Index

Notes

MOTOR HOME CHASSIS MHMS 3116

Index

A	Axle, drive 3-1	Unassis 3-3, 4-1, 5-3, 6-1, 7-12, 7-14
	Axle, front 5-3	Chassis construction I-3
Accelerator pedal 5-4	Axle Maintenance and Inspection 3-24	Chassis Inspection I-6
Accelerator slave cylinder 5-4	positioning the Axle 3-24	Commonly Used Parts I-8
Accessory Air System 4, 5	wheel stop screws 3-25	Contamination, fuel See fuel system
Air bag ride height 3-4. See also Air	adjustment 3-25	Contamination, transmission 2-4
Springs; Ride Height	Axle Shaft Mounting 3-23	Coolant temperature, engine 1-2
Air Brake Sending Switches 5-5	Axle shafts 3-1	Cooling system 1-1, 1-7, 6-1
Air brake system 4-1, 4-4, 5-2, 5-4	Axle, steer 3-1	flushing the system 1-9
Air Compressor 4-4, 5-1	Axles, Front and Rear 3-23	inspection 1-8
Air Dryer 5-2	lubrication 3-23	coolant checks 1-8
inspection 5-2		fan drive belts 1-9
desiccant cartridge 5-2	PD.	hoses 1-8
Air filter 1-6	В	radiator checks 1-9
air restriction indicator 1-6	D-4 74 75	maintenance 1-8
Air inlet and exhaust system 1-4	Battery 7-1, 7-5	radiator shutters 1-5
air-to-airaftercooler 1-1, 1-5	hazards 7-1	shunt line. See radiator
maintenance 1-5	deep cycling 7-1	water pump 1-7
Air Line Color Code 5-4	overcharging 7-1	Crankcase capacity 1-12
Air reservoirs 5-3. See also Air Tanks	sulfation 7-1	Cranking system 7-5
governor reservoir 5-3	vibration 7-1	Cruise Control 5-5
primary reservoir , 5-3	jump starting 7-3	accelerator pedal 5-6
rear brakes 5-3	maintenance 7-2	brake system 5-6
secondary reservoir 5-3	precautions 7-3	indicator lamp 5-6
front brakes 5-3	removal and replacement 7-4	operation 5-6
Air Springs 3-1, 3-3	troubleshooting 7-2	testing 5-7
failure 3-1	Battery, overcharged 7-6	operational test 5-7
replacement 3-3	Battery, undercharged 7-6	road test and adjustment 5-7
Air suspension system 3-19	Bennett Shifter 2-1. See also Transmission	troubleshooting 5-8
Air Suspensions, Troubleshooting 3-5	Operations	Zemco AP230 Tester 5-8
Air system 3-1	Bio-Bar® 1-3. See also fuel system	
Air Tanks 5-3. See also air reservoirs	Block heater 1-13	
automatic drain valve 5-3	Brake Adjustment 4-2	D
check valve 5-3	slack adjuster 4-2	
manual drain valve 5-3	Brake Inspection 4-4	Diesel fuel grades 1-3
mounting 5-3	Brakes, front 5-6 See also air reservoirs	Dipstick, engine oil 1-11. See also
Allison MT 643 automatic transmission 2-1	Brakes, rear 5-6 See also air reservoirs	Lubrication
American Society of Testing Material	Braking, Emergency Operation 4-4	Dipstick, hydraulic 6-2
(ASTM) I-7		Dipstick, transmission 2-4
Anti-rust lubricant 3-8	С	Drive Belts. See Appendix C
Appendix A A-1	C	Drive Shaft 2-12
torque chart A-1	Caterpillar 3116 diesel engine 1-1, 5-1.	
Appendix B B-3	See also engine	_
maintenance checklists B-3	Charging System 7-1, 7-6	E
Appendix C C-7	alternator 7-6	
drive belts C-7	diodetrio 7-10	Electric air heater 1-6
Appendix D D-13	drive belts 7-6	Electrical schematics 7-14
maintenance schedule D-13		Electrical system I-2, 7-1, 7-2
Automatic engine shutdown 1-14. <i>See also</i>	field test 7- 9	Engine 1-1
engine protection module(EPM)	troubleshooting 7-6 voltage regulator 7-6	cold 1-11
Automatic height control 3-1, 3-19. See	inspection and adjustment 7-7	information plates 1-1
also Air Bag Ride Height; Air Springs	installation 7-11	warm 1-11
Automatic valves, air 3-1	removal 7-10	

removal 7-10

Engine exhaust 1-4 Engine mountings 1-14	G	N
Engine oils 1-10. See also lubrication; oil viscosity	Gauges, air pressure 5-3 General Warnings I-2	Neway Rear Suspension 3-21 air spring removal 3-22
American Petrolium Institute 1-10 Engine Protection Module (EPM) 1-15, 7-12	Governor, engine 1-1, 1-4 Governor, air 5-1	deflating 3-22 height control valve adjustment 3-22
EPM override button 1-15	Governor reservoir 5-4	shock absorbers 3-22
gauge transmitters 7-13	action of the control	removal 3-22
mounting 7-13		
TDR failure 7-13	Н	•
temperature switch 7-13	High pressure lines I-2	0
Engine Wiring and Sensors 7-14	Hydraulic Fan Drive System 6-1	Oil cooler, engine 1-1
Ethylene glycol 1-8. <i>See also</i> cooling system Ethylene glycol antifreeze 2-4	hydraulic fan operation 6-2	Oil cooler, hydraulic system 6-1
Ethylene Glycol test kits 2-4	Hydraulic fluid 6-2	Oil filter 1-1
Ethylono diyool tost Nito 2 4	level check 6-7	Oil pan 1-10
_	Hydraulic Pump 6-1, 6-2	Oil pump 1-1
F	Hydraulic System 6-1, 6-6	Oil viscosity 1-1, 1-11. See also engine oils
Fact idle feature E 4	bleeding 6-4	Outriggers I-3
Fast idle feature 5-4 Federal Motor Vehicle Safety Standard 4-1	inspection 6-3 quick fixes 6-4	
Front Alignment 3-12	quiok fixes 0 4	P
camber 3-13		
caster 3-13	I	Parking Brake 4-3
king pin inclination 3-13	Important Safaty Information L1	diabling the parking brake 4-3 Parking The Coach 2-3
steering geometry 3-14	Important Safety Information I-1	Power Steering System 6-4. See also
toe-In 3-13 Front End Adjustments 3-14		Hydraulic System
camber 3-16	L	Inspection 6-6
caster 3-16	Lubrication I-4	maintenance 6-7
frame angle 3-17	lubrication capacities I-4	troubleshooting 6-7
king pin inclinations 3-18	lubrication points and major	
steering alignment (geometry) 3-18	components I-5	R
toe-in 3-14	recommended fluids and lubricants 1-5	
Front End Inspection 3-14	Lubrication system 1-1, 1-10	Radiator 1-8
Front Suspension 3-6 Front Suspension Attachments 3-7	Luber-finer oil bypass filter 1-13	Rear axle noise 3-23
radius rods 3-8	maintenance 1-11	Rear Run Box 7-14
replacement 3-8	calibrating engine oil dipstick 1-12 changine oil filter 1-12	Rear Suspensions 3-19 Neway 3-19
swaybar replacement 3-9	changing oil 1-12	pre-operation check 3-19
transverse rod replacement 3-8	checking oil 1-11	Ridewell 3-19
Fuel contamination. See fuel system		Reservoir, hydraulic system 6-2
Fuel economy 1-11		Ride Height Adjustment 3-2. See also Air
Fuel filter element replacement 1-3 Fuel specifications. <i>See</i> fuel system	M	Bag Ride Height; Ride Height; Air Springs
Fuel storage tank 1-3	Maintenance Check Lists	proper ride height 3-2
Fuel Sulfur Content I-7	2,000 mile service 1-3	total ride height 3-2 Ridewell Rear Suspension 3-20
Fuel system 1-1	6,000 mile service I-4	air spring removal 3-21
bacteria/algae growth 1-3	Maintenance Schedule	shock absorber adjustment 3-21
fuel injection 1-2	lube key I-13	Road Repairs 3-1
fuel priming pump 1-2	Manual drain valve, air springs 3-21	Rockwell axle 3-6
Fuel tank 1-2. See also fuel system	MHM 3116 motor home I-2, 1-1. See also	

chassis

Mounting, transmission 2-1

S

Service Brakes 4-1. See also Brake Adjustment
brake chambers 4-1
Shock Absorbers, Front 3-10
inspection and adjustment 3-11
removal 3-10
replacement 3-12
Standard height; Frame I-2. See also Ride
Height; Air Springs
Start switch I-2, 7-5
Starter 7-5
Starting System 7-1, 7-5

U

Universal Joints 2-12

V

Valve, check 5-3
Valve, manual drain 3-3
Valve, priority 6-1
Valves, air system regulator 5-4
Valves, automatic air 3-1
Valves, automatic drain 5-3
Vehicle Identification Number I-3

W

Water pump 1-7
Wheel Bearing Adjustment 4-5
Dana axles 4-5
Rockwell axles 4-5
Wheel bearings 4-5
Wheelbase I-2
Wheels and Tires 4-6
balancing 4-8
disk wheel troubleshooting 4-9
inflation pressure 4-7
tire inspection and maintenance 4-6
tire replacement 4-8
wheel and stud bolt replacement 4-8
aluminum wheels 4-9
lug tightening sequence 4-9

MOTOR HOME CHASSIS MHMS 3116

Notes	
TYDIES	