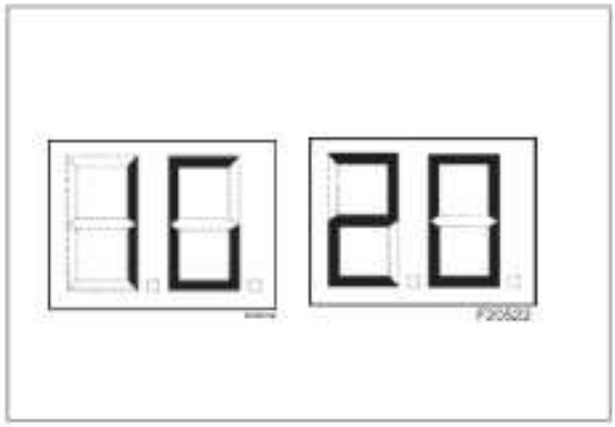
1. **Starter switch**
   The starter switch has four positions, each actuating the electrical system in the following manner:
   - position **OFF**, no power to the system;
   - position **ACC**, all equipment powered, except starter circuit;
   - position **ON**, all equipment powered after the starting of the engine;
   - position **START**, engine starting circuit is powered (unstable position).

NOTE:
When moving the starter key into position "ON", all the indicators on the control module come ON (test of bulbs) for about 3 seconds, except for the following indicators:
- *insufficient battery charging;*
- *insufficient engine oil pressure;*

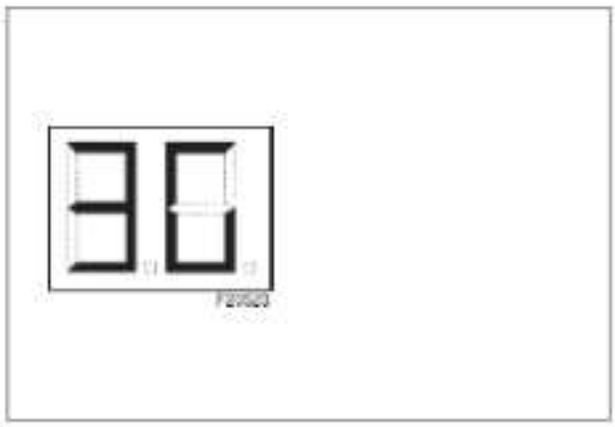
that will remain ON until the engine is started.
If one of the indicators is not ON during the test function, the relevant bulb could be burnt out.

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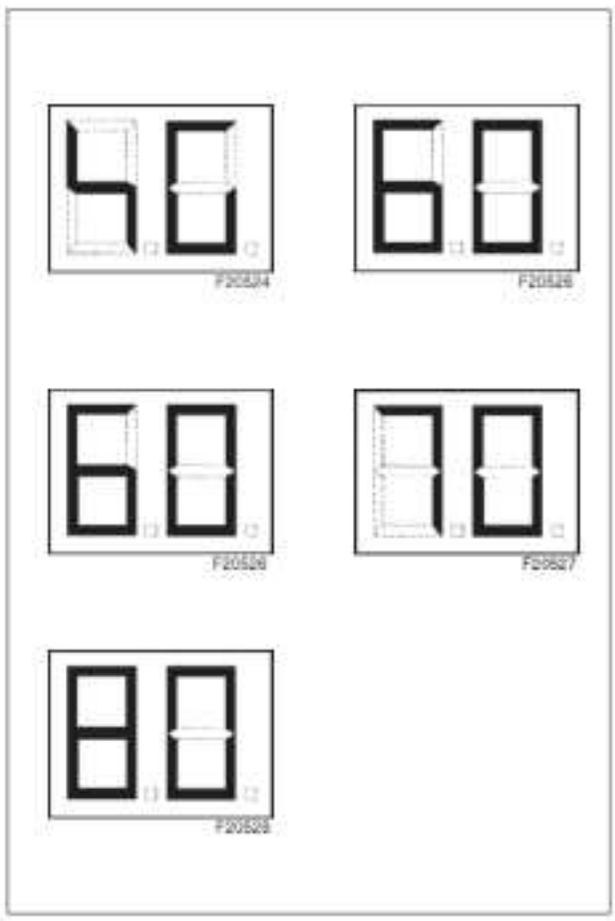
Output related to the clutch control output 1



Output related to the parking brake control output 3

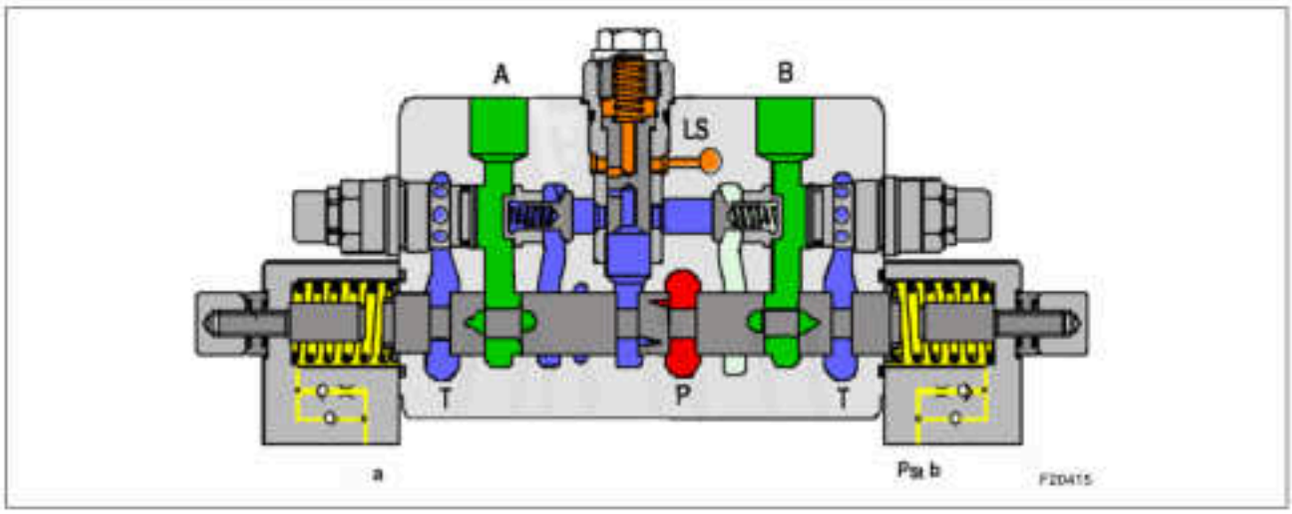


Output related to the shift gear cylinder output 4

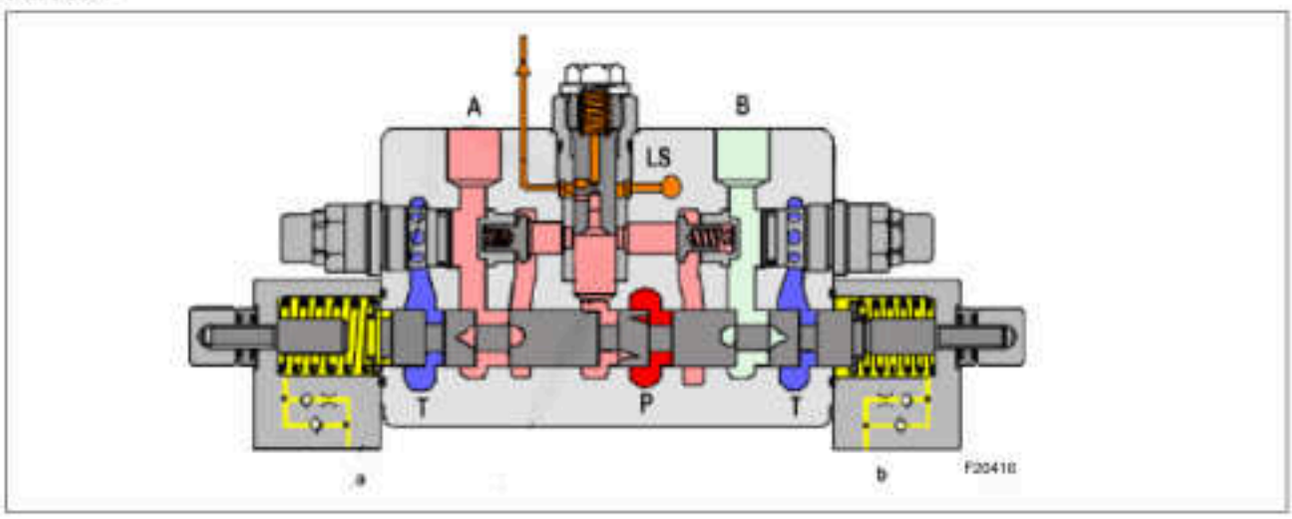


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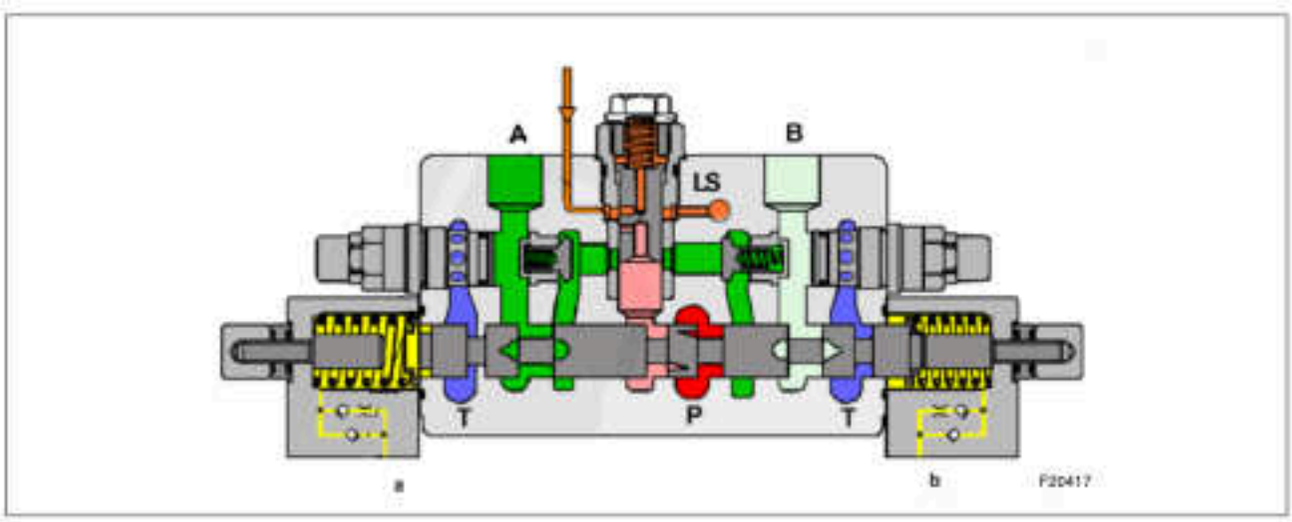
NEUTRAL position:
Directional control valve with control spool axis in neutral position. The user does not operate.



MAX. LOAD position:
Control spool in position for user operation of (**A**) side. Pilot control valve at the stroke end. Side (**B**): return from the user.



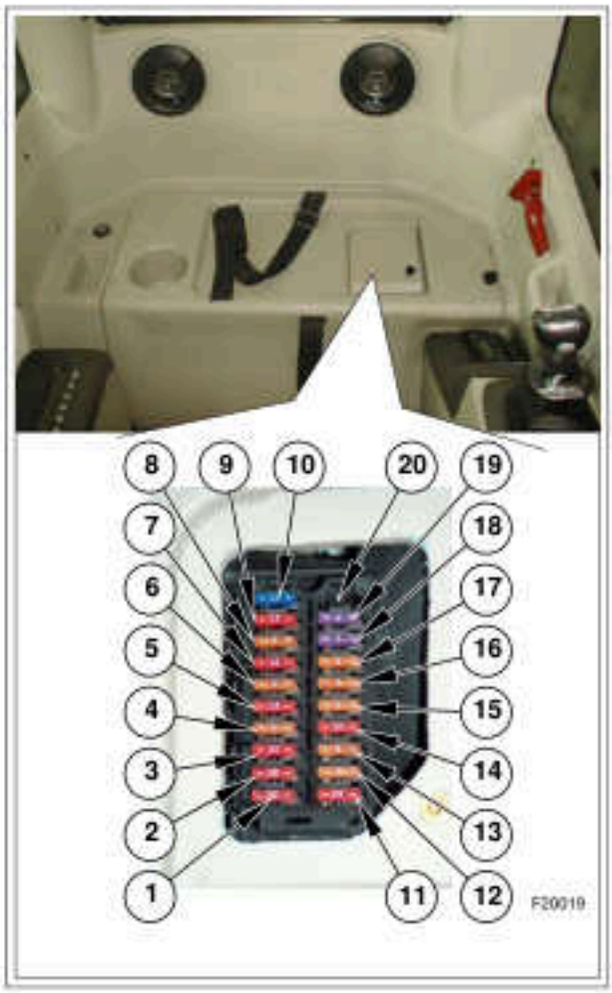
LOW LOAD position:
Pressure compensator in the control function of a lower loaded user while an another control spool is operating with an high load.



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Fuse No.	PROTECTED CIRCUIT	Rating (A)
FUSES IN THE CONTROL UNIT		
1	R.h. and l.h. console	10
2	Battery line	10
3	Gearbox board	10
4	Rotating beacon	5
5	Working light	10
6	Antitipping device	3
7	Heated seat	10
8	Cigarette-lighter	5
9	Socket 12 V and radio	10
10	Air conditioning	15
11	Engine control unit	10
12	Hydraulic pumps	5
13	Key ON	5
14	Steering column	10
15	Windscreen wiper	5
16	Traffic beams	5
17	Upper beams	5
18	R.h. direction indicator	3
19	L.h. direction indicator	3
20	Console	10

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