# THE ULTIMATE GUIDE TO EMEA H-D WORKSHOPS & ORDER FORM









### **INTRODUCTION**

Dear Workshop Owner/ Owner-to-be,

This "Ultimate Guide to EMEA Harley-Davidson Workshops" has been created cooperatively by H-D EMEA and CAPS group to give you a head start when opening or remodelling your H-D workshop area.

At CAPS group we understand that starting or refurbishing your own workshop is a stressful enough undertaking. What if we say we can take some pressure off you? Having had over 30 years in designing and equipping service areas for major automotive brands, including the legendary Harley-Davidson, we have created this guide exactly for that purpose. Please feel free to use these guidelines to help you make the right decisions. The "Order Form" included in this essential summary will guide you through the list of mandatory and recommended workshop tools and equipment. Just check the boxes and forward the form to us. We will take it from there for you.

In case of any questions feel free to contact us and we will work out the best workshop solution for your business. Because we share the same passion: the passion for Harley-Davidson motorcycles.

Good luck and talk to you soon!

Nick Nelson of CAPS group

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Gavin Cupit of Harley-Davidson Motor Company





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# General facility requirements for running a workshop

### To be included within main showroom / dealership design:

- Service (workshop) reception area
- Service manager / warranty office
- Workshop customers' waiting area
- Toilets for clients and workshop staff

### Workshop area should have direct access to:

- The parts department
- General store
- Sales floor

### Other factors to consider:

- Access for vehicles delivering broken bikes or goods
- Area for bikes delivery (new, used, workshop bikes)

# Workshop minimum space standards

Motorcycle throughput should be taken into account when designing the workshop layout. The design should facilitate the actual flow of the motorcycle from the point of acceptance from the customer to delivery back to the customer.

H-D RETAIL EXPERIENCE STANDARDS	WORKSHOP MINIMUM STANDARDS											
New bike sales [in units]	7:	5	12	5	17	5	25	0	35	0	40	0
	SM	ALL	ME SM <i>A</i>		MED	IUM	ME LAR	_	LAR	GE	VEI LAR	
Workshop size [in square meters]	19	5	25	0	30	0	42	<u>.</u> 5	60	0	72	5
MC Work bays/lifts (3.6x5)	2	36	3	54	3	54	4	72	5	90	7	126
Access to MC bay (3.6x4)		28		42		42		56		70		98
Trike work bay/lift (4x5)	1	20	1	20	1	20	1	20	1	20	1	20
Access to Trike bay (5x5)		25		25		25		25		25		25
MC Storage for workshop bikes only		32		52		95		167		280		321
Wash bay		20		20		20		20		20		20
Minimum Equipment & Tools		15		15		20		30		40		50
MC Parts storage (stripped bikes)	5			6		8		10		25		35
Staff welfare area		14		16		16		25		30		30
	TOTAL	195	TOTAL	250	TOTAL	300	TOTAL	425	TOTAL	600	TOTAL	725

Legend:

MC - motorcycle.





# Workshop requirements divided into main sections

### 1. Work bay minimum standards

### Lifts and work bays

- Minimum area for work bay is: 3.6m x 5m (width x depth)
- The ceiling should be at least 3.5 m high
- Clear access area for each work bay
  - There should be a minimum of 4 meters of clearance from the end of the work bay (lift's ramp) for MCs
  - There should be a minimum of 5 meters of clearance from the end of the work bay (lift's ramp) for Trikes
- Double lift bays are recommended if there is space
- When possible lifts should be recessed in the floor to facilitate bike access

### Workbenches

- Height between 85 and 100 cm
- Depth between 70 and 100 cm
- Durable metal or rubber top is recommended in certain areas if not the whole surface of the workbench
- Sliding doors covering the under counter space are recommended

### Lighting

- Light at the workbench and lift area work surfaces should be 120-125 lumens
- Long fluorescent lighting fixtures are recommended and should not be more than 2.5 meters from the floor
- Lighting fixtures in the work bay will form a "horseshoe" or "U" shape around the lift/s.
- Lighting fixture on top of workbenches should be 20 cms from edge of workbench
- "The lights parallel to the lifts should be 120 cm from the lights above the workbench and 120 cms out from the center of the lifts"

### Air lines

• One air line fitting (with air pressure regulator and water separator)

### **Electrical outlets**

Minimum of 4 electrical outlets per bay

### **Oil Supply**

• Individual oil supply line for every two bays is recommended

### Internet access

WiFi and LAN access

### **Exhaust extraction**

 Suitable exhaust gases extraction system per bay with two hoses and fittings for motorcycle exhaust systems/mufflers





### 2. Warranty parts storage

- DLR must be able to store a minimum of 90 days of warranty parts
- Minimum 3 shelves should be marked for 3 consecutive months
- Parts to be cleared tagged with date, VIN and warranty claim number

### 3. Motorcycle parts storage

- Space should be allocated within the workshop area to store parts taken from motorcycles being repaired.
- The location should prevent from parts getting damaged.
- Recommended solution is the use of rolling carts.

### 4. Bike wash station minimum standards

Size: 4x4 meters (16 sqm)

### **Equipment**

- Lighting (4'(1.2m) 40w fluorescent 2 tube units) 40W min at no more than 2.5 meters above the floor.
- Plastic lighting sleeves
- Ground fault type electrical outlets (4 sockets)
- Floor drain with carefully planned drainage
- Mini lift, handy lift or ground pole lift
- One vise should be installed on a bench in the tool area
- Cabinet with sliding doors
- Built-in countertop
- Pressure washer
- Cold water line
- Air lines

### Miscellaneous

- Pail
- Sponge (provided by H-D, 94760-99)
- Chamie (buff cloth) (provided by H-D, 94663-02, 94791-01)
- Brush, washing (provided by H-D, 94844-10, 43078-99)
- Water hose
- Chemical/cleaning cart
- Air blow gun
- H-D Cleaning, detailing and protective products
- First aid kits government regulations





## 5. Charging station minimum standards

### **Battery Charger**

Multi Point, Optima Pro

### **Battery tester**

- Midtronics (available from H-D)
  - o EC-14900052 Battery Tester Europe
  - o EC-14900053 Battery Tester UK
  - o EC-14900056 Cart, Battery Tester
  - o Midtronics UK power cord Part Number 6003 0215"

### **Equipment**

- Acid resistant cart with gravity drain
- Ventilation system
- Lighting (4' fluorescent 2 tube units)
- Ground fault type electrical outlets (4 sockets)

### Miscellaneous

- Rubber gloves
- Rubber apron
- goggles
- Grounded Rubber mat
- Lightning suppressor
- First Aid Kits





# Order Form - List of workshop minimum equipment & tools

This is a list of workshop equipment and tools which every service area should have.

Please mark with "x" items you would like to order and send us the scanned document.

DESCRIPTION	NOTES	MANDATORY / RECOMMENDED	REF. IF PROVIDED BY CAPS WORKSHOPS	ORDER				
AIR SUPPLY								
AIR COMPRESSOR	SIZED TO SUIT WORKSHOP	MANDATORY	ref. Air Compressor					
AIR DRYER	SIZED TO SUIT COMPRESSOR	RECOMMENDED	REF. AIR DRYER					
AIR POWERED TOOLS								
AIR GRINDER		RECOMMENDED	REF. CP854 4 INCH CHICAGO PNEUMATIC					
AIR IMPACT TOOL		MANDATORY	REF. CP7737 1/2 IN ANGLE IMPACT DRIVER. CHICAGO PNEUMATIC					
AIR DRILL		RECOMMENDED	REF. CP 1464 3/8 AIR DRILL CHICAGO PNEUMATIC					
BIKE WASH STATI	ON / VALETING BAY							
HIGH WATER PRESSURE SYSTEM		RECOMMENDED	REF. PRESSURE WASHER					
EXHAUST GASES EXTRACTION								
EXHAUST EXTRACTION SYSTEM	ONE MODULE SHARED BETWEEN 2 WORK BAYS. 1 Y PIECE. WITH MC SPECIFIC EXHAUST ADAPTOR. WITH ENOUGH CAPACITY FOR THE NUMBER OF WORK BAYS.	MANDATORY	REF. EXHAUST					
		IVIANDATORT	KEF. EXHAUST					
BREAK SYSTEM B	LEEDING							
VACUUM PUMP / AIR BLEEDER	MITY VAC	MANDATORY	REF. MITYV8020					
CHARGING STATION								
CHARGING STATION/ BATTERY CHARGER	MULTI POINT AND TRICKLE CHARGERS (AVAILABLE FROM H- D): 800 MA: 99814-09 (EU) 800 MA: 99816-09 (UK) 5 AMP: 66000042 (EU) 5 AMP: 66000043 (UK)	MANDATORY	PROVIDED BY HARLEY-DAVIDSON					





DESCRIPTION	NOTES	MANDATORY / RECOMMENDED	REF. IF PROVIDED BY CAPS WORKSHOPS	ORDER				
CHARGING STATION (CONT.)								
	SPECIAL TOOL (MUST BE PURCHASED FROM H-D): EC-14900052 BATTERY TESTER EUROPE EC-14900053 BATTERY TESTER UK EC-14900056 CART, BATTERY TESTER MIDTRONICS UK POWER CORD							
BATTERY TESTER	PART NUMBER 6003 0215	MANDATORY	PROVIDED BY HARLEY-DAVIDSON					
BOOSTER START		MANDATORY	REF. BATT BOOST					
CONSUMABLES S	TORAGE							
CABINET FOR CONSUMABLES		MANDATORY	CONTACT CAPS GROUP					
DIAGNOSTIC EQU	JIPMENT							
SCREEN FOR DT II		RECOMMENDED	CONTACT CAPS GROUP					
INSPECTION LIGHTS	LED RECHARGEABLE	MANDATORY	REF. J1500REDAS					
OSCYLLOSCOPE	PICO (RECOMMENDED)	RECOMMENDED	REF. PICOSCOPE.					
MIRROR FOR EACH BENCH	RECTANGULAR ADJUSTABLE	RECOMMENDED	REF. GA294\$NAP					
ENDOSCOPE		RECOMMENDED	REF. PCE-VE 200					
PHOTOGRAPH/VIDEO CAMERA	TABLET	MANDATORY	CONTACT CAPS GROUP					
ELECTRICAL DIAG	NOSIS							
DIGITAL MULTIMETER	FLUKE	MANDATORY	REF. 114FLUKE					
12 V TESTER	ONE PER WORK BAY	MANDATORY	REF. 8374DRAPER					
HEALTH AND SAF	ETY EQUIPMENT							
GOGGLES		MANDATORY	REF. JS-AGC010-301-300					
GLOVES		MANDATORY	REF. JSUC-KM15					
FIRE BLANKET		MANDATORY	REF. JSHS-101-1447					
FIRE EXTINGUISHER	QD3IN 200	MANDATORY	REF. FSS FE010/FSS 2KG CO2					
EYES WASHER		RECOMMENDED	REF. JS-RL-903					
FIRST AID KIT		MANDATORY	ref. JSSA-K10AECON					
JACKS / MC SUPPORT EQUIPMENT								
FLAT JACK	ONE PER BAY	MANDATORY	REF. MCL 20 CAPS 801458					
SCISSOR JACK	ONE PER BAY	MANDATORY	REF. MCL 20 CAPS 801458					
TROLLEY JACK		MANDATORY	REF. SGSTJA1.25					





		MANDATORY /	REF. IF PROVIDED BY CAPS							
DESCRIPTION	NOTES	RECOMMENDED	WORKSHOPS	ORDER						
JACKS / MC SUPPORT EQUIPMENT (CONT.)										
AXLE STANDS		MANDATORY	CONTACT CAPS GROUP							
STRAPS / FLEECE SOFT HOOKS	SET OF TWO PER BAY AVAILABLE FROM H-D	MANDATORY	PROVIDED BY HARLEY-DAVIDSON							
BUNGEE CORDS	ONE SET PER BAY	MANDATORY	CONTACT CAPS GROUP							
LIFTS										
LII 13										
LIFTS	PREMIUM LIFT, MIN 600KG CAP POWER OPERATED WITH FRONT WHEEL CLAMP	MANDATORY	REF. LIFTS							
MOBILE FLOOR LIFT	HYDRAULIC WHEELED UNDER FRAME LIFT	MANDATORY	REF. WHEEL LIFT							
ENGINE CRANE / HOIST	2,000KG CAP, FOLDING	MANDATORY	REF. EC2000 CRANE							
STRAPS FOR THE ENGINE HOIST		MANDATORY	REF. STRAPS							
			112110110110							
MEASUREMENT	TOOLS	ı								
DIAL BORE GAUGE		MANDATORY	REF. GAUGE, DIAL BORE, 2" 6" REF. GA2-6BSNAP							
MICROMETER (0-4" OD. ACCURATE TO 0.0001")	(DIGITAL)	MANDATORY	REF. 0-4IN. CAPS DIGI MICR SET CWT00LS DMSET 0-100							
VERNIER CALIPER		MANDATORY	REF. MIUTOYO 8 X 200 VERNIER							
DIAL INDICATOR & MAGNETIC STAND		MANDATORY	ref. GA3640 MAGNETIC SNA							
FEELER GAUGE		MANDATORY	REF. IMP FEELER FB308DSNA							
STRAIGHT EDGE		MANDATORY	REF. (24INCH PRECISION) GA438ASNA							
FLAT PLATE		MANDATORY	REF. 18" X 12" CAST IRON SURFACE PLATE. 80203006G&M TOOLS							
TELESCOPIC GAUGES		MANDATORY	REF. MOORE AND WRIGHT MW315-01							
MISCELLANEOUS										
GREASE GUN		RECOMMENDED	REF. GA471SNA							
HEAT GUN		MANDATORY	REF. ET1400SNA							
SOLDERING GUN		MANDATORY	REF. R460BSNA							
POP RIVET GUN		MANDATORY	REF. HPS202 SNA							
TAP AND DIE SET		MANDATORY	REF. TRC3SNA							
MAGNETIC PICKUP		MANDATORY	REF. PHT5 SNA							
ELECTRIC DRILL		MANDATORY	REF. DCD710D2DEWALT							
DRILL BIT ASSORTMENT		MANDATORY	ref. dbm125C SNA							





MISCELLANEOUS (CONT.)  ELECTRICAL WIRE STRIPPERS  MANDATORY REF. PWC.27 SNA  WICE FOR A WORK BAY ONE PER WORK BAY MANDATORY REF. JAS.4  WICE FOR A TOOL ROOM MANDATORY REF. JAS.6  WELDER ELECTRIC MIG RECOMMENDED CONTACT CAPS GROUP  CYLINDER HONE KIT MANDATORY REF. BG.2007/795EAL BENCH GRINDER BINCH DOUBLE ENDED MANDATORY REF. BG.2007/975EAL BENCH GRINDER BINCH DOUBLE ENDED MANDATORY REF. PDM.210F5EAL HAND WIPING ROLLS FOR EACH WORK BAY MANDATORY REF. PDM.210F5EAL MANDATORY REF. PDM.210F5EAL  MANDATORY REF. PDM.210F5EAL  MANDATORY REF. PDM.210F5EAL  MANDATORY REF. PDM.210F5EAL  MANDATORY REF. PDM.210F5EAL  MANDATORY REF. RSALIGNMENT BARS  LASER LINER RECOMMENDED CONTACT CAPS GROUP  MOTORCYCLE ALIGNMENT TOOLS  STRAIGHT EDGES MANDATORY REF. RSALIGNMENT BARS  CONTACT CAPS-WORKSHOPS REF. DIG! ANGLE GAUGE PROTIRACTOR INCLINOMETER ANGLE GAUGE PROTIRACTOR INCLINOMETER ANDATORY MOTORCYCLE PARTS STORAGE  STORAGE SHELVING RACKET FOR PARTS, STRIPPED MCS STRIPPED MCS AT LEAST ONE WITH WHEELS MANDATORY REF. ROO1  MOTORCYCLE PROTECTION  SERVICE COVERS (FUEL TANIL AND P. ENDER)  AVAILABLE FROM H-D (63795- 10)  MANDATORY PROVIDED BY HARLEY-DAVIDSON  MANDATORY PROVIDED BY HARLEY-DAVIDSON	DESCRIPTION	NOTES	MANDATORY / RECOMMENDED	REF. IF PROVIDED BY CAPS WORKSHOPS	ORDER
STRIPPERS VICE FOR A WORK BAY VICE FOR A TOOL ROOM MANDATORY REF. JAS4  MANDATORY REF. JAS6  MANDATORY REF. ROOLIONATER ANGLE GAUGE PROTRACTIC CAPS GROUP  MANDATORY REF. DIGI ANGLE GAUGE PROTRACTOR INCLINOMETER DIVIL-BOE  MANDATORY MANDATORY REF. ROOLIONATER ANGLE GAUGE PROTRACTOR INCLINOMETER DIVIL-BOE  MANDATORY REF. ROOLIONATER ANGLE GAUGE PROTRACTOR INCLINOMETER DIVIL-BOE  MANDATORY REF. ROOLIONATER RECOMMENDED CONTACT CAPS GROUP  MANDATORY REF. ROOLIONATER RECOME	MISCELLANEOUS	(CONT.)			
BAY VICE FOR A TOOL ROOM PER WORK BAY MANDATORY REF. JAS4 VICE FOR A TOOL ROOM MANDATORY REF. JAS6 WELDER ELECTRIC MIG RECOMMENDED CONTACT CAPS GROUP CYLINDER HONE KIT MANDATORY REF. VS029SEAL BENCH GRINDER 8 INCH DOUBLE ENDED MANDATORY REF. BG200/79SEAL PILLAR DRILL MANDATORY REF. PDM210FSEAL HAND WIPING ROLLS FOR EACH WORK BAY MANDATORY CONTACT CAPS GROUP  MOTORCYCLE ALIGNMENT TOOLS  STRAIGHT EDGES MANDATORY REF. PSALIGNMENT BARS LASER LINER RECOMMENDED CONTACT CAPS WORKSHOPS INCLINOMETER / ANGLE GAUGE PROTRACTOR INCLINOMETER DUR MANDATORY CONTACT CAPS GROUP  MOTORCYCLE PARTS STORAGE  STORAGE SHELVING DUR MADDATORY CONTACT CAPS GROUP  MOTORCYCLE PARTS STORAGE  STORAGE SHELVING ALIGNMENT WHEELS MANDATORY CONTACT CAPS GROUP  MOTORCYCLE PROTECTION  SERVICE COVERS (FUEL TANL AND ENDER HE TOOL) SERVICE COVERS (FUEL TANL AND ENDER HE TOOL) SERVICE COVERS (FUEL TANL AND ENDER HE TOOL)  MOTORCYCLE PROTECTION  SERVICE COVERS (FUEL TANL AND ENDER HE TOOL)  AVAILABLE FROM H-D MANDATORY PROVIDED BY HARLEY-DAVIDSON  OIL SUPPLY  DRAIN PANS (H-D) AVAILABLE FROM H-D (63795-10)  MANDATORY PROVIDED BY HARLEY-DAVIDSON			MANDATORY	ref. pwc27 sna	
ROOM  MANDATORY REF. JAS6  WELDER  ELECTRIC MIG  RECOMMENDED CONTACT CAPS GROUP  PULLAR DRILL  MANDATORY REF. BG200/79SEAL  MANDATORY CONTACT CAPS GROUP  MANDATORY REF. BG200/79SEAL  MANDATORY CONTACT CAPS GROUP  MANDATORY REF. BG200/79SEAL  MANDATORY REF. BG200/79SEAL  MANDATORY CONTACT CAPS GROUP  MANDATORY REF. BG200/79SEAL  MANDA	ВАҮ	ONE PER WORK BAY	MANDATORY	REF. JAS4	
CYLINDER HONE KIT  BENCH GRINDER  BINCH DOUBLE ENDED  MANDATORY  REF. BG200/79SEAL  MANDATORY  REF. PDM210FSEAL  MANDATORY  REF. PDM210FSEAL  MANDATORY  REF. RSALIGNMENT BARS  REF. RSALIGNMENT BARS  REF. DIGI ANGLE GAUGE  PROTRACTOR INCLINOMETER DWL-80E  MANDATORY  REF. VS029SEAL  MANDATORY  REF. BG200/79SEAL  MANDATORY  REF. PDM210FSEAL  MANDATORY  REF. PDM210FSEAL  MANDATORY  REF. PDM210FSEAL  MANDATORY  REF. RSALIGNMENT BARS  REF. DIGI ANGLE GAUGE  PROTRACT CAPS-WORKSHOPS  REF. DIGI ANGLE GAUGE  PROTRACT CAPS-WORKSHOPS  MANDATORY  MANDATORY  MANDATORY  MANDATORY  MANDATORY  MANDATORY  MANDATORY  MANDATORY  PROVIDED BY HARLEY-DAVIDSON  MANDATORY  PROVIDED BY HARLEY-DAVIDSON  MANDATORY  PROVIDED BY HARLEY-DAVIDSON			MANDATORY	REF. JAS6	
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STRAIGHT EDGES  LASER LINER  RECOMMENDED  CONTACT CAPS-WORKSHOPS  REF. DIGI ANGLE GAUGE PROTRACTOR INCLINOMETER  ANGLE GAUGE FALL AWAY ADJUSTMENT JIG  MOTORCYCLE PARTS STORAGE  STORAGE SHELVING RACKET FOR PARTS, STRIPPED MCS  AT LEAST ONE WITH WHEELS  MANDATORY  MOTORCYCLE PROTECTION  SERVICE COVERS (FUEL TANL AND FENDER)  AVAILABLE FROM H-D  AVAILABLE FROM H-D (63795- 10)  MANDATORY  REF. RSALIGNMENT BARS  CONTACT CAPS-WORKSHOPS  REF. DIGI ANGLE GAUGE PROTRACTOR INCLINOMETER DRAIN PANS (H-D)  ROTORCYCLE PROTECTION  SERVICE COVERS (FUEL TANL AND FENDER)  AVAILABLE FROM H-D (63795- 10)  MANDATORY  PROVIDED BY HARLEY-DAVIDSON  MANDATORY  PROVIDED BY HARLEY-DAVIDSON	HAND WIPING ROLLS	FOR EACH WORK BAY	MANDATORY	CONTACT CAPS GROUP	
LASER LINER  RECOMMENDED  CONTACT CAPS-WORKSHOPS  REF. DIGI ANGLE GAUGE PROTRACTOR INCLINOMETER DWL-80E  FALL AWAY ADJUSTMENT JIG  MOTORCYCLE PARTS STORAGE  STORAGE SHELVING RACKET FOR PARTS, STRIPPED MCS  AT LEAST ONE WITH WHEELS  MANDATORY  MOTORCYCLE PROTECTION  SERVICE COVERS (FUEL TANL AND FENDER)  AVAILABLE FROM H-D  AVAILABLE FROM H-D (63795- DRAIN PANS (H-D)  DRAIN PANS (H-D)  PROVIDED BY HARLEY-DAVIDSON  REF. DIGI ANGLE GAUGE PROTRACTOR INCLINOMETER DWL-80E PROTRAC	MOTORCYCLE AL	IGNMENT TOOLS			
INCLINOMETER / ANGLE GAUGE INCLINOMETER / ANGLE GAUGE FALL AWAY ADJUSTMENT JIG  MOTORCYCLE PARTS STORAGE  STORAGE SHELVING RACKET FOR PARTS, STRIPPED MCS AT LEAST ONE WITH WHEELS MANDATORY  MOTORCYCLE PROTECTION  SERVICE COVERS (FUEL TANL AND FENDER)  AVAILABLE FROM H-D  MANDATORY  REF. DIGI ANGLE GAUGE PROTRACTOR INCLINOMETER DWL-80E  MANDATORY CONTACT CAPS GROUP  MANDATORY REF. TRO01  MOTORCYCLE PROTECTION  SERVICE COVERS (FUEL TANL AND FENDER)  AVAILABLE FROM H-D  MANDATORY PROVIDED BY HARLEY-DAVIDSON  MANDATORY  PROVIDED BY HARLEY-DAVIDSON  MANDATORY  MANDATORY  PROVIDED BY HARLEY-DAVIDSON  MANDATORY  MANDATORY  PROVIDED BY HARLEY-DAVIDSON	STRAIGHT EDGES		MANDATORY	REF. RSALIGNMENT BARS	
INCLINOMETER / ANGLE GAUGE FALL AWAY ADJUSTMENT JIG  MOTORCYCLE PARTS STORAGE  STORAGE SHELVING RACKET FOR PARTS, STRIPPED MCS  AT LEAST ONE WITH WHEELS  MANDATORY  MOTORCYCLE PROTECTION  SERVICE COVERS (FUEL TANL AND FENDER)  AVAILABLE FROM H-D  MANDATORY  PROTRACTOR INCLINOMETER DWL-80E  MANDATORY  CONTACT CAPS GROUP  CONTACT CAPS GROUP  MANDATORY  REF. TRO01  MANDATORY  PROVIDED BY HARLEY-DAVIDSON  MANDATORY  PROVIDED BY HARLEY-DAVIDSON  MANDATORY  PROVIDED BY HARLEY-DAVIDSON  MANDATORY  PROVIDED BY HARLEY-DAVIDSON	LASER LINER		RECOMMENDED		
MOTORCYCLE PARTS STORAGE  STORAGE SHELVING RACKET FOR PARTS, STRIPPED MCS AT LEAST ONE WITH WHEELS MANDATORY CONTACT CAPS GROUP  ROLLING CART MANDATORY REF. TRO01  MOTORCYCLE PROTECTION  SERVICE COVERS (FUEL TANL AND FENDER) AVAILABLE FROM H-D MANDATORY PROVIDED BY HARLEY-DAVIDSON  OIL SUPPLY  DRAIN PANS (H-D) AVAILABLE FROM H-D (63795-10) MANDATORY PROVIDED BY HARLEY-DAVIDSON	· ·	WITH MAGNET AND LEVEL	MANDATORY	PROTRACTOR INCLINOMETER	
MOTORCYCLE PARTS STORAGE  STORAGE SHELVING RACKET FOR PARTS, STRIPPED MCS AT LEAST ONE WITH WHEELS MANDATORY REF. TR001  MOTORCYCLE PROTECTION  SERVICE COVERS (FUEL TANL AND FENDER) AVAILABLE FROM H-D MANDATORY DRAIN PANS (H-D) AVAILABLE FROM H-D (63795- 10) MANDATORY PROVIDED BY HARLEY-DAVIDSON  MANDATORY PROVIDED BY HARLEY-DAVIDSON			MANDATORY		
STORAGE SHELVING RACKET FOR PARTS, STRIPPED MCS AT LEAST ONE WITH WHEELS MANDATORY CONTACT CAPS GROUP  MOTORCYCLE PROTECTION  SERVICE COVERS (FUEL TANL AND FENDER) AVAILABLE FROM H-D MANDATORY  PROVIDED BY HARLEY-DAVIDSON  OIL SUPPLY  AVAILABLE FROM H-D (63795- 10) MANDATORY PROVIDED BY HARLEY-DAVIDSON  PROVIDED BY HARLEY-DAVIDSON	ADJOSTIVIENT JIG	DLN	IWANDATORT	CONTACT CAF3 GROUP	
RACKET FOR PARTS, STRIPPED MCS  AT LEAST ONE WITH WHEELS  MANDATORY  REF. TR001  MOTORCYCLE PROTECTION  SERVICE COVERS (FUEL TANL AND FENDER)  AVAILABLE FROM H-D  MANDATORY  PROVIDED BY HARLEY-DAVIDSON  OIL SUPPLY  DRAIN PANS (H-D)  AVAILABLE FROM H-D (63795- 10)  MANDATORY  PROVIDED BY HARLEY-DAVIDSON	MOTORCYCLE PA	RTS STORAGE			
MOTORCYCLE PROTECTION  SERVICE COVERS (FUEL TANL AND FENDER)  AVAILABLE FROM H-D  MANDATORY  PROVIDED BY HARLEY-DAVIDSON  OIL SUPPLY  DRAIN PANS (H-D)  AVAILABLE FROM H-D (63795- 10)  MANDATORY  PROVIDED BY HARLEY-DAVIDSON	RACKET FOR PARTS,	AT LEAST ONE WITH WHEELS	MANDATORY	CONTACT CAPS GROUP	
SERVICE COVERS (FUEL TANL AND FENDER)  AVAILABLE FROM H-D  MANDATORY  PROVIDED BY HARLEY-DAVIDSON  OIL SUPPLY  DRAIN PANS (H-D)  AVAILABLE FROM H-D (63795- 10)  MANDATORY  PROVIDED BY HARLEY-DAVIDSON	ROLLING CART		MANDATORY	REF. TROO1	
SERVICE COVERS (FUEL TANL AND FENDER)  AVAILABLE FROM H-D  MANDATORY  PROVIDED BY HARLEY-DAVIDSON  OIL SUPPLY  DRAIN PANS (H-D)  AVAILABLE FROM H-D (63795- 10)  MANDATORY  PROVIDED BY HARLEY-DAVIDSON	MOTORCYCLE DR	OTECTION			
(FUEL TANL AND FENDER)  AVAILABLE FROM H-D  MANDATORY  PROVIDED BY HARLEY-DAVIDSON  OIL SUPPLY  DRAIN PANS (H-D)  AVAILABLE FROM H-D (63795- 10)  MANDATORY  PROVIDED BY HARLEY-DAVIDSON  PROVIDED BY HARLEY-DAVIDSON		OTECTION			
DRAIN PANS (H-D)  AVAILABLE FROM H-D (63795- 10)  MANDATORY  PROVIDED BY HARLEY-DAVIDSON	(FUEL TANL AND	AVAILABLE FROM H-D	MANDATORY	PROVIDED BY HARLEY-DAVIDSON	
DRAIN PANS (H-D)  AVAILABLE FROM H-D (63795- 10)  MANDATORY  PROVIDED BY HARLEY-DAVIDSON	OIL SUPPLY				
AVAILABLE FROM H. D.		,	MANDATORY	PROVIDED BY HARLEY-DAVIDSON	
FUNNELS (H-D)  AVAILABLE FROM H-D 63799-10 63797-10 MANDATORY PROVIDED BY HARLEY-DAVIDSON	FUNNELS (H-D)	63797-10	MANDATORY	PROVIDED BY HARLEY-DAVIDSON	
OIL CANS MANDATORY CONTACT CAPS GROUP	, ,		MANDATORY		
OIL SUPPLY SYSTEM RECOMMENDED REF. OIL SUPPLY SYSTEM	OIL SUPPLY SYSTEM				





DESCRIPTION	NOTES	MANDATORY / RECOMMENDED	REF. IF PROVIDED BY CAPS WORKSHOPS	ORDER					
PAINT REPAIR									
3M PAINT REPAIR KIT	SPECIAL TOOL (MUST BE PURCHASED FROM H-D): EC-160829	MANDATORY	PROVIDED BY HARLEY-DAVIDSON						
TIRES									
TYRE CHANGER	AUTOMATIC CAPABLE OF WORK TRIKE REAR WHEELS CAPABLE OF BALANCE MC AND	MANDATORY	REF. T/C						
WHEEL BALANCER	TRIKE REAR WHEELS	MANDATORY	REF. W/B						
WHEEL TRUING STAND		MANDATORY	REF. B35N BIKE LIFT						
TIRE PRESSURE GAUGE	ONE EACH WORK SHOP. AVAILABLE FROM H-D: 12700096	MANDATORY	REF. AFG4H04 PCL						
TORQUE WRENC	HES								
TORQUE WRENCHES	ONE SET PER BENCH. FROM 6 IN/POUNDS TO 250 FT/POUNDS	MANDATORY	REF. TWQD1R200, CAPS TWQD1RN6, CAPS TWQD3IN 200						
PROPANE TORCH		MANDATORY	REF. LPT7SEAL						
SINK (HANDS WASHING)		MANDATORY	CONTACT CAPS-WORKSHOPS						
PARTS WASH STATION		MANDATORY	REF. SM20SEAL						
HYDRAULIC PRESS	FLOOR STANDING. MINIMUM 20 TN	MANDATORY	REF. YK20SEAL						
HEADLIGHT ALIGNMENT EQUIPMENT	TO BE INCLUDED IN THE WORKSHOP LAYOUT AS A LAMINATED SHEET WITH MARKS FOR ALL MODELS	RECOMMENDED	CONTACT CAPS GROUP						
HEATING & AIR CONDITIONING		MANDATORY	CONTACT CAPS GROUP						
INTERNET ACCESS / WIFI		MANDATORY	CONTACT CAPS GROUP						
WASTE MANAGE	WASTE MANAGEMENT								
WASTE OIL RECEPTACLE	70L CAPACITY 1 PER 2 BAYS	MANDATORY	REF. SAM 70DRAINER						
WASTE ANTI-FREEZE RECEPTACLE		MANDATORY	ref. anti freeze store						
WASTE TYRES RECEPTACLE		MANDATORY	CONTACT CAPS GROUP						
RECEPTACLE FOR USED BATTERIES		MANDATORY	CONTACT CAPS GROUP						
RECEPTACLE FOR HAZARDOUS MATERIALS		MANDATORY	CONTACT CAPS GROUP						
BINS FOR DISPOSAL OF METAL SCRAP		RECOMMENDED	CONTACT CAPS GROUP						
BINS FOR DISPOSAL OF "NORMAL" WASTE	ONE FOR EACH BAY	MANDATORY	CONTACT CAPS GROUP						







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