YAMAHA

XVZ13CTT(C)

SUPPLEMENTARY SERVICE MANUAL

LIT-11616-18-02 4XY-28197-E1

FOREWORD

This Supplementary Service Manual has been prepared to introduce new service and data for the XVZ13CTT(C). For complete service information procedures it is necessary to use this Supplementary Service Manual together with the following manual.

XVZ13TFL/XVZ13TFLC SERVICE MANUAL: LIT-11616-12-60 (4XY-28197-E0)

XVZ13CTT(C)
SUPPLEMENTARY
SERVICE MANUAL

First edition, March 2004

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LIT-11616-18-02

EAS00003

NOTICE

This manual was produced by the Yamaha Motor Company, Ltd. primarily for use by Yamaha dealers and their qualified mechanics. It is not possible to include all the knowledge of a mechanic in one manual. Therefore, anyone who uses this book to perform maintenance and repairs on Yamaha vehicles should have a basic understanding of mechanics and the techniques to repair these types of vehicles. Repair and maintenance work attempted by anyone without this knowledge is likely to render the vehicle unsafe and unfit for use.

This model has been designed and manufactured to perform within certain specifications in regard to performance and emissions. Proper service with the correct tools is necessary to ensure that the vehicle will operate as designed. If there is any question about a service procedure, it is imperative that you contact a Yamaha dealer for any service information changes that apply to this model. This policy is intended to provide the customer with the most satisfaction from his vehicle and to conform to federal environmental quality objectives.

Yamaha Motor Company, Ltd. is continually striving to improve all of its models. Modifications and significant changes in specifications or procedures will be forwarded to all authorized Yamaha dealers and will appear in future editions of this manual where applicable.

NOTE:

- This Service Manual contains information regarding periodic maintenance to the emission control system. Please read this material carefully.
- Designs and specifications are subject to change without notice.

EAS00004

IMPORTANT MANUAL INFORMATION

Particularly important information is distinguished in this manual by the following.

⚠ The Safety Alert Symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

⚠ WARNING Failure to follow WARNING instructions could result in severe injury or death to the motorcycle operator, a bystander or a person checking or repairing the motorcycle.

CAUTION: A CAUTION indicates special precautions that must be taken to avoid damage to the motorcycle.

NOTE: A NOTE provides key information to make procedures easier or clearer.

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HOW TO USE THIS MANUAL

This manual is intended as a handy, easy-to-read reference book for the mechanic. Comprehensive explanations of all installation, removal, disassembly, assembly, repair and check procedures are laid out with the individual steps in sequential order.

① The manual is divided into chapters. An abbreviation and symbol in the upper right corner of each page indicate the current chapter.
Refer to “SYMBOLS”.

② Each chapter is divided into sections. The current section title is shown at the top of each page, except in chapter 3 (“PERIODIC CHECKS AND ADJUSTMENTS”), where the sub-section title(s) appears.

③ Sub-section titles appear in smaller print than the section title.

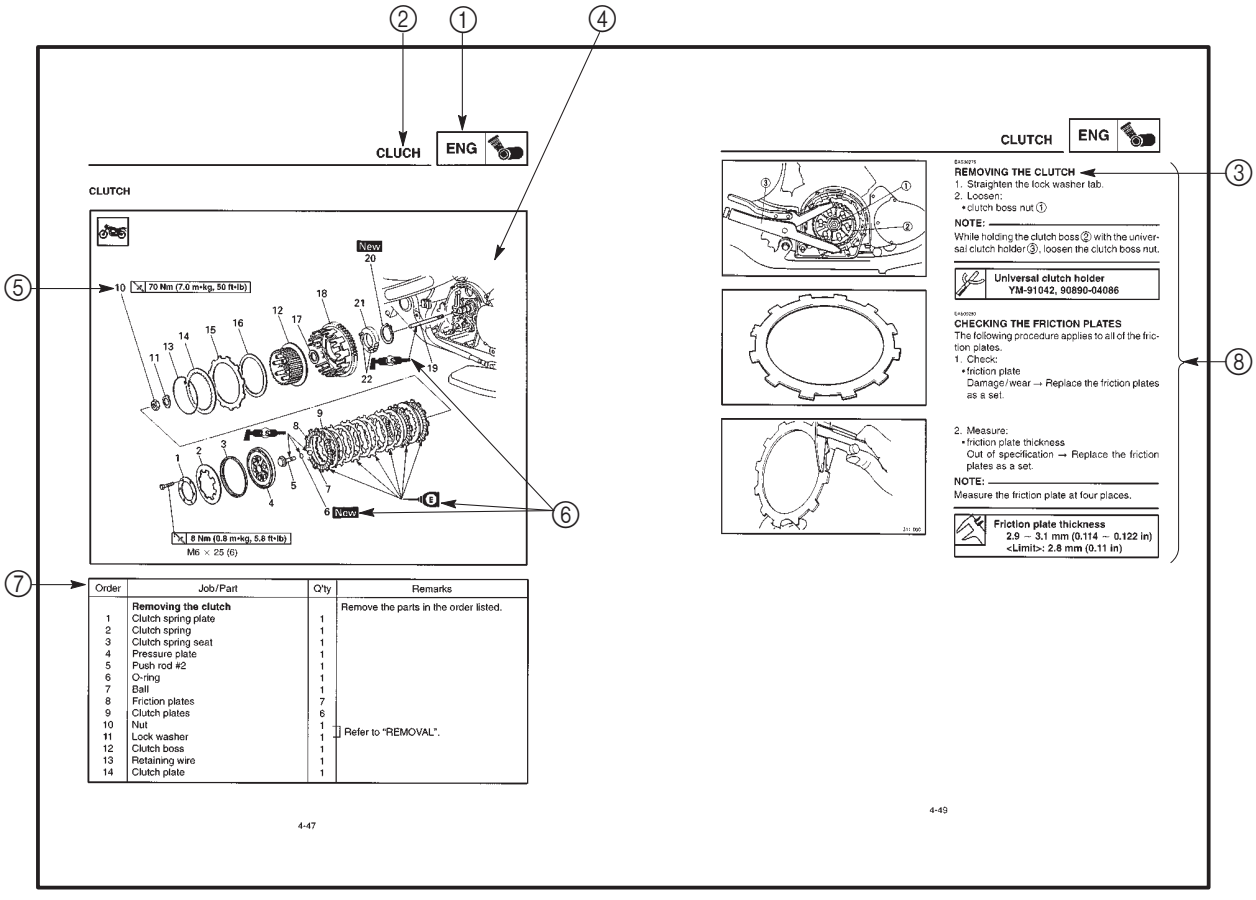
④ To help identify parts and clarify procedure steps, there are exploded diagrams at the start of each removal and disassembly section.

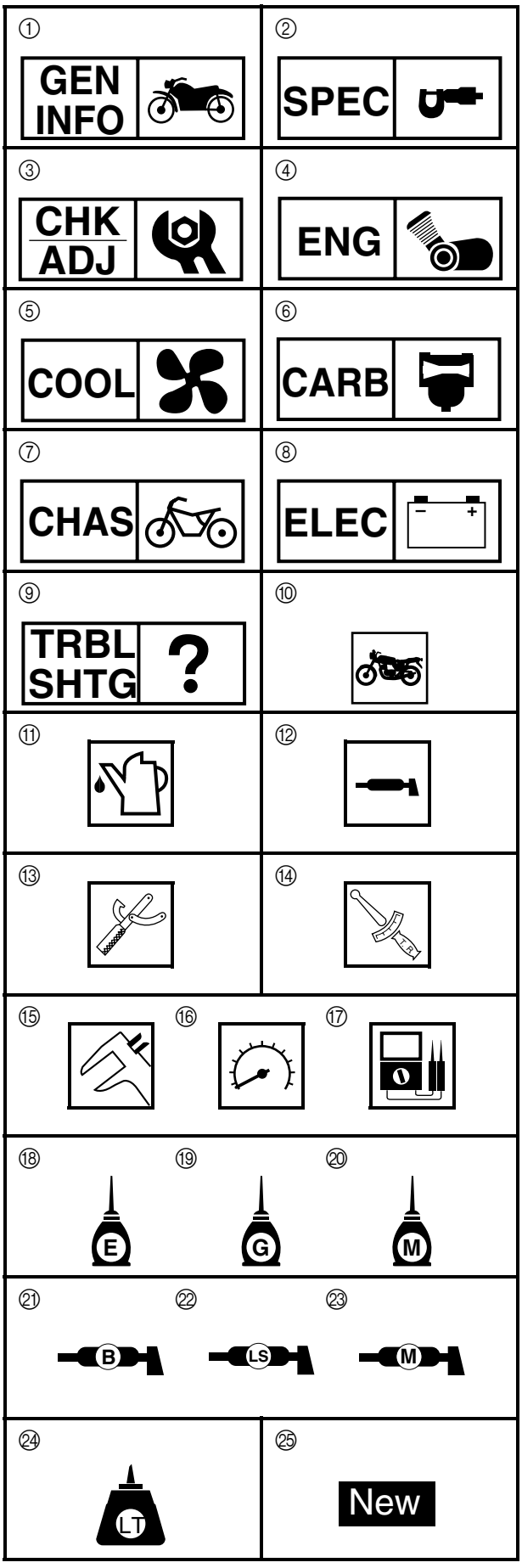
⑤ Numbers are given in the order of the jobs in the exploded diagram. A circled number indicates a disassembly step.

⑥ Symbols indicate parts to be lubricated or replaced.
Refer to “SYMBOLS”.

⑦ A job instruction chart accompanies the exploded diagram, providing the order of jobs, names of parts, notes in jobs, etc.

⑧ Jobs requiring more information (such as special tools and technical data) are described sequentially.





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SYMBOLS

The following symbols are not relevant to every vehicle.

Symbols ① to ⑨ indicate the subject of each chapter.

① General information
② Specifications
③ Periodic checks and adjustments
④ Engine
⑤ Cooling system
⑥ Carburetor(s)
⑦ Chassis
⑧ Electrical system
⑨ Troubleshooting

Symbols ⑩ to ⑰ indicate the following.

⑩ Serviceable with engine mounted
⑪ Filling fluid
⑫ Lubricant
⑬ Special tool
⑭ Tightening torque
⑮ Wear limit, clearance
⑯ Engine speed
⑰ Electrical data

Symbols ⑱ to ㉓ in the exploded diagrams indicate the types of lubricants and lubrication points.

⑱ Engine oil
⑲ Gear oil
⑳ Molybdenum disulfide oil
㉑ Wheel bearing grease
㉒ Lithium-soap-based grease
㉓ Molybdenum disulfide grease

Symbols ㉔ to ㉕ in the exploded diagrams indicate the following.

㉔ Apply locking agent (LOCTITE®)
㉕ Replace the part

CONTENTS

XVZ13CTT(C) WIRING DIAGRAM

SPECIFICATIONS

GENERAL SPECIFICATIONS

Item		Standard
Model code:		1D61 (for USA) 1D62 (for California) 1D63 (for CDN) 2C41 (for Oceania)
Dimensions:		
Overall length		2,505 mm (98.6 in)
Overall width		1,010 mm (39.8 in) (for USA, California, and CDN) 995 mm (39.2 in) (for Oceania)
Overall height		1,525 mm (60.0 in)
Seat height		740 mm (29.1 in)
Wheelbase		1,715 mm (67.5 in)
Ground clearance		150 mm (5.91 in)
Minimum turning radius		3,500 mm (137.8 in)
Basic weight:		
Dry weight		357 kg (787 lb)
With oil and a full fuel tank		383 kg (844 lb)
Fuel:		
Type		Unleaded gasoline only (for USA, California, and Oceania) Regular unleaded gasoline only (for CDN)
Fuel tank capacity		20.0 L (4.40 Imp gal, 5.28 US gal)
Fuel reserve amount		3.9 L (0.86 Imp gal, 1.03 US gal)
Carburetor:		
Type × quantity		BDSR32 × 4
Manufacturer		MIKUNI
Chassis:		
Frame type		Double cradle
Caster angle		28.83°
Trail		131.0 mm (5.16 in)
Tire:		
Type		Tubeless
Size	front	150/80-16M/C 71H
	rear	150/90B15M/C 74H
Manufacturer	front	BRIDGESTONE
	rear	BRIDGESTONE
Type	front	G705G
	rear	G702G

Item	Standard
Bulb wattage × quantity:	
Headlight	12 V 60 W/55 W × 1
Auxiliary light	12 V 4 W × 1 (for Oceania)
Tail/brake light	12 V 8 W/27 W × 1 (for USA, California, and CDN) 12 V 5 W/21 W × 1 (for Oceania)
Front turn signal/position light	12 V 23 W/8 W × 2 (for USA, California, and CDN)
Front turn signal light	12 V 21 W × 2 (for Oceania)
Rear turn signal light	12 V 21 W × 2
Meter light	LED
Indicator light	
Neutral indicator light	LED
Turn signal indicator light	LED
High beam indicator light	LED
Oil level warning light	LED
Coolant temperature warning light	LED
Engine trouble warning light	LED
Overdrive indicator right	LED
Cruise control “SET” indicator light	LED
Cruise control “ON” indicator light	LED

MAINTENANCE SPECIFICATIONS

ENGINE

Item		Standard	Limit
Carburetor:			
I.D.mark		4XY1 20 (for USA and CDN)	----
		4XY2 30 (for California)	----
		5JC1 10 (for Oceania)	----
Main jet	(M.J)	#1, 2 : #122.5 #3 : #117.5 #4 : #120	----
Main air jet	(M.A.J)	#110	----
Jet needle	(J.N)	5DL38-54-1 (for USA, California, and CDN)	----
		5DL41-54-3 (for Oceania)	----
Needle jet	(N.J)	P-0M	----
Pilot air jet	(P.A.J.1)	#85	----
Pilot outlet	(P.O)	1.1	----
Pilot jet	(P.J)	#15	----
Bypass 1	(B.P.1)	0.8	----
Bypass 2	(B.P.2)	0.8	----
Bypass 3	(B.P.3)	0.8	----
Valve seat size	(V.S)	1.5	----
Starter jet	(G.S.1)	#35	----
Starter jet	(G.S.2)	0.5	----
Throttle valve size	(Th. V)	#110	----
Fuel level	(F.L)	13.1 ~ 14.1 mm (0.52 ~ 0.56 in)	----
Engine idle speed		950 ~ 1,050 r/min	----
Intake vacuum		37 kPa (280 mmHg, 11.0 inHg)	----
Fuel pump:			
Type		Electrical type	----
Model/manufacturer		1D6/MITSUBISHI	----
Consumption amperage	<max>	1 A	----
Output pressure		15 ~ 20 kPa (0.15 ~ 0.20 kgf/cm^2, 2.1 ~ 2.8 psi)	----

Tightening torques

Item	Fastener	Thread size	Q'ty	Tightening torque			Remarks
				Nm	m · kg	ft · lb	
Heat protector plate	Bolt	M6 × 1.0	2	10	1.0	7.2	
Air induction box cover	Screw	M5	4	3	0.3	2.2	
Air filter case duct	Screw	M5	4	3	0.3	2.2	
Air filter case cover	Screw	M5	10	3	0.3	2.2	
Air filter element	Screw	M5	4	3	0.3	2.2	
Air filter assembly	Bolt	M6 × 1.0	4	7	0.7	5.1	
Middle gear case cover	Bolt	M6 × 1.0	1	10	1.0	7.2	
Final gear case and swingarm	Nut	M10 × 1.25	4	42	4.2	30	
Ignition coil bracket	Bolt	M6 × 1.0	2	10	1.0	7.2	

CHASSIS

Item		Standard	Limit
Front suspension:			
Front fork travel		140 mm (5.51 in)	----
Fork spring free length		570 mm (22.44 in)	558.6 mm (21.99 in)
Spring rate	(K1)	8.83 N/mm (0.9 kgf/mm, 50.4 lb/in)	----
Spring stroke	(K1)	0 ~ 140 mm (0.00 ~ 5.51 in)	----
Optional spring		No	----
Oil capacity		553 cm^3 (19.5 Imp oz, 18.7 US oz)	----
Oil level		117 mm (4.61 in)	----
Oil grade		Yamaha fork oil 5WT (for USA, California, and CDN)	----
Fork oil		5 W or equivalent (for Oceania)	----
Enclosed gas/air pressure		0 kPa (0 kgf/cm^2, 0 psi)	----
(Minimum ~ Maximum)		0 ~ 50 kPa (0 ~ 0.5 kgf/cm^2, 0 ~ 7.1 psi)	----
Rear suspension:			
Shock absorber travel		45 mm (1.77 in)	----
Spring free length		184.5 mm (7.26 in)	180.8 mm (7.12 in)
Fitting length		165.5 mm (6.52 in)	----
Spring rate	(K1)	147 N/mm (14.99 kgf/mm, 839.4 lb/in)	----
Spring stroke	(K1)	0 ~ 45 mm (0.00 ~ 1.97 in)	----
Optional spring		No	----
Enclosed gas/air pressure		0 kPa (0 kg/cm^2, 0 psi)	----
(Minimum ~ Maximum)		0 ~ 490 kPa (0 ~ 4.9 kgf/cm^2, 0 ~ 69.7 psi)	----
Front wheel:			
Type		Cast wheel	----
Rim size		16 M/C × MT3.50	----
Rim material		Aluminum	----
Rim runout limit	radial	----	1 mm (0.04 in)
	lateral	----	0.5 mm (0.02 in)

Tightening torque

Part to be tightened	Thread size	Tightening torque			Remarks
		Nm	m · kg	ft · lb	
Engine bracket and down tube	M10	45	4.5	32	
Muffler bracket (left and right) and frame	M8	16	1.6	11	
Muffler bracket (left and right) and muffler	M10	30	3.0	22	
	M8	30	3.0	22	
License plate bracket and rear fender	M6	7	0.7	5.1	
Rear turn signal light bracket and rear fender	M6	7	0.7	5.1	
Top cover bracket and fuel tank	M6	7	0.7	5.1	

Part to be tightened	Thread size	Tightening torque			Remarks
		Nm	m · kg	ft · lb	
Rollover valve	M5	4	0.4	2.9	
Rider seat and frame	M8	16	1.6	11	
Passenger seat and frame	M8	19	1.9	13	
Rear wheel axle pinch bolt	M8	23	2.3	17	
Upper bracket and inner tube	M6	18	1.8	13	
Lower bracket and inner tube	M8	23	2.3	17	
Front fender and outer tube	M8	30	3.0	22	
Handlebar and grip end	M6	8	0.8	5.8	
Windshield mount and windshield mount bracket	M8	23	2.3	17	
Windshield mount and lower bracket	M8	23	2.3	17	
Meter assembly and windshield mount bracket	M6	7	0.7	5.1	
Meter assembly and meter assembly bracket	M6	10	1.0	7.2	
Meter assembly bracket and upper bracket	M6	10	1.0	7.2	
Front turn signal light bracket and lower bracket	M8	23	2.3	17	
Front turn signal light assembly and front turn signal light bracket	M6	5	0.5	3.6	
Headlight and headlight bracket	M6	7	0.7	5.1	
Rear brake hose holder and down tube	M6	10	1.0	7.2	
Rear brake hose holder and frame	M6	10	1.0	7.2	
Rear brake hose holder and swingarm	M6	10	1.0	7.2	
Footrest bracket and frame	M10	52	5.2	37	
Sidecase frame and frame	M8	23	2.3	17	
Backrest bracket mount and sidecase frame	M8	23	2.3	17	
Helmet holder and sidecase bracket	M6	7	0.7	5.1	
Sidecase guard and muffler bracket (left and right)	M8	23	2.3	17	
Sidecase guard and sidecase bracket	M8	23	2.3	17	
Sidecase and sidecase bracket	M6	7	0.7	5.1	
Sidecase and sidecase frame	M6	7	0.7	5.1	
Sidecase and muffler bracket (left and right)	M6	7	0.7	5.1	
Sidecase frame and muffler bracket (left and right)	M8	25	2.5	18	
Sidecase frame, muffler bracket (left and right), and muffler bracket (center)	M8	23	2.3	17	
Muffler bracket (left and right) and muffler bracket (center)	M8	23	2.3	17	
Sidecase bracket and frame	M8	16	1.6	11	
Backrest bracket and lock assembly	M6	6	0.6	4.3	
Backrest and backrest bracket	M6	10	1.0	7.2	
Lower ring nut (steering nut)	M25	18	1.8	13	See NOTE

NOTE:

1. First, tighten the lower ring nut approximately 52 Nm (5.2 m · kg, 37 ft · lb) by using the torque wrench, then loosen the lower ring nut completely.
2. Retighten the lower ring nut to specification.
3. Turn the steering all the way in both directions several times, and then tighten the lower ring nut to specification.
4. Repeat step (3) until the lower ring nut does not turn.

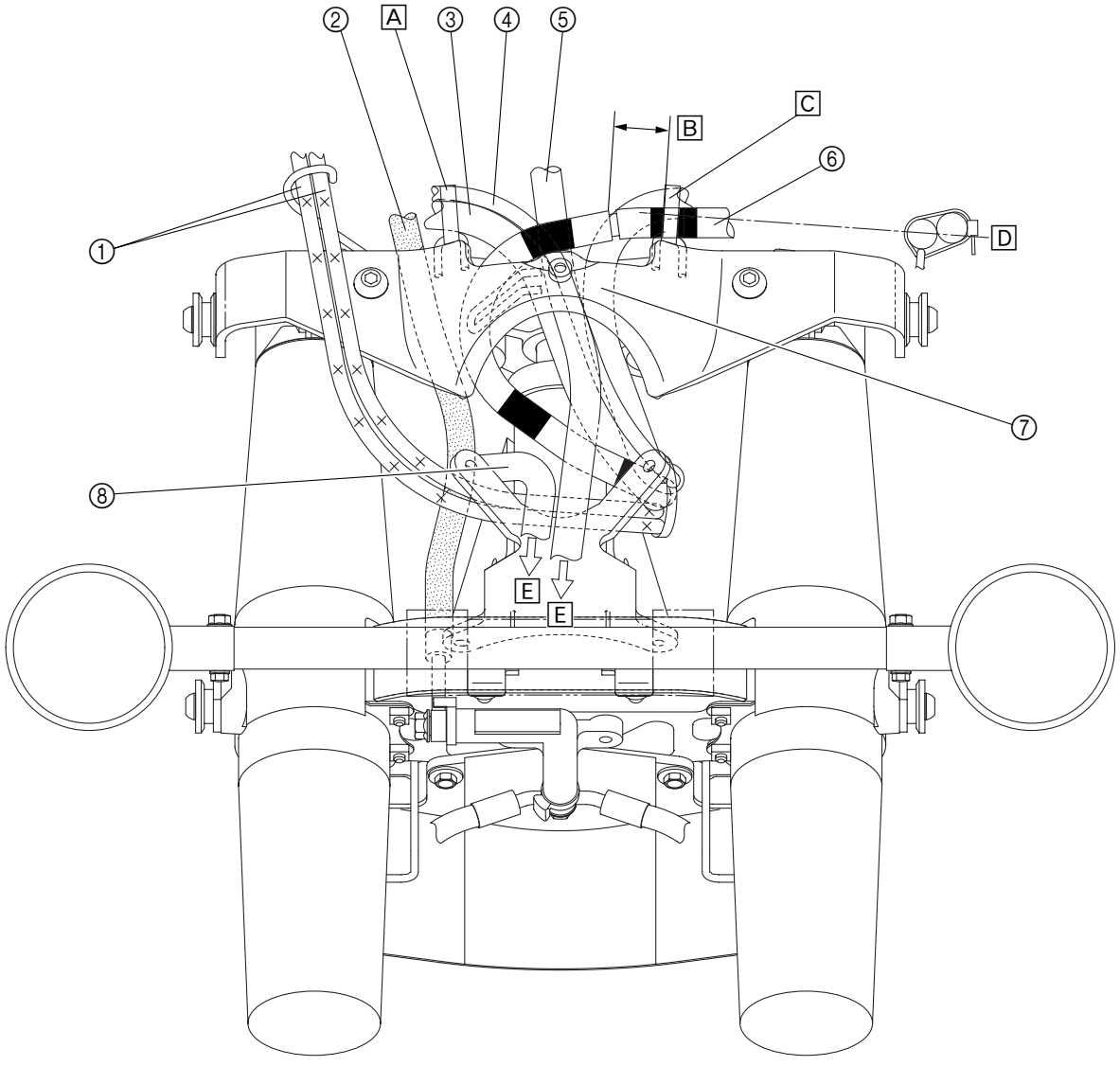
ELECTRICAL

Item		Standard	Limit
Fuel sender:			
Model/manufacturer		1D6/NIPPON SEIKI	----
Resistance	(Full)	9 ~ 11 Ω at 20 °C (68 °F)	----
	(Empty)	213 ~ 219 Ω at 20 °C (68 °F)	----
Starting circuit cut-off relay:			
Model/manufacturer		G8R-30Y-U0/OMRON	----
Coil resistance		162 ~ 198 Ω	----
Fuel pump relay:			
Model/manufacturer		G8R-30Y-U0/OMRON	----
Coil resistance		162 ~ 198 Ω	----
Fuses (amperage × quantity):			
Main fuse		30 A × 1	----
Headlight fuse		15 A × 1	----
Signaling system fuse		15 A × 1	----
Ignition fuse		10 A × 1	----
Radiator fan fuse		10 A × 1	----
Backup fuse (meter assembly)		10 A × 1	----
Cruise control fuse		10 A × 1	----
Carburetor heater fuse		15 A × 1	----
Auxiliary DC jack fuse		5 A × 1	----
Spare fuse		30 A × 1	----
		15 A × 1	----
		10 A × 2	----
		5 A × 1	----

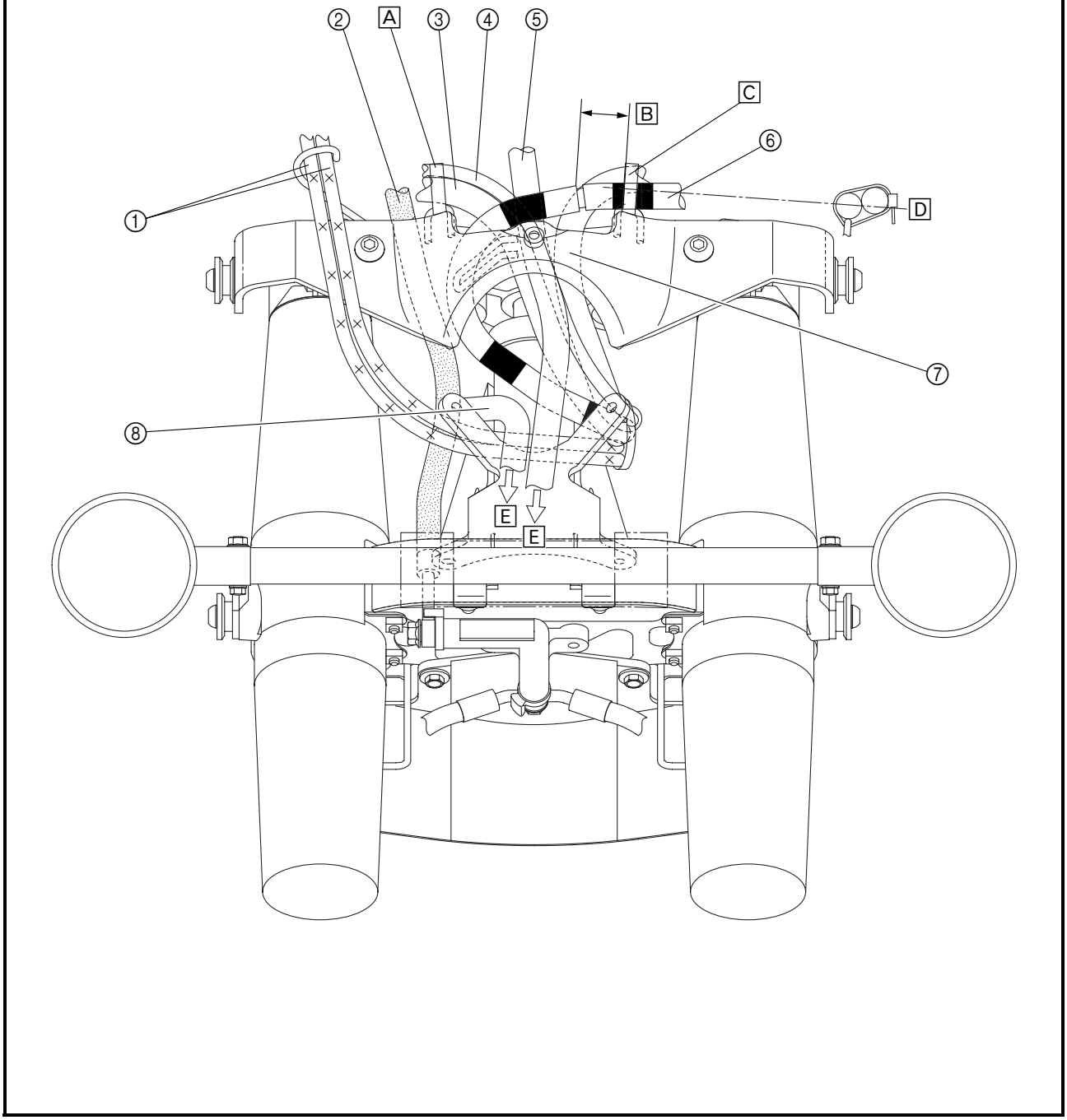
CABLE ROUTING

① Throttle cables
② Front brake hose
③ Right handlebar switch lead
④ Front brake switch lead
⑤ Meter assembly lead
⑥ Clutch hose
⑦ Left handlebar switch lead
⑧ Wire harness

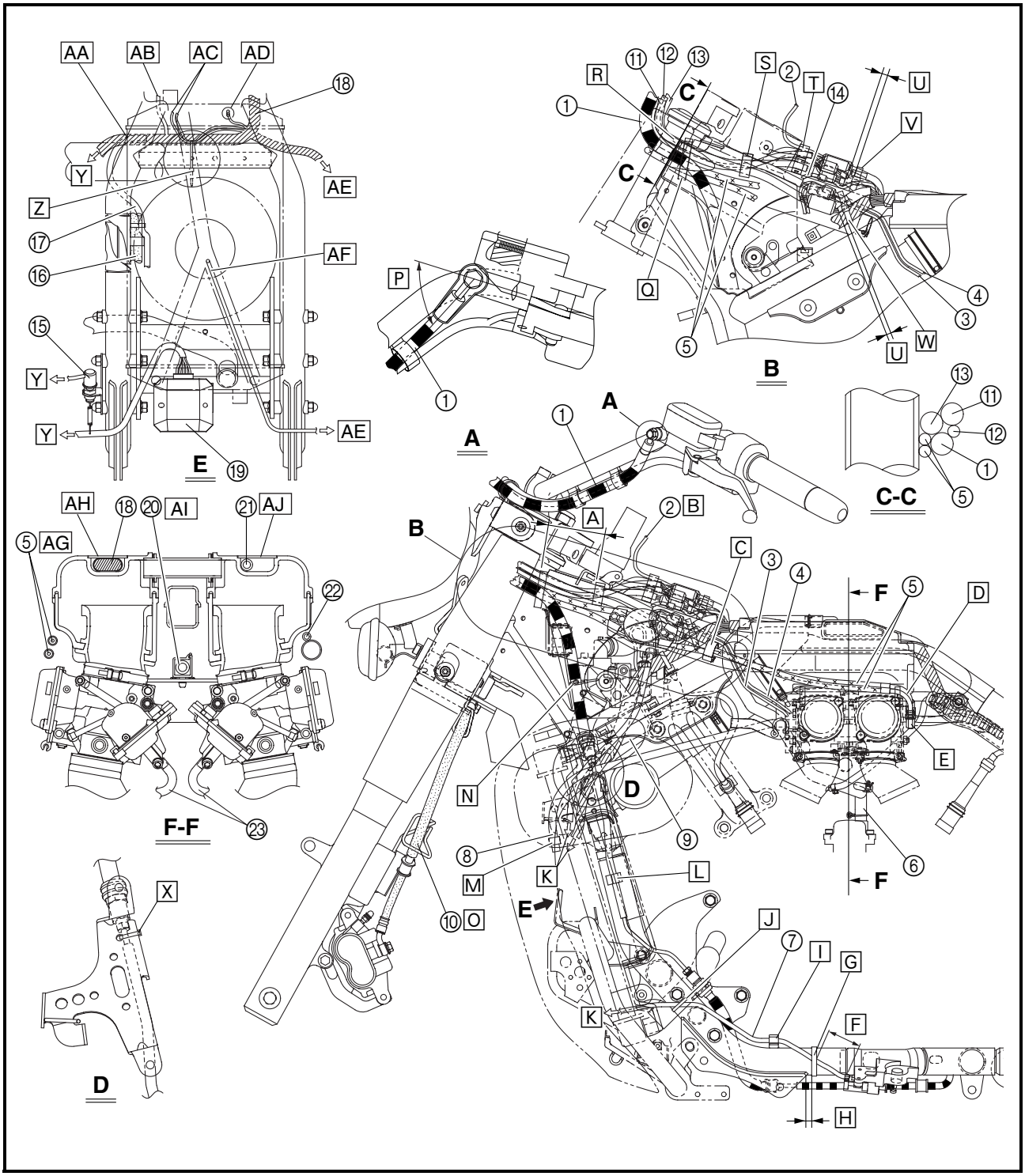
Ⓐ Fasten the right handlebar switch lead and front brake switch lead at the white tape on each lead with a plastic band. The end of the plastic band should be facing downward.
Ⓑ The clutch hose should be fastened 20 ~ 30 mm (0.79 ~ 1.18 in) from the end of the protector around the hose.



[C] Fasten the left handlebar switch lead and clutch hose with a plastic band. Fasten the left handlebar switch lead at the white tape. The end of the plastic band should be facing downward.
[D] Fasten the clutch hose in front of the left handlebar switch lead as shown in the illustration. Fasten the right handlebar switch lead in front of the front brake switch lead in the same way.
[E] To headlight

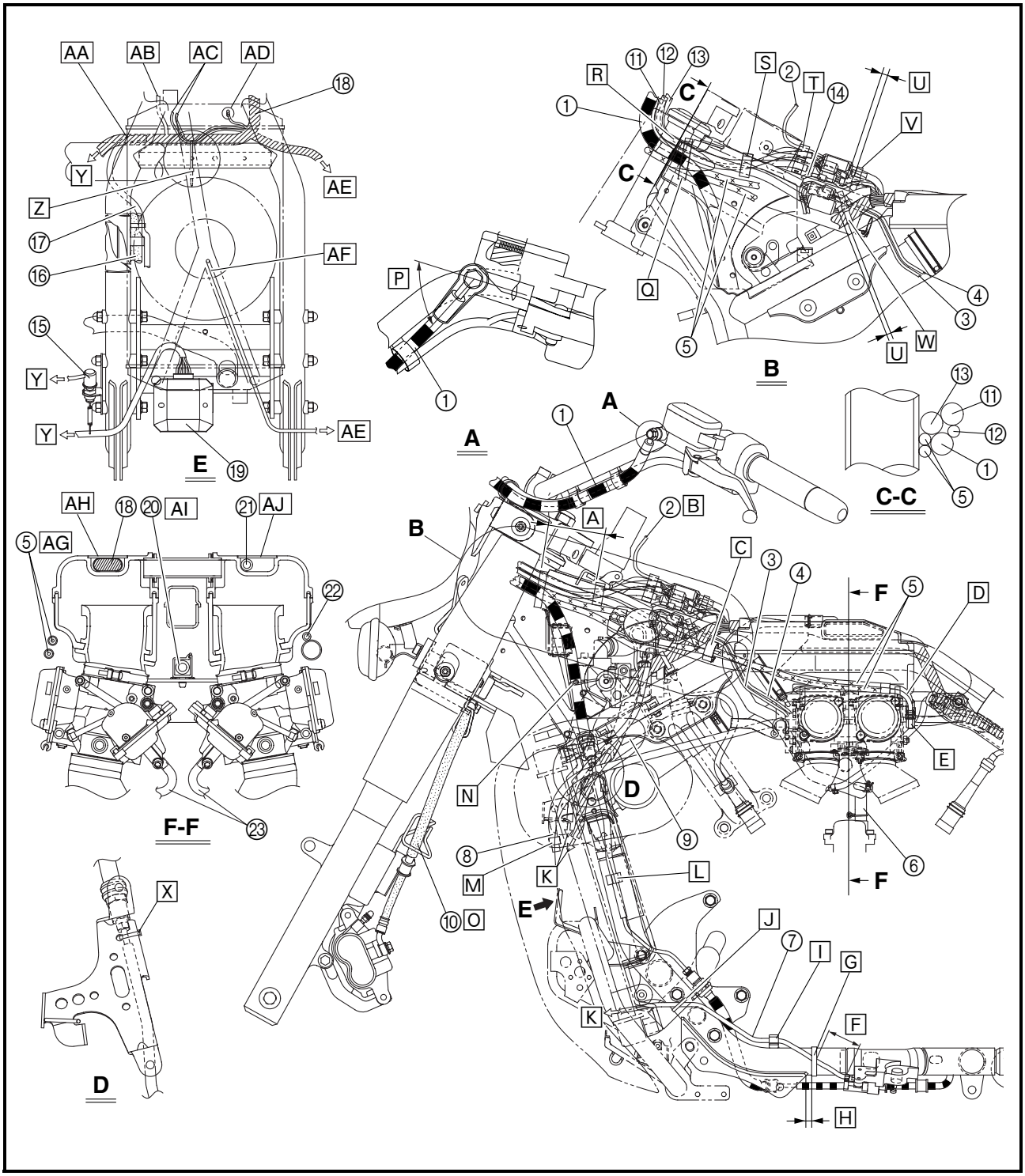


① Clutch hose
② Fuel sender lead
③ Throttle position sensor lead
④ Carburetor heater lead
⑤ Throttle cables
⑥ Crankcase breather hose
⑦ Sidestand switch lead
⑧ Carburetor air vent hose
⑨ Ignition coil #2
⑩ Front brake hose
⑪ Left handlebar switch lead
⑫ Front brake switch lead
⑬ Right handlebar switch lead
⑭ Ignition coil #4 lead
⑮ Rear brake switch
⑯ Rear brake fluid reservoir hose
⑰ Air induction system vacuum hose (front side)
⑱ Wire harness
⑲ Rectifier/regulator
⑳ Fuel hose

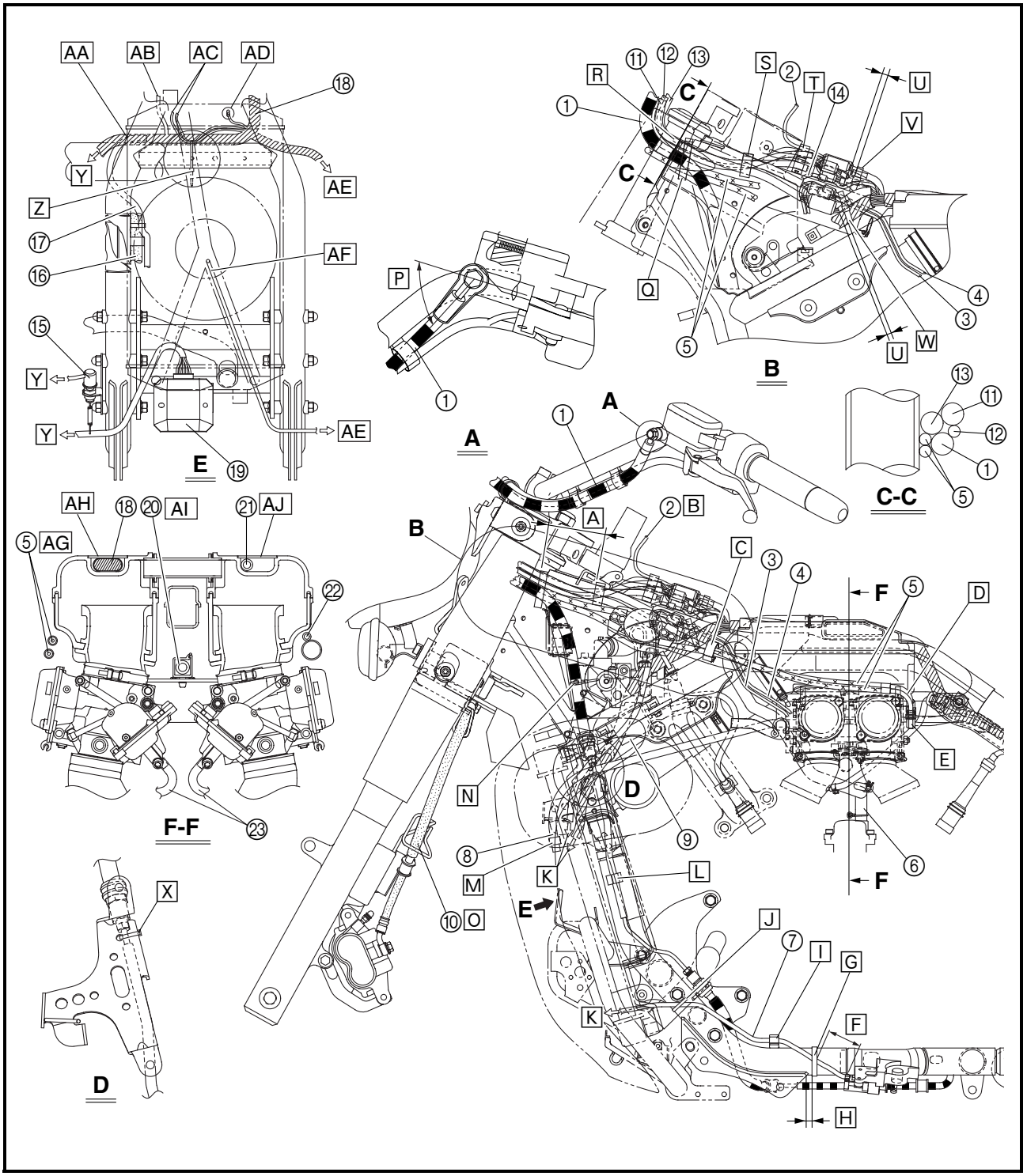


㉑ Fuel tank breather hose
㉒ Coolant reservoir hose
㉓ Carburetor drain hoses

A 80 mm (3.15 in)
B Attach the fuel sender lead coupler to the bracket on the front of the fuel tank.
C Fasten the throttle cables with the holder.
D Fasten the throttle cable (accelerator cable) on the inside of the cable holder.
E Fasten the throttle cable (decelerator cable) on the outside of the cable holder.
F Make sure that there is no slack in the sidestand switch lead.



[G] Fasten the sidestand switch lead with a plastic locking tie. The end of the plastic locking tie should be on the inside of the frame, facing downward.
[H] Within 5 mm (0.20 in)
[I] Fasten the sidestand switch lead with the holder.
[J] Fasten the sidestand switch lead with a plastic locking tie. The end of the plastic locking tie should be facing inward.
[K] To under cover
[L] Fasten the clutch pipe with the holder.
[M] Pass the carburetor air vent hose through the hose guide on the air filter case.
[N] Pass a plastic locking tie through the hole in the frame, and then fasten the clutch hose to the frame with the tie. Place the end of the plastic locking tie behind the fuel tank bracket.
[O] Pass the front brake hose through the hose guide.
[P] 55 ~ 75°



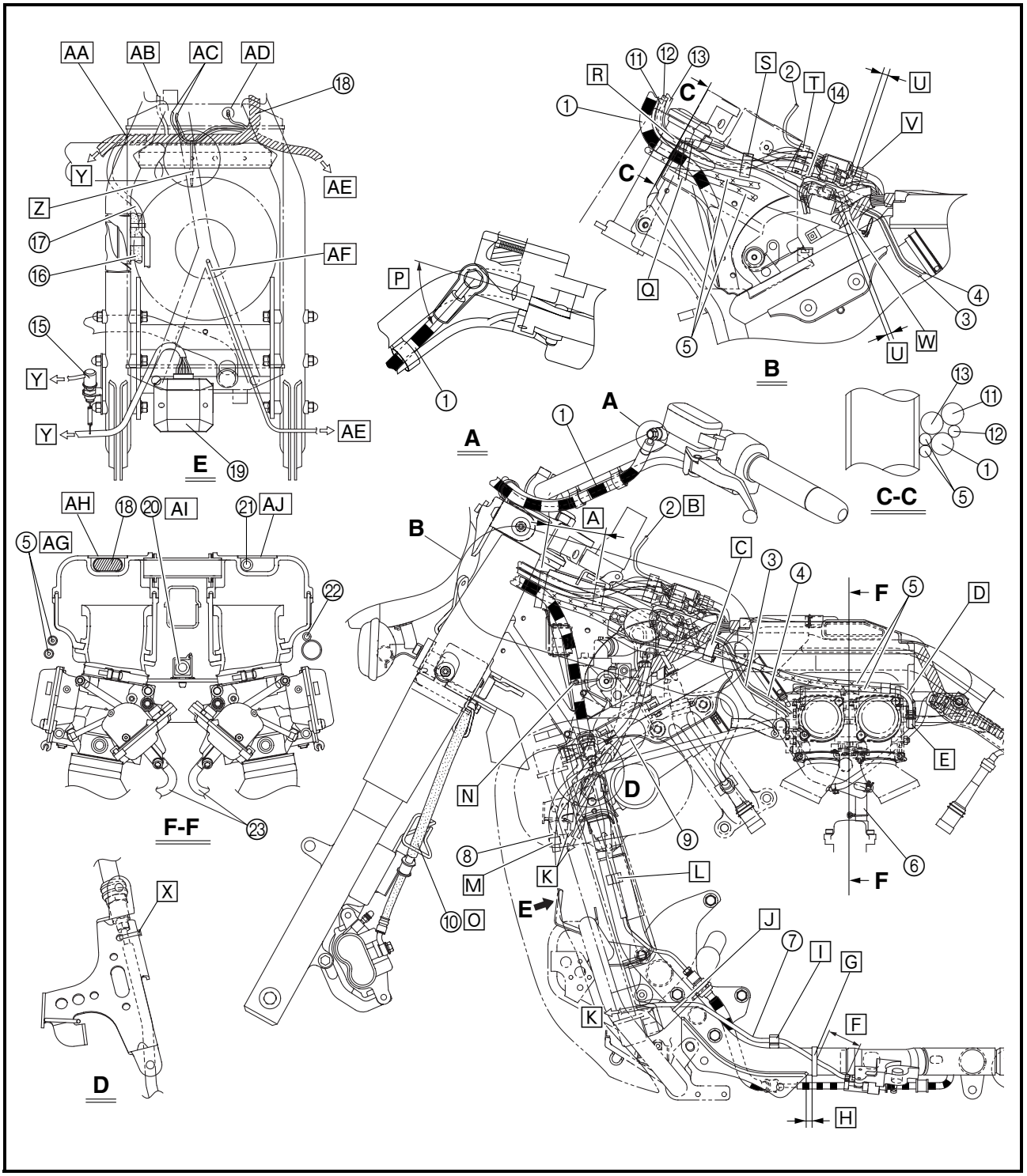
[Q] Fasten the left handlebar switch lead, right handlebar switch lead, front brake switch lead, clutch hose, and throttle cables with a plastic band. Fasten the left handlebar switch lead, right handlebar switch lead, and front brake switch lead at the white tape on each lead.

[R] Pass the cables, hoses, and leads through the opening in the upper right side panel and do not pinch them with the panel.

[S] Fasten the left handlebar switch lead, right handlebar switch lead, and front brake switch lead with the holder.

[T] Fasten the wire harness, main switch lead, fuel sender lead, right handlebar switch lead (water-resistant coupler side), and front brake switch lead with the holder. Fasten the protectors around the leads and do not fasten the leads themselves.

[U] 5 ~ 10 mm (0.20 ~ 0.39 in)



[V] Fasten the wire harness, main switch lead, right handlebar switch lead (water resistance coupler side), fuel sender lead, front brake switch lead, and ignition coil #4 lead with a plastic band. The end of the plastic band should be facing downward.

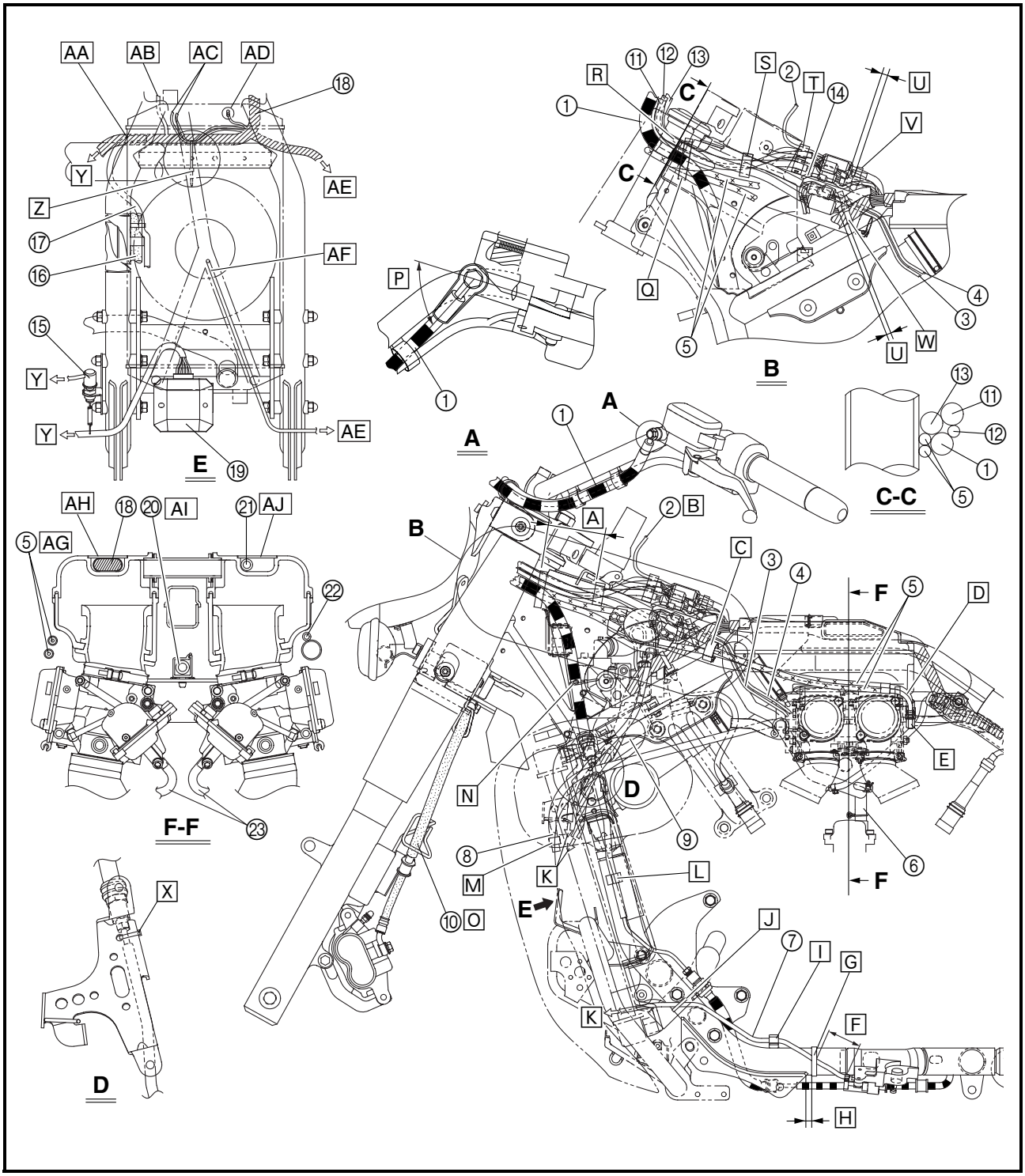
[W] Fasten the wire harness, carburetor heater lead, left handlebar switch lead, right handlebar switch lead (regular coupler side), and throttle position sensor lead with a plastic band. The end of the plastic band should be facing downward.

[X] Pass a plastic locking tie through the hole in the bracket, and then fasten the clutch pipe with the tie. The end of the plastic locking tie should be facing inward.

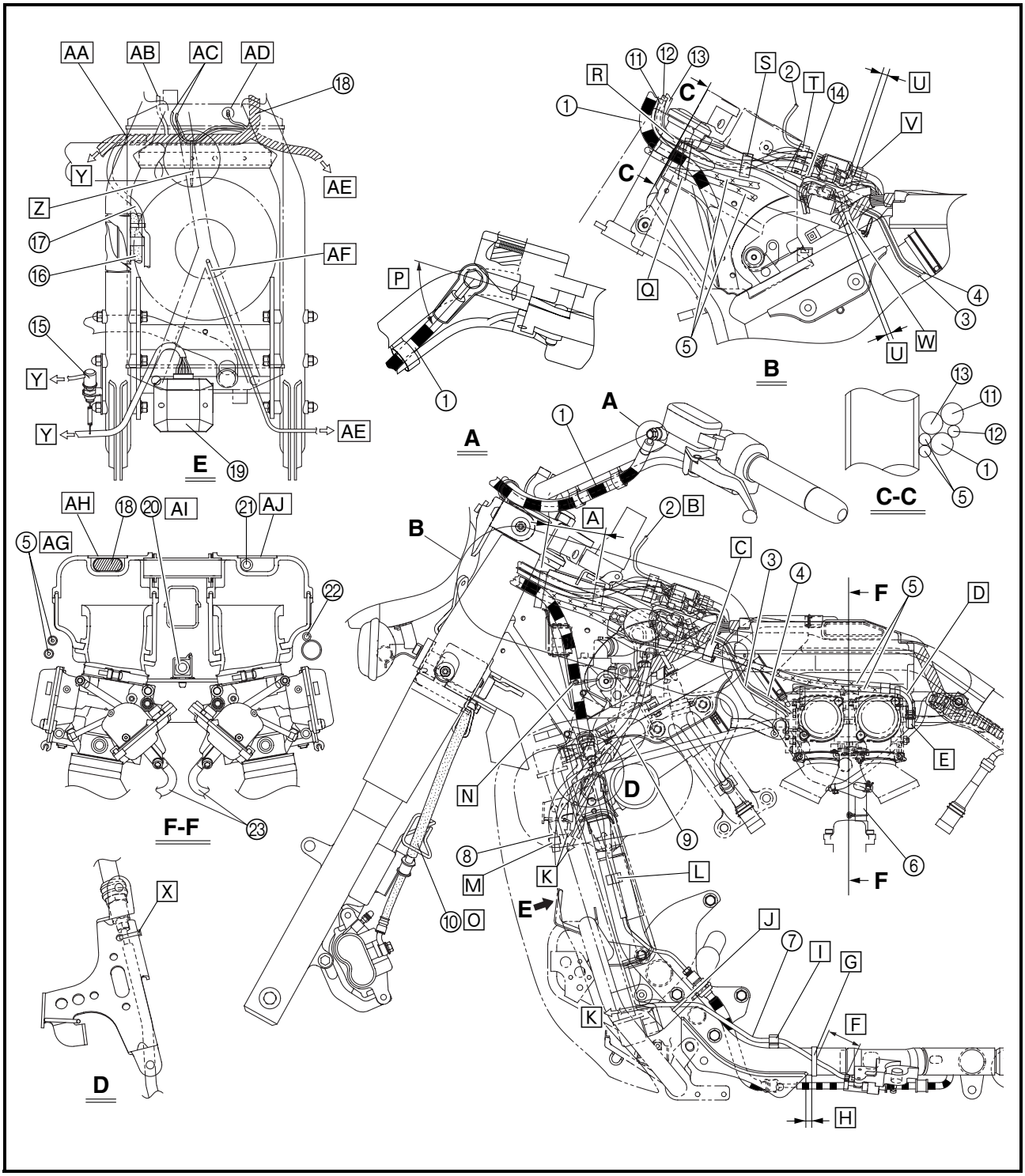
[Y] To under cover (right)

[Z] Fasten the ignition coil #2 leads with a plastic locking tie to the frame cross pipe. Cut off the end of the plastic locking tie.

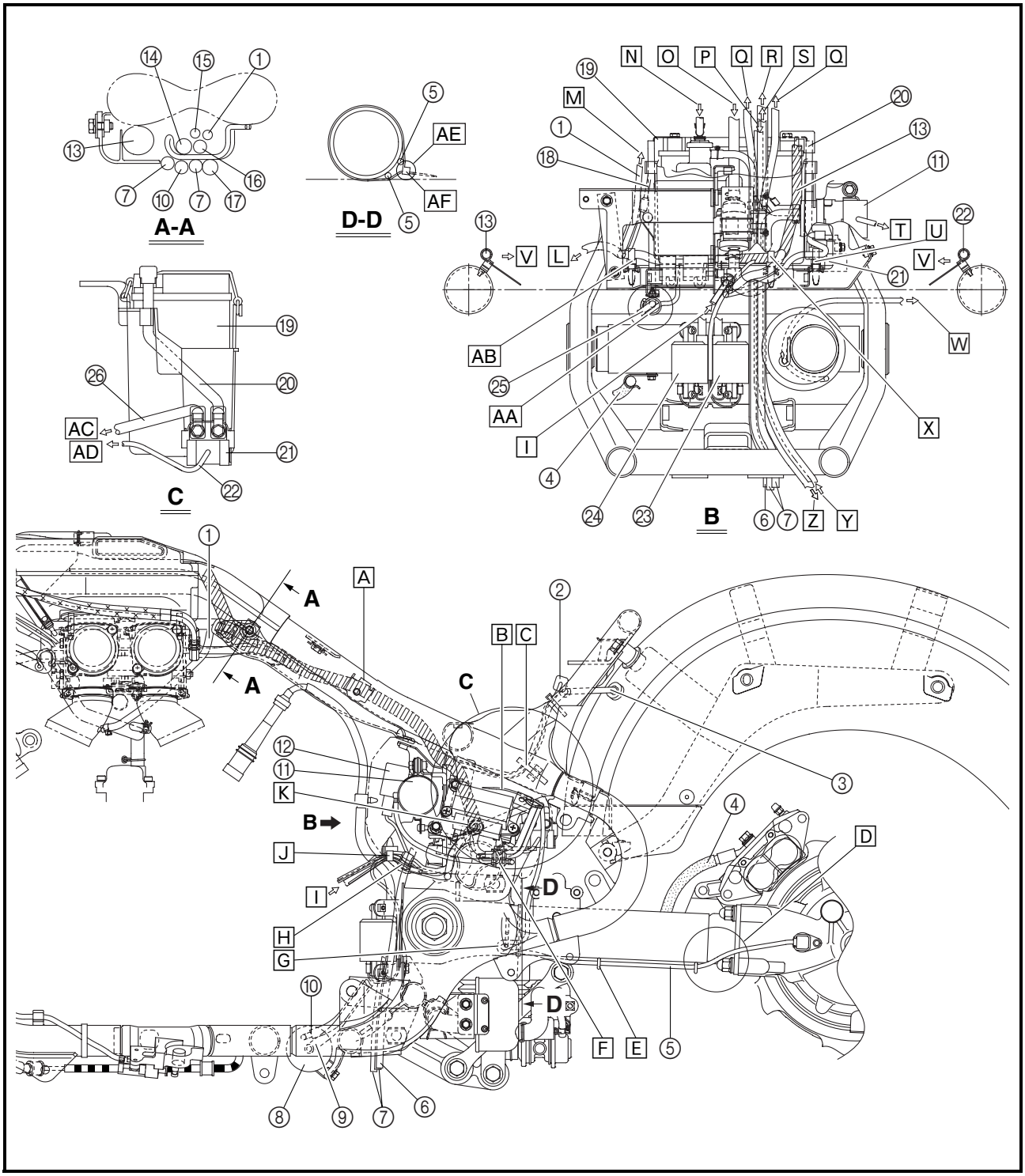
[A A] Route the air induction system vacuum hose (front side) to the outside of where the air filter case joint crosses the frame.



[A B] To engine stop switch
[A C] To ignition coil #2
[A D] To thermo switch 3
[A E] To under cover (left)
[A F] To radiator fan motor
[A G] Do not route the throttle cables to the outside of the carburetors. Route the throttle cables above the carburetors as shown in the illustration.
[A H] Route the wire harness through the channel on the top of the air induction box and fasten it with the holder.
[A I] Fasten the fuel hose with the two holders on the carburetor.
[A J] Route the fuel tank breather hose through the channel on the top of the air induction box and fasten it with the holder.

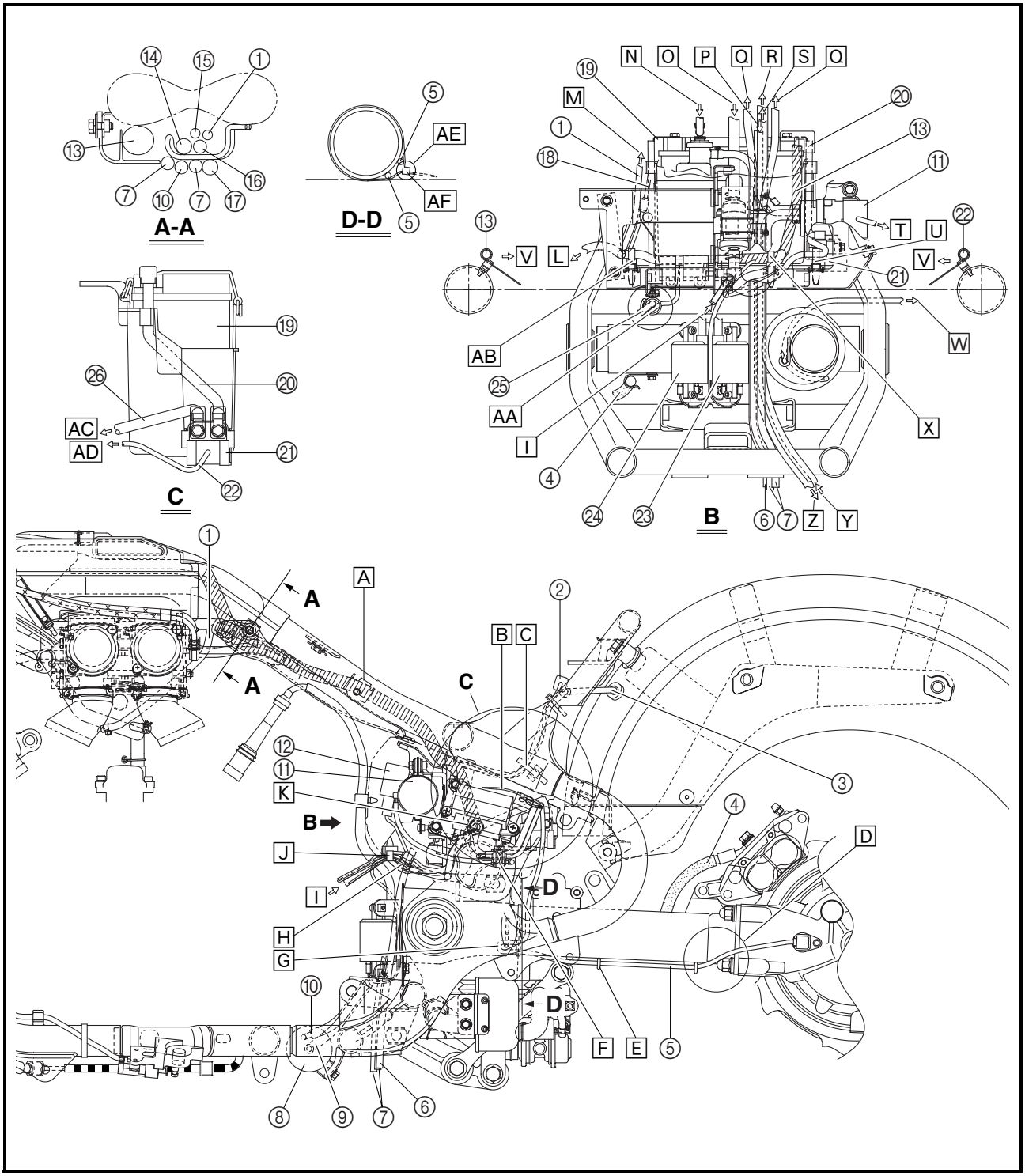


① Air induction system vacuum hose (rear side)
② Auxiliary DC jack
③ Tail/brake light lead
④ Rear brake hose
⑤ Speed sensor lead
⑥ Coolant reservoir breather hose
⑦ Air induction box drain hoses
⑧ Canister (California only)
⑨ Fuel tank breather hose (connected to canister for California)
⑩ Canister purge hose (California only)
⑪ Fuel pump
⑫ Relay unit
⑬ Wire harness
⑭ Fuel hose (from fuel tank)
⑮ Coolant reservoir hose
⑯ Fuel tank breather hose
⑰ Fuel hose (from fuel pump)
⑱ Ground lead
⑲ Battery
⑳ Positive battery lead

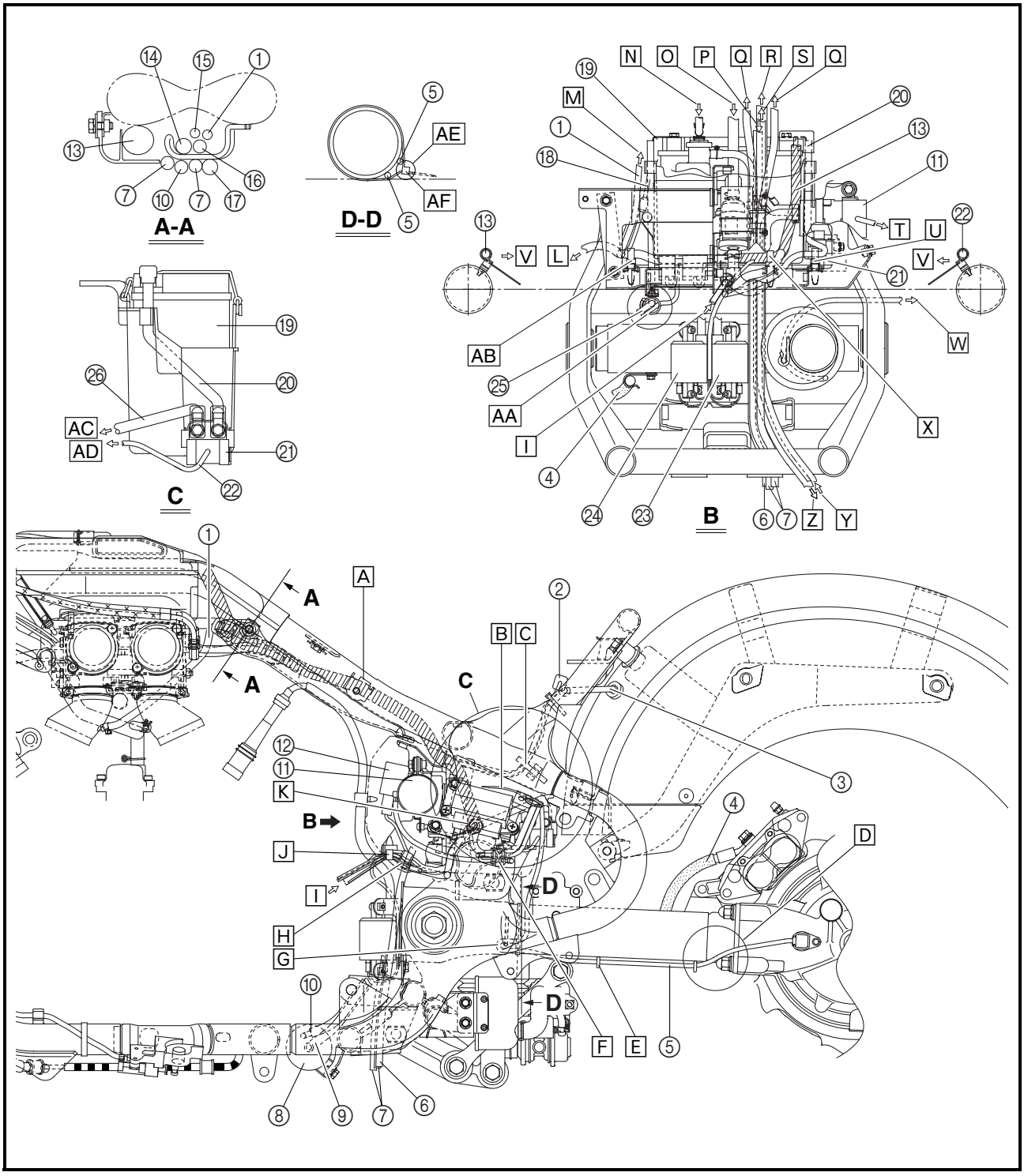


㉑ Starter relay
㉒ Starter relay lead
㉓ Ignition coil #1
㉔ Ignition coil #3
㉕ Negative battery lead
㉖ Starter motor lead

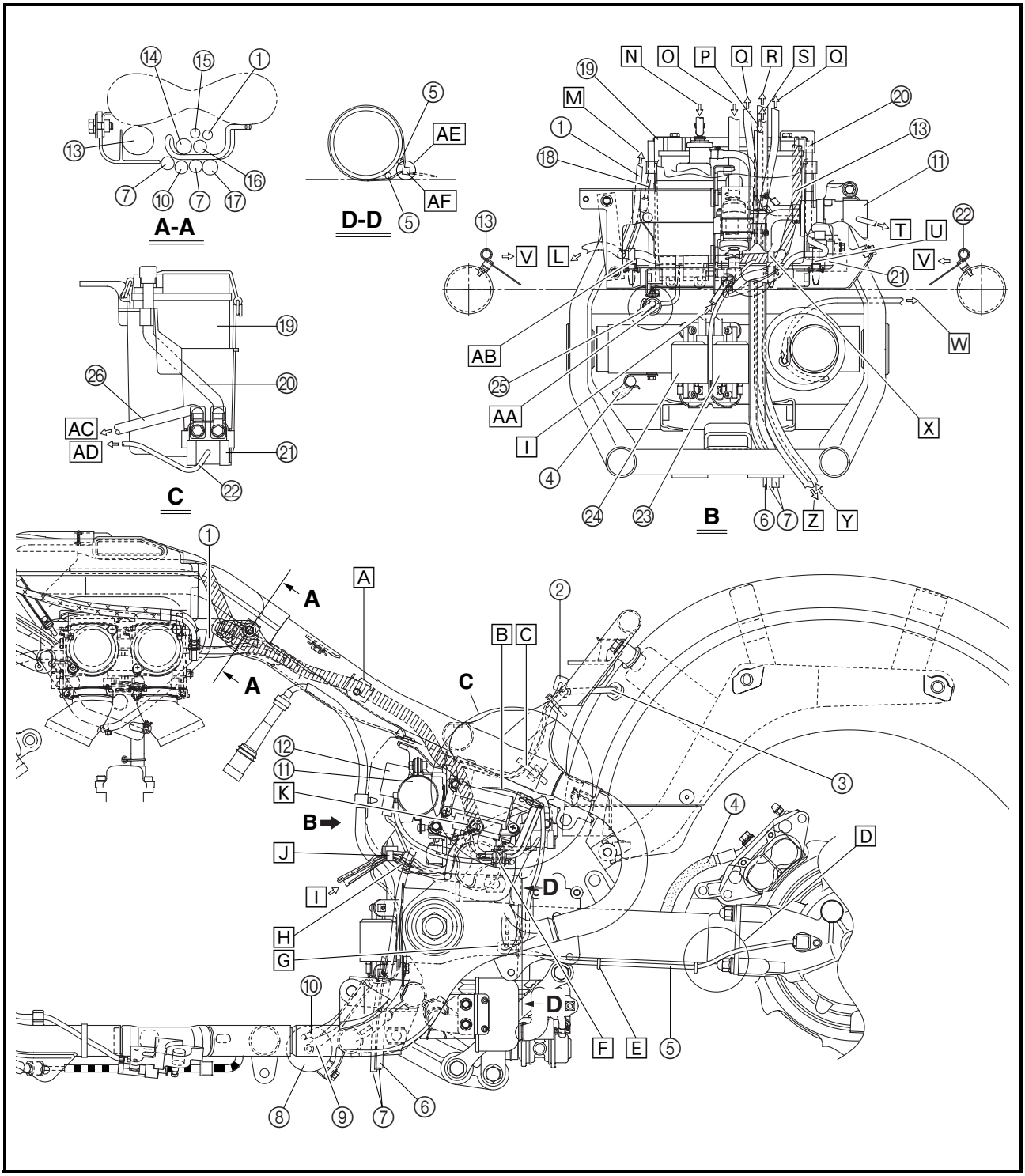
A Fasten the wire harness by sliding the plastic holder on the wire harness onto the stud on the frame.
B Pass a plastic locking tie through the hole in the left side cover bracket, and then fasten the speed sensor lead and wire harness with the tie. Place the end of the plastic locking tie over the fuse box so that it does not stick out from the left side cover.
C Fasten the tail/brake light lead and auxiliary DC jack lead with a plastic band.



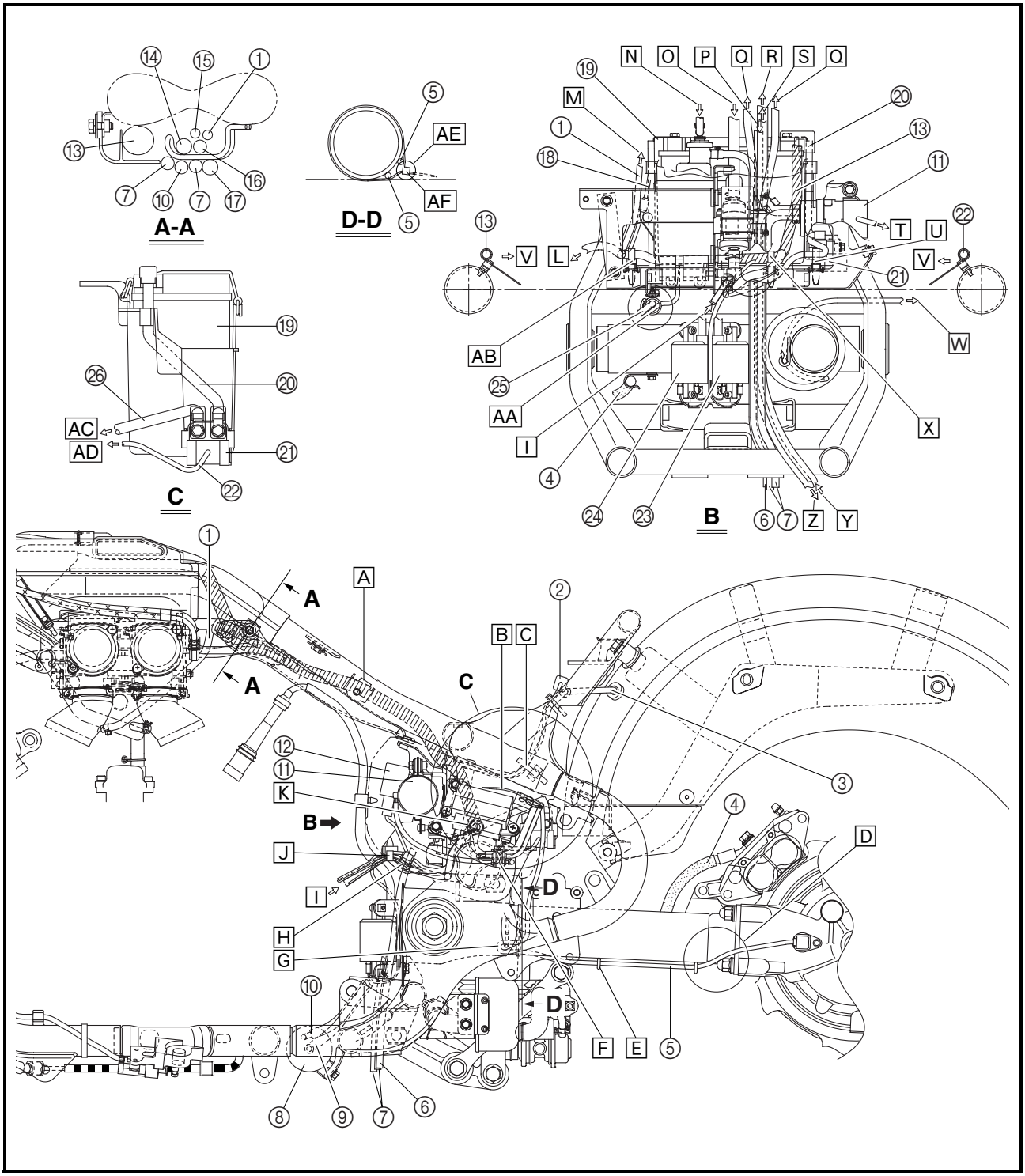
[D] Make sure that there is no slack in the speed sensor lead.
[E] Fasten the speed sensor lead with the three holders on the swingarm.
[F] Fasten the speed sensor lead, fuel pump lead coupler, fuel pump lead (to fuel pump), and fuse box leads with a plastic band. The fuel pump lead should be folded back against its coupler when fastening them. The end of the plastic band should be facing upward.
[G] Route the speed sensor lead under the holder, bend the lead back, and then fasten it with the holder and the plastic locking tie.
[H] Route the hoses on the left side of the leads.
[I] From engine
[J] Fasten the starter motor lead, pickup coil lead, A.C. magneto lead, neutral switch lead, ignition coil lead, and oil level switch lead with a plastic band. Do not fasten the relay unit lead.



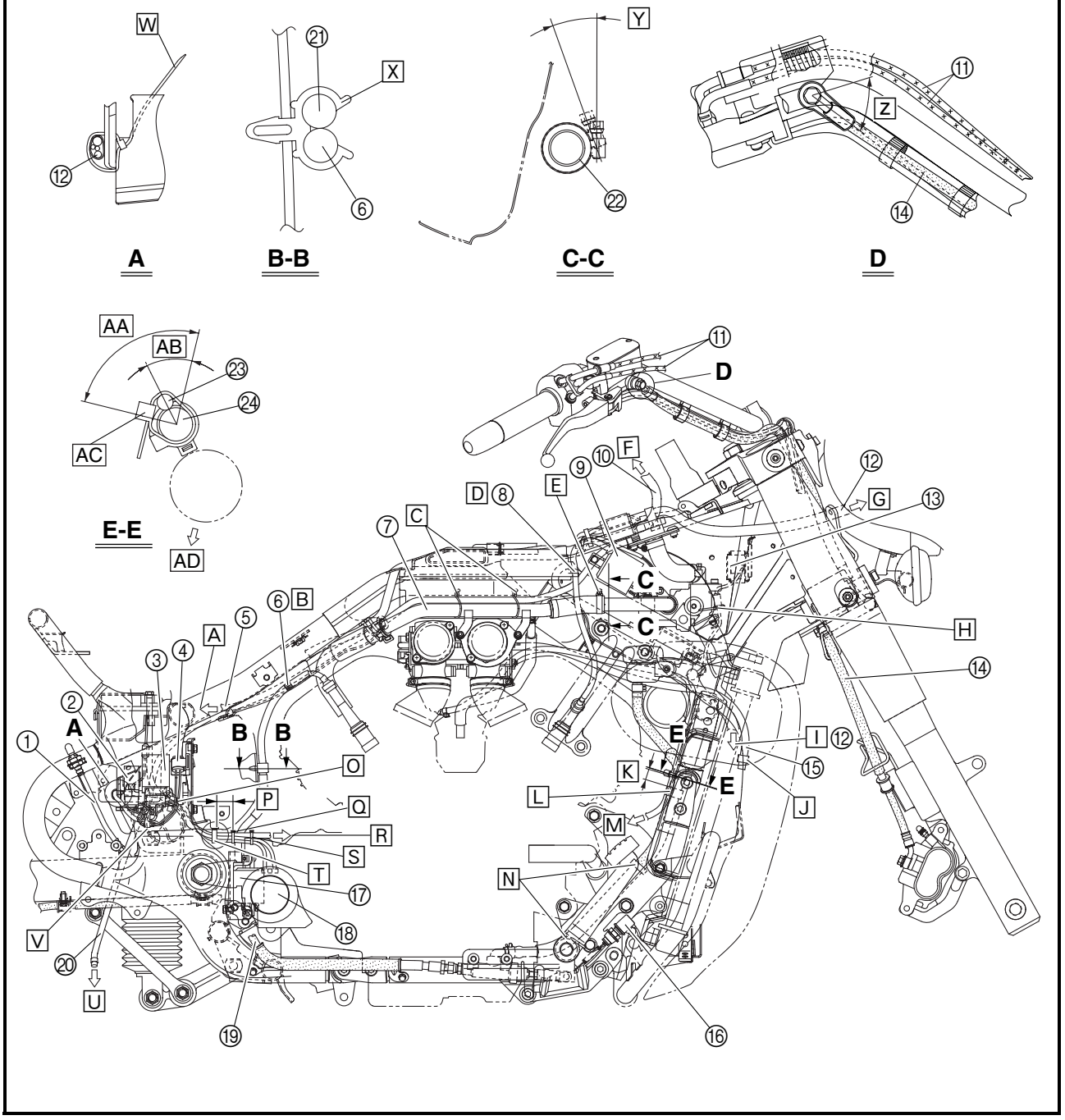
[K] Route the wire harness behind the ignitor unit.
[L] To turn signal relay/carburetor heater relay
[M] To intake manifold #2
[N] From radiator (coolant reservoir hose)
[O] From fuel tank (fuel hose)
[P] From fuel tank (fuel tank breather hose)
[Q] To air filter case (air induction box drain hoses)
[R] To carburetors (fuel hose)
[S] To carburetors (canister purge hose: California only)
[T] To wire harness (fuel pump lead)
[U] Fasten the starter relay lead a plastic band. The end of the plastic band should be facing forward.
[V] Forward
[W] To wire harness (speed sensor lead)
[X] Fasten the wire harness at the white tape with a plastic band. The end of the plastic band should be facing forward. Do not fasten the starter relay lead.
[Y] From canister (California only)



[Z] To canister (California only)
For all models except California, route the fuel tank breather hose with the air induction box drain hoses.
[A A] To horn
[A B] Fasten the wire harness with a plastic band. The end of the plastic band should be facing forward.
[A C] To plastic band on frame cross pipe
[A D] To wire harness
[A E] The fastener and the cut end of the plastic locking tie should not be lower than the bottom of the swingarm and the cut end should not contact the rear shock absorber.
[A F] Fasten the speed sensor lead behind the holder on the swingarm with a plastic locking tie. The end of the plastic locking tie should be cut off and facing inward.

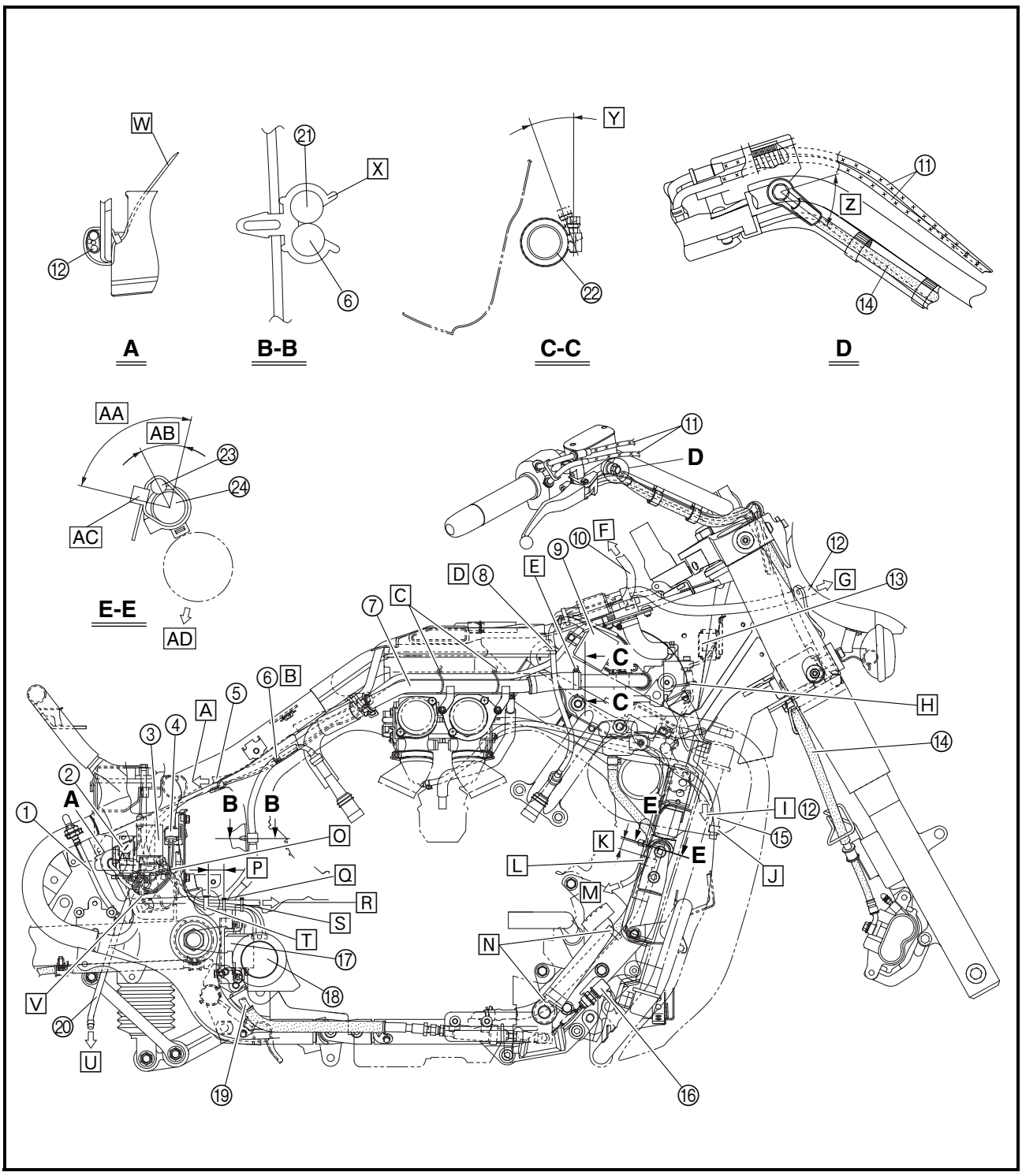


① Rear shock absorber air pressure check hose
② Carburetor heater relay
③ Turn signal relay
④ Thermo switch 2
⑤ Coolant reservoir hose
⑥ Spark plug lead #3
⑦ Coolant pipe
⑧ Spark plug lead #4
⑨ Ignition coil #4
⑩ Fuel tank breather hose
⑪ Throttle cables
⑫ Wire harness
⑬ Engine stop switch
⑭ Front brake hose
⑮ Carburetor air vent hose
⑯ Rear brake switch
⑰ Ignition coil #3
⑱ Horn
⑲ Rear brake hose
⑳ Air induction system vacuum hose (rear side)

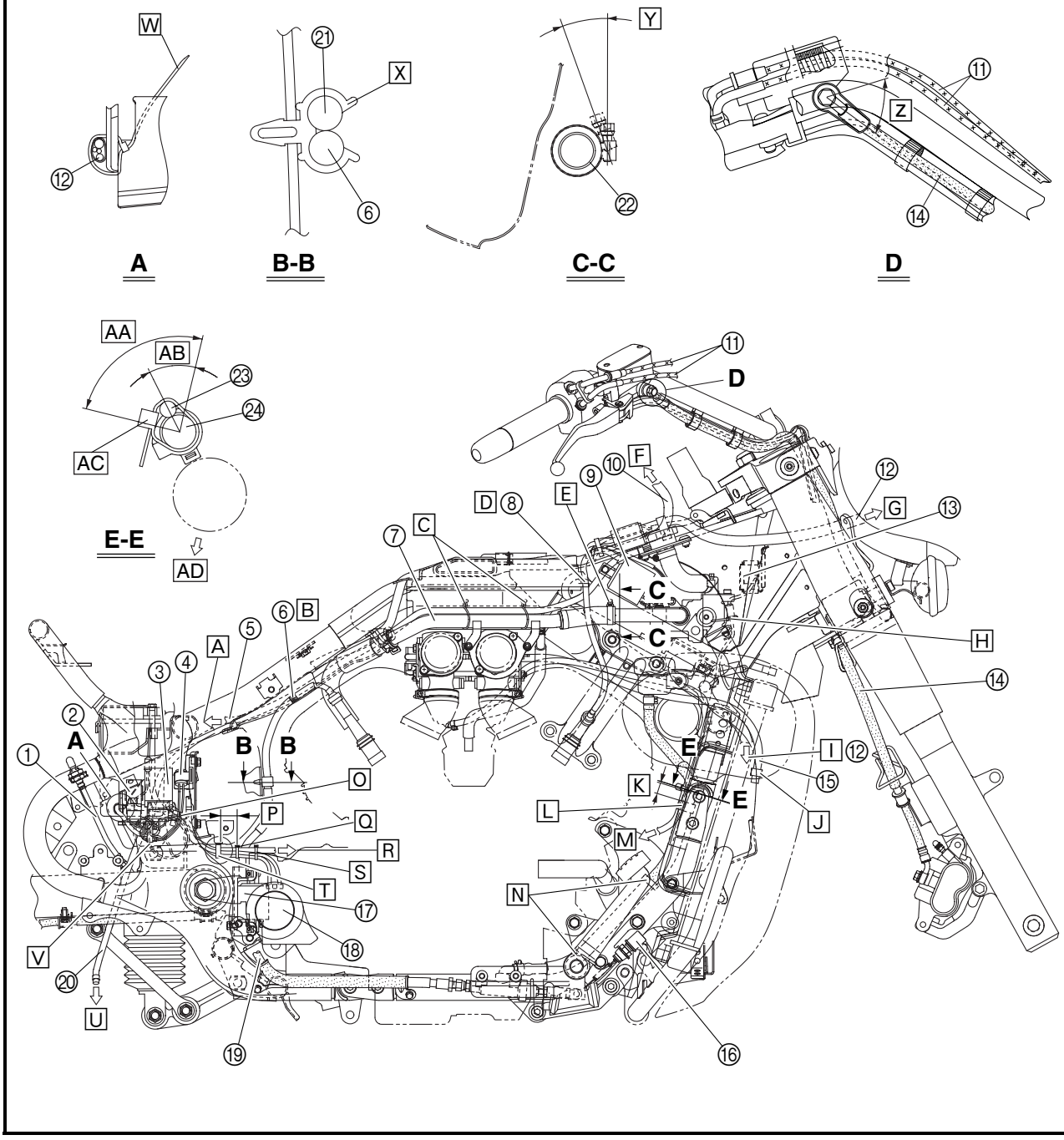


㉑ Spark plug lead #1
㉒ Coolant hose
㉓ Air induction system vacuum hose (front side)
㉔ Rear brake fluid reservoir hose

A To coolant reservoir cap
B The spark plug lead #3 is marked with white tape.
C Fasten the coolant reservoir hose to the coolant pipe with the plastic clamps. The ends of each plastic clamp should be facing upward.
D Fasten the spark plug lead #4 with the holder on the air induction box.
E Fasten the coolant hose with the screw clamp. The fastener of the screw clamp should be facing inward with the screwhead facing upward.



[F] To fuel tank
[G] To headlight
[H] Pass a plastic locking tie through the hole in the frame, and then fasten the engine stop switch lead (wire harness side) to the frame with the tie. Make sure that the engine stop switch lead does not contact the radiator. Place the end of the plastic locking tie behind the fuel tank bracket.
[I] To under cover (right)
[J] Pass the carburetor air vent hose through the hose guide on the air filter case.
[K] 0 ~ 30 mm (0 ~ 1.18 in)
[L] The fastener of the holder should be facing towards the rear of the motorcycle.
[M] To air cut-off valve assembly (front side)
[N] The fastener of each holder should be facing outward.
[O] Route the negative battery lead between the wire harness and frame cross pipe. Do not pinch the negative battery lead.
[P] 35 ~ 45 mm (1.38 ~ 1.77 in)



Q Fasten the leads with a plastic locking tie between the other plastic locking tie and the holder.
R To engine
S Fasten the horn leads and negative battery lead at the white tape on each lead with a plastic locking tie. Cut off the end of the plastic locking tie.
T Fasten the horn leads and negative battery lead with the holder.
U To air cut-off valve assembly (rear side)
V Fasten the turn signal relay lead and thermo switch 2 lead with a plastic band. The end of the plastic band should be facing upward.
W Fasten the wire harness to the right side cover bracket with a plastic locking tie. The end of the plastic locking tie should be facing in the direction shown in the illustration so that it does not stick out from the right side cover.
X Fasten the spark plug leads above the protectors around the leads with the holder.